

# MEETING OF THE EXECUTIVE COMMITTEE

## Minutes

**23rd August, 2024**  
**Booyoung Hotel Board Room, Jeju, Korea**

### **Executive Committee Attendees:**

Jose Orlando Gomes, President (JOG)  
Maggie Graf, Vice-President and Secretary General (MG)  
Thomas Alexander, Vice-President and Treasurer (TA)  
Nancy Black, Science, Technology and Practice Chair (NB)  
Jonathan Davy, Communication and Public Relations Chair (JD)  
Takeshi Ebara, Professional Standards and Education Committee Chair (TE)  
Anindya Kumar Ganguli, International Development Chair (AKG)  
Kathleen Mosier, Past-President and Awards Chair (MG)  
Elina Parviainen, Development and Promotions Chair (EP)  
Shin'ichi Fukuzumi, Chair Advisory Group on Standardisation (SF)  
Takashi Kawai, Information and Communication Technology Ad Hoc Committee Chair (TK)  
Andrew Thatcher, Future of Work Task Force Chair (ATH)  
Andrew Todd, Strategy Development and Implementation (AT0)  
Myung Hwan Yun, IEA2024 Congress Chair (MHY)

**Staff:** Aleksandra Gamper, Administrator, IEA Office (AG)

Agenda item	Resp	Discussion, Decisions and Action Items
09:00 1.Call to Order and Approval of Agenda	<b>JOG/MG</b>	Prof. Sang-ho Kim, Prof. Inseok Lee, and Prof. Taezoon Park welcomed the attendees of the meeting, thanked everyone involved in organizing the Congress, and wished success for the event.  The agenda, as amended, was approved by unanimous consent.
09:05 2. Minutes of last EC meeting	<b>MG</b>	MG reminded that Minutes of last EC meeting had been previously sent for comment, edited in accordance with comments and filed on IEA Website Executive members' area.

09:10 3. President's report	<b>JOG</b>	<p>The President's report was presented and discussed. Ref. 1</p> <p>JOG expressed gratitude to the organizers of the events and for the continuous collaboration.</p> <p>JOG discussed:</p> <ul style="list-style-type: none"> <li>• The IEA growth: new societies are being formed and new societies are joining IEA.</li> <li>• Implementation of the 7 strategic policies.</li> <li>• Importance of EC collaborative projects, e.g. establishment of new awards, Congress Model development, joint projects of ID and PSE resulting in new educational programs.</li> <li>• Involvement of co-chairs.</li> <li>• Development of online interaction: online meetings across IEA, weekly officer's meetings.</li> </ul>
09:40 4. VPSG Report	<b>MG</b>	<p>The VPSG report was presented and discussed. Ref. 2</p> <p>MG reported on the new format of IEA Triennial Report. MG informed the EC about the IEA membership numbers. There are 54 federated societies, more countries are joining. Non-operating societies: IREA, Ukrainian society, Algerian society, Slovakian society. Membership numbers within federated societies are dropping. Affiliated societies: no reports from Human ergology society, IEA networks: no report from SEAN. MG discussed the initiative to clarify the executive structure and EC roles. She then reported on the results of the Corporate Image Project and highlighted the number of webinars held since the start of the initiative (over 40 webinars). MG also expressed gratitude to all the webinar organizers and presenters.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• The problem of the decrease in membership numbers: IEA webinars may be feeding the problem.</li> <li>• Promotion of the webinars among the universities and governments.</li> <li>• Webinars address the IEA's objective to explain the discipline to the general public.</li> </ul> <p><b>AP:</b> to add to the webinar survey a question about Federated society membership.</p>
10:00 5. VP/Treasurer's Report	<b>TA</b>	<p>The VP/Treasurer's Reports were presented and discussed. Ref. 3</p>

		<p>TA presented the Treasures's report for 2023. TA discussed assets and liabilities, reported on the increase in surplus for the year due to higher contributions from sustaining members, and provided an overview of revenue and expenditure sources, cash flow, and the 2024 forecast. TA compared last year's forecast with the actual figures. Informed about the auditors' report. TA then presented 2024 Interim report, covering assets and liabilities for 2024, revenues and expenditures, forecast for 2024 which did not include IEA2024 surplus. TA then discussed his chapter of the Triennial Report, providing an overview and highlighting trends in the financial situation of the IEA over the past years, as well as outlining cash reserve goals.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• The risks of overestimating the cash reserve. JOG emphasized the importance of developing a strategy to maintain stable finances and urged the need to highlight the strategic share cost policy.</li> <li>• Monetary awards as a value-add of the IEA, emphasizing support for early-career scientists and experts.</li> </ul>
10:30		BREAK
10:50 6. Report and discussion: STP	<b>NB</b>	<p>A report on the activities of Science, Technology and Practice Committee activities was presented and discussed. Ref. 4</p> <p>NB talked about the STP mission and the TCs coordination. STP-TC projects and activities, including new publications, TCs' participation in IEA2024, events endorsements, TC support and development strategies, new resources, and webinars.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• Publications: JOG stressed the work on the special issues and asked to provide the numbers for IEA2021 and 2024.</li> <li>• Nutshell publications: marketing issues and the need to manage its publicity.</li> <li>• Confirmed that TC conferences are endorsed by IEA free of charge.</li> <li>• Stakeholders' roles and how IEA is contributing.</li> </ul>

11:05 7. Report and discussion: PS&E	<b>TE</b>	<p>A report on the activities of the Professional Standards and Education Committee was presented and discussed. Ref. 5</p> <p>TE reported on the collaborative work of PSE and ID, namely the development of a PhD program in Latin America, preparation of an education toolkit for HFE core competencies (panel discussion at IEA2024), master's program on HFE in Italy, updating of the educational map, and future activities.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• Relevant panel discussions at IEA2024.</li> </ul>
11:20 8. Report and discussion: ID	<b>AKG</b>	<p>A report on the activities of the International Development Committee was presented and discussed. Ref. 6</p> <p>AKG discussed the composition of the committee, its mission, the creation of new ergonomic societies in the Americas, Africa, and Asia, the collaborative PhD program in Asia tailored to regional needs, the training program in Vietnam, and alignment with strategic policies. AKG also highlighted the outcomes, future activities, and the record of work documented in the triennial report to ensure a smooth handover.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• Issues for the next committee, specifically the membership fees for smaller societies.</li> <li>• Confirmed that the Bolivian society had been legalised, and the Panamanian society had applied to be an IEA member.</li> <li>• Benefits for the global community: act locally to reach global benefits.</li> </ul>
11:35 9 Report and discusión: CPR	<b>JD</b>	<p>A report on the activities of the Communications and Public Relations Committee. Ref. 7</p> <p>JD talked about the needs met by the CPR committee, its purpose, alignment with the IEA goals, communication projects, flow of information, achievements, in particular the Newsbriefs and social media activities. JD then proposed some recommendations and future activities, including support of the early career researchers, improvement of collaboration with world organisation, increase in social media presence.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• Standing committees' work and awareness-raising campaign to ensure transfer of information across the committees and IEA members.</li> </ul>



		<ul style="list-style-type: none"> <li>Hiring a CPR and publicity expert.</li> </ul> <p><b>AP:</b> to learn the qualifications needed and an estimate for the expenses. Inform the next EC about the recommendation.</p>
11:50 10. Report and discussion: DP	<b>EP</b>	<p>A report on the activities of the Development and Promotions Committee was presented and discussed. Ref. 8</p> <p>EP talked about the importance of the triennial congress as a flagship conference and a financial resource, Congress Model (CM) project as a tool to improve the value of the congress. EP proposed to invite an external expert to coach on how to reinforce the infrastructure of the IEA. EP specified the needs for further development: clarification of the management processes, communication improvement, content management, financial management. EP reported on the activities undertaken and the outcomes, proposed directions for future activities.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>Achievements to date: a ready-made document (CM).</li> <li>Feedback from the IEA2024 OC on the Congress Model. How the nature of hosting societies influence the collaboration character.</li> <li>Timeline visualisation and the ways OC work can be adjusted.</li> <li>CM is a tool, not a restrictive document.</li> <li>Work as imagined (CM) vs work as done (IEA2024). JOG urged to analyse at this stage work as done. This is a recommendation for the next term.</li> </ul>
12:30	<b>LUNCH</b>	At venue
13:30 11. Report and Discussion: Awards	<b>KM</b>	<p>KM provided a summary of the IEA Awards to be presented at IEA2024. Ref. 9</p> <p>KM expressed her gratitude to Mario Vidal, a committee co-chair for awards. She then provided details on when the awards ceremony would be held, discussed the awards' stakeholders and their benefits, announced the triennial awards results, and outlined the criteria for the awards. Applicants cannot be evaluated if they do not highlight the specific types of achievements required. KM told about ECR and Student Kingfar awards uneven ratio, proposed future activities. KM then reported on the outreach projects with UN agencies, emphasizing the</p>

		<p>importance of personal contact for progress in this area. KM highlighted the outcomes, including joint publications.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• The arrangements for the awards ceremony at the banquet.</li> <li>• Recipients from Iran. It was noted that candidates must be in good standing to be eligible for the awards. KM suggested informing candidates about potential issues with receiving of awards beforehand (like in case of Iran).</li> <li>• Presentations by the K.U. Smith awardees, online versus in person. KM informed the group that students were permitted to present online.</li> </ul>
<p>13:50 12. Report and discussion: Standardization</p>	<b>SF</b>	<p>A report on the activities of the Standardization Ad Hoc Committee was presented and discussed. Ref. 10</p> <p>SF talked about the mission/role of the Advisory Group on Standardization (AGS), its stakeholders, potential benefits, and activities of the group. SF proposed some projects to meet the defined needs of the group, and presented a three-year plan.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• Consolidation of opinions on a comment regarding a standard to present it as an IEA comment.</li> </ul>
<p>14:10 13. Report and discussion: FoW</p>	<b>ATH</b>	<p>A summary of the activities undertaken by the Future of Work Task Force was presented and discussed. Ref. 11</p> <p>ATH reported on the webinar series statistics, informed about the schedule of the future of work (FoW) events at IEA2024, formulated recommendations and four megatrends (technology, climate, informalisation, skill supply), and proposed to integrate this work into the STP committee.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• Integration of the FoW group's results with other committees.</li> <li>• FoW in relation to the future of ergonomics.</li> <li>• The role of ergonomics in addressing global challenges, such as the pandemic.</li> <li>• Strategies for integrating YouTube videos into the website and visualizing the content.</li> <li>• Promotion of the videos.</li> <li>• Using the existing TCs to highlight the defined megatrends in joint papers.</li> </ul>

		<ul style="list-style-type: none"> <li>• The need to keep pace with current trends and encourage members to remain visible and actively promote HFE in the development of these trends.</li> <li>• Regulation and practice.</li> </ul>
14:30 14. Report and discussion: ICT	<b>TK</b>	<p>TK provided a summary of the Information and Communication Technology Committee activities. Ref. 12</p> <p>TK provided the project outline, described the technical details of the website and its basic design concepts, the website redesign plan and outcomes, member area development, Congress Model integration, introduction of the anonymized voting function to the website, and proposed further improvements.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• The necessity of online voting and the development of a better system in the future.</li> </ul>
14:55 15. Report and discussion: SDI	<b>ATO</b>	<p>ATO provided a report on the development and implementation of the IEA strategy. Ref. 13</p> <p>ATO discussed the purpose of the committee, namely the implementation of the IEA's 7 strategic policies across the IEA, the reduction of unnecessary structures, and the improvement of activities. ATO reported on the outcomes, such as a new reporting structure (e.g., a new Triennial report format) for smoother handovers. ATO stressed the need to build local capacity around the world, encourage collaboration to promote HFE, and develop new professionals globally. ATO then outlined further steps for development.</p>
15:20 16. Report and discussion: IEA2024	<b>MHY</b>	<p>MHY reported on the progress of IEA 2024 Congress preparations. Ref. 14</p> <p>MHY reported on the progress with the IEA2024 organization, presenting the registration numbers and discussing the congress program and logistics. MHY expressed his eagerness to share the OC experience with the organizers of the next congress.</p> <p>Discussed:</p> <ul style="list-style-type: none"> <li>• Financial issues vs outreach.</li> <li>• MHY informed that the OC investments in collaboration (ISO and INCOSE HSI) and online participation arrangements did not pay off financially.</li> <li>• Drawbacks of a hybrid conference. Online participation figures were reduced due to time-zones. For example, HFES decided to drop the</li> </ul>

		hybrid option. The benefit is that the congress becomes available to low-income countries. <ul style="list-style-type: none"> <li>• Importance of using social media to reach younger population.</li> <li>• Capitation fee and surplus.</li> <li>• The need to share the lessons learned.</li> </ul>
16:00 17. Planning	<b>MG, JOG</b>	Preparations for Council meeting 2024

18:00 Dinner hosted by ESK

Ref 1. President's Report

Ref 2. VPSG Report

Ref 3. VP/Treasurer's Report

Ref 4. Science, Technology and Practice Committee Report

Ref 5. Professional Standards and Education Committee Report

Ref 6. International Development Committee Report

Ref 7. Communications and Public Relations Committee Report

Ref 8. Development and Promotions Committee Report

Ref 9. Awards Committee Report

Ref 10. Standardization Ad Hoc Committee Report

Ref 11. Future of Work Task Force Report

Ref 12. Information and Communication Technology Committee Report

Ref 13. Strategic Development Ad Hoc Committee Report

Ref 14. IEA 2024 Congress Report

MAR 2024

# IEA President's Report José Orlando Gomes June 2021-August 2024

Using P2DT for EC Projects from  
SDI Committee



# Who are we?

## Mission

Elaborate and advance HF/E.

Expand its scope of application and its contribution.



## Global Federation

# 61

## IEA Family Members

## Goals



Develop close collaborations with member societies.

Advance the science and practice of HF/E globally.

Enhance the contribution of HF/E to global society.

## Our Leadership

IEA Council

Executive Committee - Officers and Committee Chairs

Technical and ad-hoc committees' experts



# 7

## Strategic Policies

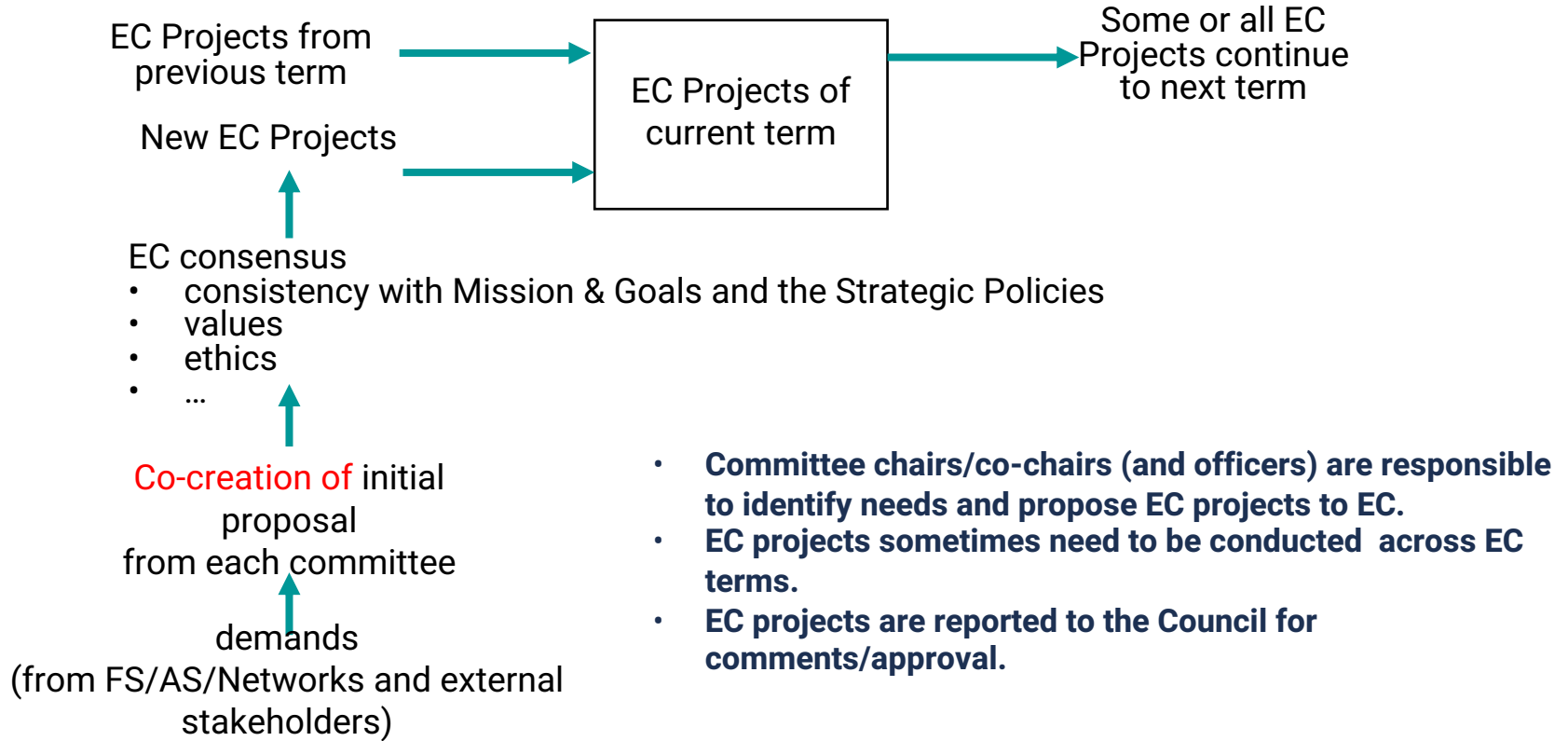


# 7

## Strategic Policies



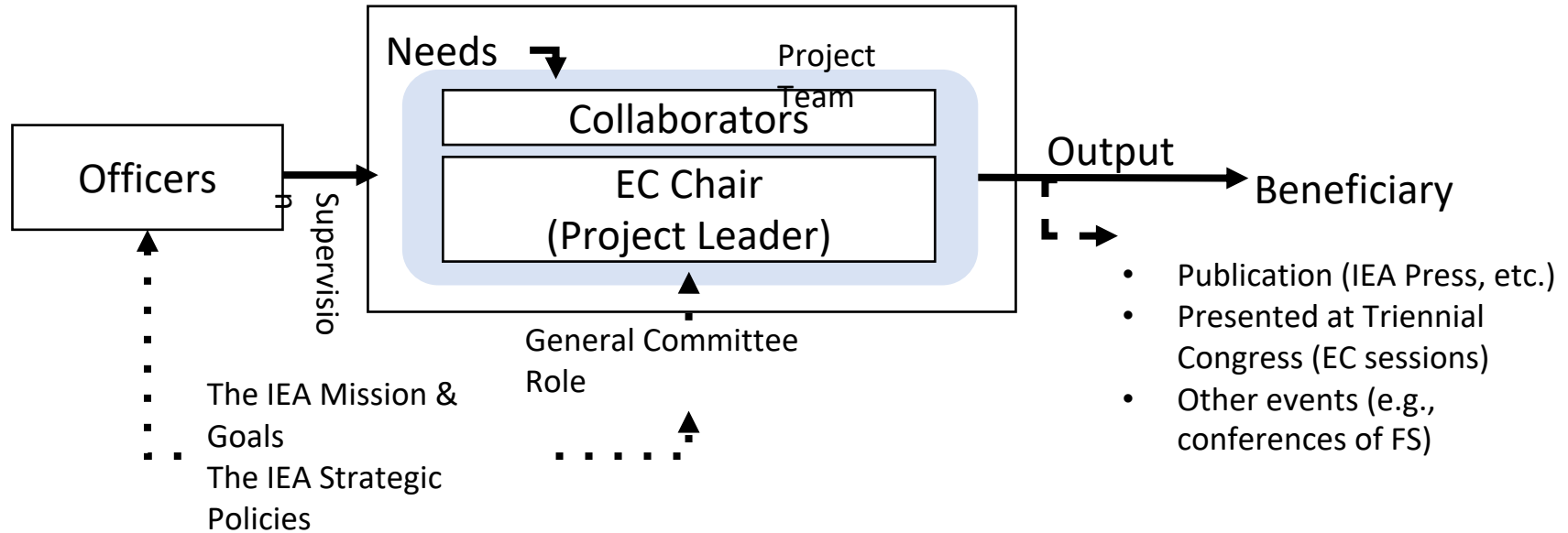
# What are EC Projects ? (1/2)





# What are EC Projects ? (2/2)

- Engagement of various collaborators **to co-create the projects**(i.e., the members of IEA FS/AS/Networks, external stakeholders) is a strong recommendation.
- The outcome of EC projects should be published from the IEA Press or any other media, presented at Triennial Congress (i.e., EC sessions), and other events.



## Example: EC Projects Related to Education (PSE& ID Committees)

Region/Country	Goals	Stakeholders	Status
Latin America/Colombia and 32 other countries	<b>PhD program</b>	Universities (Colombia, South Africa, Canada, France, China, Brazil, Chile, Argentina, USA), FS/Network	Implemented (2022) and following up
Africa,/South Africa, Nigeria, Ghana, Tunisia	<b>Graduate program</b>	Universities (South Africa, France, Brazil, USA), FS/Network	Under planning
Asia/India, China, Japan, Philippines	<b>Graduate program</b>	Universities (China, India, Japan, Philippines), FS/Network	Under planning
Latin America/Argentina	<b>Master program</b>	University (Argentina, France, Brazil), FS/Network	Under planning
Latin America/Panama	<b>Master program</b>	University/FS/Network	Under planning
Latin America/Peru	<b>Master program</b>	University/FS/Network	implemented
Europe/Italy	<b>Master program</b>	University (Italy), FS/Network, CREE	Implemented (2023)
Latin America/Ecuador	<b>Minor program</b>	Universities, FS/Network	Under planning
Africa/Angola		University/Network/Abergo	Under planning
Vietnam		NIOEH/University/Network	Under planning

Activity	2021	2022
<b>Conferences and Meetings (virtual)</b>	Indonesia, Bolivia, Colombia (SURA), Chile, Mexico, Spain, Colombia (PhD Program), Brazil, Uruguay, India, Peru, Ecuador, HFES, Ulaergo, ACED, FEES, BRICSplus, ADEA/Argentina, Tsinghua/Kingfar, and ISSA.	Argentina (UTN), Taiwan, Croatia
<b>Conferences and Meetings (in person)</b>	Argentina	India, Cuba, Colombia
<b>Officers' weekly online meeting</b>	Practically every Tuesday, with participation of the officers, Past President, SDI Chair, and IEA administrator (except year's end break)	Practically every Tuesday, with participation of the officers, Past President, SDI Chair, and IEA administrator (except year's end break)
<b>Online Standing and ad hoc Committee meetings including IEA2024</b>	Monthly (PSE/ID, DP, etc.)	Monthly (PSE/ID , DP, Caribbean HFE, Bolivia, Ecuador, JES/CNAM)
<b>Technical Committees meetings</b>	Assistance	Assistance
<b>Journal: Work, Human Factors, etc.</b>	Assistance	Article review

Activity	2023	2024
Conferences and Meetings (virtual)	JES, Colombia (PhD Program), Ecuador, and ABERGO Webinar. Indonesia, Peru, Croatia, ABERGO Brazil	Ghana, Colombia
Conferences and Meetings (in person)	Argentina, Japan, South Korea, China, France, Colombia (2), Panama, and Mexico. Germany (ISO), Italy, IEA EC/Council, Chile, HFES, Colombia, ACED/BRICS Plus Conference.	China, Indonesia, Vietnam, Japan, South Africa, Panama, Colombia, Cuba, Morocco (ICOH), and Ghana.
Officers weekly online meeting	Practically every Tuesday, with participation of the officers, Past President, SDI Chair, and IEA administrator (except year's end break)	Practically every Tuesday, with participation of the officers, Past President, SDI Chair, and IEA administrator (except year's end break)
Online Standing and ad hoc Committee meetings including IEA2024	Monthly (PSE/ID, DP, Caribbean HFE, Bolivia, Angola, Ecuador, JES/CNAM, Africa Graduate Program, Asian Graduate Program, IEA2024 etc.)	Caribbean HFE, Sub-Saharan Graduate Program, JES/CNAM, Asian Graduate Program, IEA2024
Technical Committees meetings	Assistance	Assistance
Journal: Work, Human Factors, etc.	Article review	Assistance

It is our **challenge** to  
**realize** that **potential**.

**Thank you so  
much for your  
attention!**

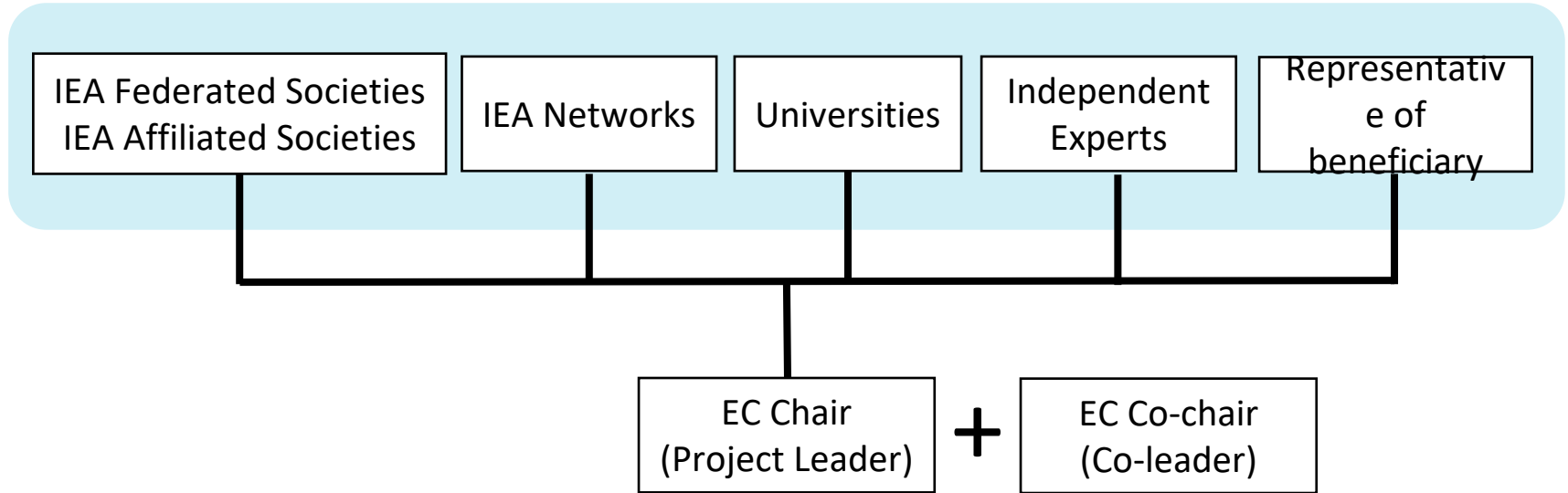


The IEA is the most influential international HF/E organization. It has the potential to make a huge impact on the world through its science and practice.

[www.iea.cc](http://www.iea.cc) 

# How is the project team organized?

collaborators (one or more of these and many others, e.g., institutes)



The project team can be a task force, working group, or committee within or outside of EC.

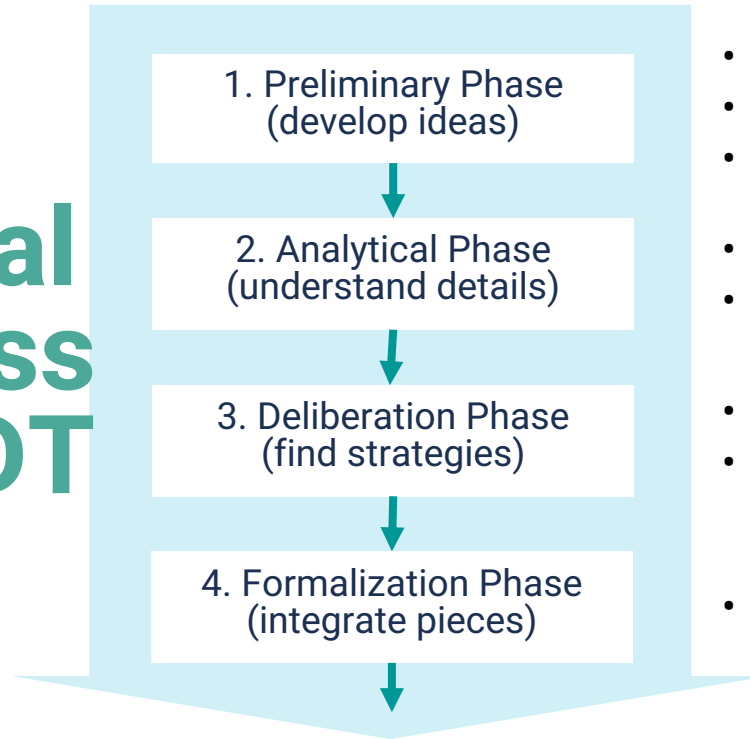
# How is the EC Project funded ?

- EC projects can be funded. It is not allowed to pursue profit from the EC project, but expenses can be covered by beneficiaries or by EC. (Comment: In the long run EC projects should become self-sustainable.)
- Collaborators may pursue profit.
- See principles shown below.

## Principles:

1. **IEA is not allowed to pursue profit because of its legal status.**
2. **Some collaborators may pursue profit through direct contracts with beneficiaries. IEA cannot be involved in such contracts.**
3. **EC may fund EC projects based on the "Guidelines on Expenses."**
4. **IEA Promotes cost sharing for projects (i.e. IEA should not be the sole financial investor in a project)**

# General Process of P2DT

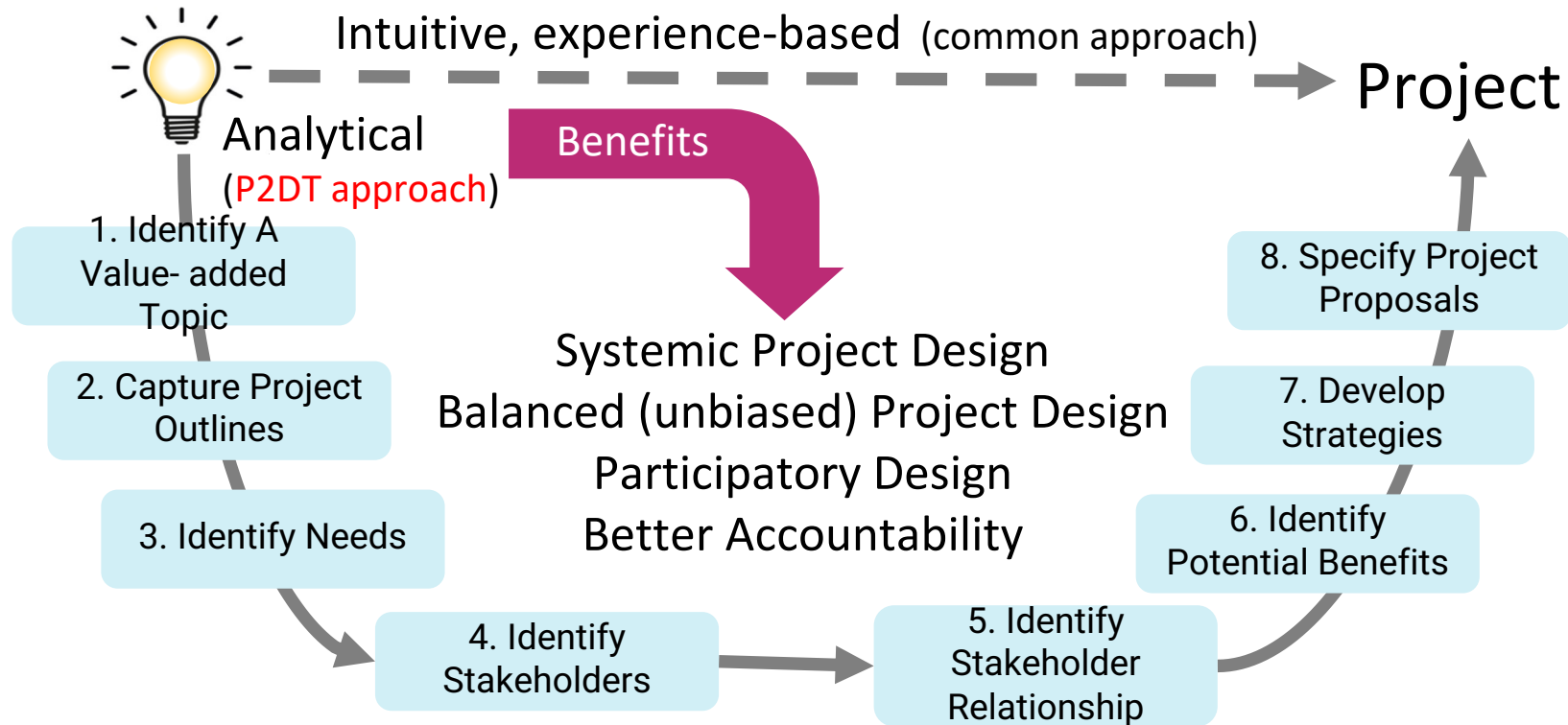


- Step 1. Identify a value-added topic
- Step 2. Capture project outlines
- Step 3. Identify needs
- Step 4. Identify stakeholders
- Step 5. Identify stakeholder relationship
- Step 6. Identify potential benefits
- Step 7. Develop strategies
- Step 8. Specify project proposals

EC consensus >> Formal proposal >> Implementation



# Why is the P2DT recommended ?



# EC Project/Committee...

Region/Country	Goals	Stakeholders	Status

# **TIMELINE CREATING A PhD PROGRAM ON HFE FOR LATIN AMERICA.**



Exploring the Development of Higher Education in  
Human Factors and Ergonomics

2012

## IEA expresses the need to create a PhD Program in HFE for Latin America

In Colombia in June 2012, a meeting held at the Universidad Javeriana was attended by professors from several universities in Colombia, including Universidad Javeriana professor Leonardo Quintana, Universidad del Rosario Professor Juan Castillo, Universidad Nacional de Colombia professor Jairo Luna, Universidad del Valle professor Juan Carlos Velasquez, Escuela Colombiana de Rehabilitación professor Nelsy Arévalo, representatives of the Colombian Ergonomics Society, Martha Saravia, Representatives of Ulaergo Paulina Hernandez and José Orlando Gomes (Ulaergo President and IEA/PSE Chair). There was debate about the need for the training of high-level researchers for Latin America and the Caribbean.

## IEA. First approach for the creation of the Latin American doctorate in Cuba.

In Havana in November 2012, with the occasion of the 16th scientific convention on engineering and architecture, the first steps towards the creation of the doctorate began, with the participation of professors Silvio Juan Viña Brito, Sonia Freitas, Rector Alicia Alonso, from CUJAE, professor Joaquín García Dihigo, from University of Matanzas, José Orlando Gomes (Ulaergo's President and IEA/PSE/Chair) and Juan Carlos Velasquez, CUJAE PhD Student and Universidad del Valle's professor.



**2013**

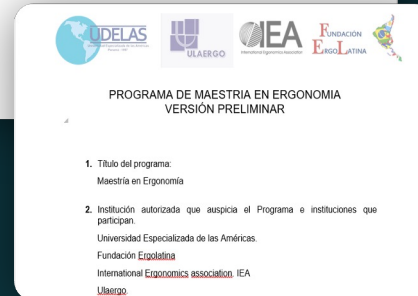
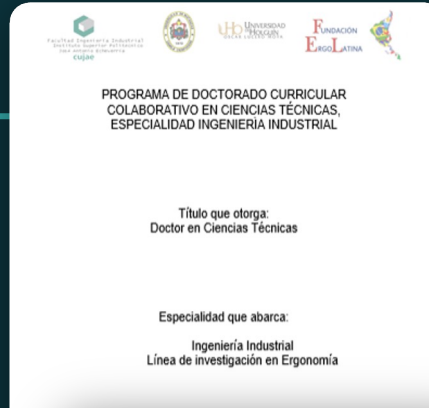
**The first meeting takes place between Prof. José Orlando Gomes (IEA/PSE Chair) and Prof. Juan Carlos Velasquez for the creation of a Latin American PhD Program based in Cuban Universities in collaboration with international Profs from North America, Latin America, and Europe.**



2014 -2015

## First proposal for a Latin American Doctorate.

Fruit of several working meetings led by professors José Orlando Gomes (IEA/PSE Chair), Juan Carlos Velásquez Candidate for doctor in technical sciences/HFE at the CUJAE, professor at the Universidad del Valle and Silvio Juan Viña de la CUJAE, the first doctorate proposal is drawn up, which was presented to the authorities of the universities of the Republic of Cuba in 2015.



However, this proposal does not prosper and in its defect arises the idea of creating Masters in Ergonomics in a geographically strategic area. Conversations begin with the Universidad de las Americas in Panama (UDELAS), with the participation of Profs Oscar Sitón, Belkis Yaneth Aguirre Méndez on the part of UDELAS, Porf. José Orlando Gomes on the part of the IEA, Andrew Todd as chair of International Development Standing Committee of the IEA, Juan Carlos Velasquez Universidad del Valle, Colombia, and Prof. Paulo Antonio Oliveira from the Federal University of Rio Grande do Sul, Brazil.

Several meetings are held in Panama City and under the responsibility of Profs. José Orlando Gomes, Paulo Antonio Barros and Juan Carlos Velasquez, the Ergonomics Master that would work in Panama City is designed. In the year 2016, the Masters in Ergonomics was presented and approved by the authorities of the Universidad de las Américas (UDELAS).

2014 -2015

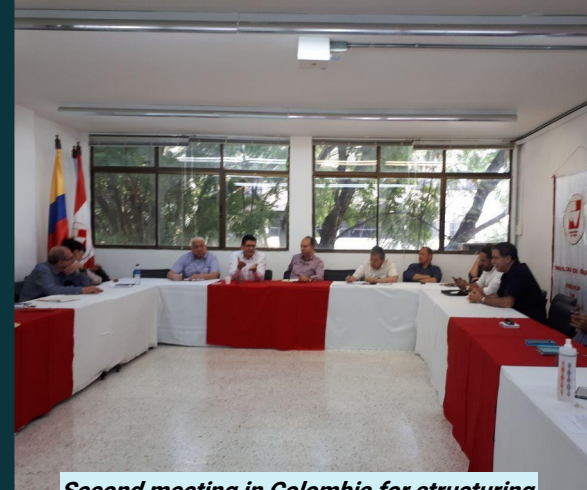
## Programa aprobado de la Maestría en Ergonomía UDELAS, Panamá

Fruit of several working meetings led by professors José Orlando Gomes (IEA/PSE Chair), Juan Carlos Velásquez Candidate for doctor in technical sciences/HFE at the CUJAE, professor at the Universidad del Valle and Silvio Juan Viña de la CUJAE, the first doctorate proposal is drawn up, which was presented to the authorities of the universities of the Republic of Cuba in 2015.

Considering that the Peace Agreement was signed in Colombia in 2016 and given the geostrategic conditions offered by the country, Prof. José Orlando Gomes, IEA, the possibility of starting management with different universities with the aim of achieving the Latin American Doctorate in Ergonomics.

**He is assigned to Prof. Juan Carlos Velasquez, who has participated in the process of dialoguing with universities for this purpose.**

In August 2016, Prof. Velasquez organized and held the first meeting in the city of Cali, at the Universidad del Valle, where several universities were invited and they shared the idea of creating a doctorate in ergonomics online. Participating on the part of the Universidad del Valle are Prof. Juan Carlos Velasquez and Prof. Fernando Arteaga, at the Universidad Javeriana and Prof. Leonardo Quintana, Universidad del Rosario and Prof. Leonardo Briceño, at the Universidad Autónoma de Occidente Prof. Ricardo Montero, Representative of the ILO Javier Parga, Prof. María Fernanda Maradey Universidad Industrial de Santander, Representative of the Central Unitary of Workers (CUT) Edilberto Grajales. From there it was decided to promote the process of creating a Latin American PhD Program in HFE.



**Second meeting in Colombia for structuring the Latin American PhD Program in HFE**

A1			
Código	UE/UA	HORAS	CRED
	Trabajo, Salud y Desarrollo: Introducción a la ergonomía	45	3
	El ambiente físico en el trabajo: Elementos de fisiología humana	45	3
	El ambiente físico en el trabajo: herramientas y métodos	45	3
	Introducción a la ergonomía cognitiva	45	3
	Análisis de la actividad: Modelos, métodos y técnicas 1	45	3
	Análisis de la actividad: Modelos, métodos y técnicas 2	45	3
	Análisis del trabajo	60	4
	Metodología de la investigación.	45	3
	Aplicación práctica de la ergonomía a la solución de problemas	120	8
	TOTAL	495	33



A2 Profesionalización			
Código	UE/UA	HORAS	CRED
	Cognición y desarrollo de las organizaciones y sistemas	45	3
	Ergonomía y gestión de proyectos	45	3
	Ergonomía ambiental	60	4
	Ergonomía y sociedad: Desarrollo y perspectivas	30	2
	Ergonomía y diseño: Herramientas y métodos	45	3
	Macroergonomía: Sistemas complejos.	45	3
	Intervención ergonómica	120	8
	Tesis	120	8
	TOTAL	510	34

**2017-2018**

## **Led by Prof. Juan Carlos Velasquez the forum: Ergonomics and Health in work in Latin America: its development in the Andean Community of Nations and Brazil, is held.**

With the participation of Dr. Carlos Osorio Torres, Universidad del Valle, Dr. Leonardo Briceño Ayala, Universidad del Rosario and Prof. José Orlando Gomes for the IEA. Activity that takes place on November 29, 2017. In this forum, the need for training of high-level researchers in Ergonomics is concluded and the creation of a Latin American doctorate in Ergonomics is proposed again.

In the month of January 2018, a proposal was made by professors Carlos Osorio and Juan Carlos Velasquez from the Public Health School, of the College of the Universidad del Valle, with the advice of IEA President, Yushi Fujita and the vice-president, Prof. José Orlando Gomes, to promote the creation of the Latin American PhD Program in HFE at the Universidad del Valle, in the city of Cali.

On February 28, Prof. Juan Carlos Velasquez led the organization at the Universidad del Valle and the Forum for public health "Ergonomics in a global world, goals and perspectives", with the following speakers and topics:

**Present and future of Ergonomics in the global context by Dr. Yushi Fujita, President of the International Ergonomics Association (IEA)**

**Ergonomics in Latin America, investigation and new goals for its development by Dr. José Orlando Gomes Vice-President (IEA)**

**Needs and future of Ergonomics research in Colombia by Dr. Leonardo Quintana. Colombian Association of Researchers in Ergonomics (CARE)**

**Moderator: Prof. Carlos Osorio, Universidad del Valle.**



# LA ERGONOMÍA EN UN MUNDO GLOBAL, RETOS Y PERSPECTIVAS

**FEBRERO  
28 DEL 2018**

AUDITORIO IVES CHATEIN

HORA: 2:00PM - 5:00PM

DURACIÓN: 4 HORAS

FACULTAD DE SALUD  
ESCUELA DE SALUD PÚBLICA  
EXTENSIÓN Y PROYECCIÓN SOCIAL  
Cali - Colombia



Universidad  
del Valle

## CONFERENCISTAS

**DR. YUSHI FUJITA,**  
Presidente de la International Ergonomics  
Association IEA

Ergonomía y Globalización. La Asociación  
Internacional de Ergonomía IEA. Presente y  
futuro de la Ergonomía en el contexto mundial.

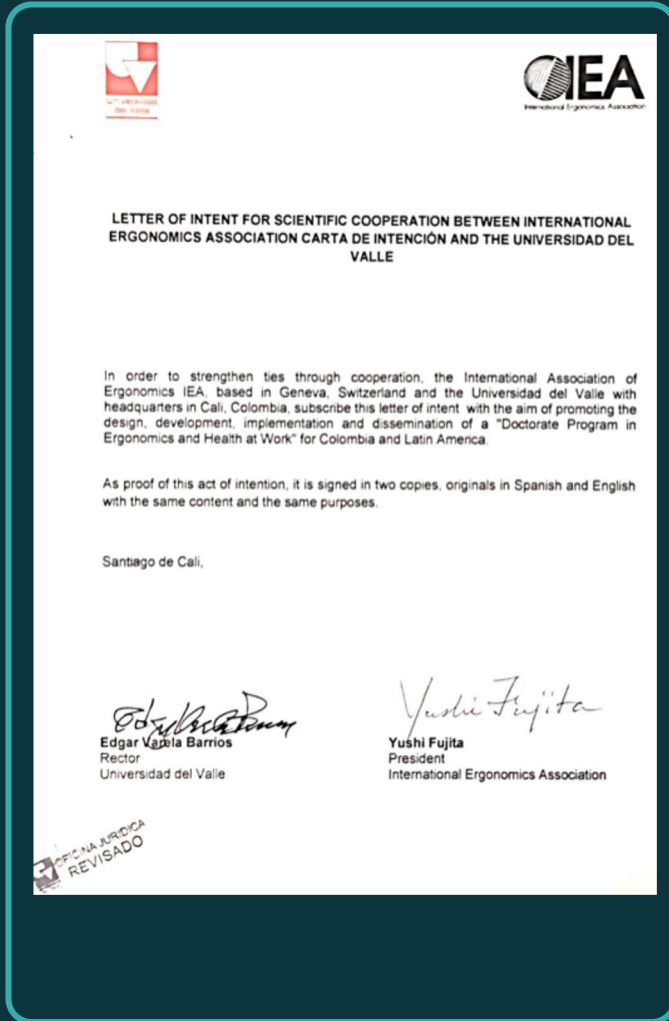
**DR. JOSE ORLANDO GOMES,**  
Vicepresidente de la International  
Ergonomics Association IEA

Ergonomía en América Latina. Investigación y  
nuevos retos para su desarrollo.

# 2018



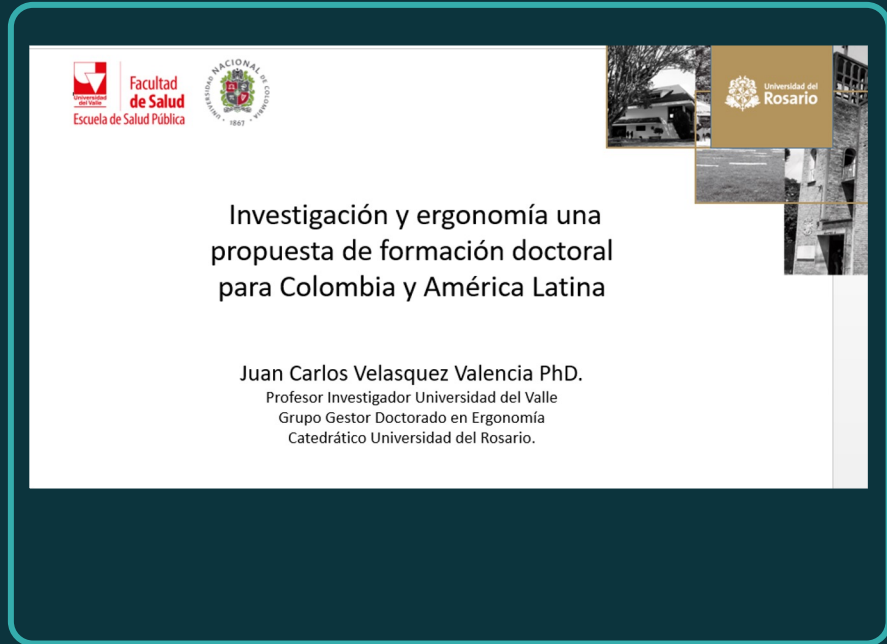
Due to this event and in view of the presence of Profs. Yushi Fujita and José Orlando Gomes from the IEA, a letter of intent is signed by the rector of the Universidad del Valle Edgar Varela Barrios and the President of the International Association of Ergonomics, Yushi Fujita, the letter of intent for cooperation between institutions for the creation of a PhD Program in HFE for Colombia and Latin America.



This same year, the committee for the creation of the PhD Program in HFE was created at the Public Health School of the College of Health of the Universidad del Valle, integrated by Profs. Carlos Osorio, and Juan Carlos Velasquez from the College of Health and Carlos Osorio from the Faculty of Engineering, Carlos Mejía from the College of Social Sciences and Luis Carlos Granja.

At the International Congress of the IEA2018, held in the city of Florence Italy, in a meeting with the elected president Kathleen Mosier, the Past President Yushi Fujita, the Vice-president Treasurer José Orlando Gomes, the President of the Colombian Ergonomics Association, The President of CARE, and Prof. Juan Carlos Velasquez proposes the meeting of the executive committee of the IEA in Colombia.

It is organized and led by the Universidad del Rosario, Prof. Leonardo Briceño and the Universidad del Valle, Prof. Juan Carlos Velasquez, the presentation of the proposal of the PhD Program in HFE for Colombia and Latin America.



With the participation of professors from the Universidad Nacional de Colombia, Industrial Design program, Universidad Javeriana Industrial Design and Industrial Engineering program, Universidad Industrial de Santander(UIS) Industrial Engineering program, Universidad de Antioquia, Escuela Colombiana de Rehabilitación and professors Yushi Fujita and José Orlando Gomes from the IEA.

In the month of August in an activity organized by the Ministry of Labor of Colombia and the Universidad del Valle with the participation of the Minister of Labor, Griselda Janeth Restrepo, the President of the IEA Yushi Fujita and Vice-President of the IEA José Orlando Gomes and Prof. Juan Carlos Velasquez from the Universidad del Valle. Where the Ministry of Labor presents the PhD Program in HFE for Latin America and supports the management carried out by the IEA and the Universidad del Valle.



Fecha de publicación: 2018-07-23

- El anuncio lo hizo la ministra de Trabajo, Griselda Janeth Restrepo, y el presidente de la Asociación Internacional de Ergonomía (IEA) Yushi Fujita, en un evento conmemorativo del Día Nacional de la Seguridad y Salud en el Trabajo en Cali
- La Universidad del Valle sería la primera institución en Colombia América Latina, en comenzar los estudios de doctorado en esta disciplina

Universidades públicas en Colombia contarían con estudios superiores en Ergonomía



2019

**Prof. Juan Carlos Velasquez leads the financing process for the event (meeting of the IEA board of directors) with ARL SURA, which assumes the costs of accommodation and food, which takes place in the city of Cali Colombia, as support for the development of the doctorate.**

Event that takes place in the month of March, in turn there are meetings organized by the Colombian Ergonomics Society and the Universidad Javeriana in Bogotá, and simultaneous events organized by ARL SURA in the cities of Medellín, Cali and Barranquilla.

Additionally, the Colloquium "**Research and Training in Ergonomics and Health of Workers. A challenge for Colombia and Latin America**" is organized at the Universidad del Valle on March 28, led by Prof. Juan Carlos Velasquez, with the following agenda:

**The vision of IEA for the Training of Researchers in Human actors/Ergonomics and Workers' Health, Prof. Kathleen Mosier, IEA President.**

**Challenges and Advances in the Construction of the PhD Program in HFE and Health of Workers, Prof. Juan Carlos Velasquez**

2019



## **Interviews are carried out with the president of the IEA Kathleen Mosier and the vice-president and treasurer of the IEA José Orlando Gomes, highlighting the importance of creating a doctorate in Ergonomics**

A meeting is held with the Authorities of the Universidad del Valle and representatives of the IEA executive committee, where the purpose and interest in the creation of the doctorate in ergonomics are ratified.

In the month of April, the proposal to create a doctorate at the Human Rehabilitation School with lecturers Lessby Gómez and Aida Josefina Rojas and the lecturer at the Public Health School Carlos Andrés Fandiño comes together.

In a sustained meeting with the president of the Colombian Ergonomics Association Martha Saravia, professor Gabriel García and professor Juan Carlos Velasquez, they propose the active participation of the National University of Colombia in the creation of a joint doctorate.



2020

On October 28, led by professor Juan Carlos Velasquez, the Forum for Public Health *"The burden of labor illness in Colombia and its diagnosis, a challenge, contributions from Ergonomics"* takes place.

## Participants

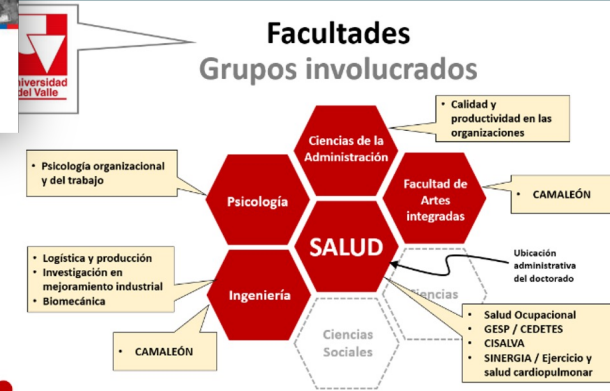
Álvaro Javier Hidrovo Velandia, PhD., doctor and doctor in Epidemiology and professor at the Industrial University of Santander (UIS), and Leonardo Briceño Ayala, PhD., physician, doctor in Political Sciences, director of the Department of Public Health and Management and Specialization in Safety and Health of Workers at the University of Rosario.



2020

The doctorate creation committee includes professors from the Universidad del Valle, Erico Rentería and Fátima Díaz from the Faculty of Psychology, Cristian Chamorro Dean from the Faculty of Integrated Arts and Martha Lucía Quintero from the Faculty of Engineering.

Formulation of academic and administrative structure as a pilot for curricular innovation. The document Master of the doctorate program is written and the approval process begins inside the Universidad del Valle. An innovative proposal from the doctorate, built online and interdisciplinary with the participation of faculties and research groups from Univalle and National University.





2021



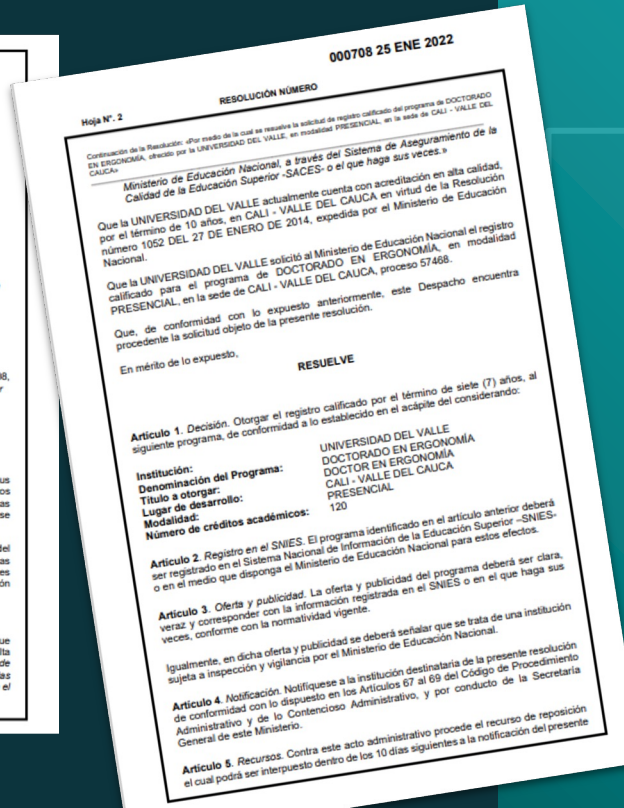
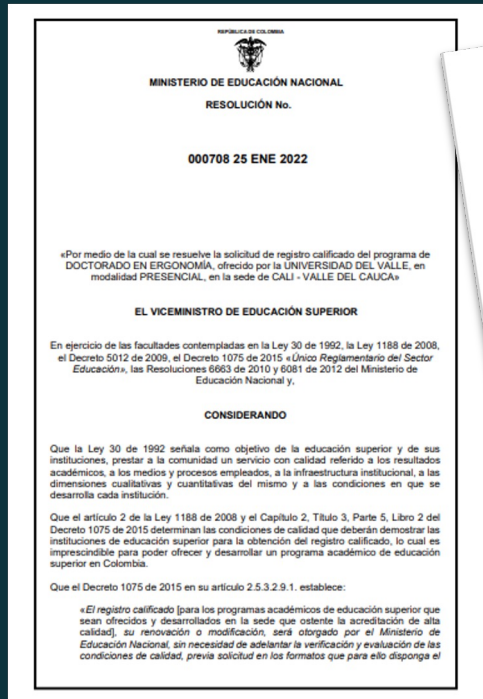
**Contrahegemonía, Salud Pública y Ergonomía.**

As guests were José Orlando Gomes, Yushi Fujita, Andrew Todd, Hakim Bencheikroun, Karen Lange Morales, Gabriel García Acosta, Guillermo Castaño Arcila, Juan Carlos Velasquez and Kathleen Mosier.

**Moderator:** Prof. Carlos Andrés Fandiño, UniValle.

2022

## The Doctorate in Ergonomics is approved by the Ministry of National Education.



Professor Juan Carlos Velasquez Valencia proposes and leads the **Forum for Public Health "Ergonomics and Human Factors EFH, Public Health and Contrahegemony"**, held in November 2021

In this space, there was a debate on the development of Ergonomics in a globalized context and the response from the perspective of epistemologies from the south.

As guests were José Orlando Gomes, Yushi Fujita, Andrew Todd, Hakim Benchechroun, Karen Lange Morales, Gabriel García Acosta, Guillermo Castaño Arcila, Juan Carlos Velasquez and Kathleen Mosier.

**Moderator:** Prof. Carlos Andrés Fandiño, UniValle.

2022

He was appointed director of the Doctorate Program by professor Juan Carlos Velasquez Valencia.

**In May of the same year, registrations for the doctorate opened. 22 aspirants from 8 Latin American countries signed up.**

The Chair in Ergonomics was designed and proposed by professors Juan Carlos Velasquez and José Orlando Gomes. **The first doctorate cohort begins in August 2022 with 15 students from the following countries: Chile, Uruguay, Peru, Ecuador, Colombia and Mexico**

The first foundational chair is presented with the participation of the past presidents of the IEA. Eric Wang, Yushi Fujita, Kathleen Mosier, the president of the IEA José Orlando Gomes, the president of ULAERGO, Carlos Espejo, the President of the Colombian Society of Ergonomics Martha Saravia, the Dean of the Faculty of Health of the Universidad del Valle Jesús Alberto Hernandez and Director of the Doctorate Program in Ergonomics Juan Carlos Velasquez

**The first milestone is being held by Engineer Indira Ordoñez, in connection with the first international agreement signed with the Instituto Superior Politécnico José Antonio Echeverría de Cuba CUJAE, based on the purpose of the construction of the doctorate in conjunction with Latin American universities.**

**2022**

The following chairs in ergonomics with free access are presented as a contribution from doctorates to the training and promotion of ergonomics in Latin America.

**Ergonomics and human factors present, past and future, its development in a global world, the experience of AL and Colombia**

**The ergonomic approach from activity análisis**

**Ergonomics, human factors and innovation: a necessary alliance.**

**Ergonomics, human factors, and sustainability**

**Ergonomías, Human Factors and Health Workers.**

**Perspectives for ergonomics and human factors in informal work.**

# 2022

**Facultad de Salud**  
Doctorado en Ergonomía  
Universidad del Valle

**Cátedra de Ergonomía**  
Ergonomía desde la visión sistémica y el análisis de la actividad en el sector informal en el sur global: El caso de Sud África

Fecha: 23 de Septiembre de 2022.  
Hora: 7:00 - 9:00 a.m.  
Enlace: <https://bit.ly/3xpf1cf>

**Conferencistas:**

  
Professor Andrew Todd,  
Universidad de Rhodes, Sudáfrica.

Más información: [doctorado.ergonomia@correounivalle.edu.co](mailto:doctorado.ergonomia@correounivalle.edu.co)

**Facultad de Salud**  
Doctorado en Ergonomía  
Universidad del Valle

**Cátedra de Ergonomía**  
Ergonomía y Sostenibilidad

Fecha: 24 de agosto de 2022.  
Hora: 8:00 a.m. a 10:00 a.m.

**Conferencistas:**

1. **Andrew Thatcher** - University of the Witwatersrand, Johannesburg (Sudáfrica)
2. **Gabriel García** - Universidad Nacional de Colombia (Colombia)
3. **Karen Lange** - Universidad Nacional de Colombia (Colombia)
4. **Cristian David Chamorro** - Universidad del Valle (Colombia)

**Enlace Zoom con servicio de traducción simultánea:**  
<https://bit.ly/3d4vGnf>

**Tutorial para utilizar el servicio de traducción simultánea:**  
<https://bit.ly/3s307bm>

Más información: [doctorado.ergonomia@correounivalle.edu.co](mailto:doctorado.ergonomia@correounivalle.edu.co)

**Facultad de Salud**  
Doctorado en Ergonomía  
Universidad del Valle

**El enfoque ergonómico desde el análisis de la actividad**

**Conferencias:**

1. **Principios de la construcción social de la acción ergonómica y análisis de la actividad: ejemplos.**  
Tatiana Hailin Beneshewen - CIMA (Francia),  
Consejería Nacional de Artes y Oficios, Doctor en Ergonomía y Confabilidad Organizacional.
2. **Teoría y análisis de la Actividad una mirada histórica y su aproximación en América Latina.**  
Mario Cesar Vidal - Universidad Federal do Rio de Janeiro (Brasil) (ABERGEO).
3. **Análisis de la actividad desde la mirada de terapia ocupacional. Análisis de caso.**  
Katherine Volveris Pimiento - Terapeuta Ocupacional,  
Esp. En Gerencia de la Seguridad y Salud en el Trabajo.

Fecha: martes, 31 de mayo.  
Hora: 8:00 a.m. a 10:00 a.m.  
Enlace: <https://bit.ly/3wK67yQ>

Más información: [doctorado.ergonomia@correounivalle.edu.co](mailto:doctorado.ergonomia@correounivalle.edu.co)

**Facultad de Salud**  
Doctorado en Ergonomía  
Universidad del Valle

**Cátedra de Ergonomía**  
Ergonomía y Género

Fecha: 24 de marzo 2023.  
Hora: 7:00 a.m. - 9:00 a.m.  
Enlace: <https://bit.ly/3yKw2C>

**Conferencistas:**

  
Professora Karen Messing,  
• Profesora emérita de la Universidad de Quebec,  
Montreal, Canadá.  
• Coordinadora del Center for Interdisciplinary Research  
in Biology, Health, Society and the Environment  
(CHBSO) en la Universidad de Quebec.  
• Laureada con el premio Jacques Rossignol de las  
Ciencias en Canadá.

Más información: [doctorado.ergonomia@correounivalle.edu.co](mailto:doctorado.ergonomia@correounivalle.edu.co)

**Facultad de Salud**  
Doctorado en Ergonomía  
Universidad del Valle

**Cátedra de Ergonomía**  
International Diversity And Ergonomics

Enfoques y abordajes de la ergonomía en relación con la diversidad étnica, cultural, de género y de los fenómenos migratorios en los Estados Unidos.

Fecha: 24 de febrero de 2023.  
Hora: 7:00 a.m. - 8:30 a.m.  
Enlace: <https://bit.ly/3p5Skz>

**Conferencistas:**

  
Professor Christopher Reid,  
• Senior Technical Fellow - Human Factors & Ergonomics,  
• Immediate Past President - Human Factors & Ergonomics Society, Adjunct Professor of Practice, Massachusetts Institute of Technology.

Más información: [doctorado.ergonomia@correounivalle.edu.co](mailto:doctorado.ergonomia@correounivalle.edu.co)

2023

# Chairs in HFE



 **Facultad de Salud**  
Doctorado en Ergonomía

**Cátedra de Ergonomía:**  
**Ergonomía en el campo de la innovación - Ergonomía verde.**

**Fecha:** viernes, 29 de septiembre de 2023.  
**Hora:** 7:00 a.m. a 10:00 a.m.  
**Enlace Zoom:** <https://bit.ly/46dRZnu>

**Conferencistas:**

**Karen Lange** - (Bogotá): Ergonomía Organizacional - Universidad Nacional de Colombia.

**Andrew Thatcher** - (Sudáfrica): Psicología Industrial/Organizacional - Universidad de Witwatersrand, Johannesburgo.

**Cristian Chamorro Rodríguez** - (Cali): Decano de la Facultad de Artes Integradas de la Universidad del Valle.

**Más información:** [doctorado.ergonomia@correounivalle.edu.co](mailto:doctorado.ergonomia@correounivalle.edu.co)



 **Facultad de Salud**  
Doctorado en Ergonomía

**Cátedra de Ergonomía:**  
**El análisis de la actividad para la comprensión y la transformación del trabajo en ergonomía.**

**Fecha:** viernes, 27 de octubre de 2023.  
**Hora:** 7:00 a.m. a 10:00 a.m.  
**Enlace Zoom:** <https://bit.ly/493qU1D>

**Conferencistas:**

**Pamela Beatriz Astudillo Cornejo** - (Chile): Académica e investigadora en materia de Ergonomía y Salud en el Trabajo de la Universidad de Atacama Chile.

**Carlos Ibarra Villanueva** - (Chile): Académico e investigador en el Programa de Ergonomía del Departamento de Kinesiología de la Facultad de Ciencias de la Salud de la Universidad de Atacama Chile.

**Más información:** [doctorado.ergonomia@correounivalle.edu.co](mailto:doctorado.ergonomia@correounivalle.edu.co)



2023

## International Ergonomics Meeting

Under the leadership of Prof. Juan Carlos Velasquez Valencia, the Occupational Health Research Group of the Public Health School of the Universidad del Valle and the students of the first cohort of the Latin American Doctorate of Ergonomics organized and developed the International Ergonomics Meeting in the month of June 2023.

More than 20 universities and institutions at national and international level participated in the event, with an audience of 600 people.

**25<sup>th</sup> SIMPOSIO de Investigaciones En Salud**

**Encuentro Científico Académico Internacional de Ergonomía**

**6 JUNIO**  
Cali, Colombia  
Banco de la República

**7 JUNIO**  
Tuluá, Colombia  
UCEVA

**ORGANIZAN**  
Doctorado Ergonomía Universidad del Valle.  
Doctorado en Salud Universidad del Valle.  
Unidad Central del Valle UCEVA.

**PARTICIPAN**

Logos of participating institutions: AEA, ULAERGO, SCE, RACE, Gesasp, UCEVA, Rosario, UFRJ, PUC GOIÁS, RUELAC, SEK, UFRJ, PUC GOIÁS, Universidad de Concepción, Universidad de Atacama, Universidad de Guadalajara, USAT, UTN.

QR code

(602) 321 21 00 EXT 4070 / 602 518 56 70  
doctorado.ergonomia@correounivalle.edu.co  
juan.carlos.velasquez@correounivalle.edu.co  
salud.univalle.edu.co

2023

During the second semester of 2023, the second cohort of the doctorate in Ergonomics begins with the participation of **11 students from the following countries:** Argentina | Angola | Ecuador and Colombia. An international student, from Federal University of Goias, Brazil, was received at the PhD Program in Cali for internship.





2023

**Currently in the doctorate program, professors in addition to those previously mentioned are participating from the Universidad del Valle and National University of Colombia:**

Conservatoire des Artes & Métiers (CNAM)/Paris, Tahar Hakim Benchekroun, San Francisco University, Kathleen Mosier, Federal University of Rio de Janeiro, José Orlando Gomes and Mario Cesar Vidal, Federal University of Rio Grande Do Sul, Paulo Antonio Barros, Federal University of Sao Carlos, Vivian Mininel, University of Quebec/Montreal, Canada, Karen Messing, Denys Denis, Nicole Vézina and Élise Ledoux; Universidad Autónoma de Cd. Juárez, Aide Aracely Maldonado, Universidad de Guadalajara, Carlos Aceves, Universidad de Perito Moreno, Julio Cesar Neffa, University of Loughborough Cecilia Landa Ávila, Universidad Central del Ecuador, Oscar Betancourt, Universidad de Concepción, Fabiola Maureira, Elias Apud, Felipe Meyer, Rhodes University, Andrew Todd, Witwatersrand University, Andrew Thatcher, and Tsinghua University, Wei Zhang.



# Vice President Secretary General Report

**Maggie Graf**

Triennial Term 2021-2024



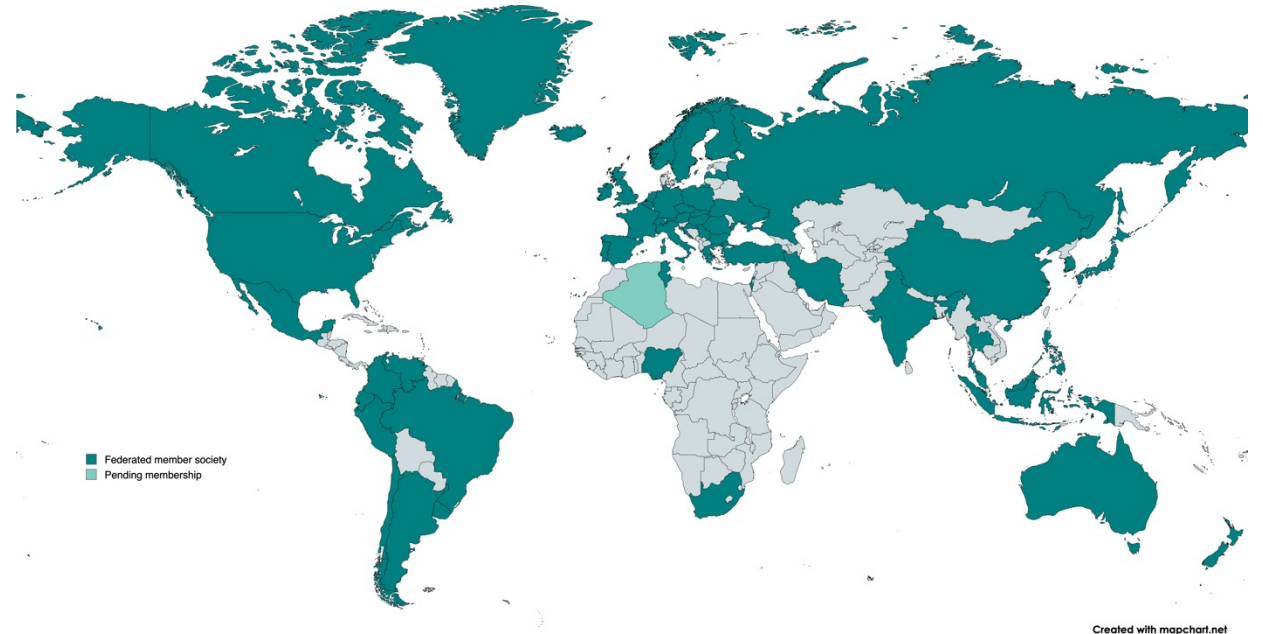
# Contents

- New format of Triennial Report
- Membership
- Structure of Executive
- Corporate image
- Webinars

## IEA Membership

## Four categories of membership:

- Federated Societies, currently 55 (-3)
- Affiliated Societies, currently 2
- IEA Networks, currently 6
- Sustaining Members



Several Federated Societies represent more than one country

## *Structure of IEA Executive Committee*

- 3 elected Officers - President, Vice President Secretary General and Vice President Treasurer
- 6 Standing Committees

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- 4 Ad hoc committees

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- Chair next IEA Congress

# IEA Corporate Image

Logo  
Font  
Colours  
Templates

## COLOR PALETTE Brand Colors

Having human factors/ergonomics principles at the core of the project, we conducted an analysis comparing how people with and without common forms of color blindness perceive colors. This step was crucial to ensure that the color code we created is eye-catching and functional. To achieve this, we aimed to create an inclusive color palette, ensuring that people with color blindness can easily read IEA's printed and digital publications on various platforms, under the same conditions as those without this condition.

To achieve this, we chose to use a complementary color palette. This combination creates high contrast and visual hierarchy, benefiting also individuals with reduced vision. This resulted in a palette where turquoise tones symbolize the globe. The coexistence of cool and warm tones represents the harmony of opposites under equal conditions. Introducing an orange tone reflects the human factor, promoting empathy and vitality within the palette without compromising our initial principles.

IEA BLACK	PANTONE Process Black C	CMYK C 91 M 79 Y 82 K 97	RGB R 0 G 0 B 0	HSB H 176° S 100% B 0%	HEX / HTML #000000
IEA DARK TURQUOISE	PANTONE P 128-6 C	CMYK C 80 M 18 Y 43 K 3	RGB R 0 G 151 B 151	HSB H 179° S 100% B 59%	HEX / HTML #009797
IEA LIGHT TURQUOISE	PANTONE P 118-3 C	CMYK C 39 M 0 Y 0 K 0	RGB R 162 G 223 B 237	HSB H 190° S 31% B 92%	HEX / HTML #A2DFED
IEA YELLOW	PANTONE P 10-15 C	CMYK C 7 M 29 Y 92 K 1	RGB R 237 G 184 B 29	HSB H 43° S 87% B 92%	HEX / HTML #EDB81D
IEA ORANGE	PANTONE P 27-8 C	CMYK C 4 M 61 Y 100 K 0	RGB R 231 G 122 B 0	HSB H 31° S 100% B 90%	HEX / HTML #E77A00

## Revision of By-laws and Operating Procedures

## *Webinars*

More than 40 to date

YouTube

Survey of participants

Certificates



# Treasurer's Report(-s)

- 2023 Financial Report
- 2023 Auditors' Report
- 2024 Interim Report

***VP Treasurer***

Thomas Alexander

# 2023 Assets and Liabilities

IEA's equity increased by **USD 5,487**

- from **USD 413,860** on Dec 31, 2022,
  - to **USD 419,347** on Dec 31, 2023,
- because of a
- successful recruitment and increased involvement of new and existing members
  - benefits from UBS fixed-term investments

Balance Sheet: January 1 – December 31, 2023			
Assets		Liabilities	
Accounts	\$ 122,869	Dues Advanced Received	\$ 574
Investment	\$ 350,000	Accounts Payable (incl. accrued expenses)	\$ 9,570
Prepaid Expenses	\$ 0	Earmarked Funds	\$ 43,377
Seed Money Receivable	\$ 0	Total Liabilities	\$ 53,521
		Equity	
		Total Equity	\$ 419,347
TOTAL	\$ 472,869	TOTAL	\$ 472,868

# 2023 Revenues and Expenditures

2023 P&L Statement to December 31			
Revenues		Expenditures	
FS & AS Membership Dues	\$ 41,344	Meeting	\$ 16,518
Sustaining Member Contributions	\$ 63,156	Representation & Outreach	\$ 9,609
Capitation Fees	\$ 0	Office	\$ 24,252
Exchange rate gains	\$ 405	Awards Committee	\$ 31,835
Interest	\$ 0	ID Committee	\$ 5,594
Miscellaneous	\$ 12,418	PSE/Grants	\$ 0
		STP Committee	\$ 1,592
		CPR Committee	\$ 1,855
		Future of Work Com.	\$ 3,060
		DP Committee	\$ 5,486
		IEA Congress Com.	\$ 539
		Bank Fees	\$ 2,812
		Exchange Rate Losses	\$ 0
		Website (Dev, Maint.)	\$ 5,500
		Miscellaneous	\$ 1,184
Total Revenues	\$ 115,323	Total Expenditures	\$ 109,836
Summary of operations			\$ 5,487

\$ 26,127

\$ 18,126

# General Remarks and Forecast

The financial situation of IEA in 2023 is considered to be stable and in good shape.

BUT: Expenses have increased because of growing travel activities for meetings, ambassador and outreach actions – “the costs of success?”

AND:  
Because of 2x awards in 2023.

2023 / 2024 P&L Forecast (rounded sums)			
Revenues		Expenditures	
FS & AS Membership Dues	\$ 35,000	Meetings,	
Sustaining Member Contributions	<del>\$ 38,000</del> \$ 60,000	representation & outreach*	\$ 17,000
Capitation Fees	\$ 0	Office - regular contracts**	\$ 6,500
Exchange rate gains	\$ 0	Office - variable costs***	\$ 10,000
Interest	\$ 7,000	Awards	<del>\$ 22,000</del> \$ 34,000
Miscellaneous	\$ 0	Standing and ad-hoc committees*	\$ 20,000
		Website (Dev, Maint.)	\$ 5,500
Total Revenues	<del>\$ 80,000</del> 102,000	Total Expenditures	<del>\$ 81,000</del> \$ 93,000
Summary of operations			<del>\$ 1,000</del> \$ 9,000

# General Remarks and Forecast

A nearly neutral financial result was expected for the end of this year, maybe a small deficit because of high travel and flight costs.

About 36 of 55 member societies' contributions have been collected, resulting into 96% of the overall revenue expected from this source.

Several members (also sustaining members) have not paid their fees for several years and did not react to reminders.

2023 / 2024 P&L Forecast (rounded sums)				
Revenues			Expenditures	
FS & AS Membership Due	\$ 41,344	\$ 35,000	Meetings,	
Sustaining Member Cont	\$ 61,156	<del>\$ 38,000</del> \$ 60,000	representation & outrea	\$ 26,127 \$ 17,000
Capitation Fees		\$ 0	Office - regular contracts	\$ 24,252 \$ 6,500
Exchange rate gains		\$ 0	Office - variable costs***	\$ 10,000
Interest	\$ 0	\$ 7,000	Awards	\$ 31,835 <del>\$ 22,000</del> \$ 34,000
Miscellaneous	\$ 12,418	\$ 0	Standing and ad-hoc com	\$ 18,126 \$ 20,000
			Website (Dev, Maint.)	\$ 5,500 \$ 5,500
	\$ 115,323	<del>\$ 80,000</del> 102,000	Total Expenditures	\$ 109,836* <del>\$ 81,000</del> \$ 93,000
Summary of operations				\$ 5,487 \$ 1,000 \$ 9,000

*\*incl. also bank fees, misc.*

# Auditors' Report

## Accounting:

- Consavo Legal Ltd., Zurich

## Auditors 2023:

- Kathy-Lynn Shaw
- Aleksandr Volosiuk

"... we have found the beginning and ending balances, deposits, expenditures and service charges to be consistent with the amounts reported in the IEA Treasurer's report. **Also, we found the financial records to be completed and comprehensive without mathematical errors...**"

To the Council of the International Ergonomics Association

Att. :Prof. Jose Orlando Gomes, IEA President,  
Prof. Thomas Alexander, IEA Vice-President Treasurer

Serving as auditors for the year 2023 for the International Ergonomics Association, we are pleased to inform you that the audit of the IEA financial documents for the 2023 book year has been completed. We have found the beginning and ending balances, deposits, expenditures, and service charges to be consistent with the amounts reported in the IEA Treasurer's Report for the period of January - December 2023. Also, we found the financial records to be complete and comprehensive without mathematical errors.

We would like to acknowledge the treasurer's responsiveness in working with the auditing team to review the records, to answer our questions concerning records, expenditures and transaction.

*We have comments and suggestions for the IEA Executive Committee to consider, as follows:*

-  
-  
-

We acknowledge the competence and commitment the Treasurer (Thomas Alexander) have demonstrated in the execution of their duties and suggest that the Council discharges the IEA officers.

Signature



Kathy-Lynn Shaw

IEA Councilor  
Auditor

Signature



Aleksandr Volosiuk

IEA Councilor  
Auditor

# 2024 Assets and Liabilities (interim)

IEA's equity increased by USD 42,736\*

- from USD 419,347 on Dec 31, 2023,
  - to USD 462,083 on Aug 1, 2024,
- because of a
- payments of all members
  - benefits of fixed-term UBS investments

*\* 2023: USD 30,951*

Balance Sheet: January 1 – August 1, 2024			
Assets		Liabilities	
Accounts	\$ 505,425	Dues Advanced Received	\$ 0
Investment	\$ 0	Suppliers Outstanding	- \$ 35
Prepaid Expenses	\$ 0	Earmarked Funds	\$ 43,377
Seed Money Receivable	\$ 0	Total Liabilities	\$ 43,342
		Equity	
		Total Equity	\$ 462,083
TOTAL	\$ 505,425	TOTAL	\$ 505,425

# 2024 Revenues and Expenditures (int.)

2024 P&L Statement up to August 1			
Revenues		Expenditures	
FS & AS Membership Dues	\$ 42,368	Meeting	\$ 9,020
Sustaining Member Contributions	\$ 55,452	Representation & Outreach	\$ 9,516
Capitation Fees	\$ 0	Office	\$ 14,825
Exchange rate gains	\$ 0	Awards Committee	\$ 17,719
Interest	\$ 0	ID Committee	\$ 1,566
Miscellaneous	\$ 14,039	PSE	\$ 206
		STP Committee	\$ 4,323
		CPR Committee	\$ 937
		Future of Work Com.	\$ 2,456
		DP Committee	\$ 3,036
		IEA Congress Com.	\$ 539
		Bank Fees	\$ 2,248
		Exchange Rate Losses	\$ 0
		Website (Dev, Maint.)	\$ 2,000
		Miscellaneous	\$ 1,272
Total Revenues	\$ 111,859	Total Expenditures	\$ 69,124
Summary of operations			\$42,735

\$ 18,536

\$ 13,063



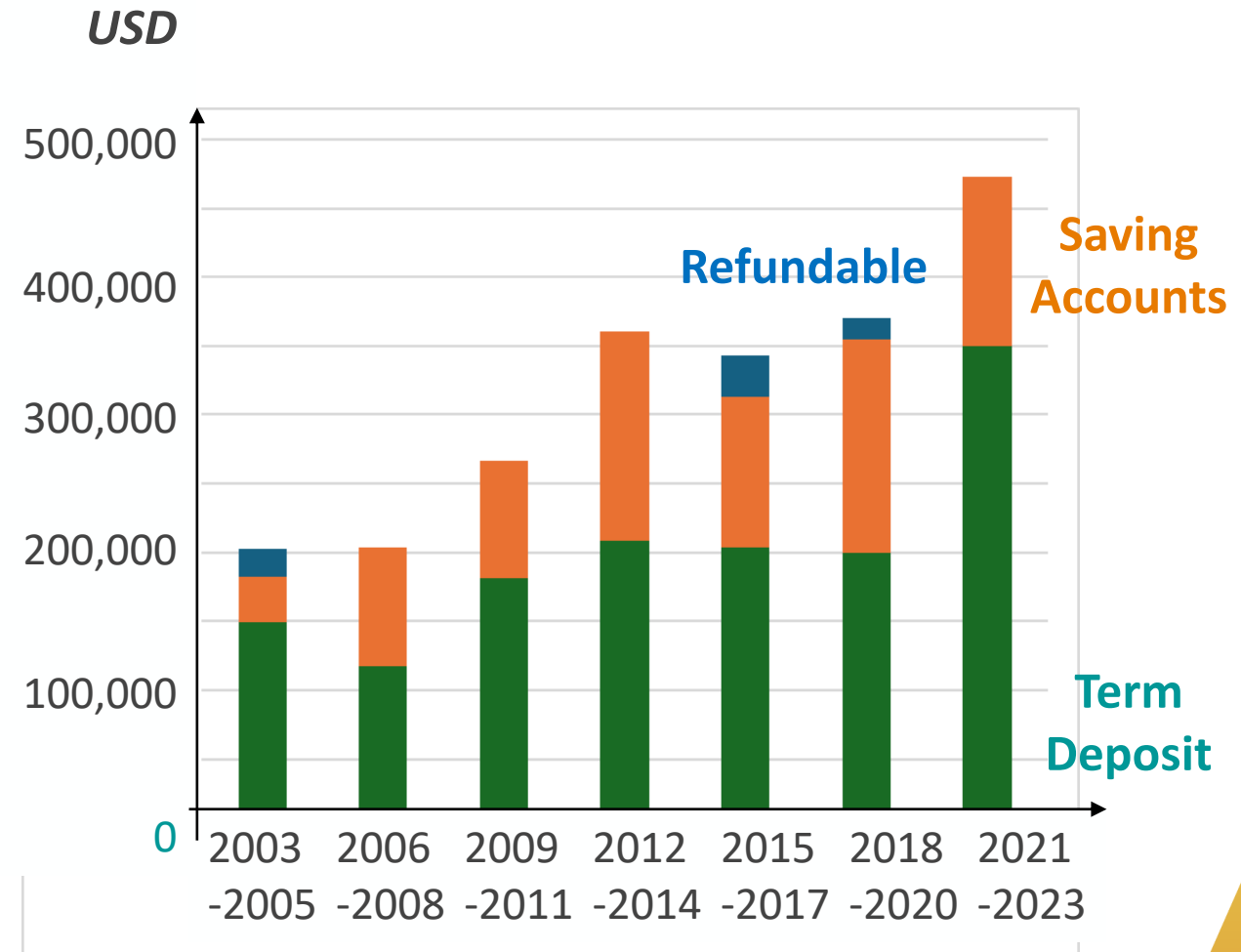
# Forecast 2024

2024 / 2025 P&L Forecast (rounded sums)			
Revenues		Expenditures	
FS & AS Membership Dues	\$ 43,000	Meetings,	
Sustaining Member Contributions	\$ 55,000	representation & outreach*	\$ 34,000
Capitation Fees	\$ 0	Office - regular contracts**	\$ 8,000
Exchange rate gains	\$ 0	Office - variable costs***	\$ 14,000
Interest	\$ 17,000	Awards & Awards committee	\$ 20,000
Miscellaneous	\$ 0	Standing and ad-hoc committees*	\$ 20,000
		Website (Dev, Maint.)	\$ 7,500
Total Revenues	\$ 115,000	Total Expenditures	\$ 103,500
Summary of operations			\$ 11,500

# Triennial Report

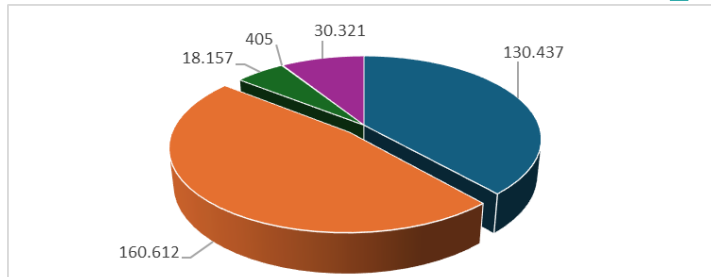
Assets (USD)	Y2021	Y2022	Y2023
Savings Account	439,535	494,152	122,873
Term Deposit – Investment Account	./.	./.	350,000
Seed Money Receivable	./.	./.	./.
Advancements	2,396	1,111	./.
<b>TOTAL ASSETS</b>	<b>441,931</b>	<b>495,263</b>	<b>472,873</b>

Liabilities (USD)	Y2021	Y2022	Y2023
Dues advanced received	193	500	574
Accounts payable (incl. accrued expenses)	17,147	37,526	9,570
Earmarked Funds	48,187	43,377	43,377
Total Liabilities	65,527	81,403	53,521
Total Equity	376,404	413,860	419,351
<b>TOTAL LIABILITIES</b>	<b>441,931</b>	<b>495,263</b>	<b>472,873</b>



# Triennial Report

Revenues

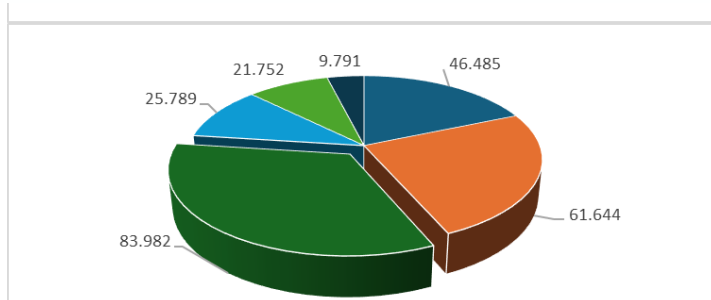


AS&FS  
Sustaining

Capitation Fees  
Misc.



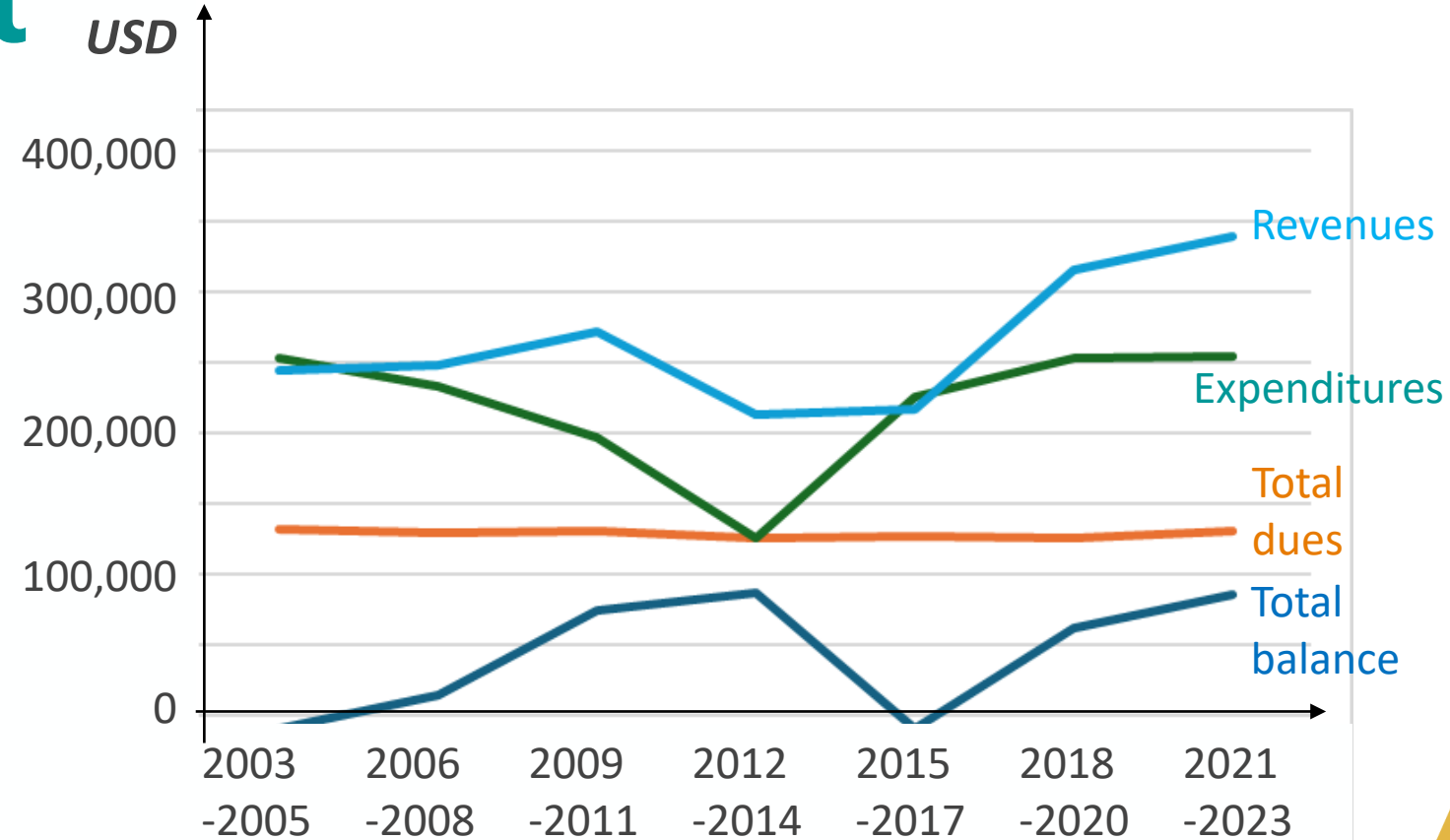
Expenditure



Meeting  
Office  
Website

Awards  
Committees  
Misc.

USD



# Outlook

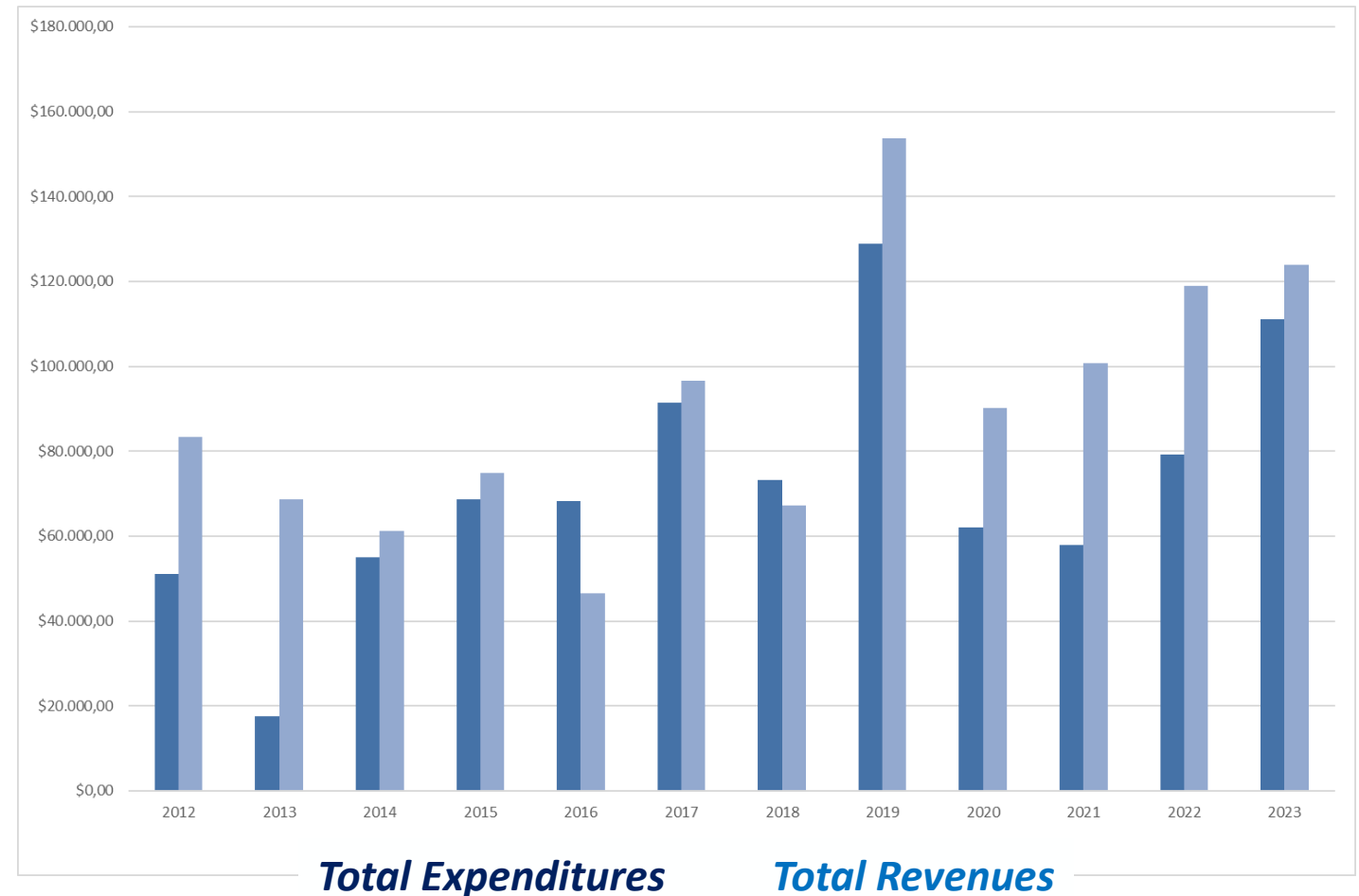
IEA financial operation is back to a new normal.

Higher expenditures caused by

- More awards for int. ECS and experts!
- Reaching out to new communities, "Ambassador" missions to initiate projects and support the development of HFE foundations.
- Travel expenditures because of the size of the EC-committee.
- Investment in IT-software infrastructure for webinars, newsletters, contacts, corporate image etc.

Expenditures reduced by

- Providing services to societies AND sharing of costs for EC-meetings with hosting society and organizations.
- Awards to support ECR and HFE experts by recruiting of new sustaining members.



# Science Technology & Practice (STP) Standing Committee Activities 2021-2024 (Ch. 8, IEA 2021-4 Report)

Chair: Nancy Black

Co-chairs: Rosemary Seva – TCs, webinars  
Karen Lange Morales – Publications

IEA Council Meetings  
August 23-24, 2024

# STP Mission

Promotes and coordinates the **exchange of scientific and technical information at the international level.**

Key to this activity are the IEA **Technical Committees (TCs)**, which provide scientific support for the IEA triennial Congresses. These are special interest groups for specific areas of HFE. **TC Membership is open to all members of Federated Societies** and they have the task of facilitating the exchange of information between the interested members.

Meetings:     Executive STP meetings bi-monthly  
                    STP-TC committee – semi-annually  
                    STP-TC + IEA2024– Feb. 28, May 31, 2024

# Value-Added Topics

Topic description	Strategic policy aligned	Projects / Activities
Coordinate exchange of scientific and technical information at the international level	# 3 Contribute to Science Technology & Practice	STP-TC semi-annual meetings + TC reporting
Undertake activities in cooperation with TCs that address specific areas of HF/E interest Webinars Content in TC sections (iea.cc); Publications		Webinars + Continuing competency Catalogue TC content updates Publications: “Ergonomics in a nutshell” x3 Journal content: Special Issues + Articles
Support organization of scientific and technical events; applications of IEA endorsement & sponsorship (events and publications)		Endorsement Operating Procedure rev. Continuing competency recognition
Assist in planning IEA triennial congress scientific program		Collaboration with Organizing Committee; meetings with OC + TCs
May assist industrial developing countries in assimilation of EHF knowledge and practice...	# 1 Stakeholder engagement	Webinars, Publications

# Ongoing: Event endorsements

- Clarify and streamline the IEA endorsement process.
  - *Operating Procedure* updated 2022 clarifying *Communications*
  - Fees: Waived during Covid-19. Waived for TC-organized Events.
- Further considerations:
  - Better measures of value of IEA endorsement
    - Event title, Organizer, Dates, Location, Format (online?), Attendance

• Results :

Year	2021	2022	2023	2024
# endorsements	3	6	6	5+

- Activities and resources summary: Email communications
  - 2 h / endorsement = 1 h IEA executive + 1 h /Organizer



# Project 1: TC support

**Goal:** To foster efficient, timely exchange of scientific and technical information at the international level

- Between IEA Triennial congress events, TCs initiate value-added activities for the global community; IEA STP must support them

**Outline:** Regular information exchanges STP executive & TCs

- Semi-annual 75-minute Zoom meeting through STP-IEA
  - **STP executive** share updates
  - **TC chairs** share updates, questions, best practices
- Maintain contact database (Chairs, co-chairs)
- Compile & upload TC semi-annual reports

# TC meetings : Main stakeholder group table

Stakeholder Group	What is the stakeholder groups' role within the Project?	Category	Level
<b>STP Executive</b>	<ul style="list-style-type: none"> <li>Meeting organizer, chair</li> <li>Plan meeting agenda, contents</li> <li>Present IEA and Executive activities supporting TCs</li> <li>Post meeting minutes &amp; recording on Slack STP-TC channel</li> </ul>	System actors/ Experts; global	Global
<b>TC Chairs / co-chairs</b>	<ul style="list-style-type: none"> <li>Prepare semi-annual report of activities</li> <li>Attend: learn and share concerns, questions, suggestions</li> <li>Follow up from meetings (listen to recordings; ask for IEA support efficiently)</li> </ul>	System actors	Global
<b>IEA secretariat</b>	<ul style="list-style-type: none"> <li>Ensure meeting timing and date available; record date</li> <li>Define and share Zoom link</li> <li>Share recording for posting</li> </ul>	System actors	Global
<b>CPR Committee</b>	<ul style="list-style-type: none"> <li>Share key updates to global community (social media, NewsBriefs)</li> </ul>	System actors / influencers	Global
<b>Member societies</b>	<ul style="list-style-type: none"> <li><b>Encourage members' participation in TCs</b></li> <li><b>Approve (written) &amp; Support TC events (publicity) when in their country / region</b></li> </ul>	<b>System influencer</b>	<b>National</b>

# TC meetings - Relationship matrix

From \ To	STP Executive	TC Chairs / co-chairs	IEA secretariat	CPR Committee	Member societies
STP Executive	Meet bi-monthly	Invite to meeting Request reports Provide support requested	Request <b>Zoom link</b> & recording support	Request publication of TC events, activities	
TC Chairs / co-chairs	Reports Questions, Suggestions, Recommendations	Meet as needed (semi-annually); Within TC at least semi-annually			Request support for Event
IEA secretariat	Supply Zoom link Supply Recording link		Ensure one of VPSG, Secretariat or STP TC-co-chair attending meeting; start recording		
CPR Committee	Advise received news; when published	Advise received news; when published		Communicate contents to members	Contents in NewsBriefs
Member societies	Share event endorsement requests	Respond to TC event endorsement support request			

# TC support: Benefits

- Encourage TC dynamism
  - **Inspire:** hear other TCs' successes and activities
  - **Communicate:** TC chair responsibilities, description, report templates
  - **Support:** TC webinars
- Support inter-TC collaboration
  - Multiple TC chairs present at meetings
- Communicate efficiently: TCs ↔ IEA STP + IEA Triennial Congress
- Follow TC contents:
  - On IEA.cc: semi-annual reports as submitted
  - Database of contacts (activities)
  - Facilitate data collection for reporting (CPR, triennial report)
- Develop strategies:
  - Operationalize feedback: webinar efforts, competency recognition, recruitment
  - Survey TCs: *Good, but* want more interaction, communication from STP

# TC Chair Survey respondents (N = 24)

Activity Theories of Work Analysis and Design (ATWAD)

Affective Design

Ageing and Work

Agriculture

Anthropometry

DHM and simulation

Ergonomics and Human Factors for Sustainability

Ergonomics in Design for All

Gender & Work

Healthcare Ergonomics

Human Factors in Robotics

Informal Work

Musculoskeletal Disorders (MSD)

Organizational Design and Management (ODAM)

Resilience engineering

Safety and Health

Slips, trips, and falls

Transport Ergonomics and Human Factors (TEHF)

Visual Ergonomics

*IEA2024 EC5: Wed. Aug 28. 13:15-14:45*

No response yet

Aerospace HFE

Building and Construction

Ergonomics for children and Educational Env'ts

Ergonomics In Manufacturing

Ergonomics Work Analysis and Training (EWAT) \*

Mining

Work with computing systems



# TC meetings: Activities and Resources matrix

Activity undertaken	Societies/committees involved	Hours dedicated / meeting	Resources used
<b>Meeting planning</b>	• STP executive: chair + 2 co-chair TCs	2.5 h (Chair)	Work time + presentation software; Chair sends 3 reminders
<b>Meeting</b>	VPSG, Secretariat, STP, co-chair TCs, TC chairs – co-chairs	1.5 h each x 20 people per meeting	Work time; Zoom
<b>TC reporting</b>	TC chairs	3 h (planning, preparing, sending) (TC Chairs)	Work time Expert knowledge; software for presentation
<b>Meeting follow-up – minutes, posting</b>	STP chair	2.5 h (2 h Chair; 0.5 h Co-chairs verification)	Time, work-processing software, PDF, Email, Slack

# Project 2: TC webinars & publications

## Goal:

- Undertake activities in cooperation with **TCs** to address specific areas of HF/E interest
  - Webinars & Content in TC sections (iea.cc); Publications

## Needs:

- Advance Science Technology and Practice involving *expert content* from around the world, accessible anytime

## Outline:

- Webinars: 60 minutes; publicized, hosted by IEA & available through IEA channels
- Publications: *Peer reviewed* and *Practitioner-oriented*

## Process:

Webinars	Publications
Idea (2021 – former VPSG)	Nutshell idea (2021 – former STP co-chair)
STP co-chair (RS) = webinar co-ordinator Goal: 4 TC-content webinars annually	STP co-chair (KLM) = nutshell leadership Goal: 3 documents by 2024
Procedure document for organisers	

# Webinars : Main stakeholder group table

Stakeholder Group	What is the stakeholder groups' role within the Project?	System actors/ experts/ decision-makers/ influencers	Level (Individual / National / Regional / Global
<b>Webinar organiser</b>	<ul style="list-style-type: none"> <li>Define webinar topic, speakers</li> <li>Determine approximate desired date, time</li> <li>Host during the webinar itself (introduce speakers)</li> <li>Prepare poster announcements &amp; share with STP TC-co-chair (webinar coordinator)</li> </ul>	Actors, experts, decision makers	Global
<b>Webinar presenter</b>	<ul style="list-style-type: none"> <li>Define webinar content</li> <li>Supply paragraph of personal biography, photo, content description</li> <li>Present webinar content; respond to questions during webinar</li> <li>Suggest contents for post-webinar questionnaire</li> </ul>	Experts, Actors	Individual
<b>STP TC-co-chair</b>	<ul style="list-style-type: none"> <li>Encourage TC webinar presentations</li> <li>Maintain IEA webinar calendar (ensure dates, times do not conflict)</li> <li>Share webinar announcement with CPR committee</li> </ul>	Actors/ Decision-maker / Influencer	Global
<b>TC Chairs / co-chairs</b>	<ul style="list-style-type: none"> <li>Act as webinar organisers</li> </ul>	System actors / influencers / Decision makers	Global
<b>IEA secretariat</b>	<ul style="list-style-type: none"> <li>Receive webinar request</li> <li>Reserve Zoom link; record webinar</li> <li>Prepare Certificate of Thanks for each speaker with IEA president signature; distribute</li> </ul>	System actors	Global
<b>CPR Committee</b>	<ul style="list-style-type: none"> <li>Share webinar announcements via (social media, NewsBriefs)</li> </ul>	System actors / influencers	Global
<b>Member societies</b>	<ul style="list-style-type: none"> <li>Encourage members' participation at webinar</li> </ul>	System influencer	National



# Webinars - Relationship matrix

From \ To	Webinar organiser	Webinar presenter	STP TC-co-chair	TC Chairs / co-chairs	IEA secretariat	CPR Committee	Member societies	Attendees
Webinar organiser	Discuss, define		Request <b>Zoom link</b> & recording support				(opt.) Advise, suggest marketing	Welcome during session
Webinar presenter	Send personal biography, photo, content description	Meet in advance; ensure contents coherent	-					Present to; respond to
STP TC-co-chair	Supply Recording link		Record in calendar					
TC Chairs / co-chairs								
IEA secretariat		Certificate of thanks	Supply Zoom link					
CPR Committee	Advise received; when published		Advise received; when published			Share contents for publication	NewsBriefs sent	
Member societies								Suggest attend
Attendees		Ask questions			Respond to post-webinar questionnaire (opt)			Learn from questions, remarks



# Webinars: Benefits

- Encourage scientific advancement
- Encourage networking
  - Speakers, organizers, attendees, IEA administrators (future involvement)
- Maintain professional practice hours (attendees)
- Add value to IEA.CC contents
  - Increase traffic to IEA
- Facilitate data collection for summary reports
  - Zoom attendance
  - YouTube attendance
- Ask for feedback (Zoom survey) started ...

## Develop Strategies:

- Create platform for continuing competency support of Member societies (started 2024)...

# Webinars: Activities and Resources matrix

Activity undertaken	People involved	Hours dedicated	Resources used
<b>Webinar calendar</b>	• STP, co-chair TCs, webinars	0.25 h / (prep. + pres'n) 2 h between meetings = 18 h annually	Work time
<b>Webinar support documents</b>	VPSG, Secretariat, STP, co-chair TCs, webinars	6 h	Work time
<b>Webinar preparation</b>	TC chairs Presenters	3 h (plan, communicate) 10 h / 1 h presentation	Work time Expert knowledge; Presentation software
<b>Webinar presentation</b>	Organizing group Administrator support (recording) Presenters	1.5 h each	Time; IEA Zoom channel
<b>Webinar follow-up</b>	Secretariat	1 h	Time, email (thanks) Zoom / YouTube stats Email

# Project 2<sup>a</sup>. Publications

## Special Journal issues (Triennial Congress) Ergonomics in a nutshell – 1 & 2 EQUID 4.0

Supported by Karen Lange-Morales, Nancy Black,  
TCs, IEA2024

# Value-Added topic : Communicating the science

Goal: Communicate to the *right people* in the *right fashion* NOW

**Journal special issues**

**Nutshell documents:**

- C-Suite (2022)
- Line / Project Managers (2024)
- Labour / Union / Worker Organisations (2024+)

**Individual journal articles:** EQUID 4.0 + Hybrid conf.

# Alignment with IEA Strategic Policies

	Description	
Strategic policy	Journals (Issues / Articles)	Description - Nutshell
# 1 Stakeholder engagement	Academics - students	C-suite / Managers / Labour
# 3 Contribute to Science Technology & Practice	Science	Practice
# 6 Reinforce relationships with External Organizations	Journals	Source documents for External Organizations



# Project outline

## Special issues

- Contact publishers
- Guest editors
- Call for papers
  - Author guidelines
- Review – Revise - Accept
  - Reviewer recruitment
- Publish - Publicise

## Nutshell publications (3)

- Form leadership team
- Develop content
- Format presentation – document + supports
- Market

# Nutshell publications: Main stakeholder group table

Stakeholder Group	What is the stakeholder groups' role within the Project?	Category
STP Executive	<ul style="list-style-type: none"> <li>Project oversight – bi-monthly meetings</li> <li>Leader co-chair publications, Karen Lange Morales</li> <li>Provide presentations to stakeholder groups</li> </ul>	System actors/ Experts
Authors	<ul style="list-style-type: none"> <li>Propose content</li> </ul>	Experts
Reviewers	<ul style="list-style-type: none"> <li>Review content</li> <li>Suggest revisions</li> </ul>	influencers
CIEHF	<ul style="list-style-type: none"> <li>Assistance in marketing – 1 minute recording;</li> <li>Page layout</li> </ul>	Experts
IEA Council	<ul style="list-style-type: none"> <li>For dissemination within their societies and networks</li> <li>CIEHF partner for marketing</li> </ul>	Influencers / Experts
IEA Executive	<ul style="list-style-type: none"> <li>ISBN numbers; Official publication information</li> </ul>	
Member Societies	<ul style="list-style-type: none"> <li><b>For discussion, dissemination within their societies and networks</b></li> </ul>	<b>System actors</b>
Users	<ul style="list-style-type: none"> <li>Read, apply</li> <li>To encourage IEA and Member society consultation for other resources, certified professionals and member experts</li> </ul>	System actors



# Nutshell publications: Main stakeholders and their relationships

From \ To	STP Executive	Authors / Reviewers	CIEHF	IEA Council	IEA Executive	Member Societies	Users
STP Executive	Meet bi-monthly	Only via STP publications co-chair	Request assistance for marketing	Annual update	Semi-annual update		
Authors / Reviewers	Suggested, recommendations	Approximately 1 year work, sharing regularly	C-suite document through Andrew Thatcher lead				
CIEHF	Offer assistance for marketing						
IEA Council	Suggest authors, reviewers						Distribute
IEA Executive	Provide ISBN, space on IEA.cc website as publication official support						Distribute
Member Societies							
Users						Feedback other needs	Encourage other readers / users



# Nutshell publications: Benefits to stakeholders

- Improve understanding of each other's needs

## Activities and Resources matrix

Activity undertaken	People involved	Hours dedicated to activity	Resources used
Plan documents	• STP, co-chair publications	0.3 h / meeting 2 h between meetings	Work time
Preparation of publication		100+ h	
Publication of document			

# Nutshell publications: Outcomes so far



Labour organization publication:  
Allison Angold-Stevens (CANADA)

# Special Issues: Outcomes so far

- *Ergonomics*; **Gender and Work in Ergonomics: Recent Trends**; 65(11), 2022 (**10 articles**)
- *Human Factors*; **IEA2021 Special Issue on Human-Systems Integration in Healthcare**; 66(3) (**8 articles**)
- *IIE Transactions on Occupational Ergonomics and Human Factors (TOEHF)*;
  - **Practitioner Case Studies**; 9(2), 2021 (**5 articles**)
  - **Digital Human Modelling in Ergonomics 4.0**; 9(3-4), 2021 (**10 articles**)
- *International Journal of Production Research*; **Human-centric production & logistics systems design and management: Transitioning from Industry 4.0 to 5.0**; 61(22), 2023 (**10 articles**)
- **WORK IEA 2021 special issue**: Oct. 2022, **22** articles.

## IEA 2024 Special Issues:

*Applied Ergonomics*

*Ergonomics “Future of Work”*

*Human Factors*

*International Journal of Industrial Ergonomics* (two vol. s)

*International Journal of Industrial Engineering*

*Journal of Engineering Design*

*WORK*

# Articles: Outcomes so far

## Hybrid congress Content

- Black, N.L. and Neumann, W.P. *Hybrid and Virtual Elements of an IEA Triennial Congress* (4 pages, including 10 points).
  - For internal IEA use: Congress Model (see Section 11.1).
- Black, N.L., Neumann, W.P., Noy, I., Dewis, C. (2023) Applying ergonomics and human factors to congress organization in uncertain times. *Applied Ergonomics*, Vol. 106, 103862 (13 pages)

## EQUID 4.0

- Lange-Morales, K., García-Acosta, G., & Bruder, R. (2023). Conceptual framework for the design and development of sustainability-oriented products: toward EQUID 4.0. *Theoretical Issues in Ergonomics Science*, 1–27.

# STP thanks you

# **Report from Professional Standard and Education(PSE) standing committee**

## *During 2021-2024*

**Takeshi Ebara, Ph.D. CPE,**  
PSE committee chair,  
University of Occupational and Environmental Health (UOEH),  
Japan



# Activities of PSE committee

*Page 71-93, Triennial Report of  
the International Ergonomics Association 2021-2024*

9.1.1 PhD Program in HFE for Latin America and the Caribbean Region

9.1.2 Collaborative Program JES/CPEJ/CNAM/IEA

9.1.3 Master's Program on HFE in Italy

9.1.7 HFE Educational map



# What is the value-added topic?

*PhD Program in HFE for Latin America and the Caribbean Region, p.72*

- Prior to this project there were no master's level or PhD programs in Latin America and the Caribbean Region that could prepare highly qualified HFE professionals.
- Providing the training of high-level researchers for Latin America and the Caribbean adds value to the HFE profession in these regions.

# What are the needs?

## *PhD Program in HFE for Latin America and the Caribbean Region, p.72*

- Need for management of the development of Latin American PhD programs given the geostrategic conditions of the different universities
- Need to create a hybrid-model HFE doctorate with online and in-person contact
- Need to offer the course to other Latin American countries in the region (for example, Bolivia which just formally founded its society)

Stakeholder Group	What is this person's role within the Project?	System actors/ experts/decision- makers/ influencers
IEA Executive committee, ID and PSE	<ul style="list-style-type: none"> <li>• Jose Orlando Gomes</li> <li>• <b>SDI chair:</b> Andrew Todd,</li> <li>• <b>ID cochair:</b> Paulo Antonio Barros Oliveira,</li> <li>• <b>ID cochair:</b> Martin Rodriguez</li> <li>• <b>PSE cochair:</b> Joao Albergo Camarotto</li> </ul>	Influencer and expert
IEA Networks (ULAERGO) and Federated Societies in the region	<ul style="list-style-type: none"> <li>• Carlos Espejo, the president of ULAERGO</li> <li>• Martha Saravia, the President of the Colombian Society of Ergonomics</li> <li>• Members of the Argentine Society of Ergonomics</li> </ul>	Influencer, expert and actor
Regional universities	<ul style="list-style-type: none"> <li>• Universidad del Valle <ul style="list-style-type: none"> <li>• Jesús Alberto Hernandez, the Dean of the Faculty of Health</li> <li>• Juan Carlos Velasquez, Director of the Doctorate Program in Ergonomics</li> </ul> </li> <li>• The National University of Colombia</li> <li>• National Technological University of Argentina</li> <li>• the Federal University of Rio Grande do Sul</li> </ul>	Decision makers and actors
External stakeholders (Local authorities)	<ul style="list-style-type: none"> <li>• the Ministry of National Education</li> <li>• The Ministry of Labour</li> </ul>	Decision makers
Students		actors

# Outcomes so far (1/2)

## *PhD Program in HFE for Latin America and the Caribbean Region, p.75-76*

- In November 2021, Professor Juan Carlos Velasquez Valencia led the Forum on Public Health titled "Ergonomics and Human Factors EFH, Public Health and Counter-Hegemony."
- In 2022 the Doctorate in Ergonomics was approved by the Ministry of National Education, Colombia, and the PhD Program on HFE for Latin America and the Caribbean, Universidad del Valle, Cali, Colombia. A hybrid model was launched in August 2022. The first cohort had 15 students from 6 Latin American countries: Mexico, Colombia, Ecuador, Peru, Chile, and Uruguay.
- The application for the second cohort was open for new 15 students until June 28, 2023, and this time it included the Caribbean region as well. The third cohort in 2024 has 12 students enrolled in the admission process but it has not been finalized.

# Outcomes so far (2/2)

## *PhD Program in HFE for Latin America and the Caribbean Region, p.75-76*

- In Argentina the National Technological University of Argentina and members of the Argentine Society of Ergonomics are preparing a master's degree in HFE, and the draft of the curriculum is ready. An agreement with the Doctorate Program on HFE for Latin America and the Caribbean at the Universidad del Valle is under discussion.
- In Brazil, the organization and development of a master's degree in HFE at the Federal University of Rio Grande do Sul is ongoing, with the support of the Brazilian Federated Society ABERGO and the Ministry of Labour, aiming at training 15 labor inspectors in HFE.

# Activities of PSE committee

*Page 71-93, Triennial Report of  
the International Ergonomics Association 2021-2024*

9.1.1 PhD Program in HFE for Latin America and the Caribbean Region

9.1.2 Collaborative Program JES/CPEJ/CNAM/IEA

9.1.3 Master's Program on HFE in Italy

9.1.7 HFE Educational map

# What is the value-added topic?

*Collaborative Program JES/CPEJ/CNAM/IEA , p.77-82*

- The IEA document on HFE core competencies was revised in 2021 on the initiative of Maggie, the former PSE Subcommittee chair on Certification. Revised core competencies stress applying the systems approach, and the competencies are general one, not specific to any fields of application.  
The systems approach, so far, has not been fully realized in the practice of occupational safety and health, R&D process, or management in companies.
- Therefore, the development of hands-on training for HFE personnel/practitioners in response to the industry 4.0 era is a value-added topic for IEA.

# Outcomes so far

*Collaborative Program JES/CPEJ/CNAM/IEA, p.77-82*

- Regular meetings of the working group:  
Monthly meetings with CNAM (Paris) and JES/CPEJ (Japan) held from March 2022
- Sharing and exchanging knowledge and practice on the systems approach and activity theory in France and Japan
- Organizing of a panel discussion entitled "The systems approach, its theory and practice" at the Triennial Congress of the IEA (IEA2024) to share and exchange the project results with members of Federated Societies

**Panel Discussion 2, 8:30-11:45, Aug. 26(Mon), 4<sup>th</sup> floor 401B**



# Activities of PSE committee

*Page 71-93, Triennial Report of  
the International Ergonomics Association 2021-2024*

9.1.1 PhD Program in HFE for Latin America and the Caribbean Region

9.1.2 Collaborative Program JES/CPEJ/CNAM/IEA

9.1.3 Master's Program on HFE in Italy

9.1.7 HFE Educational map

# Outlines

## *Master's Program on HFE in Italy, p.82*

- This project was conducted through collaboration among two IEA Standing Committees—International Development and Professional Standards and Education—and was facilitated by the IEA President. In Italy the project is headed by Prof. Riccardo Tartaglia at Marconi University
- The master's degree in Ergonomics and Human Factors in Complex Organizations aims to provide the knowledge and skills needed to design products, activities, and environments to optimize their use by humans.

# Activities of PSE committee

*Page 71-93, Triennial Report of  
the International Ergonomics Association 2021-2024*

9.1.1 PhD Program in HFE for Latin America and the Caribbean Region

9.1.2 Collaborative Program JES/CPEJ/CNAM/IEA

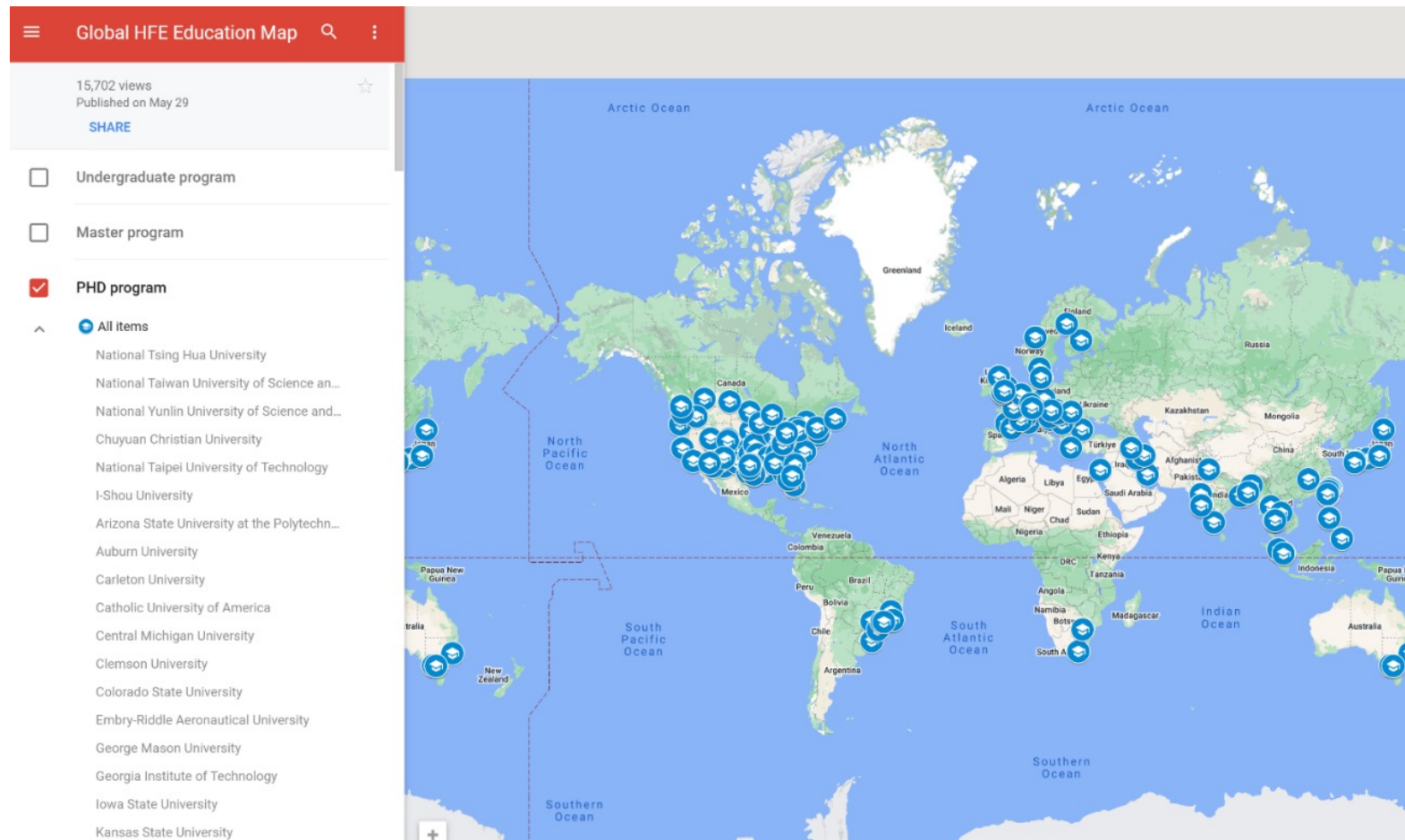
9.1.3 Master's Program on HFE in Italy

9.1.7 HFE Educational map

# Outlines

## *HFE Educational map, p.91-93*

- On the IEA website, IEA provides a global map of educational institutions that offer HFE programs. The database is continuously updated with new data.



The global HFE educational map on the Google Maps System  
The color of the pins stands for the different degree levels provided in that department. The blue represents institutions providing doctoral degrees.

# What is the value-added topic?

*HFE Educational map, p.91-93*

- The map supports HFE education, as well as enhancing knowledge exchanges among experts in this field from all over the world
- The worldwide database of HFE educational information lets stakeholders know where to find suitable resources for HFE education or training. For

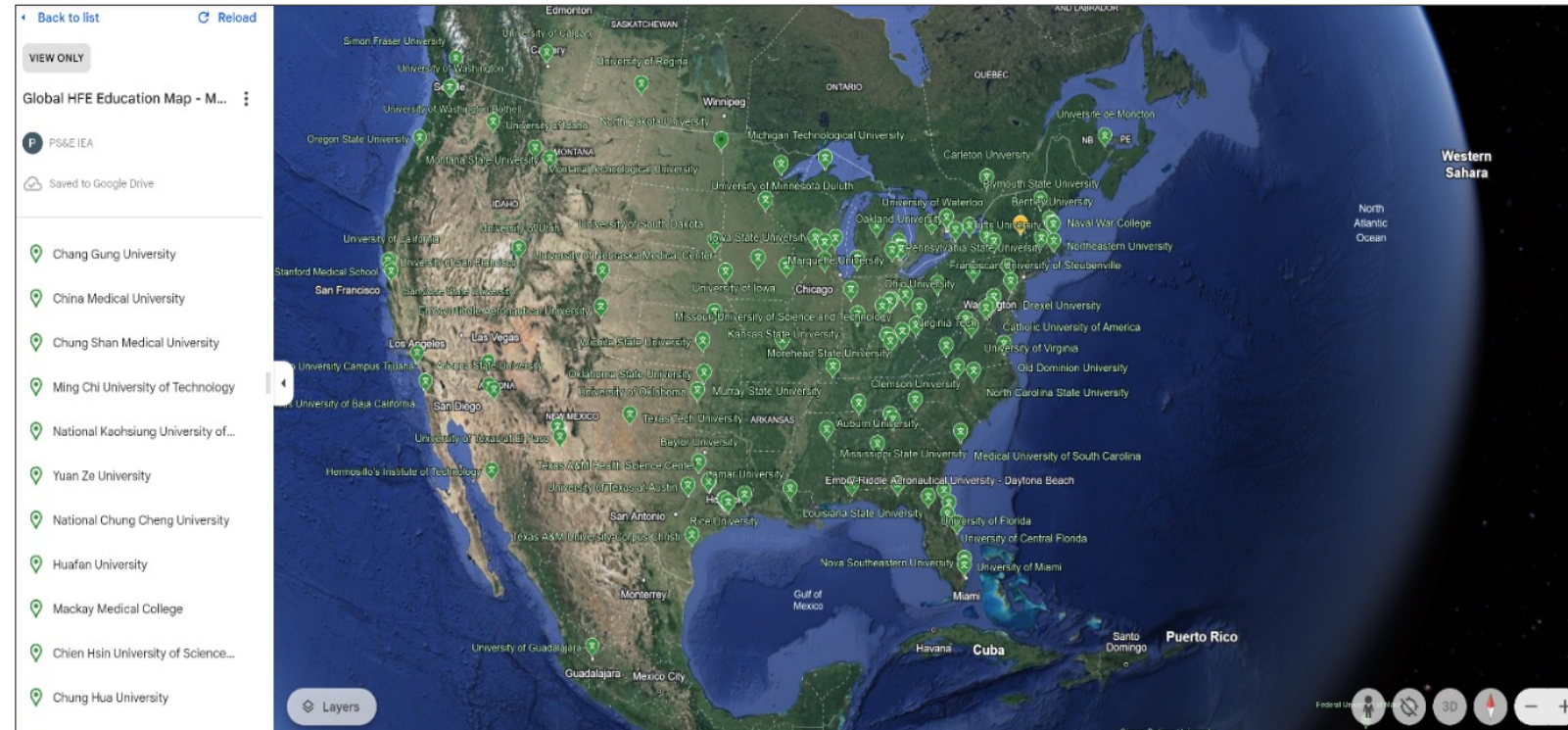
## Outcomes so far

- The data collection and its update were performed with tireless help from several IEA committees and Council members. As of July 2024, this included contributions from 45 countries. A total of 1,328 undergraduate courses, 422 master's programs, and 266 PhD programs were included.

# Future activities

## *HFE Educational map, p.91-93*

- Need to request the cooperation of more Council members/Federated Societies and IEA Networks to register further institutions
- The IEA Executive Committee should help connect potential candidates who can effectively assist in data collection from other Federated Societies in various regions







# IEA

International Ergonomics &  
Human Factors Association

<https://iea.cc>



@IEA\_Ergonomics



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@International Ergonomics Association (IEA)

# International Development Standing Committee

August 2024



# International Development Standing Committee

**Chair** - Anindya Ganguli

India

**Co-Chairs** per Region:

**Martin Rodriguez,**

ADEA, Argentina

Latin America

**Paulo Antonio Barros Oliveira**

ABERGO, Brazil

**Nelson Ekechukwu**

ESN, Nigeria –

Africa

(with the collaboration of Prof. Paulo Antonio for African Portuguese speaking countries)

**Liang Ma**

CES, China

Asia

**Jennifer Guiterrez**

HFESP, Philippines

**Chris Reid**

HFES, USA

North America

# International Development Standing Committee

## Mission

The International Development (ID) Standing Committee promotes, coordinates, and implements IEA policies and activities at a regional level to expand the reach of the IEA. It is particularly involved with initiatives supporting research, development, training, and conferences in industrially developing countries.

# International Development Standing Committee

## LATIN AMERICA

Steps towards the creation of new Ergonomics Societies in Latin America & Caribbean Region that could be affiliated to ULAERGO and IEA

### Bolivia

Meetings were held with the management group of the newly created Society of Ergonomics of Bolivia, which is in the final stages of its formal regularization. Participation in the organization and presentation of panels and conferences at the congress organized by that entity; and also held monthly meetings with the society board.

## **LATIN AMERICA**

### **Angola/Mozambique**

Online meetings have been held, and an in-person meet is scheduled in June, together with South Africa, for the formation of the respective societies of specialists in cooperation with ESSA and Prof. Andrew Todd. A working group was set up with Angola with the important stakeholders in the country, such as Sonangol, the Angolan State Oil Company, and the Superior Polytechnical Institute of Angola (ISPTEC).

# International Development Standing Committee

## North America (including the Caribbean)

In November 2022, the present and immediate past president of the IEA participated in the XX Scientific Congress of Engineering and Architecture, of the Technological University of Havana to further the discussion at Merida about the formation of a Caribbean HFE Society and to get support of Cuban ergonomists. Currently, for the Cuba chapter, there is a core group of Cuban professors, many of them from the Universities Tecnologica de Havana (CUJAE), Matanzas.

Prof Chris Reid of the HFES has accepted the invitation from President of IEA to be part of the International Development team for North America and the Caribbean. Chris Reid has already been working with us on several initiatives throughout the Latin America and Caribbean Region.

## **Central America countries:**

Small countries in Central America (Nicaragua, Guatemala, Honduras, Costa Rica, and Dominican Republic) already have structured small societies or interest groups on HFE in order to have legalized registration of these organizations. Some of them are already affiliated to ULAERGO such as Costa Rica, Nicaragua and Guatemala. The project now is to structure them to be federated societies of IEA.

## **SOCHERGO & ULAERGO**

IEA strongly supported the XIII International Congress of Ergonomics and Human Factors of the Chilean Society of Ergonomics and Human Factors SOCHERGO and the VIII Congress of the Latin American Union of Ergonomics ULAERGO held in Chile, with many presentations from IEA resource persons including the IEA President, Past President, Chair of the Science, Technology and Practice Committee, etc.

# International Development Standing Committee

## AFRICA

### Ghana

At present, there are not enough members to form a society. Initiatives to increase the membership (such as a Masters Programme in HFEare in progress.

# International Development Standing Committee

## ASIA

### ACED 2023

The fourth ACED Triennial Conference ACED 2023 was held in Mumbai, India simultaneously with the BRICSplus HFE conference 2023 and the HWWE 2023 conference of the Indian Society of Ergonomics. IEA representatives attended and supported these conferences.



## **Bangladesh -**

Based on the interactions between AKG and the office bearers of the Bangladesh Ergonomics Society (BES), the BES has formally applied for membership of ACED. This application has been approved by the ACED Executive Committee and by the ACED Council in the Council meeting held in December 2023. However, there are not enough members to comply with the eligibility requirements to apply for IEA membership (Federated or Affiliated). IDC is maintaining contact with the BES and supporting their activities with the aim of helping them to fulfil the IEA membership requirements.

## Iran

President, IEA had a meeting with Dr. Saremi, the President of the Iranian Ergonomics and Human Factors Society (IEHFS), and the society is back to the IEA fold and will actively participate in the scheduled activities. We will continue the interaction in order to better understand their needs and initiate a collaborative project. IEHFS will also join the ACED, IEA's regional network for Asia.

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# International Development Standing Committee

## Collaborative Ph.D programme for Asia

Project 1

**Vietnam**

Project 2

# Activity 1

## International Development Standing Committee with the PSE Standing Committee

### Development of a Collaborative HFE Ph.D. Programme for Asia



# Why a Collaborative HFE Ph.D. Programme in Asia?

- While many countries in Asia have Masters and some have Doctoral programmes in HFE, there is a felt need to have a pan-Asian programme aligned to the requirements of the region.
- The experience of the development of such a programme for Latin America could be leveraged.

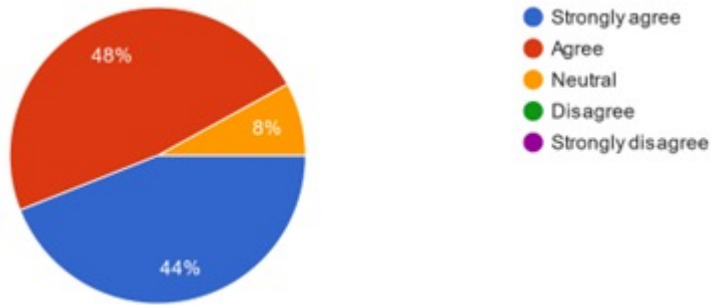
**The development of HFE education in Asia aligned to regional needs is a value-added topic for the IEA**

# Alignment with the Strategic Policies of the IEA

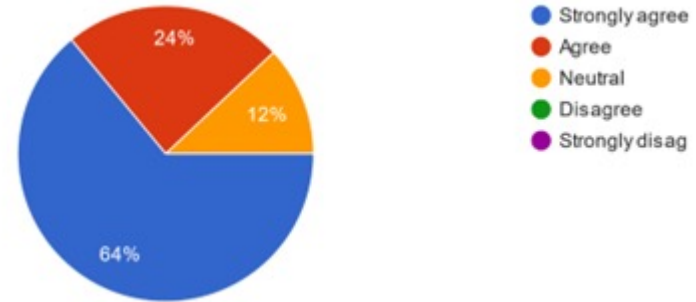
- Increase stakeholder engagement (Policy 1)
- Reinforce collaboration within the regional HFE network (ACED) (Policy 2)
- Contribute to the development of science and practice of HFE in the region (Policy 3)
- To enhance the contribution IEA in promoting HFE Education (Policy 4)
- Maintain a future focus for the development of HFE in the Asia region (Policy 7)

# What are the needs?

## Need for trained faculty



## Need for qualified HFE personnel for industry



# Outline of the project

Category	Description
Broad Outline	Growth of Human Factors and Ergonomics education programmes in Asia tailored to regional needs
Goal	Increased quantity and quality of HFE doctoral programmes in Asia
Needs	<ul style="list-style-type: none"><li>• Need for trained faculty</li><li>• Need for qualified HFE personnel for industry</li><li>• Need for an international level doctoral programme in HFE</li></ul>
Contents	<ul style="list-style-type: none"><li>• HFE doctoral programmes that draw from the cream of the HFE expertise available in Asia (coordinated by ACED), supplemented by international experts facilitated by the IEA</li><li>• HFE programmes strongly aligned to the problems and culture of the region</li><li>• HFE programmes funded by regional corporations and universities, focused on the current growth areas in the region</li></ul>
Stakeholders	As per stakeholder table
Benefits	Fulfilment of all the needs identified above



# Main stakeholder group table

Stakeholder Group	What is the stakeholder groups' role within the Project?	System actors/ experts/ decision-makers/ influencers
IEA Executive committee	<ul style="list-style-type: none"> <li>Project oversight</li> <li>High level stakeholder engagement</li> </ul>	Influencer and expert
ID, PSE and SDI	<ul style="list-style-type: none"> <li>Project facilitation together with ACED</li> <li>Guidance on curriculum development</li> <li>Lessons learnt from other regions (e.g. collaborative Ph.D. programme for Latin America)</li> </ul>	Influencer, expert and actor
ACED, SEANES	<ul style="list-style-type: none"> <li>Regional project lead</li> <li>Co-ordination of ACED and IEA meetings</li> <li>Co-ordinate and participation in stakeholder and curriculum workshop</li> </ul>	Influencer, expert and actor
Federated Societies in the region	<ul style="list-style-type: none"> <li>Collaboration on curriculum development</li> <li>Identification of interested universities and associated stakeholders</li> <li>Development and participation in participation in stakeholder and curriculum workshop</li> </ul>	Decision makers and actors
Global Societies (HFES, CIEHF)	<ul style="list-style-type: none"> <li>Guidance on curriculum development</li> <li>Capacity building (PhDs trained in USA and Europe)</li> <li>Participation in participation in stakeholder and curriculum workshop</li> </ul>	Experts
Regional universities and academics	<ul style="list-style-type: none"> <li>Local experts in curriculum needs (i.e. what are the needs for science and practice)</li> <li>Identify relevant stakeholders for implementation</li> <li>Participants in program implementation (in various capacities)</li> <li>Conducting workshops for (1) stakeholder involvement and (2) curriculum workshop</li> </ul>	Decision makers, experts and actors

# Stakeholder table - Individuals

Stakeholder Group	What is this person's role within the Project?	System actors/ experts/ decision-makers/ influencers
IEA Executive committee	<ul style="list-style-type: none"> <li>• Jose Orlando Gomes</li> </ul>	Influencer and expert
ID, PSE and SDI	<ul style="list-style-type: none"> <li>• <b>ID:</b> Anindya Ganguli, Martin Rodriguez, Paulo Antonio Barros Oliveira, Liang Ma, Jennifer Guiterrez, Chris Reid</li> <li>• <b>PSE:</b> Takeshi Ebara, Yassierli</li> <li>• <b>SDI:</b> Andrew Todd</li> </ul>	Influencer, expert and actor
ACED	<ul style="list-style-type: none"> <li>• Anindya Ganguli (convenor)</li> </ul>	Influencer, expert and actor
Federated Societies	<ul style="list-style-type: none"> <li>• CES (China), HKES (Hongkong), ISE (India), PEI (Indonesia), JES (Japan), ESK (Korea), HFEM (Malaysia), HFESP (Philippines), HFESS (Singapore), EST (Taiwan), EST (Thailand)</li> </ul>	Decision makers and actors
Global Societies	<ul style="list-style-type: none"> <li>• HFES: Chris Reid</li> <li>• CIEHF: Barry Kirby</li> </ul>	Experts
Regional universities and academics	<ul style="list-style-type: none"> <li>• Tsinghua University</li> <li>• University de La Salle</li> <li>• National University of Kyushu</li> <li>• University of Calcutta</li> </ul>	Decision makers, experts and actors

# Main stakeholders and their relationship to each other

From \ To	Stakeholder A Executive	Stakeholder B Standing committees (ID, PSE as key drivers)	Stakeholder C IEA Network and associated societies	Stakeholder D Local Universities	Stakeholder E External stakeholders
Stakeholder A Executive	Project oversight	Facilitation of project with ACED	Identify potential growth areas  Support the access to relevant stakeholders (including universities, government officials, etc)  Facilitation of program development	Identify demands (i.e. value-added topics and needs) within Asia  Identify stakeholders for implementation  Workshop implementation	External stakeholders need for stakeholder group D to implement workshop
Stakeholder B ID, PSE	Guidance on IEA core competencies and relevance to local context	Promotes IEA Education program value add and needs	Oversight	Support for curriculum development	Local needs and barriers identified
Stakeholder C IEA Networks/Societies	Curriculum development that is contextually relevant but focused on systemic nature of HFE		Coordinate regional education program development	S,T&P supports work of TCs	Support CPR work to disseminate information to societies
Stakeholder D Local Universities	Identification of local needs and stakeholders for curriculum development			Collaborative HFE Ph.D Program development for Asia	Members of TCs from F/S or A/S
Stakeholder E External stakeholders	Identification of local needs: Constraints and affordances				Key stakeholders for program initiation

# Benefits to stakeholders

- Improved knowledge and skills
- Increased HFE reach and relevance
- Increased Job opportunities
- Improved input for HFE certification
- Qualified talent pool for organizations
- “Train the Trainer” effect
- Enhanced reputation of Universities and faculty
- Enhanced technology level of the students
- Economic benefits (faculty)

# Outcomes so far

- Survey carried out among stakeholders across countries in the region to understand the current status, identify the needs, and strategic preferences
- Seven meetings of the working group held so far (last one in January 2024)
- Programme to be started at Tsinghua University, with De La Salle as a hub. Other universities and faculty (e.g. from Japan, India, and other countries) would be added step by step.
- Draft MOU exchange

# Future activities

- Signing of MOUs (some already exist, e.g. between Tsinghua and Kyushu Universities)
- Creation of inventory of collaborating Universities / Institutes and faculty
- Starting the programme

## Activity 2

# International Development Standing Committee with the PSE Standing Committee

## Development of a HFE Training Programme for Vietnam

# Why a Training Programme for Vietnam?

- Vietnam has significant HFE expertise, but the programmes carried out are not in accordance with the concepts of High Quality HFE.
- Vietnam has identified the need and desire for HFE education (currently there are no MSc or PhD programs in HFE)
- Training the trainers is a high-level project of the IEA with which this project is aligned
- Creation of the programme is likely to lead to the formation of a Vietnamese Human Factors and Ergonomics Society, and its entry into the ACED and IEA.

The development of an HFE Training Programme in Vietnam is a value-added topic for the  
IEA



# Alignment with the Strategic Policies of the IEA

- Increase stakeholder engagement (Policy 1)
- Reinforce collaboration within the regional HFE network (ACED) (Policy 2)
- Contribute to the development of science and practice of HFE in the region (Policy 3)
- To enhance the contribution IEA in promoting HFE Education (Policy 4)
- Maintain a future focus for the development of HFE in the Asia region (Policy 7)

# What are the needs?

- Need for trained HFE personnel as faculty for HFE programmes
- Creation of a pool of qualified HFE personnel for industry
- Access to regional HFE networks (ACED) and global networks (IEA)

# Outline of the project

Category	Description
Broad Outline	Growth of Human Factors and Ergonomics education programmes in Asia tailored to regional needs
Goal	Creation of a High Quality HFE Training Programme for Vietnam
Needs	<ul style="list-style-type: none"><li>• Need for trained faculty</li><li>• Need for qualified HFE personnel for industry</li></ul>
Contents	<ul style="list-style-type: none"><li>• HFE training programmes aligned to the IEA Core Competencies</li><li>• Creation of a pool of Trainers, producing a multiplier effect</li></ul>
Stakeholders	As per stakeholder table
Benefits	<ul style="list-style-type: none"><li>• Faculty trained in High Quality HFE</li><li>• Creation of a pool of qualified HFE personnel for industry</li></ul>

# Main stakeholder group table

Stakeholder Group	What is the stakeholder groups' role within the Project?	System actors/ experts/ decision-makers/ influencers
IEA Executive committee	<ul style="list-style-type: none"> <li>Project oversight</li> <li>High level stakeholder engagement</li> </ul>	Influencer and expert
ID, PSE and SDI	<ul style="list-style-type: none"> <li>Project facilitation together with ACED</li> <li>Guidance on curriculum development</li> <li>Facilitation of involvement of international faculty</li> </ul>	Influencer, expert and actor
ACED	<ul style="list-style-type: none"> <li>Regional project lead</li> <li>Co-ordination of ACED and IEA meetings</li> <li>Co-ordinate and participation in stakeholder and curriculum workshop</li> </ul>	Influencer, expert and actor
Federated Societies in the region	<ul style="list-style-type: none"> <li>Collaboration on curriculum development</li> <li>Identification of interested universities and associated stakeholders</li> <li>Development and participation in participation in stakeholder and curriculum workshop</li> </ul>	Decision makers and actors
Global Societies (HFES, CIEHF)	<ul style="list-style-type: none"> <li>Guidance on curriculum development</li> <li>Capacity building (PhDs trained in USA and Europe)</li> <li>Participation in participation in stakeholder and curriculum workshop</li> </ul>	Experts
Regional universities and academics	<ul style="list-style-type: none"> <li>Local experts in curriculum needs (i.e. what are the needs for science and practice)</li> <li>Conducting workshops for (1) stakeholder involvement and (2) curriculum workshop</li> </ul>	Decision makers, experts and actors
External Stakeholders	<ul style="list-style-type: none"> <li>National Institute of Occupational and Environmental Health, Vietnam</li> </ul>	Decision makers and actors

# Stakeholder table - Individuals

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ID, PSE and SDI	<ul style="list-style-type: none"> <li>• <b>ID:</b> Anindya Ganguli</li> <li>• <b>PSE:</b> Takeshi Ebara</li> <li>• <b>SDI:</b> Andrew Todd</li> </ul>	Influencer, expert and actor
ACED	<ul style="list-style-type: none"> <li>• Anindya Ganguli</li> <li>• Frederick Tey</li> </ul>	Influencer, expert and actor
Federated Societies	<ul style="list-style-type: none"> <li>• CES (China), ISE (India), PEI (Indonesia), JES (Japan)</li> </ul>	Decision makers and actors
External Stakeholders	<ul style="list-style-type: none"> <li>• National Institute of Occupational and Environmental Health, Vietnam</li> </ul>	Decision makers and actors

# Main stakeholders and their relationship to each other

From \ To	Stakeholder A Executive	Stakeholder B Standing committees (ID, PSE as key drivers)	Stakeholder C IEA Network and associated societies	Stakeholder D Local Universities	Stakeholder E External stakeholders
Stakeholder A Executive	Project oversight	Facilitation of project with ACED	Identify potential growth areas  Support the access to relevant stakeholders (including universities, government officials, etc)  Facilitation of program development	Identify demands (i.e. value-added topics and needs)  Identify stakeholders for implementation  Workshop implementation	External stakeholders need for stakeholder group D to implement workshop
Stakeholder B ID, PSE	Guidance on IEA core competencies and relevance to local context	Promotes IEA Education program value add and needs	Oversight	Support for curriculum development	Local needs and barriers identified
Stakeholder C IEA Networks/Societies	Curriculum development that is contextually relevant but focused on systemic nature of HFE		Coordinate regional education program development	S,T&P supports with resource persons	Entry as a FS
Stakeholder D Local Universities	Identification of local needs and stakeholders for curriculum development			High Quality HFE Training Programme for Vietnam	Members of TCs from F/S or A/S
Stakeholder E External stakeholders	Identification of local needs: Constraints and affordances				Key stakeholders for program initiation

# Benefits to stakeholders

- Improved knowledge and skills
- “Train the Trainer” effect
- Improved input for HFE certification
- Qualified talent pool for organizations
- Economic benefits (benefits of local facility)
- Increased quality of HFE practice

# Outcomes so far

- Knowledge of HFE activities and status in Vietnam
- Exploration and understanding of needs and demands



# Future activities

- Finalizing the details of Training Programme(s) – virtual and physical
- Creation of a Vietnamese Human Factors and Ergonomics Society, and its induction into ACED and IEA

# **Communications and Public Relations standing committee**

Jonathan Davy, Sadeem Qureshi, Katie Buckley, Erin Chiou, Sma Ngcamu-Tukulula, Abigail Du Plessis

Standing Committee Chair on Communications and Public Relations

Overview of 2021 – 2024 term

# What were the needs?

- IEA (and the associated TCs) did not have an active presence on social media
- During COVID, the popularity of webinars exploded – IEA needed to leverage this
- Need to show the value-add of HFE globally and continue to increase the understanding of the diverse applicability of HFE globally
- Need to reach cognate disciplines to show the mutual benefit of HFE
- Recruit, retain and mentor Early Career Researchers/practitioners and students
- Grow interest within different countries for interested persons to join federated or affiliated societies or technical committees
- Support federated IEA committees, federated societies and technical committees to promote their events, news or publications

# Purpose of the committee (at the start)

1. Improved and diversify communication with and between internal and external stakeholder groups
2. Enact and leverage the MOUs with external stakeholders through IEA executive liaisons
3. Promote and enhance the IEA's presence on and use of social media platforms to promote events and activities of the IEA and its stakeholders to demonstrate the value add of the IEA and its internal stakeholders (federated societies, networks and committees)
  - a. Promote and share high quality research and practice of HFE through the IEA webinar program and promotion of technical committee, network or federated society events.
  - b. Engage better with Early Career Community

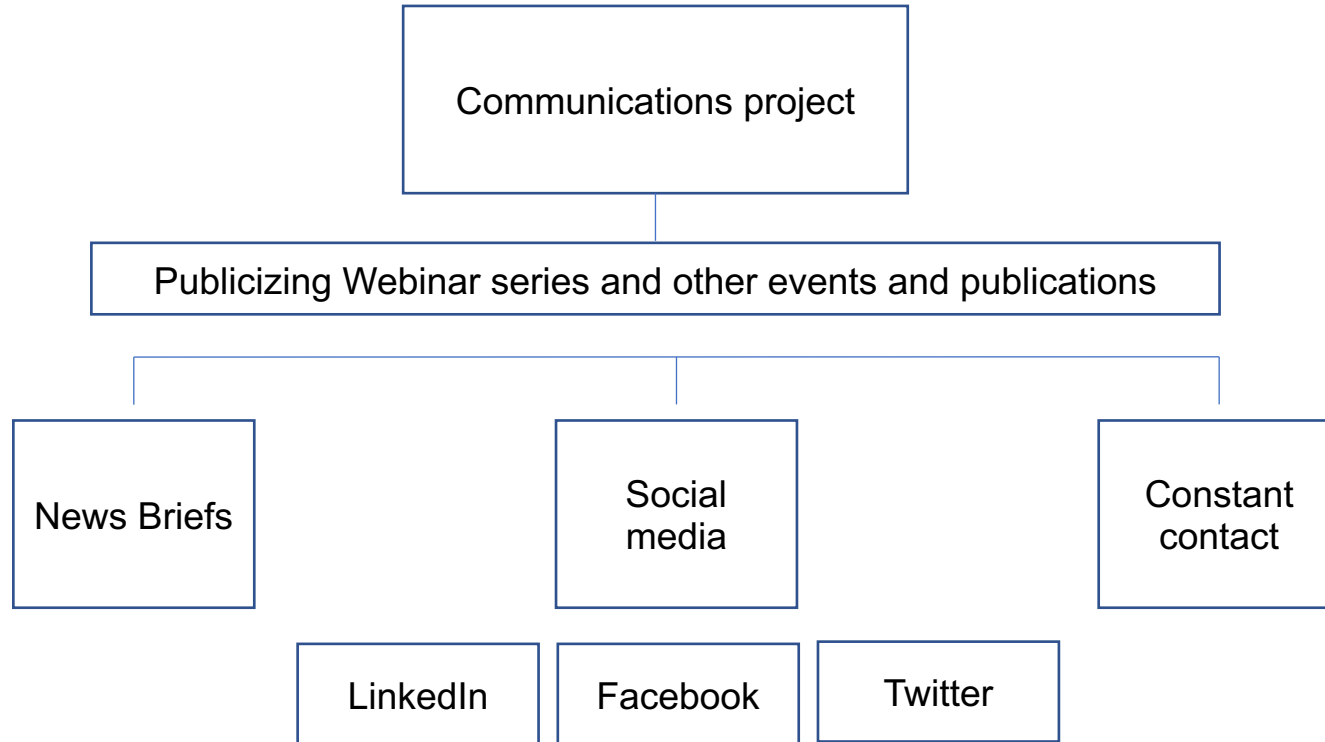
# Alignment with the Goals of the IEA (as per IEA bylaws)

To develop more effective communication with and collaboration between federated societies

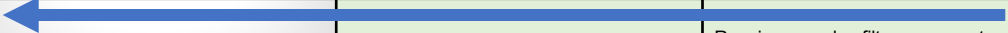
To advance the science and practice of HFE at an international level

To enhance the contribution of the HFE discipline to global society

# Project Overview and components



# IEA EC reporting of stakeholders

<div> <div>To</div> <div>From</div> </div>	<b>Stakeholder A</b>  <b>Executive</b>	<b>Stakeholder B</b>  <b>Standing committees (STP, PSE, ID, FoW, IEA Administrator)</b>	<b>Stakeholder C</b>  <b>IEA technical committees, federated &amp; affiliated societies</b>	<b>Stakeholder D</b>  <b>External stakeholders (cognate disciplines, the public, other societies and regulatory bodies, Universities)</b>
<b>Stakeholder A</b>  <b>Executive</b>	  Project oversight	Work with relevant stakeholders on program, event or publication development to ensure relevance and scientific validity and reliability	Receive and filter requests from researchers and practitioners on HFE-related topics and opportunities  Drive the development and sharing of content, publications, events, webinars, discussions, conferences, and the development of new programs	Requests to learn more about HFE research and practice.  Global trends in the FoW and the need for HFE to be integrated  Events related to HFE or of interest to HFE and IEA
<b>Stakeholder B</b>  <b>CPR, NewsBrief Ed, IEA office</b>	Support the development of appropriate on-brand advertising, while supporting online registration or promotion via NB, Social media or CC.	Promotes the dissemination of the latest science, practices, news or opportunities globally	Oversight	Support with promotion and awareness raising.
<b>Stakeholder C</b>  <b>IEA Networks/Societies/Technical Committees</b>	Through social media (LI, FB, Twitter, CC) disseminate news, events, webinars and publications		Wide dissemination of material	S,T&P supports work of TCs
<b>Stakeholder D</b>  <b>External stakeholders (cognate disciplines, the public, other societies and regulatory bodies, Universities)</b>	Recipients and contributors to content, events and publications Share it with their networks			Meet the need to understand better the value add of high quality HFE through events, publications and conferences

# Achievements

1. Improved and diversified communication with and between internal and external stakeholder groups – **Progress, particularly concerning News Briefs (added society spotlight and TC spotlight)**
2. Enact and leverage the MOUs with external stakeholders through IEA executive liaisons – **Little progress, but some new relationships and publications - KM**
3. Promote and enhance the IEA's presence on and use of social media platforms to promote events and activities of the IEA and its stakeholders to demonstrate the value add of the IEA and its internal stakeholders (federated societies, networks and committees) – **Decent progress, LinkedIn, Twitter and Facebook**
  - a. Promote and share high quality research and practice of HFE through the IEA webinar program and promotion of technical committee, network or federated society events – **Decent progress (NewsBriefs, Social Media)**
  - b. Engage better with Early Career Community – **Some progress on this but encouraged by TC activities in this regard (Healthcare TC)**



# Future activities and recommendations

- Constitute a more diverse group from across different regions of the world
- Better collaboration between other standing committees on profiling IEA activities
- Increase the rate of social media posting
- Consider purchasing business accounts for LinkedIn (increases reach)
- Vary content (more video and gif-type advertising, podcasts, interactive posts)
- Consider putting the social media manager on retainer to professionalise this aspect of our Communications project (or have a PR representative on each standing committee)
- Convene an Early Career Community TC
- Profile sustaining members more on our platforms and publications (News Briefs spotlight perhaps)
- Continued and coordinated high-level interaction and advocacy of HFE with external stakeholders

# Development of Congress Model from The Development and Promotion Committee

Executive meeting

August 2024

South-Korea Jeju

Elina Parviainen PD-Committee

# Management of Triennial Congress is a value-added topic

- ❑ Triennial Congress is valuable for IEA.
  - A flagship conference, providing opportunities, for instance:
    - ✓ to present latest technical achievements
    - ✓ to learn/exchange up-to-date HFE
    - ✓ for students and young researchers to interact with world-class professionals
    - ✓ to present the edge of HF/E that domain specialists may or may not be aware of
  - A major financial resource
- ❑ Issue: Triennial Congress can be even more valuable if it is managed more effectively.
- ❑ Project and its goal: Develop a management tool that helps to make Triennial Congress more valuable.

# Alignment with the Goals of the IEA (as per IEA bylaws)

- ❑ The Triennial Congress is a vehicle to achieve all the IEA Goals.
- ❑ **The strategic policy #6 is the main driver of developing the tool.**
- ❑ Other strategic policies except #4\* are design considerations for the management tool.

## The IEA Goals

1. To develop more effective communication with and collaboration between federated societies.
2. To advance the science and practice of HFE at an international level.
3. To enhance the contribution of the HFE discipline to global society

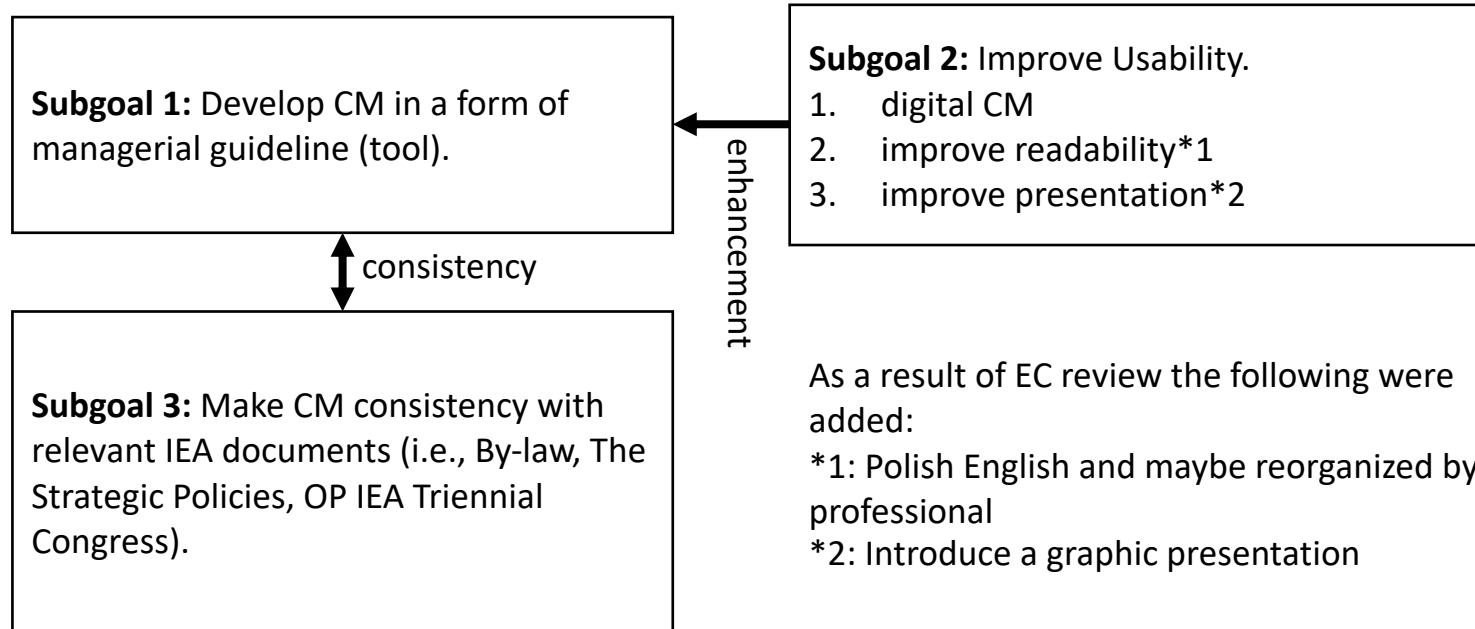
## The IEA Strategic Policies

1. Engage Stakeholders
2. Collaborate with and reinforce IEA Networks
3. Promote HFE science, technology and practice
4. Promote HFE education, certification and professional standards
5. Strengthen relationships with external partners
- 6. Reinforce the infrastructure of the Association**
7. Maintain a future focus for HFE

\* The strategic policy #4 is more relevant to contents management.

# Outline of the project (1/3) - define goals

**Top Goal:** Develop a management tool that helps to make Triennial Congress more valuable.



# What are the needs? (1/2)

- ❑ The management process of Triennial Congress should be more clearly specified.
  - ✓ OP IEA Triennial Congress is the **only procedure specified for Triennial Congress**. It only partially covers actual management process.
- ❑ **The communications between EC and Organizing Committee** (OC) should be more frequent. Currently they meet only twice a year at EC meeting.
- ❑ **Contents management** should be improved to ensure technical quality.
- ❑ **Financial management** should be improved to stabilize the surplus.

# What are the needs? (2/2) - EC Contributions

## ❑ Executive Committee (EC) should play more role.

- ✓ EC and HS/OC co-create the congress.

===

- ✓ EC communicate more closely with HS/OC

===

- ✓ EC explores new arenas for HFE (e.g., marriage with other non-HFE disciplines).
- ✓ EC explores new arenas for IEA (e.g., introduce new HFE disciplines)..
- ✓ EC initiates projects and present them at the Triennial Congress (i.e., EC sessions)

===

- ✓ more,... (considering other contributions itself is a necessary thing for EC to do  
>> for developing the future of HFE and IEA.)

# Main Stakeholders of CM Development - Individuals

Stakeholder Group	What is this person's role within the Project?	System actors/ experts/ decision-makers/ influencers
CM Core Team	<ul style="list-style-type: none"><li>• Elina Parviainen (Chair, PD Committee), project leader</li><li>• Yushi Fujita, planning , writing, and implementing</li><li>• Alexandr Volosiuk, program developer (digital CM)</li></ul>	system experts
Officers	<ul style="list-style-type: none"><li>• Jose Orlando Gomes, President</li><li>• Margaret Graf, VP &amp; Secretary General</li><li>• Thomas Alexander, VP &amp; Treasure</li></ul>	decision-makers and system actors
EC chairs	<ul style="list-style-type: none"><li>• Other committee chairs of Executive Committee, reviewing</li></ul>	system experts
OC/FC	<ul style="list-style-type: none"><li>• Myung Hwan Yun (Chair, IEA 2024 Organizing Committee)</li><li>• Ben Peachy (Chief Operating Officer, contact of IEA 2027)</li></ul>	system actors

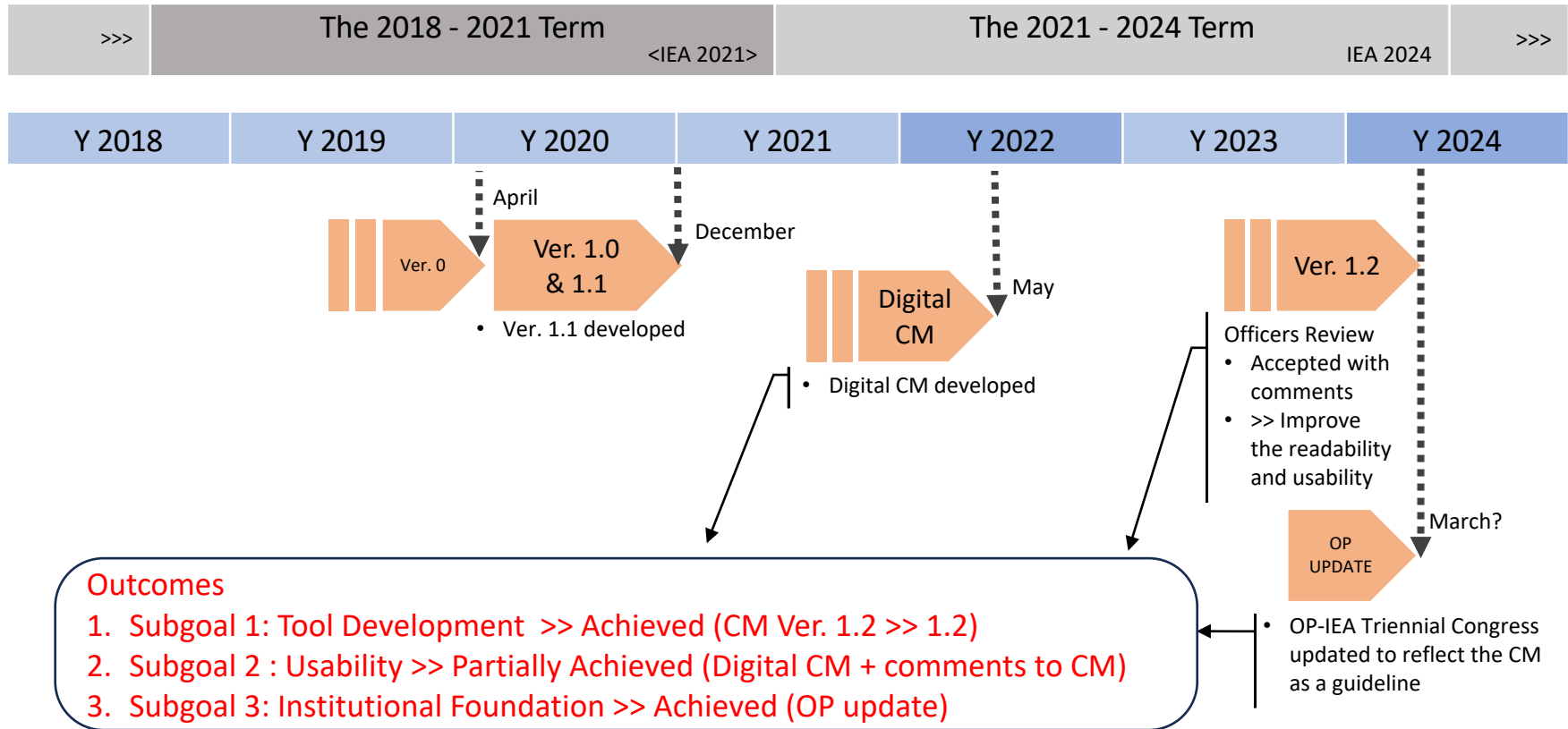
- **System influencer:** Those organizations or groups of people who have general public interest in work systems and product/service system design (governments, standards organizations, media, etc.)
- **System decision maker:** Those people who make important decisions such as requirements, procurement, purchasing, implementation, usage, maintenance, and administration of the system
- **System expert:** Those people who have specific professional backgrounds and contribute to the design of system
- **System actor:** Those people who are part of the system



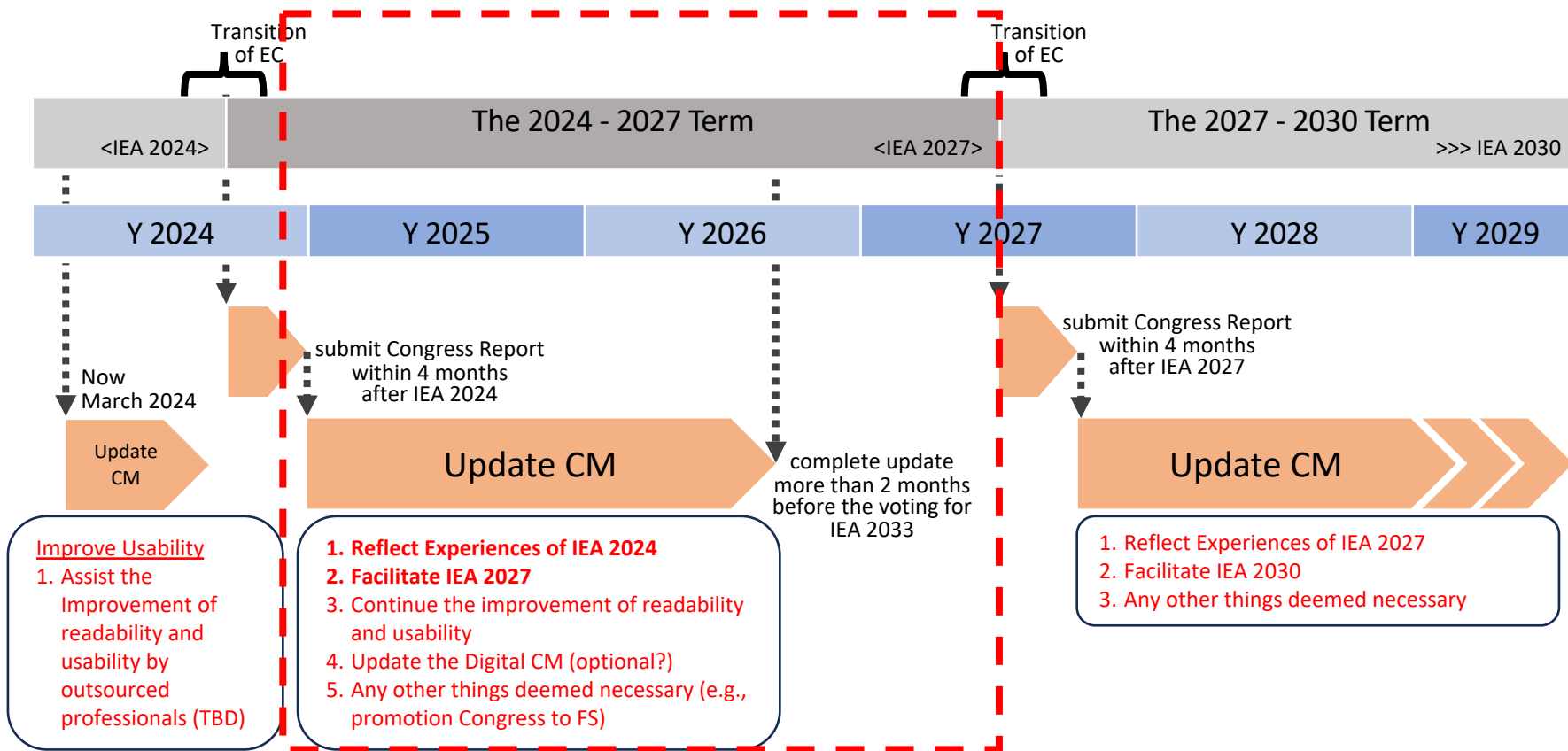
# Activities and Resources Matrix

Activity Undertaken	Societies committees involved	Hours dedicated to activities (hr) (actual)	Resources used (financial)	Outcome	Next Step
Develop Congress Model (Subgoal 1)	<ul style="list-style-type: none"> <li>✓ DPC</li> <li>✓ Officer</li> <li>✓ ESK-trial use</li> <li>✓ CIEHF-trial use</li> <li>✓ other FS-review</li> </ul>	Y 2020: 200 hr Y 2021: 50 hr Y 2022: 50 hr Y 2023: 20 hr Y 2024: TBD	none	Full CM (1 <sup>st</sup> generation model)	Update (reflect experiences, fundamental improvement,...)
Develop Digital CM (Subgoal 2)	✓ DPC	50 hrX1 person	US\$200/y? (Wiki application fee)	Easy to edit version	not yet discussed
Update OP-IEA Triennial Congress (Subgoal 3)	<ul style="list-style-type: none"> <li>✓ DPC</li> <li>✓ Officers</li> </ul>	2 hrX5 persons	none	CM and OP are made consistent	
Improve Readability and Usability (Subgoal 2)	outsourced	TBD	Estimation not yet known >> not yet budgeted	Improved CM	Estimate cost and decide to go (or not to go)

# Outcomes so far (in red)



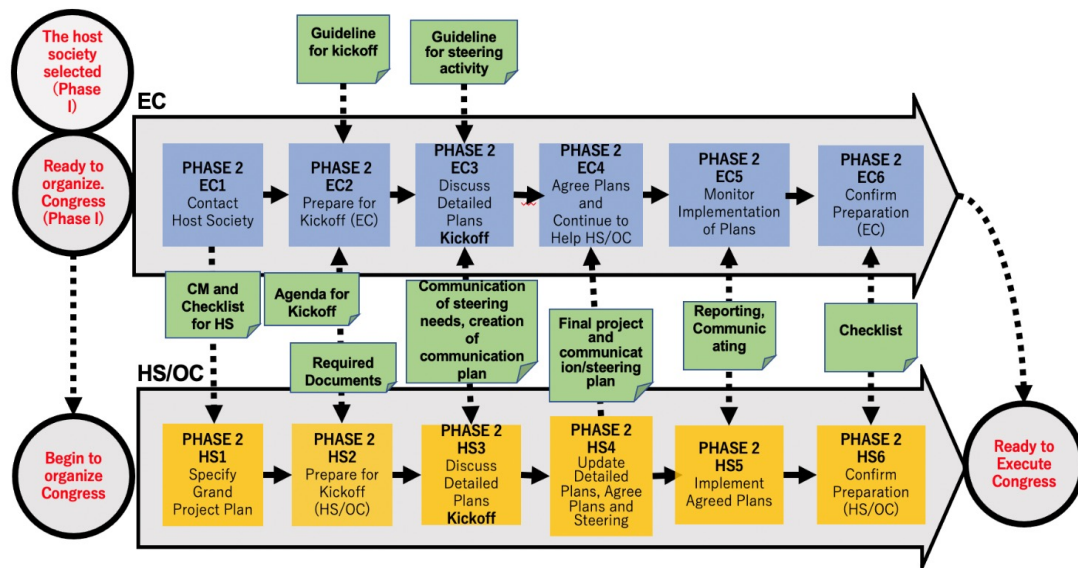
# Future activities (in red)



# Appendix: CM- Table of Contents and a PMP

## • CM Ver. 1.2 Table of Contents

- Message from the President
- Objectives
- Scope
- Users of This Document
- Chapter 1 Introduction
- Chapter 2 Overall Project Process
- Chapter 3 Important Considerations
  - ✓ 3.1 Considerations for Project Management
  - ✓ 3.2 Considerations for Contents Management
- Chapter 4 Project Management Process
  - 4.1 Phase 1: Applying for the Congress
  - 4.2 Phase 2: Organizing
  - 4.3 Phase 3: Executing the Congress
  - 4.4 Phase 4: Ending the Congress
- Appendix 1: Requirements Specified by OP-Triennial Congress (checklist)
- Appendix 2: Major Milestones
- Appendix 3: Call for Proposal Package
- Appendix 4: Orientation Package
- Appendix 5: Guidance for Organizing the Congress
- Appendix 6: Instruction Package for Drafting Triennial Congress Report



Project Management Process (PMP) for Phase 2 (Organizing Congress): EC and HS/OC follow a process defined for each while exchanging document-based communications

# Awards

## Kathleen Mosier Chair, Awards Committee

August 2024



# Project Process

- Define deadlines for nominations
- Circulate call for nominations
- Appoint co-chair (Mario Vidal) and committee chairs for awards
- Manage nomination submissions
- Select awardees – must be approved by EC
- Inform awardees
- Present certificate or plaque to awardees at Triennial Congress
  - Mail certificates to awardees who cannot attend Congress

# Main stakeholder group table

Stakeholder Group	What is the stakeholder groups' role within the Project?	System actors/ experts/ decision-makers/ influencers
IEA Executive committee	<ul style="list-style-type: none"> <li>Project oversight. Approves all awards</li> </ul>	Influencer and expert, decision maker
IEA Council	<ul style="list-style-type: none"> <li>Disseminate information about awards to society members</li> </ul>	Influencer, system actor, and expert
Member Societies	<ul style="list-style-type: none"> <li>Submit nominations for colleagues who are deserving of awards. Makes sure candidates match the requirements</li> </ul>	System actors/experts/decision makers
Sponsors (external)	<ul style="list-style-type: none"> <li>Fund the awards and sometimes provide honoraria for the selection committee members</li> <li>May participate in awardee selection (e.g., IEA/John Wilson; IEA/Tsinghua)</li> <li>Present the award at the Triennial Congress</li> </ul>	System actors/ influencers
Fellows	<ul style="list-style-type: none"> <li>Evaluate nominations for IEA Fellow and vote on candidates</li> </ul>	Experts/ decision makers
Reviewers	<ul style="list-style-type: none"> <li>Evaluate nomination packages for awards</li> </ul>	Experts/ decision makers

q	EC and Awards Committee	Council	Member Societies	Sponsors	Reviewers including Fellows
EC and Awards Committee		EC gives information to Council	EC expects information to be disseminated to member societies	Work closely to monitor awards processes – nominations and selections	EC (Awards Chair and Co-Chair) selects reviewers.
Council	Council works with EC to advertise awards within societies and submit nominations		Council disseminates information to member societies	Council approves awards and sponsors	Reviewers may be recommended by Council members
Member Societies	Member Societies provide nominations; selections will be approved by EC	Member societies rely on Council members to provide information about awards in a timely fashion		Member societies encourage sponsors	Reviewers are usually from member societies
Sponsors	Sponsors work with EC to define awards. Officers and sponsors sign MOUs or contracts for awards	Sponsors may be solicited by Council Members.	Sponsors are often part of or found by member societies (e.g., CES and IEA/Tsinghua and IEA/Kingfar awards)		Sponsors are supporting reviewers with honoraria
Reviewers including Fellows	Reviewer selections are examined and approved by EC	Reviewers may be Council members	Reviewers are typically from member societies	Sponsors support reviews and may approve selections	



# Benefits to stakeholders

- Prestige
- Acknowledgement
- Monetary award
- Promotion of HFE across the globe
- Benefit of society membership
- Advertisement/publicity for sponsors

# Triennial Awards

IEA Triennial Award	2024	Recipients	Country
Outstanding Educator	2024	Dr. Denny Yu	USA
IEA President's Award	2024	Prof. Juan Carlos Velásquez	Colombia
IEA John Wilson Award	2024	Dr. Tarcisio Saurin	Brazil
Promotion of HFE in IDCs	2024	Prof. Alireza Choobineh	Iran

Award Title	Year	Recipients	Country
Thomas R. Waters	2024	Rahul Narasimhan	USA
The K.U. Smith Student Award	2024	Soomin Hyun	Korea
	2024	Kaitlyn Dallas	USA
	2024	Samaneh Norouzi	Iran

## IEA Fellows

Year	Recipients	
2024	Dr. Caroline Cao	United States
2024	Dr. Chia-Fen (Christine) Chi	Taiwan
2024	Prof. Eui S. Jung	Korea
2024	Prof. Wei Zhang	China
2024	Prof. Dr. Ing. Neri Dos Santos	Brazil
2024	Dr. Carlos Espejo	Mexico
2024	Dr. Francisco Fialho	Brazil
2024	Dr. Sean Gallagher	USA
2024	Annie Weill-Fassina	France
2023	Dr. Max Anibal Hermosa Lanao	Peru
2023	Dr. Ken Catchpole	United Kingdom
2023	Dr. Alma Marie Jennifer Gutierrez	Philippines
2023	Dr. Karen Messing	France
2023	Dr. Paulina Hernandez Albrecht	Chile
2023	Dr. João Alberto Camarotto	Brazil
2023	Dr. Helenice Jane Cote Gil Coury	Brazil
2023	Dr. Kermit Davis	USA
2023	Dr. Hongwei Hsiao	USA
2023	Dr. Marcelo Marcio Soares	Brazil
2022	Dr. Robert Fox	USA
2022	Dr. Paulo Antonio Oliveira	Brazil
2022	Dr. Isabella Steffan	Italy
2022	Dr. Margo Fraser	Canada
2022	Dr. Karen Jacobs	USA
2022	Dr. Ronald McLeod	United Kingdom
2022	Dr. Wei Xu	China

# IEA/Tsinghua Award

IEA/Tsinghua Award	2024	Attending	Recipients	Country
	2024	Y	Dr. Alan HS Chan	China
	2023	Y*	Dr. Fiona Trevelyan* & Dr. Liz Ashby	New Zealand
	2023	Y	Dr. Pradip Kumar Ray & Dr. Denny Yu	India & USA
	2023	Y	DR. Paulo Antonio Oliveira	Brazil
	2023	N	Dr. Eduardo Ferro	Brazil
	2022	Y	Dr. Rauf Iqbal	India
	2022	N	Dr. Tarcisio Abreu Saurin	Brazil
	2022	N	Dr. Ting Li	China

# IEA/Kingfar Students

2024	Y	Mingming Li	China
	Y	Ezekiel Bernardo	Philippines
	N	Italo Rodeghiero Neto	Brazil
	N	Claudia Maria Dias Guerra Disconzi	Brazil
	N	Lucas Gomes Miranda Bispo	Brazil
2023	Y	Hiroyuki Kuraoka	Japan
	?	Subhankar Banerjee	India
	?	Yotar Sahar	Israel
	?	Caarlos Galindo	Peru
2022	Y	C. Vigneshkumar	India
	?	Yidan Dong	China
	?	Jiawei Fu	China
	?	May Jorella Lazaro	South Korea
	Advisor?	Akram Sadat Jafari Roodbandi	Iran
YEAR?	Y	Dandan Hou	China

# IEA/Kingfar ECR

<b>2024</b>	<b>Y</b>	<b>Geetashree Bori</b>	<b>India</b>
	<b>Y</b>	<b>Dr. Yaqin Cao</b>	<b>China</b>
	<b>Y</b>	<b>Dr. Peng Liu</b>	<b>China</b>
	<b>Y</b>	<b>Dr. Farzan Sasangohar</b>	<b>USA</b>
	<b>N</b>	<b>Dr. Mark Schall</b>	<b>USA</b>
<b>2023</b>	<b>Y</b>	<b>Dr. Stephven Kolose</b>	<b>New Zealand</b>
	<b>Y</b>	<b>Dr. Jonathan Davy</b>	<b>South Africa</b>
	<b>N</b>	<b>Dr. Augustine Acquah</b>	<b>South Africa</b>
	<b>N</b>	<b>Dr. Daniel Moura</b>	<b>Brazil</b>
	<b>N</b>	<b>Prof. Júlio César Bispo Neves</b>	<b>Brazil</b>
<b>2022</b>	<b>Y</b>	<b>Dr. Gabriela Garcia</b>	<b>Ecuador</b>
	<b>Y</b>	<b>Dr. Carlos Aceves Gonzalez</b>	<b>Mexico</b>
	<b>N</b>	<b>Dr. Tingru Zhang</b>	<b>China</b>
	<b>N</b>	<b>Dr. Michael Greig</b>	<b>Canada</b>
	<b>N</b>	<b>Dr. Lakhwinder Pal Singh</b>	<b>India</b>

# Future activities

- Increasing number of awards and applications needs monitoring
- Fellow awards – rethink process?
- Triennial awards – few applications. Rethink process?

# Outreach and Collaboration - ILO and WHO

- Communication and collaboration with UN agencies
- Need HFE Champions within the agencies
- Need to work on equal basis
- Need coordination and effort from IEA



# Outline of the project

## ILO

- *Review document - HFE and Manual Handling at the Workplace*
- Intended to form resource for ILO as they create new Standards and Recommendations around HFE in the workplace

## WHO

- *HFE Applied to Patient Safety*
- Help WHO to disseminate and promote across the globe
- Intended to be WHO resource for global members

# Main stakeholder group table

Stakeholder Group	What is the stakeholder groups' role within the Project?	System actors/ experts/ decision-makers/ influencers
IEA Executive committee	<ul style="list-style-type: none"> <li>Project oversight.</li> </ul>	Influencer and expert, decision maker
IEA Council	<ul style="list-style-type: none"> <li>Disseminate information about activities and publications to society members</li> </ul>	Influencers and experts
Member Societies	<ul style="list-style-type: none"> <li>Contribute to writing and review</li> </ul>	System actors/experts/decision makers
ILO	<ul style="list-style-type: none"> <li>Funds and guides creation of documents according to ILO requirements</li> </ul>	Experts/System actors/ influencers
WHO	<ul style="list-style-type: none"> <li>Guides creation of materials according to WHO requirements</li> <li>Works with IEA via 3-year collaborative agreements</li> </ul>	Experts/ system actors/ decision makers
Global stakeholders – users of the materials	<ul style="list-style-type: none"> <li>Use and benefit from materials</li> </ul>	System actors

# Stakeholder table - Individuals

Stakeholder Group	What is this person's role within the Project?	System actors/ experts/ decision-makers/ influencers
Kathleen Mosier	<ul style="list-style-type: none"> <li>Coordinates collaborations with ILO and WHO</li> </ul>	Influencer and expert
Shengli Liu	<ul style="list-style-type: none"> <li>Coordinates and contributes to ILO projects</li> </ul>	System actor/decision maker/influencer
Neelam Dhingra (Nikhil Gupta)	<ul style="list-style-type: none"> <li>Coordinates WHO projects</li> </ul>	System actor/decision maker/influencer
Contributors and reviewers	<ul style="list-style-type: none"> <li>Many IEA society members contributed to documents by writing or reviewing</li> </ul>	System actors/ Experts
IEA Officers	<ul style="list-style-type: none"> <li>Oversee and provide feedback</li> <li>Fund some parts of collaboration</li> </ul>	System actors/ decision makers
Scientific Advisors (WHO)	<ul style="list-style-type: none"> <li>Lead WHO project</li> </ul>	System actors/ experts/ decision-makers

To: From:	IEA Executive Committee	Council	Member Societies	ILO/WHO	Users of Materials
<b>IEA Executive Committee</b>		EC disseminates information to Council and solicits volunteers for these collaborative projects	EC expects information to be disseminated to member societies to access appropriate participants in the projects.	ILO and WHO solicit collaboration through the IEA EC. Both are UN agencies. Many requirements are the same for both, but the agencies operate differently. ILO for example supports activities with funding; WHO relies on value of association	Members of IEA Societies have access to materials as automatic benefit of membership. Other users
<b>Council</b>	EC members identify and manage external outreach and present MOUs to Council for approval		Council disseminates information to member societies. Members benefit from our relationships with UN agencies.	ILO and WHO engage Council members through EC. UN representatives attend IEA Congress	Council members are users and also disseminate materials to societies
<b>Member Societies</b>	EC serves as an opportunity provider for members to participate in UN collaborations and as a resource for member societies	Council disseminates information to member societies. Members benefit from our relationships with UN agencies.		Writers and reviewers come from member societies	Member societies are users and also disseminate materials to their members
<b>ILO/WHO</b>	EC leads and manages relationships with UN organizations	Council serves as interface between UN agencies and member societies	Member societies benefit from affiliation (through IEA) with UN organizations		Users see products of collaborations as benefits of UN and/or IEA membership
<b>Users of materials</b>	EC identifies dissemination path for materials, advertises them on the website.	Council members advertise the products of our collaborations to societies	Member societies disseminate documents to their own members, who disseminate it to others	These are the ILO and WHO member beneficiaries of the jointly produced products.	

# Benefits to stakeholders

- Promotion of HFE at highest global level
  - Importance of documents/information that comes from UN agencies
  - IEA benefits from high-level collaboration
- 
- Acknowledgement
  - Promotion of HFE across the globe
  - Benefit of society membership

# Outcomes so far

## ILO

*Review document - HFE and Manual Handling at the Workplace*

Published jointly by ILO and IEA

Available on our website

Intended to form resource for ILO as they create new Standards and Recommendations around HFE in the workplace

## WHO

*HFE Applied to Patient Safety*

*Current draft under review at WHO*

*Case Studies – completed – would like IEA to publish so they can be disseminated*

*PPT video – Introduction to HFE and patient safety – not started yet*

# Future activities

- Shengli Niu is interested in future collaborations between IEA and ILO
- WHO document by June, 2024
- IEA Press document by June, 2024
- Hope to finish WHO projects by the end of this collaborative agreement (2025)

# Activity Report from Advisory Group on Standardization

August 23rd 2024





# Organization

- Chair
  - Shin'ichi Fukuzumi (JP) : ISOTC159SC4 Liaison
- Members
  - Dr. Peter Nickel (DE) : ISOTC159SC1 Liaison
  - Prof. Anindya Ganguli (IN),
  - Prof. Edwin Yap (SIN) : ISOTC159SC5 Liaison
  - Prof. Ronggang ZHOU (CN)
  - Dr. Manoela Lahoz (BR)
  - Dr. Yushi Fujita (JP)
- IEA president (Prof. Jose Orlando Gomes): ISOTC159 Liaison

# The role / mission of Advisory Group on Standardization

- To contribute to the spread and development of ergonomics and human factors internationally,
  - a. Playing a role of Category-A liaison with ISO TC159
    1. Assign liaison person with each Sub committee in ISO TC159 and submit some comments for documents and new work items through liaison persons' discussion
    2. By submitting any comments as IEA continuously, appeal IEA's contributions.

# The role / mission of Advisory Group on Standardization

- To contribute to the spread and development of ergonomics and human factors internationally,
  - b. Contribution to ISO TC159 as a Category-A Liaison Spread knowledge of International Standards to IEA stakeholders (FS, AS, Networks)
    - 1. HFE standardization at IEA 2027 and some events by IEA Networks (e.g. ULAERGO, ACED)
    - 2. International Standardization means not only ISO TC159 but also the other organizations (e.g. ISO/IEC JTC1 SC7)
  - c. Co-hosting events related to HFE standardization with external stakeholders (e.g. HFES, JES)
    - a. Cooperate with IEA internal/ external stakeholders about promotion of standardizations

# Stakeholders Identified

Stakeholder	Stakeholder's role	Category	
		influencer - actor	individual - global
AGS committee	Promotion	Decision maker / influencer	individual
FS/AS/Networks	Provide opportunities for promotion (IEA2027, ULAERGO, ACED, etc.)	actor	Regional
The external stakeholders	Co-work for promotion	expert	Global /National
TC159	Make standards about HFE	expert	global
Other standardization Organizations	Make standards about HFE in related area	expert	global
...			
...			
...			

# Identify potential benefits

Stakeholder	Potential benefits	Considerations
AGS committee	Contribute to the spread and development of ergonomics and human factors internationally	Human resource
FS/AS/Networks	Get knowledge about international standards related HFE	Planning and arranging events
The external stakeholders	Spread community by collaborate with internationally large organization like IEA	Planning and arranging events
TC159	Get useful comments from HFE professional not related national body opinion	Human resource, The way to collect comments and information
Other standardization Organizations	Get useful comments from HFE professional not related national body opinion	Building a community

# Activities

- About the role of ISO TC159 Category-A liaison, assigned some liaison persons.
- We planned events at IEA2024 and in these events, current topics in ISO TC159, the other HFE related standardization theme and standardization activities in non-HFE area will be introduced.
- For developing area (SOCIERGO and ACED), AGS introduced recent topics about HFE standardizations
- Contact to HFES and will have a panel session at the next HFES2024 at Phenix
-

# Specify project proposals

## Needs and goals

- Needs:
  - ✓ To promote HFE through standardization, it is necessary for all stakeholders to know activities of ISO TC159.
  - ✓ To promote HFE standardization for IEA stakeholders (FS, AS, Networks), it is necessary to arrange attractive theme in these congress.
  - ✓ To collaborate with other stakeholders about promotion of HFE related standards, it is necessary for us to decide clear goal.
- Goals:
  - ✓ Familiarize participants (mostly alien to standards) with international standardization.
  - ✓ Obtain a hint for IEA to understand what IEA should do to promote HFE through standardization activities.

# Three-Year Plan

- To contribute to the spread and development of ergonomics and human factors internationally, we start three projects shown below and progress them.
1. Submit some documents to ISO TC159 from IEA
    - To Play a role of Category-A liaison with ISO TC159, we carry out the following items.
      - Assign liaison persons for SC3 and WG2 and register all liaison persons (not only SC3 and WG2 but also other SCs') to SC members
      - They are given the right to make comments for ballot documents (of course, it is difficult only for us to make comments for the documents, we have to recruit persons who collaborate this activity)
      - After discussing the comments within AGS members, submit these comments to SC as CDR (Comment Disposition Report) documents by IEA
      - Through discussions, find theme for new standards and submit New Work Item Proposal (NWIP) documents



# Three-Year Plan (continue)

2. Transmitting information and gathering needs about international standardization related to HFE
  - To Spread knowledge of International Standards (not only ISO TC159 activities but also the other related standardizations) to IEA stakeholders (FS, AS, Networks), we carry out the following items.
    - Organize event related HFE standardization in IEA2027 (see above)
    - In this event, introduce some kinds of standards related HFE
    - Require IEA Networks to have opportunity to introduce International Standardization activities and collect their needs and requirements about HFE standards
    - To contact the other stakeholders related HFE standardizations, use TC159 liaison community

# Three-Year Plan (continue)

## 3. Formulation of collaboration strategy with the other stakeholders

- To Cooperate with IEA external stakeholders about promotion of standardizations, we carry out the following items.
  - Join panel session in HFES2024 and talk about AGS activities
  - Organize session related HFE standardization to HCII 2025 (how to attract participants? Because many of standardization members are not researchers, it is difficult for them to attend academic conference)

# Outcomes and Future Activities

	2024	2025	2026	2027	.....2030
Submit some documents to ISO TC159 from IEA	Explain AGS activities to TC159 plenary and each SC plenary				----->
	Make comments for TC159 documents				----->
Transmitting information and gathering needs about international standardization related to HFE	IEA2024 ----->	TC159 plenary ▽	detail plan ▽	UK ☆	IEA2030 ----->
	IEA2027 ----->	ULAERGO, ACED, etc.. ----->			----->
Formulation of collaboration strategy with the other stakeholders	HFES2024 ----->	HCI2025 ----->	HFES2026 Promote IEA2027 ----->		

# Activities and Resources Matrix (2024.8-2027.8)

Activity undertaken	Societies/committees involved	Hours dedicated to activity	Resources used	Outcome
Negotiation with representatives of ISO	-ISO TC159 -ISO TC159/each SC	2 days discussion with TC159 chair and SC4 convener by Face-to-face	Meeting with them in Europe (twice times) • Fukuzumi: USD4,000.00 (air fare) • President (airfare and accommodation)	<ul style="list-style-type: none"> <li>✓ Invite keynote speakers</li> <li>✓ Arrange joint meeting in IEA2027</li> <li>✓ Submit comments and feedback</li> </ul>
		Each half day discussion with SC1, SC3, SC5 convener by on-line	• None (online)	<ul style="list-style-type: none"> <li>✓ Submit comments and feedback</li> </ul>
Negotiation with collaborators	HFES, ABERGO, CES, ULAERGO, JES	1 day panel session in HFES2024 For the other stakeholder, nothing to decide.	Join the HFES in USA • Fukuzumi: USD2,000.00 (air fare) • About ULAERGO or so, we don't know how much cost do we need.	<ul style="list-style-type: none"> <li>✓ Decide collaboration theme</li> <li>✓ Input ISO information to stakeholders</li> </ul>
Discussion with OC of IEA 2027	UK	2 days X 2 persons	meeting with OC in London: • Fukuzumi: USD200.00 (air fare) • President (airfare and accommodation)	<ul style="list-style-type: none"> <li>• Understanding of UK bodies achieved</li> <li>• A preliminary plan fixed</li> </ul>
Discussion within AGS	IEA AGS	2 hours X 2 times	• None	<ul style="list-style-type: none"> <li>• Event program</li> </ul>

# Future of Work

Prof. Andrew Thatcher

University of the Witwatersrand, Johannesburg

Prof. Wei Zhang

Tsinghua University



# Aims of the Future of Work Committee

- Establishment of a Task Force with regional representatives. Help direct other aspects of the programme (**after initial consultations, deemed not feasible**).
- 2022-2023 Webinar series. Webinars by prominent E/HF community members and emerging E/HF community members. Regional representation. (**ongoing, scheduled to complete, January 2024**)
- 2023 Webinar series. Webinars by prominent E/HF industry stakeholders (e.g., ILO, EU Beyond Work, etc.) (**advanced planning failed due to lack of response**)
- 2023-2024 Opinion piece production. Consolidate the webinar presentations into short opinion pieces. Compiled into a single discussion document to be distributed to federated societies and networks. (**roundtable at ULAERGO/SOCHERGO 2023, formal presentation at ACED 2023, two roundtables with ESSA 2024**)
- 2023-2024 Special Issue production. A Special Issue of a journal (e.g., Ergonomics, Applied Ergonomics, or Human Factors) curated by Andrew Thatcher and Wei Zhang. (**Special Issue being planned for Applied Ergonomics**)

# Webinar series

WEBINAR 1 (17/08/2022): Prof. Tim Bentley (established researcher, Australia) and Dr Nicola Green (emerging researcher, New Zealand) - “State of science: the future of work – ergonomics and human factors contributions to the field.” – Remote technologies  
(<https://www.youtube.com/watch?v=XSnvugEQKBg>)

WEBINAR 2 (02/12/2022): Prof. Wei Zhang (established researcher, China) and Prof. Liang Ma (emerging researcher, China) – “The challenges for HFE from the future of work: the experience from China.” – Gig work, home delivery, AI  
(<https://www.youtube.com/watch?v=yZcVQBkMvIY>)

WEBINAR 3 (16/02/2023): Prof. Rosemary Seva (established researcher, The Philippines) and Dr Shanqing Yin (emerging practitioner, Singapore) - “HFE perspectives on the future of work from South-East Asia.” - Skills emigration  
(<https://www.youtube.com/watch?v=mOwMxybZQDU&t=20s>)

WEBINAR 4 (15/03/2023): Dr Jari Kaivo-oja (established researcher, Finland) and Dr Arto Reiman (emerging researcher, Finland) – “HFE perspectives in manufacturing when adopting new Industry 4.0 technologies.” – HFE is reactive rather than proactive  
(<https://www.youtube.com/watch?v=SCOMryFYj5w>)

# Webinar series

WEBINAR 5 (24/04/2023): Prof. Verena Nitsch (established researcher, Germany) and Dr Anita Tisch (emerging researcher, Germany) - “HFE perspectives on the future of work from Central Europe.” – work digitalisation, aging workforce, immigration  
(<https://www.youtube.com/watch?v=5ZqMsqVWTmo>)

WEBINAR 6 (10/05/2023): Mr Andrew Todd (established researcher, South Africa) and Dr Augustine Acquah (emerging researcher, Ghana) – “HFE perspectives on the future of work from Africa” – informal work, physical work, skills emigration  
(<https://www.youtube.com/watch?v=Lk7rM4YinwQ>)

WEBINAR 7 (28/06/2023): Prof. Paul Salmon – “Artificial General Intelligence: challenges for the future of work” (<https://www.youtube.com/watch?v=5scYlqlK8-U&t=6s>)

WEBINAR 8 (20/07/2023): Dr Mica Endsley – “HFE perspectives on Human-Artificial Intelligence Teaming and the future of work”  
([https://www.youtube.com/watch?v=Uu32ky\\_Z4yE](https://www.youtube.com/watch?v=Uu32ky_Z4yE))

WEBINAR 9 (29/08/2023): Mr Nigel Heaton (established practitioner, UK) and Mr Rob Becker (emerging practitioner) – “The future of work and the challenges for HFE from the UK perspective” AI to replace skills deficits. ([https://www.youtube.com/watch?v=D4S\\_irU5b\\_A](https://www.youtube.com/watch?v=D4S_irU5b_A))



# Webinar series

WEBINAR 10 (05/09/2023): Prof. Taezoon Park (established researcher, South Korea) and Hong-In Cheng (established researcher, South Korea) – “The future of work and the challenges for HFE from South Korea”. (<https://www.youtube.com/watch?v=4ebuZEXrOhg>)

WEBINAR 11 (28/09/2023): Somnath Gangopadhyay (established researcher, India) and Urmi Salve (emerging researcher, India) – “HFE perspectives on the future of work from India”. (<https://www.youtube.com/watch?v=Ee4zhPGAQU0>)

WEBINAR 12 (31/10/2023): Paulo Antonio Barros Oliveira (established practitioner, Brazil) and Daniel Braatz (emerging researcher, Brazil) – “HFE perspectives on the future of work from Brazil”. ([https://www.youtube.com/watch?v=1u6nztmJ8eM&list=PLWSizg6-Bdu7y6Cy56fluSKyCG7Ujp\\_ks](https://www.youtube.com/watch?v=1u6nztmJ8eM&list=PLWSizg6-Bdu7y6Cy56fluSKyCG7Ujp_ks))

WEBINAR 13 (16/11/2023): Hongwei Hsiao (established researcher, USA) and Gary Roth (emerging researcher, USA) – “HFE perspectives on the future of work from the USA”. (<https://www.youtube.com/watch?v=l8jOBNNjzPY&t=1s>)

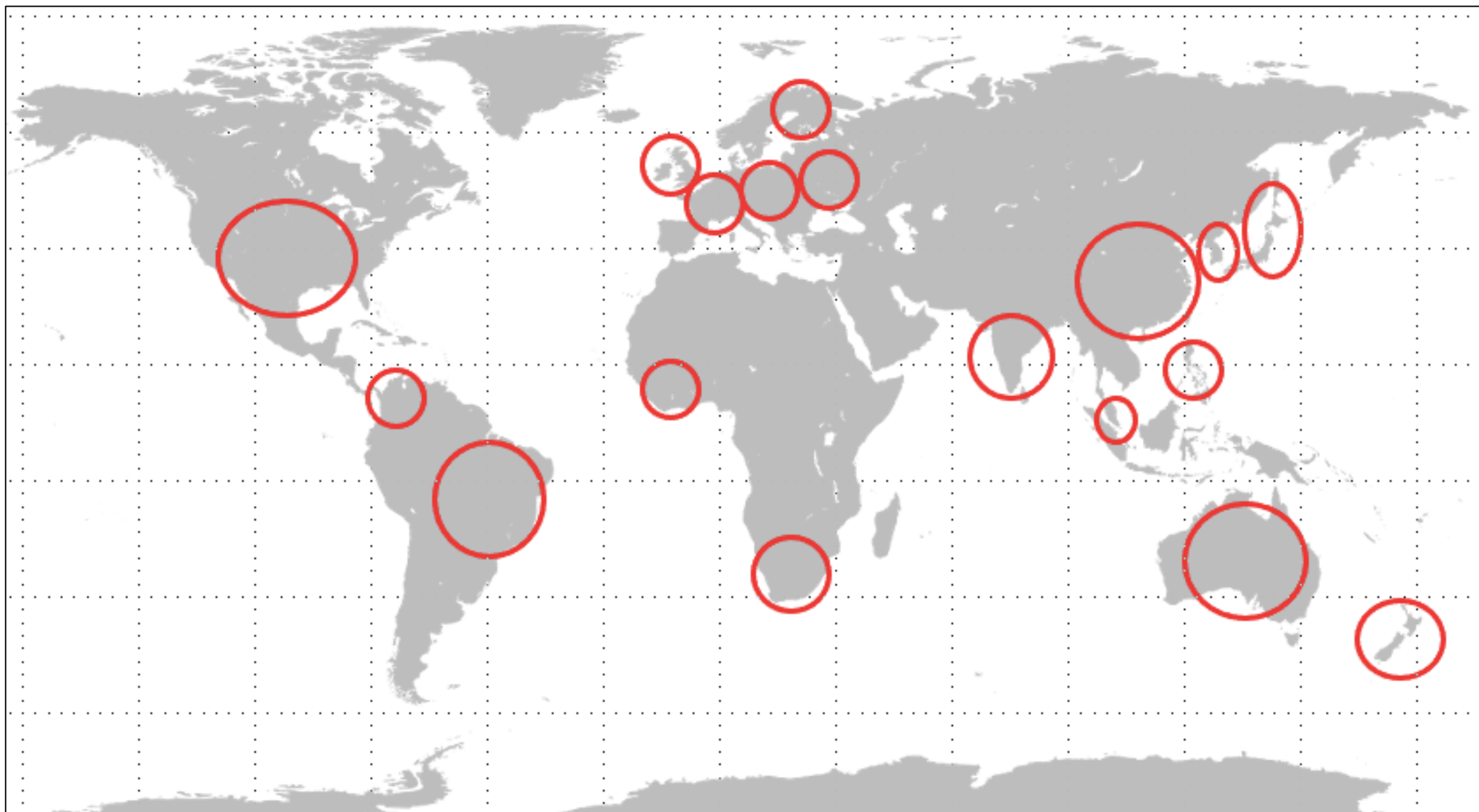
WEBINAR 14 (28/02/2024): Maasaki Mochimaru (Established researcher, Japan) and Yoshiko Yagi (emerging researcher, Japan) – “HFE perspectives on the future of work from Japan”. (<https://www.youtube.com/watch?v=jJnccrL6xsQ>)

# Webinar series

WEBINAR 15 (17/04/2024): Agnès Aublet-Cuvelier (established researcher, France) and Fabien Coutarel (established researcher, France) – “HFE perspectives on the future of work from France”. (<https://www.youtube.com/watch?v=ZdeJoEdaKJY&t=31s>)

WEBINAR 16 (15/05/2024): Yordan Rodriguez (established researcher, Colombia) and Yaniel Torres (emerging researcher, Colombia) – “HFE perspectives on the future of work from Colombia”. (<https://www.youtube.com/watch?v=9Cmg4ldCNkE>)

WEBINAR 17 (18/06/2024): Beata Mgrugalska (established researcher, Poland) and Elena Boatca (emerging researcher, Romania) – “HFE perspectives on the future of work from Eastern Europe”. ([https://www.youtube.com/watch?v=\\_Y026zhBGoA&t=4s](https://www.youtube.com/watch?v=_Y026zhBGoA&t=4s))



	Date	Country/ies	Time (UTC/GMT)	Day	Attendee N	Registrat. N	YouTube views
1	17/08/2022	Australia / New Zealand	08h00	Wed	--	--	258
2	02/12/2022	China	09h00	Fri	--	--	456
3	16/02/2023	Philippines / Singapore	11h00	Thur	44	108	269
4	15/03/2023	Finland	13h00	Wed	23	62	150
5	24/04/2023	Germany	09h30	Mon	28	100	144
6	10/05/2023	South Africa / Ghana	10h00	Wed	42	72	114
7	29/08/2023	United Kingdom	11h00	Tues	50	124	132
8	05/09/2023	South Korea	09h00	Tues	14	43	73
9	28/09/2023	India	13h00	Thur	38	100	107
10	31/10/2023	Brazil	13h00	Tues	19	59	73
11	16/11/2023	United States	15h00	Thur	22	54	59
12	28/02/2024	Japan	09h30	Wed	14	39	125
13	17/04/2024	France	13h00	Wed	42	126	93
14	15/05/2024	Colombia	14h00	Wed	52	166	61
15	18/06/2024	Poland / Bulgaria	10h00	Tues	22	--	73

	Date	Speakers	Time (UTC/ GMT)	Day	Attendee N	Registrat. N	YouTube views
1	28/06/2023	Paul Salmon (Australia); HFESA	08h00	Wed	113	279	299
2	20/07/2023	Mica Endsley (United States); HFES	13h00	Thur	132	287	277

# Communication

## **Panel discussion (ULAERGO in Santiago)**

Jono Davy (South Africa), Nancy Black (Canada), and Matias Donoso (Chile)

## **Presentation (HWWE/ACED in Mumbai)**

“Geography, politics and the future of work: Challenges for human factors and ergonomics from around the World.”

## **Panel discussions (ESSA in Johannesburg and Cape Town)**

Harold Gaze (South Africa), Caren du Preez (South Africa), Bulelwa Huna (South Africa), Norman Khoza (South Africa), Simphiwe Mabhele (South Africa), Myung Hwan Yun (South Korea), Orlando Gomes (Brazil), Anindya Ganguli (India), Shin-Ichi Fukuzumi (Japan), Jono Davy (South Africa), and Sma Ngcamu-Tukulula (South Africa)

## **FOW workshop (IEA 2024 in Jeju)**

Tuesday 27 August, Samda A, EC3 (3<sup>rd</sup> Floor)

## **Special issue (Applied Ergonomics: “E/HF for a Sustainable, Resilient, Human-Centered Future”)**

“Ergonomics/human factors and the future of work: A global systems perspective”

From \ To	Stakeholder-A Executive	Stakeholder-B Standing committees (STP, PSE as key drivers)	Stakeholder-C IEA Network and associated societies	Stakeholder-D Local Universities	Stakeholder-E External stakeholders
Stakeholder-A Executive	Project oversight, webinar infrastructure	Identifying future of work topics and potential speakers	Identify potential topics Identify relevant speakers Help promote webinars	Provide suggestions and framework for future of work through publication/s and discussion panels at local conferences	Develop shared frameworks for tackling future emergent problems
Stakeholder-B STP, PSE, CPR	Develop CPD accreditation CPR assists with promotion	Identifies future topics to prepare profession through STP and PSE	Provide suggestions and oversight	Support for topic and professional development	
Stakeholder-C IEA Networks, Societies	Continually invite discussion of new and emerging topics that are contextually relevant		Continue discussions of the future of work through own society/network	STP supports work through TCs PSE supports work through accreditation bodies	Local contextual needs and barriers identified
Stakeholder-D Local Universities and professionals	Identifying local needs that require teaching or research			Journal publication on the future of work	Local contextual needs and barriers identified
Stakeholder-E External stakeholders	Identification of global trends				Outreach and engagement

# Recommendations

- Future of work will continue to be an evolving topic
- FoW has created a framework for systemically analysing the important factors (needs to devolve down to individual member societies or network)
- Suggest that the future of work relates to examination of separate topics (e.g., technology, skills, informalization, climate change)
- Integrate this work into the STP



# Report on IEA Infrastructure Development

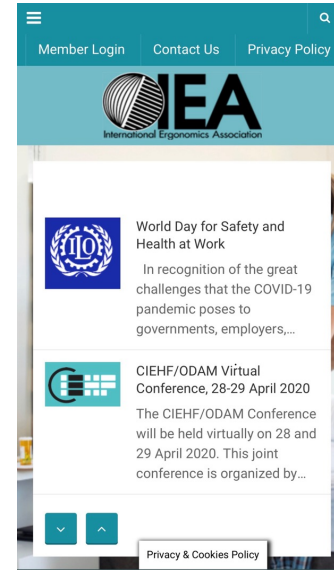
T. Kawai from ICT Ad Hoc Committee

August 2024



# Project Outline

- Current website was launched on March 29, 2020.



Initial home screens for PC (left) and mobile device (right)

# Project Outline

- Basic technical details

PHP, Javascript, HTML5, mysql

Apache server with nginx

Weekly backup schedule

Security measure by daily scan

- Basic design concepts

Proper information flow

Navigation for easy searching

Responsive web frame

Simpler home for PC and mobile

# Project Outline

- ICT Ad Hoc Committee from 2021 to 2024

Takashi Kawai (Chair)

Maggie Graf (VPSG)

Aleksandra Gamper (Administrator)

Kian Leong (Web Developer)

Collaborating with DPSC and Corporate Image team

# Project Outline

- Roles of ICT Ad Hoc Committee

To manage ICT as IEA Infrastructure

To facilitate the use of the IEA website

To support collaboration on IEA projects

To disseminate IEA activities and brand image

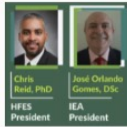
→ **Website redesign and enhancement**

# Website Redesign

[Member Login](#)[Contact Us](#)[Privacy Policy](#)[About](#)[Member Societies & Networks](#)[Events](#)[News](#)[Awards](#)[Partnerships](#)**Ver. 2022**

## Congress news

With many countries starting to ease Covid-19 restrictions, a number of federated societies have recommenced organising...



## Fireside Chat Webinar

The Human Factors and Ergonomics Society of the USA is one of the biggest members of the IEA. We co-hosted a webinar...

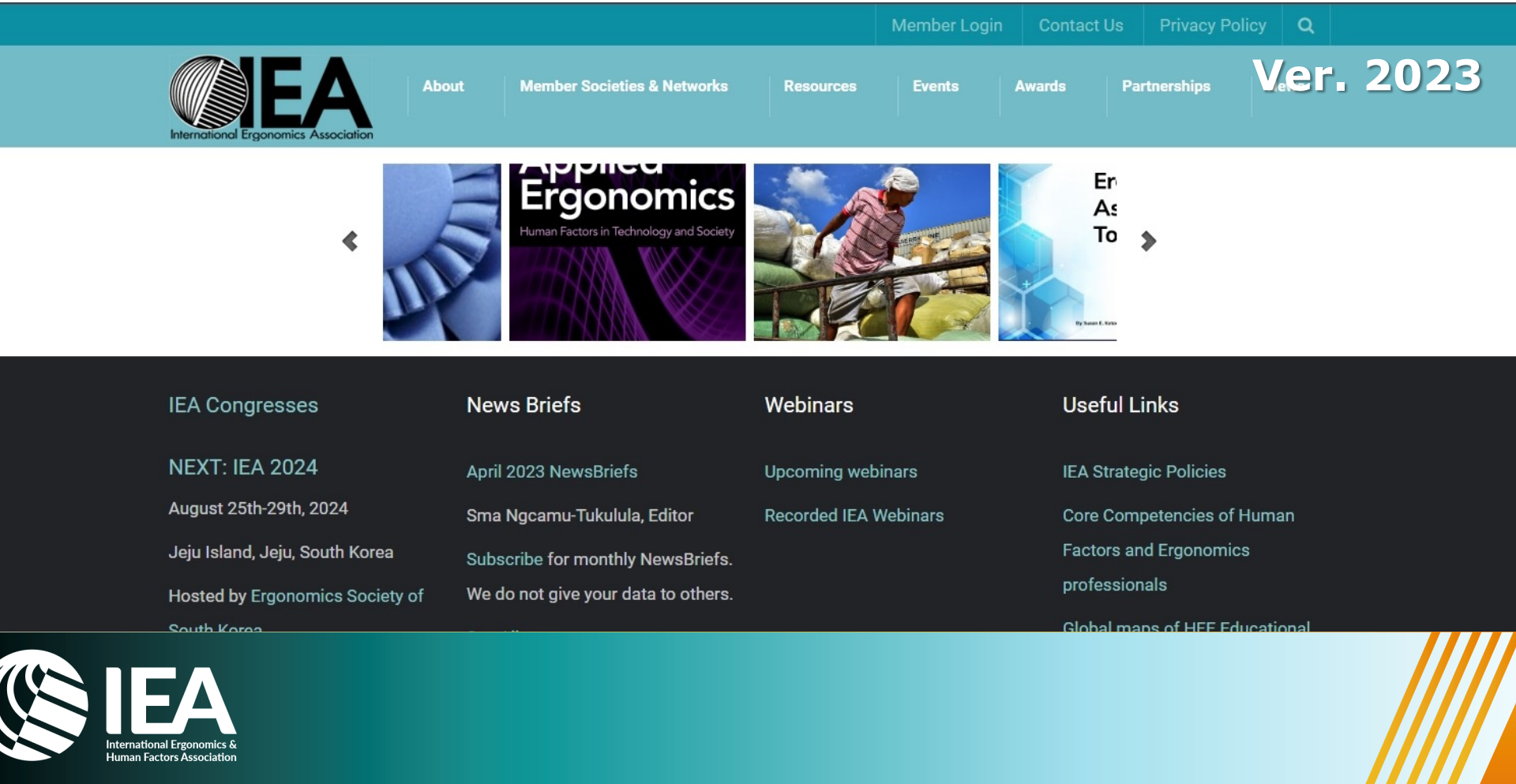


## IEA Webinar on Exoskeletons

This webinar included presentations by researchers and a designer-manufacturer. It gives an



# Website Redesign



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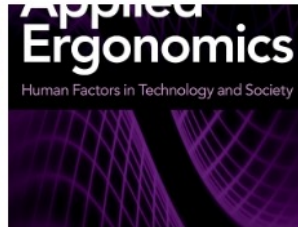
[Resources](#)

[Events](#)

[Awards](#)

[Partnerships](#)

**Ver. 2023**



## IEA Congresses

### NEXT: IEA 2024

August 25th-29th, 2024

Jeju Island, Jeju, South Korea

Hosted by Ergonomics Society of  
South Korea

## News Briefs

### April 2023 NewsBriefs

Sma Ngcamu-Tukulula, Editor

[Subscribe for monthly NewsBriefs.](#)

We do not give your data to others.

## Webinars

### Upcoming webinars

### Recorded IEA Webinars

## Useful Links

### IEA Strategic Policies

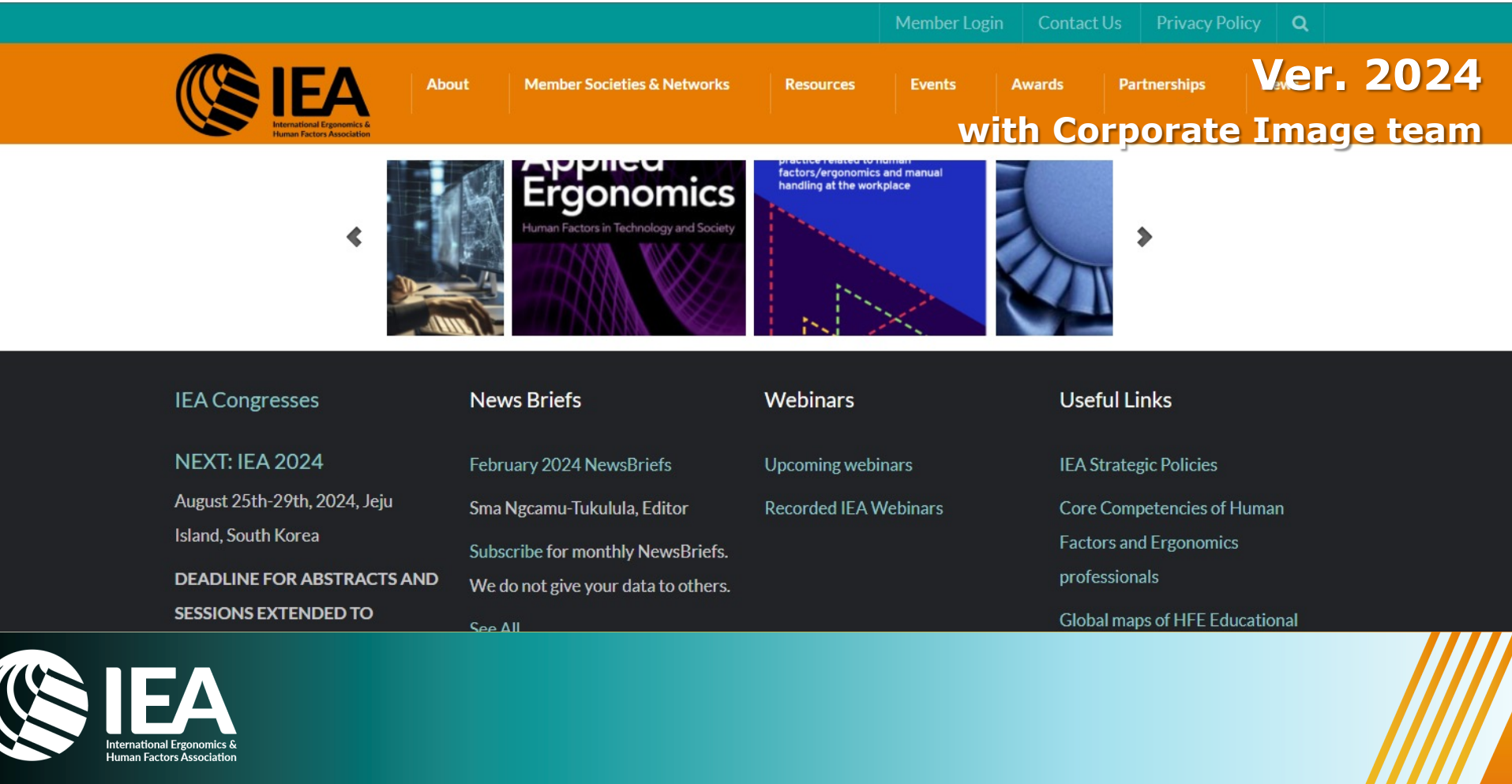
### Core Competencies of Human

### Factors and Ergonomics

### professionals

### Global maps of HFE Educational

# Website Redesign





# Website Enhancement



IEA Congress Model

[Register](#) [Log In](#)

[Recent Changes](#) [Media Manager](#) [Sitemap](#)

2022  
by DPSC

Trace: • [The IEA Triennial Congress Model](#)

## Congress Model

- 1. Introduction
- 2. Overall Project Process
- 3. Important Considerations ▶
- 4. Project Management Process
  - 4.1 Applying for the Congress ▶
  - 4.2 Organizing the Congress ▶
  - 4.3 Executing the Congress ▶
  - 4.4 Ending the Congress ▶
- App.1 OP Checklist
- App.2 Major Milestones

## The IEA Triennial Congress Model

### ▼ Message from the IEA President

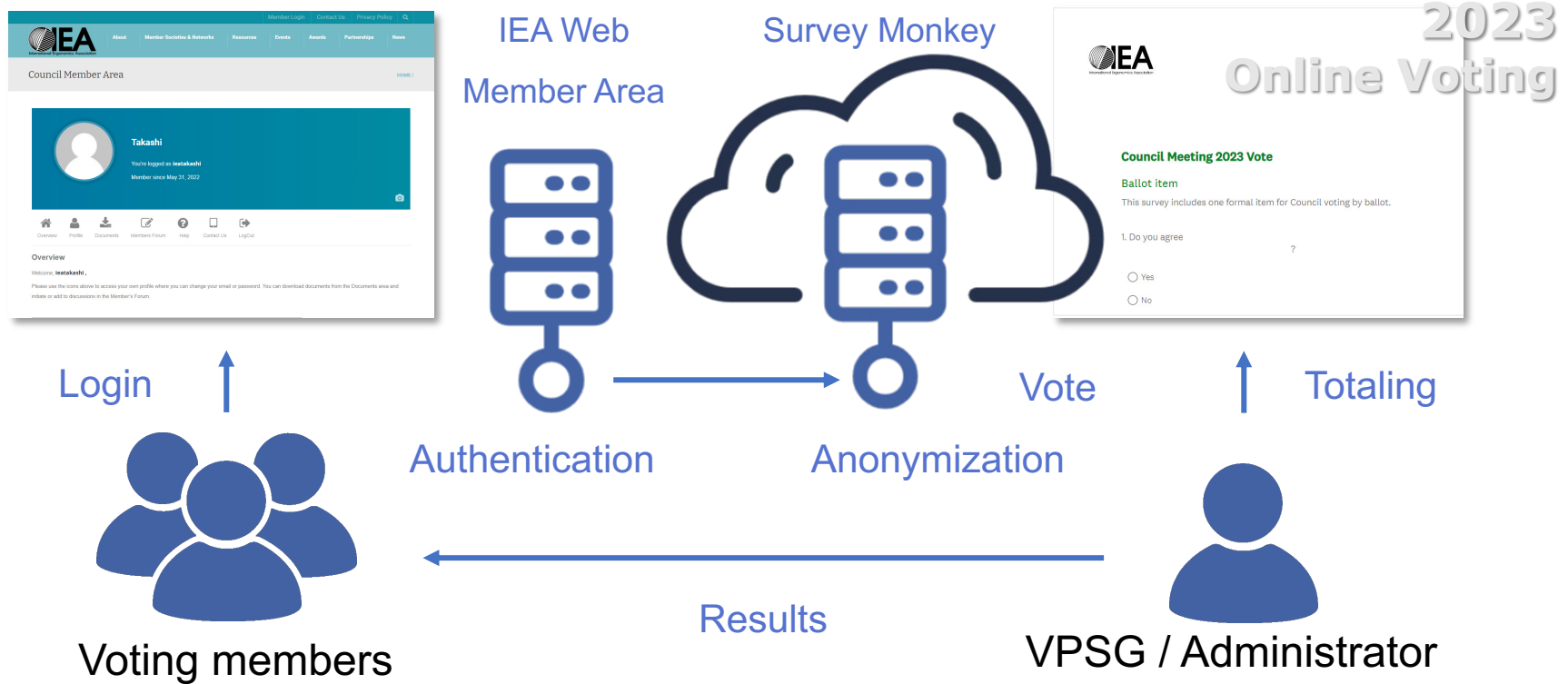
### ^ Objectives

The IEA Triennial Congress Model (CM) is a managerial tool which is designed to improve the quality of the IEA Triennial Congress (Congress) in terms of administrative and technical qualities. The CM helps the IEA Executive Committee (EC) to provide full support to the Host Society (HS) and the Organizing Committee of Congress (OC) based on their knowledges, experiences, and visions. The CM helps HS/OC to plan, organize, and execute the Congress in line with established requirements/guidelines and visions shared with EC. The CM accomplishes this based on a process management approach.

### ▼ Table of Contents ^

- ♦ The IEA Triennial Congress Model
  - ♦ Message from the IEA President
  - ♦ Objectives
  - ♦ Scope
  - ♦ Users of This Document
- ♦ Discussion

# Website Enhancement



# Website Enhancement



## IEA Congresses

NEXT: IEA 2024

**NOW ACCEPTING ABSTRACTS**

August 25th-29th, 2024

Jeju Island, Jeju, South Korea

## News Briefs

September 2023 NewsBriefs

Sma Ngcamu-Tukulula, Editor

Subscribe for monthly NewsBriefs.

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See All

## Webinars

Upcoming webinars

Recorded IEA Webinars

## Useful Links

IEA Strategic Policies

Core Competencies of Human  
Factors and Ergonomics  
professionals

Global maps of HFE Educational

# Summary

- Outlines the three-year project of the IEA website
- Redesign with Corporate Image team is still ongoing.
- Enhancement of member area requires further improvements.
- Electronic voting procedure is supported by the by-laws.

→ **Enhancement of linkage with IEA 2024, as well as with webinars and social networking sites.**

Thank you for your kind attentions!

**T. Kawai from ICT Ad Hoc Committee**

August 2024



# Strategic Development and Implementation Report

**Andrew Todd**

IEA Council Meeting

24-25 August 2024

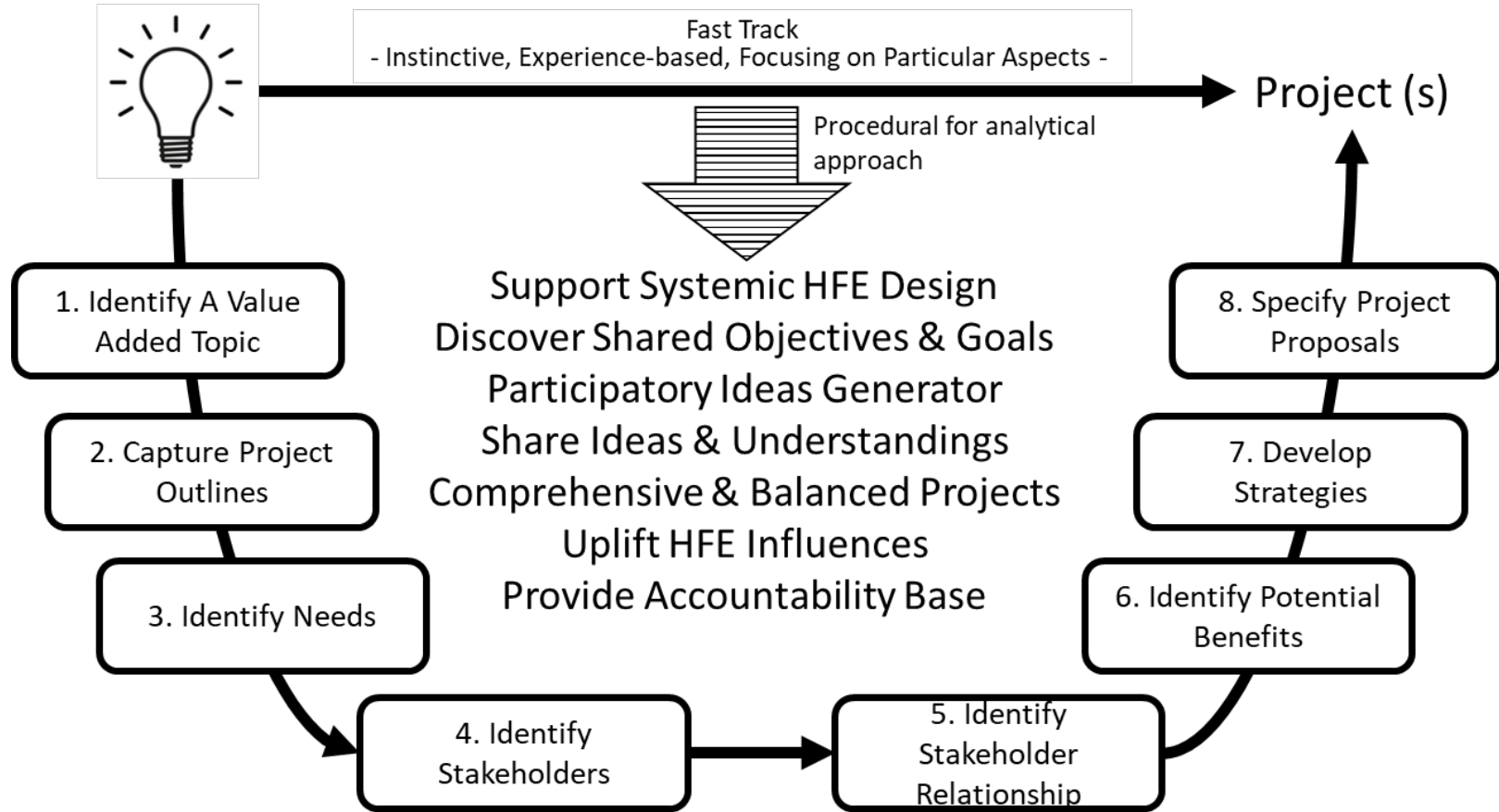
Jeju Island, South Korea



# Purpose of Strategic Development and Implementation

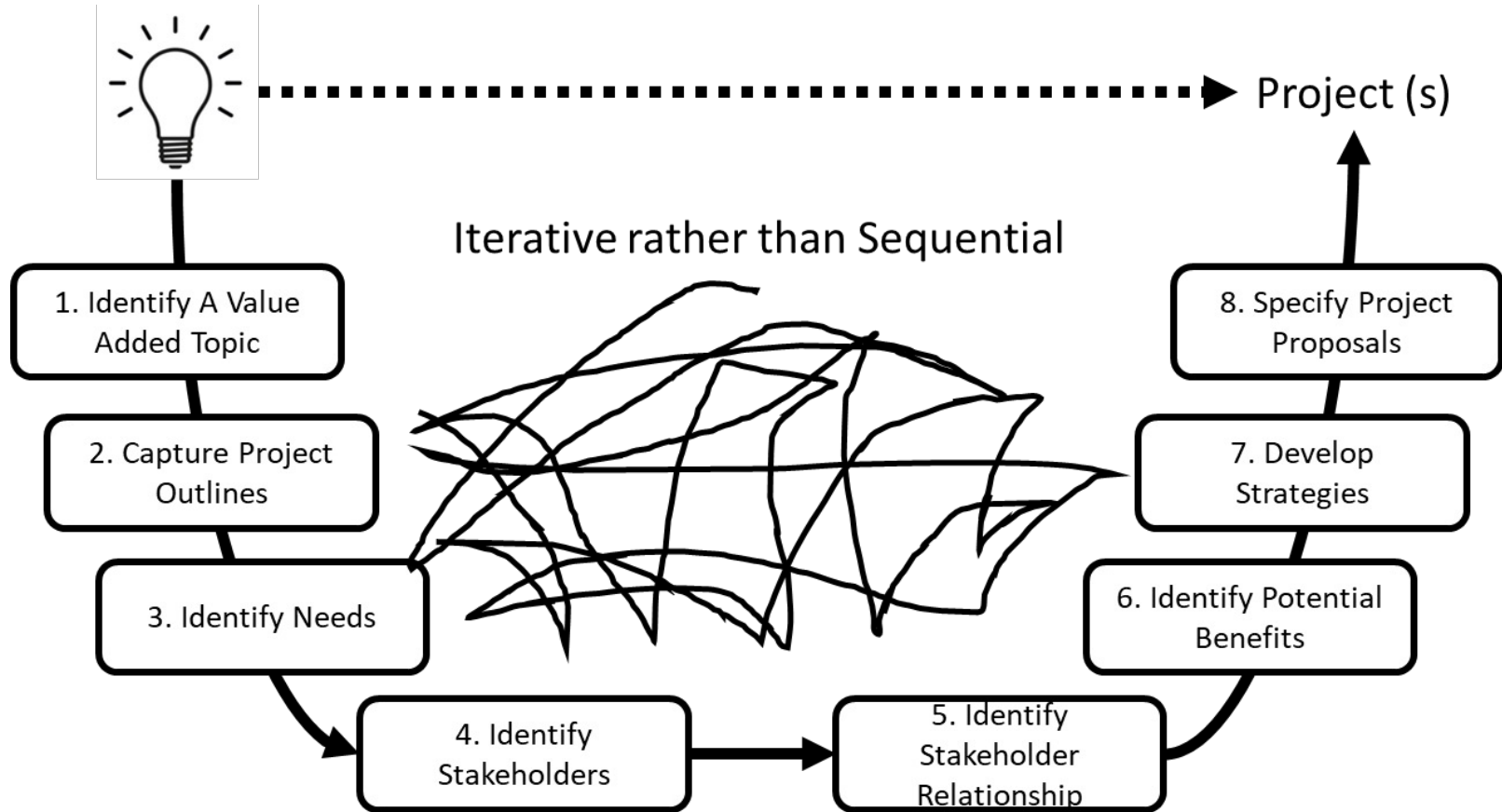
- Implement the IEA 7 strategic policies in a systemic and integrated manner
- Reduce:
  - Silo approach
  - Ad-hoc and short duration/repetition of projects
- Improve:
  - Alignment of IEA activities with policies
  - IEA Council understanding of IEA activities
  - Sustainability of projects between EC terms

# The Approach: Participatory Project Design Toolkit (P<sup>2</sup>DT)





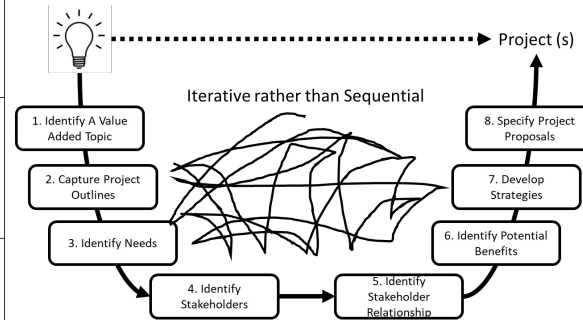
# The Approach: Participatory Project Design Toolkit (P<sup>2</sup>DT)



# New reporting structure

- Clear delineation needs, stakeholders and resultant projects

Category	Description
Broad Outline	Development of abilities of HFE practitioners in industry to address designing solutions for Industry 4.0.
Goal	<ul style="list-style-type: none"> <li>• Developing "hands-on training" tool kit for HFE personnel/practitioners</li> <li>• The aim is to eventually disseminate and implement the tool kit into HFE communities to share output/experience with the federated societies of IEA, as a model case of practical training on HFE responding to new core competencies.</li> </ul>
Needs	<ul style="list-style-type: none"> <li>• Need for acquiring new HFE competencies (Education + Experience) responding to disruptive technology in the Industry 4.0/Society 5.0 era.</li> <li>• Need for HFE implementation skills for providing solutions based on systems approach and activity theory</li> <li>• Need for acquiring a back-casting method given interactions between human and system components to design solutions.</li> </ul>
Contents	<ul style="list-style-type: none"> <li>• Providing theoretical background of systems approach and activity theory</li> <li>• Training experience that can identify needs, analyse the problems, and build design solutions working in the real-world using core competency skills. Education teaches skills but experience brings competence in using those skills. The tool intends to acquire the experience that aligns with each component of the revised core competencies.</li> <li>• Acquiring back-casting methods to disseminate and implement HFE solutions. Collaborating with stakeholders and exchanging ideas to identify the issues or development technologies to achieve the desired future and then implement recommendations to optimize human well-being and performance.</li> </ul>
Stakeholders	As per stakeholder table
Benefits	Fulfillments of all the needs identified above can lead to improving core competencies of personnel/practitioners/professionals of HFE



Stakeholder Group	What is the stakeholder groups' role within the Project?	System role	Level
STP Executive	<ul style="list-style-type: none"> <li>• Meeting organizer, chair</li> <li>• Plan meeting agenda, contents</li> <li>• Present IEA and Executive activities supporting TCs</li> <li>• Post meeting minutes &amp; recording on Slack STP-TC channel</li> </ul>	System actors/ Experts; global	Global
TC Chairs / co-chairs	<ul style="list-style-type: none"> <li>• Prepare semi-annual report of activities</li> <li>• Attend: learn and share concerns, questions, suggestions</li> <li>• Follow up from meetings (listen to recordings; ask for IEA support efficiently)</li> </ul>	System actors	Global
IEA secretariat	<ul style="list-style-type: none"> <li>• Ensure meeting timing and date available; record date</li> <li>• Define and share Zoom link</li> <li>• Share recording for posting</li> </ul>	System actors	Global
CPR Committee	<ul style="list-style-type: none"> <li>• Share key updates to global community (social media, NewsBriefs)</li> </ul>	System actors / influencers	Global
Member societies	<ul style="list-style-type: none"> <li>• Encourage members' participation in TCs</li> <li>• Approve (written) &amp; Support TC events (publicity) when in their country / region</li> </ul>	System influencer	National

# Example - IEA education project:

- Dul et al. (2012) - lack of high-quality educational programs and consequent lack of knowledge of the value of HFE was a significant barrier
- Need: Long-term project to
  - Build local capacity (Engage globally, connect regionally, act locally)
  - Improve and develop new education programs
- How:
  - Integration across IEA standing committees
  - With IEA affiliated and federated societies and networks
  - With internal and external stakeholders specific to regional needs as identified with P<sup>2</sup>DT

# An emergent concern - Society numbers

- Good growth in certain parts of the world and decline in others:
- Recommended that the IEA explore in detail:
  - society membership trajectories,
  - engage with stakeholders to understand reasons for growth or decline in numbers
  - understand what the value-add is for all stakeholders (ergonomics in a nutshell?)
  - development of sustainable, collaborative long term growth projects

# Outcomes:

- Integration of IEA 7 policies into our activities
- Integration of standing committee activities
- Appointment of regional co-chairs for standing committees
- Development of new education programs
- New reporting structure – It takes many hands to make HFE grow

# Way forward:

- IEA is dynamic and variable
- IEA components (e.g. federated societies) are dynamic and variable
- Performance is an emergent characteristic of a complex socio-technical system and should be treated as such



(Progress Report #9)

# 22nd Congress of International Ergonomics Association

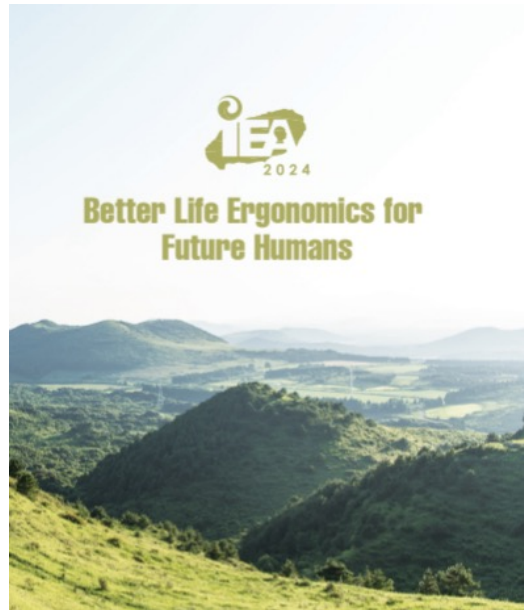
Jointly with  
INCOSE HSI WG  
(Human Systems Integration Working Group)

25–29th August 2024 | ICC, JEJU, KOREA

2024 08. 23.

Myung Hwan Yun  
Chair, Organizing Committee







# Key Numbers (as of Aug 16th)

Registration	Session
Paid Registration : 1186 Free Registration : 208 Online : 198 * INCOSE	Regular Session : 560 Special Session : 345 (as Paper) Poster : 245  Total : 1150 Papers  Sessions : 106 SP : 109 Total : 215 session (excl EC & TC sessions)

- EasyChair System
- 1<sup>st</sup> round 149  
(Manual Review)
- 2<sup>nd</sup> Round  
EasyChair Review

8/25 Sun, 8/26 Mon.

Date	Room	6F	5F		4F				3F								2F	
	Time	Foyer	Tamna	Ocean View	401A	401B	402A (Offline)	402B (Offline)	Halla A	Halla B	Samda A	Samda B	301	302	303A	303B	202A	202B
August 25 (Sun)	Registration 15:00 -																	
	17:00 - 19:00			IEA Welcome Reception														
August 26 (Mon)	Registration 08:00 -																	
	08:30 - 10:00						Panel Discussion 1	CES - ED1	Transport 1	UI/UX 1	A.I. 1	VR/AR/ Metaverse 1	SYM 1	Panel Discussion 3	Workshop 2		Visual 1	Others 1
	Break 10:00 - 10:15																	
	10:15 - 11:45				Workshop 1	Panel Discussion 2	SYM 2	CES - ED2	Transport 2	SYM 4	A.I. 2	VR/AR/ Metaverse 2	UI/UX 2	Panel Discussion 5	SYM 3	Panel Discussion 6	Visual 2	SYM 5
	Lunch 11:45 - 13:15																	
	13:15 - 14:45				Workshop 3	Panel Discussion 7	SYM 7	CES - ED3	Transport 3	UI/UX 3	A.I. 3	VR/AR/ Metaverse 3		Product 1	Panel Discussion 9	SYM 6	DHM 1	Workshop 4
	Break 14:45 - 15:00																	
	15:00 - 16:30		Opening Ceremony & Keynote 1															
	Break 16:30 - 16:45																	
	16:45 - 18:15	Poster 1			SYM 9	SYM 18	SYM 10	CES - ED4	Transport 4	UI/UX 4	A.I. 4	VR/AR/ Metaverse 4	SYM 8	Product 2	IJIE Board Meeting	Panel Discussion 10	DHM 2	Aging 1
	18:30 - 19:30			INCOSE ISI Reception 18:15-20:00													Gender & Work TC meeting	Certification Board meeting

8/27 Tue.

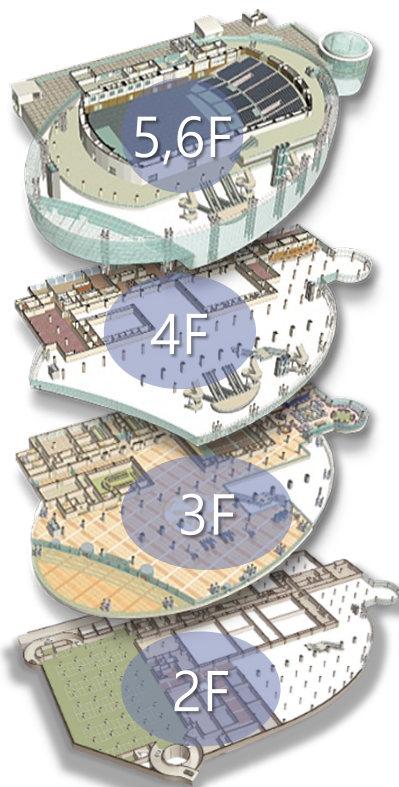
		Room		6F		5F		4F				3F								2F	
Date	Time	Foyer	Tamna	Ocean View	401A	401B	402A (Offline)	402B (Offline)	Halla A	Halla B	Samda A	Samda B	301	302	303A	303B	202A	202B			
August 25 (Sun)	Registration 15:00 -																				
	17:00 - 19:00			IEA Welcome Reception																	
August 26 (Mon)	Registration 08:00 -																				
	08:30 - 10:00						Panel Discussion 1	CES - ED1	Transport 1	UI/UX 1	A.I. 1	VR/AR/ Metaverse 1	SYM 1	Panel Discussion 3	Workshop 2		Visual 1	Others 1			
	Break 10:00 - 10:15																				
	10:15 - 11:45						Workshop 1	Panel Discussion 2	SYM 2	CES - ED2	Transport 2	SYM 4	A.I. 2	VR/AR/ Metaverse 2	UI/UX 2	Panel Discussion 5	SYM 3	Panel Discussion 6	Visual 2	SYM 5	
	Lunch 11:45 - 13:15																				
	13:15 - 14:45				Workshop 3	Panel Discussion 7	SYM 7	CES - ED3	Transport 3	UI/UX 3	A.I. 3	VR/AR/ Metaverse 3		Product 1	Panel Discussion 9	SYM 6	DHM 1	Workshop 4			
	Break 14:45 - 15:00																				
	15:00 - 16:30		Opening Ceremony & Keynote 1																		
	Break 16:30 - 16:45																				
	16:45 - 18:15	Poster 1				SYM 9	SYM 18	SYM 10	CES - ED4	Transport 4	UI/UX 4	A.I. 4	VR/AR/ Metaverse 4	SYM 8	Product 2	IJE Board Meeting	Panel Discussion 10	DHM 2	Aging 1		
	18:30 - 19:30			INCOSE HS Reception 18:15-20:00													Gender & Work TC meeting	Certification Board meeting	DHM TC meeting		

8/28 (Wed)

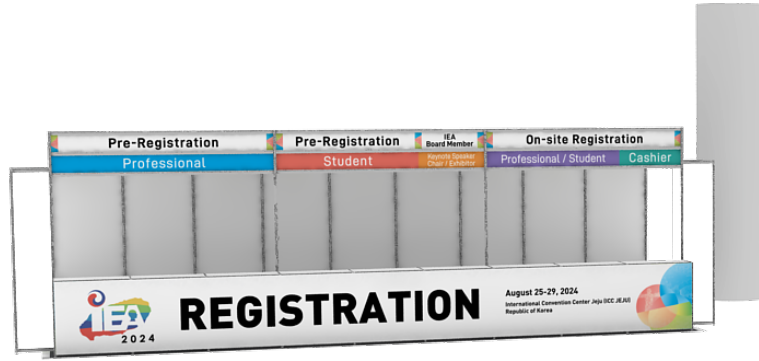
		Room		6F		5F		4F				3F								2F	
Date	Time	Foyer	Tamna	Ocean View	401A	401B	402A (Offline)	402B (Offline)	Halla A	Halla B	Samda A	Samda B	301	302	303A	303B	202A	202B			
August 28 (Wed)	Registration 08:00 -																				
	08:30 - 10:00				INCOSE 8 Keynote	Space 1		Panel Discussion 15	Keynote 4		Musculoskeleta I 4	Safety and Health 4	Others 3	Slips 1	Macroergonomi cs 3	Robotics 2	ATWAD 2	Resilience 1			
	Break 10:00 - 10:15																				
	10:15 - 11:45				INCOSE 9A	INCOSE 9B	UI/UX 7	CES - HMI	Musculoskeleta I 5	CES - COG1	DOCQ	Safety and Health 5	SYM 21	Slips 2	SYM 22	Children/ Training/ Education 4	ATWAD 3	Resilience 2			
	Lunch 11:45 - 13:15				INCOSE HSI Poster Session																
	13:15 - 14:45				INCOSE 11A	INCOSE 11B	Others 4	CES - Interact	Musculoskeleta I 6	UI/UX 8	EC 5	Safety and Health 6	Kansei 1	Slips 3	SYM 23	CES - COG2	ATWAD 4	Resilience 3			
	Break 14:45 - 15:00																				
	15:00 - 16:30				INCOSE 12	SYM 26	Workshop 6	CES - Transport	Keynote 5	Keynote 6	EC 1	Safety and Health 7	Kansei 2	SYM 24	Workshop 8	Panel Discussion 16	ATWAD 5	Workshop 7 IEA Informal Work TC meeting			
	Break 16:30 - 16:45																				
	16:45 - 18:15	Poster 2				INCOSE 13A	INCOSE 13B	CES - Health	SYM 25	Musculoskeleta I 7	UI/UX 9	Agriculture 1	Healthcare 2	Kansei 3	Gender 1	SYM 27	CES - COMM&SM Ageing and Work TC meeting		ATWAD 6		
	18:30 - 19:30											Safety and Health TC meeting					Anthropometry TC Meeting				

8/29 (Thurs.)

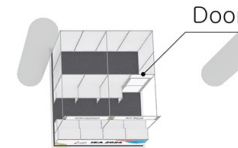
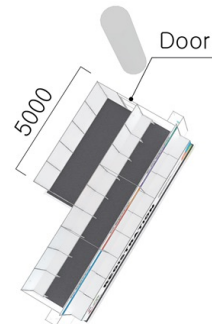
Date	Room	6F		5F		4F				3F							2F	
	Time	Foyer	Tamna	Ocean View	401A	401B	402A (Offline)	402B (Offline)	Halla A	Halla B	Samda A	Samda B	301	302	303A	303B	202A	202B
August 29 (Thu)	Registration 08:00 -																	
	08:30 - 10:00				INCOSE 14 Keynote	WWCS 1			Keynote 7		Manufacturing 1	Healthcare 3	Design 1	Gender 2	Aerospace 1			
	Break 10:00 - 10:15																	
	10:15 - 11:45				INCOSE 15A	INCOSE 15B			Musculoskeletal 18	UI/UX 10	Manufacturing 2	Healthcare 4	Design 2	SYM 29	SYM 30			
	Lunch 11:45 - 13:15				INCOSE HSI Poster Session													
	13:15 - 14:45				INCOSE 17A	INCOSE 17B					Manufacturing 3	Healthcare 5	Design 3	Building and Construction 1	SYM 31			
	Break 14:45 - 15:00																	
	15:00 - 16:30				INCOSE 18	Panel Discussion 17					Others 5	Healthcare 6	Design 4	Building and Construction 2	SYM 28			
	Break 16:30 - 16:45																	
	16:45 - 18:15								Closing Ceremony & Keynote 8									



6F	6F 포이어	Poster Session
5F	탐라홀 A	Opening Ceremony + Keynote Lecture
	탐라홀 BC	Supper, Luncheon
	오션뷰	reception
	504호	Cast Waiting Room
	502 / 503호	Prayer Room
4F	401A, 401B	Hybrid Sessions
	402A, 402B	Offline Sessions
	400	Organizing Committee Meeting Room
3F	한라A, 한라B	Hybrid Sessions
	삼다A, 삼다B	
	301	Hybrid Sessions
	302	
	303A, 303B	
	300	VIP/Meeting Room
	304	Speaker Waiting Room
	lobby	Registration / Exhibition / Lounge / Coffee Break Light
	ICC gallery	Hankyung National University UD Exhibition
	Delizia	restaurant
	Business Center	secretariat
2F	Medical	Medical Staff's Waiting Room
	201	EC Meeting / ISO session
	202A, 202B	Hybrid Sessions



Top View



1200x950 /  
Extrude 30T







**6F**  
**5F**

- **Tamna A** Opening Ceremony, Keynote
- **Tamna B** IEA Congress Dinner, 8/27 Luncheon (Bibimbap)
- **Ocean View** EC Meeting, IEA Welcome Reception, INCOSE HSI Reception
- **Foyer** 8/26 Poster Session 1  
8/28 Poster Session 2
- **502, 503** Prayers Room

# Lessons Learned

- Registration
- Collaboration w ISO INCOSE ?
- ONLINE ?
- Accommodation & Transportation
- Social Media (Youtube LinkedIn etc...)

# Thank you very much !!

- This was a wonderful experience and journey

Organizing Chair



Myung Hwan Yun  
Seoul National University

Secretarial Secretary General



Gwanseob Shin  
UNIST

Scientific Programming Chair



Woojin Park  
Seoul National University

Domestic Promotion Chair



Jyoung Kwahk  
Taegju University

Social Media Chair



Gyuhyun Kwon  
Hanyang University

Creative Chair



Wonseop Lee  
Hansong University

Special Program Chair



Taeseon Park  
Seonggil University

Publication Chair



Yongku Kong  
Sungkyunkwan University

International Cooperation Chair



Inseok Lee  
Hankyong National University

Libraries/Advertisement Chair



Jungchul Park  
Korea National University  
of Transportation

Exhibition/Advertisement Chair



Taeseon Ryu  
Hankuk National University

Industrial Collaboration Chair



Samsoo Lee  
LG Electronics

Special Event Chair



Hongin Cheng  
Wonyang University

Information System Chair



Sangwon Lee  
Korea University

International Promotion Chair



Yonggu Ji  
Yonsei University

Media Chair



Jea Hoon Lee  
JIB Co., Ltd.

Chair IEA/ISO Liaison



Heonheon Yoo  
POSTECH

Planning Chair



Kyungchul Kim  
Hongik University