Twenty years of ISO/IEC Guide 71

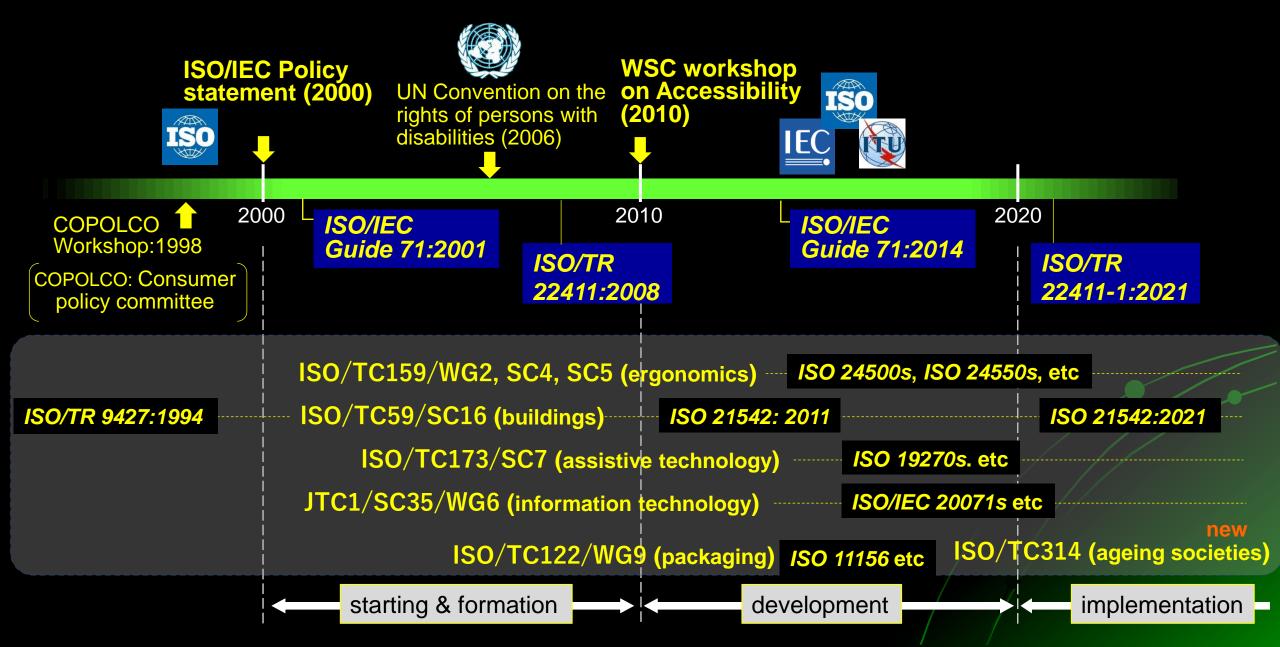
"Guide for addressing accessibility in standards"

Ken Sagawa

Emeritus researcher

National Institute of Advanced Industrial Science and Technology (AIST), Japan

The ISO history and related TCs on accessibility



ISO/IEC Guide 71 as guiding principles

ISO/IEC Guide 71: 2001

Guidelines for standards developers to address the needs of older persons and persons with disabilities.

(factors to consider)

ISO/IEC Guide 71: 2014

Guide for addressing accessibility in standards

(goals and strategies)





ISO/TR22411 as technical guidelines

ISO/TR 22411: 2008

Ergonomic data and guidelines for the application of ISO/IEC Guide 71(2001) to products and services to address the needs of older persons and persons with disabilities.

ISO/TR22411:2021 (Part 1)

Ergonomics data for use in the application of ISO/IEC Guide 71:2014

> Part 1: human data Part 2: design guidelines (in preparation)

22411 First edition 2008-09-01 Ergonomics data and guidelines for the application of ISO/IEC Guide 71 to products and services to address the needs of older persons and persons with Données d'ergonomie et lignes directrices pour l'application du Guide ISO/CEI 71 aux produits et services afin de répondre aux besoins des personnes ácrées et de celles avant des incapecités

ISO/TR

TECHNICAL

REPORT

disabilities

Second edition

ISO/TR

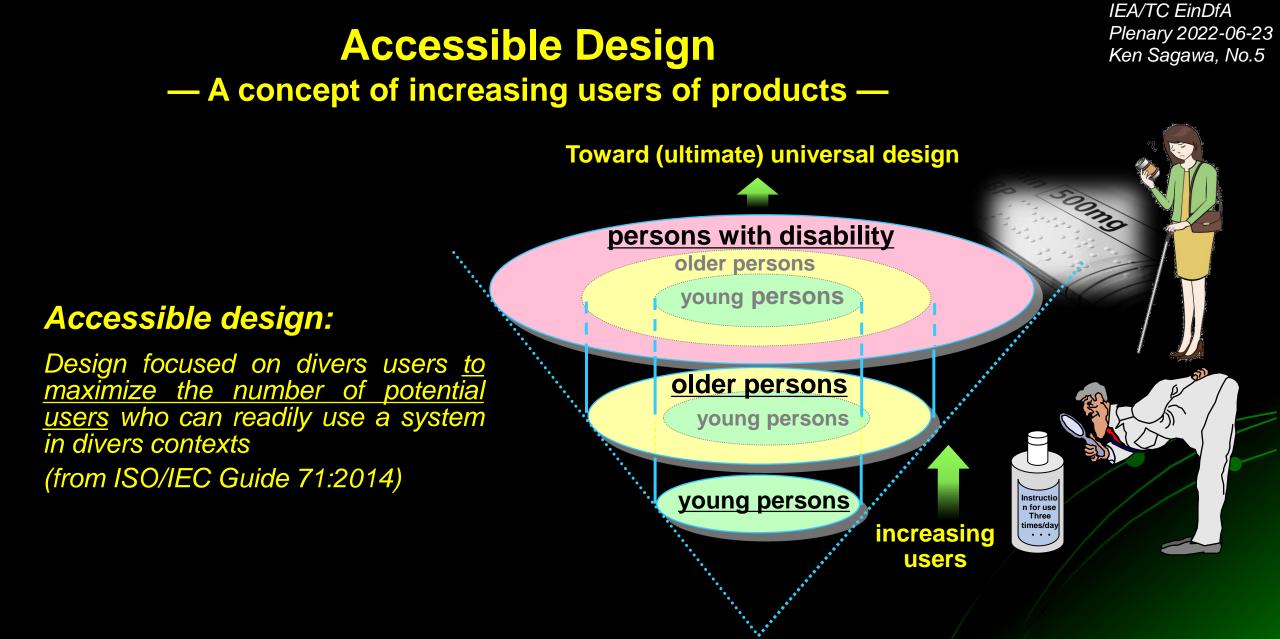
22411

Ergonomics data for use in the application of ISO/IEC Guide 71:2014

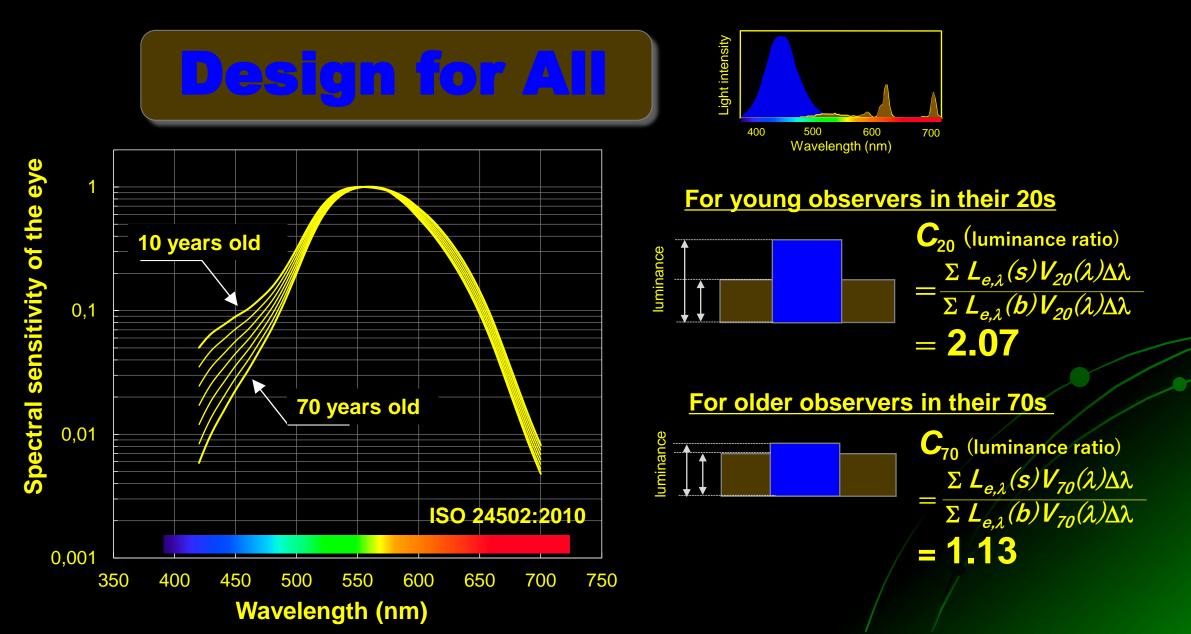
TECHNICAL

REPORT

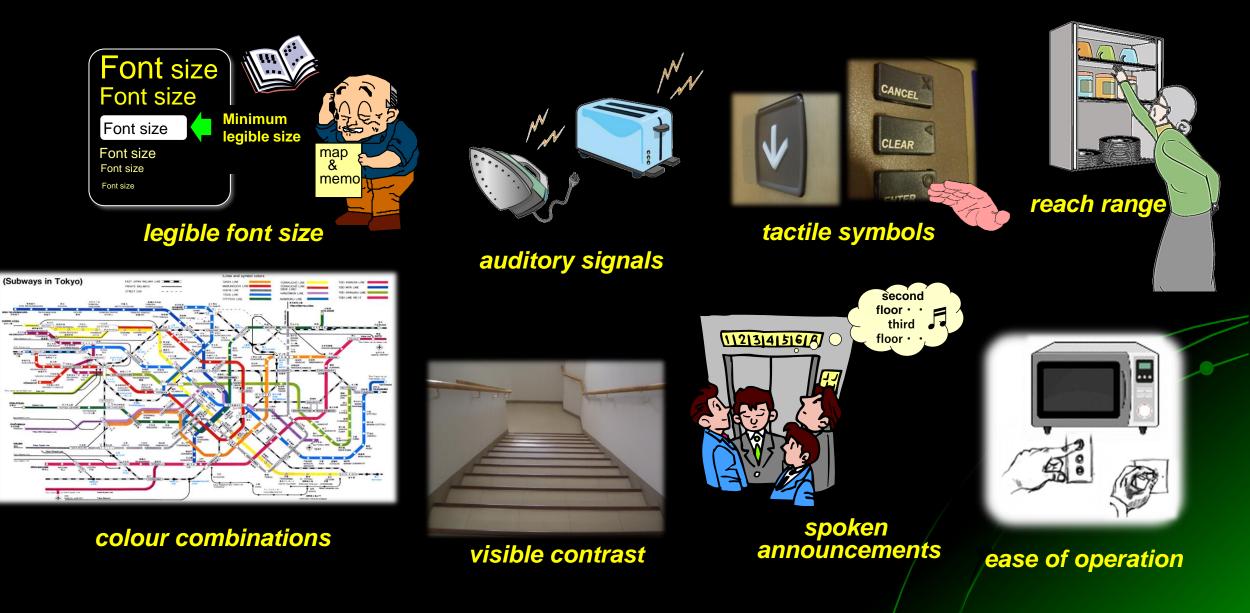
Données ergonomiques destinées à être utilisées dans le cadre de Papplication du Guide ISO/IEC 71:2014



Need for human data and basic standards



Some examples of basic ergonomics standards



A structure of accessibility standards

IEA/TC EinDfA Plenary 2022-06-23 Ken Sagawa, No.8

ISO/IEC Guide 71 (2001/2014) (General guidelines)

ISO/TR22411 (2008/2021)

(Technical Guidelines)

Basic standards

font size, colour combination, auditory signals, etc

Individual sector standards

everyday products, buildings, ICT, packaging, etc.

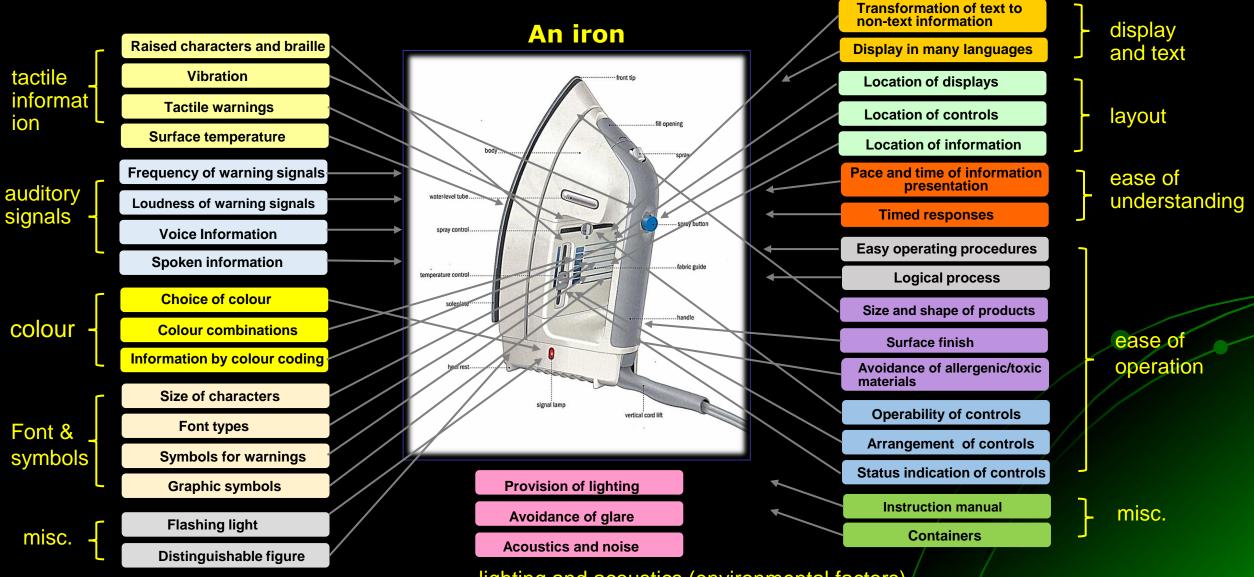
Basic standards

(Ergonomics accessibility standards developed by TC159)

Standards	Titles
ISO 24500:2010	Auditory signals for consumer products
ISO 24501:2010	Sound pressure levels of auditory signals for consumer products
ISO 24502:2010	Specification of age-related luminance contrast for coloured light
ISO 24503:2011	Tactile dots and bars on consumer products
ISO 24504:2014	Sound pressure levels of spoken announcements for products and public address systems
ISO 24505-1:2016	Method for creating colour combinations taking account of age-related changes in human colour vision
ISO 24508:2019	Guidelines for designing tactile symbols and characters
ISO 24509:2019	A method for estimating minimum legible font size for people at any age
ISO 24550:2019	Indicator lights on consumer products
ISO 24551:2019	Spoken instructions of consumer products
ISO 24553: 2022	Ease of operation (FDIS stage)
ISO 24505-2: xxxx ISO 24505-3: xxxx	Method for creating colour combinations — Part 2: For people with defective colour vision and people with low vision (CD stage) — Part3: General use (PWI)

An application example of basic standards Factors to consider (in Guide 71:2001)

IEA/TC EinDfA Plenary 2022-06-23 Ken Sagawa, No.10



lighting and acoustics (environmental factors)

Major application fields of accessibility standards

<u>Products</u>

Ergonomics-related standards

TC159 Ergonomics TC173 Assistive products TC122 Packaging, etc

<u>Services</u>

Information-related standards

JTC1/SC35 User interface TC 314 Ageing societies,

Environments

Buildings-related standards

TC 59/SC16 Accessibility and usability of the build environment TC 22 Road vehicles , etc

To summarize:

Successful promotion for accessibility has been carried out in ISO in the latest 20 years.

ISO/IEC Guide 71 has played a key role for the promotion of accessibility in international standards.

Ergonomics knowledge and human data have been one of the critical tools for implementing accessibility in products, services and environments.



Human diversity and "Design for All"