



## Technology Leaving No One Behind Why do Universal Design?

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#### We can all be excluded





Source: Professor Jeremy Myerson, RCA Helen Hamlyn Centre for Design

2



### Who is being left behind?



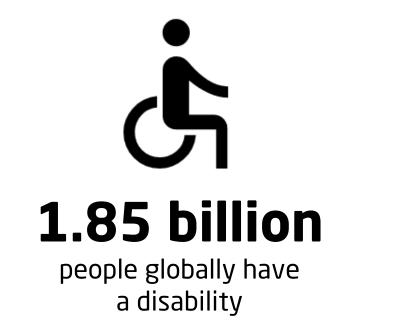
#### **Seniors People with disabilities** 962 million aged 60+ 1.85 billion have some form of disability **People living in Ethnic and religious minorities** extreme poverty **1 billion** live on less than \$1.25 a +618 million adults identify day (children make up 30% of as Afro-descendants, extreme poor) Roma or Indigenous **LEAVE NO ONE** LGBTQ+ persons +17 million adults in OECD countries **RFHIND**

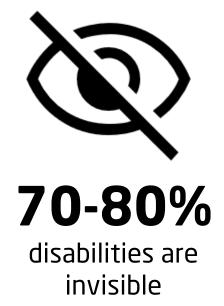
Sources: The World Bank, Ourworldindata.org





#### **Global Disability numbers**



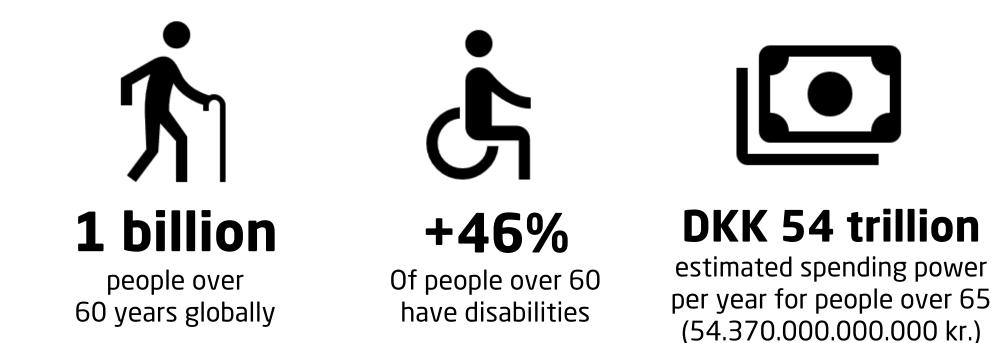


Sources: <u>www.who.int</u>, <u>post.parliament.uk/</u>





#### **The Seniors**

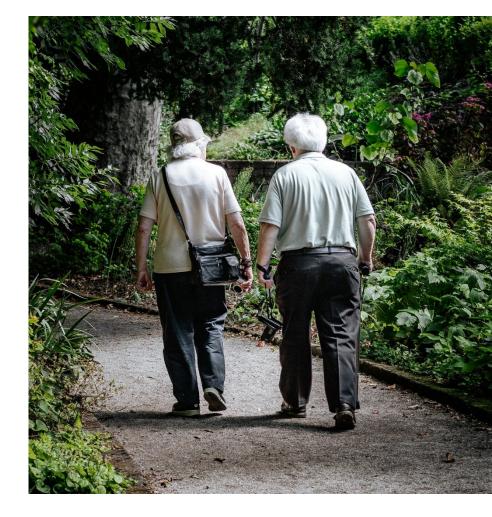


Sources: www.who.int, www.post.parliament.uk, www.un.org, www.straitstimes.com





# The Seniors market is expected to double in 2050



Source: www.who.int





## 2050



Source: Cambridge Inclusive Design, Ourworldindata.org



#### Technology Leaving No One Behind

Sources: EU Accessibility Act and EU Web Accessibility Directive

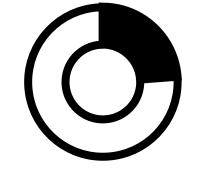
### EU Accessibility Act

EU Web Accessibility Directive

# Assistive technology

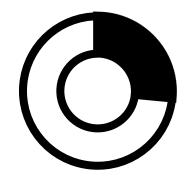
Technology Leavi No One Behind

- Hearing aids
- Wheelchairs
- Communication aids
- Glasses
- Prostheses
- Pill organizers
- Screen reading software
- And many more...



## 2.5 billion

people globally need assistive technology (disabled+elderly)



## **3.5 billion**

Estimated by 2050



#### 90% will not have access to it

Source: www.who.int Global Disability Innovation Hub



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**Disability** 



interaction



Personal health condition

Technology Leaving No One Behind is a program driven by DTU Skylab driven in partnership with BEVICA, DPOD, JUMH, DTU Management and DTU Entrepreneurship



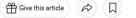
#### **Disability drives innovation**

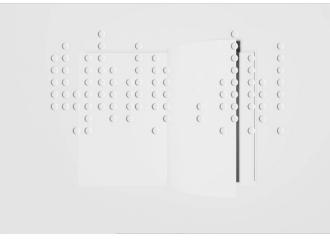
≡ Q TECHNOLOGY

The New Hork Times

#### 'Disability Drives Innovation'

Audiobooks are an example of a technology developed by or for people with disabilities that has helped all of us.





By Sean Dong



"Disability drives innovation. It's undeniable. Almost always when you find something that is really cool for people with disabilities, it will find its way into the mainstream in a way that is wonderful and makes life better."

Johua Miele, Adaptive technology designer Amazon Lab126 (creators of Kindle, Echo etc.)

Source: nytimes.com

DTU

# **DTU Skylab**

an interdisciplinary hub for technologybased innovation & entrepreneurship at the Technical University of Denmark.

Learning environment for innovation & entrepreneurship at DTU since 2014

Website

LinkedIn



## Technology Leaving No One Behind

**TLN1B** is a program providing opportunities and support to making inclusion and accessibility a natural part of engineering new sustainable technological solutions at DTU. This is done through research, developing teaching material, concrete tools and providing inputs to three different sectors:

- **EDUCATION**: Inclusion and accessibility introduced and integrated in education across engineering disciplines
- **ENTREPRENEURSHIP**: Strengthen current and driving new offers supporting and accelerating entrepreneurship and start-ups
- **STRATEGY**: Build strategic ecosystems and partnerships externally and internally at the Technical University of Denmark

Universal Design Guide

Website







