



Smart Cities for All

@jamesthurston

@SmartCityA1

1y

#SmartCities4A

# Smart Cities for All<sup>II</sup> Across the Americas

Accessible Americas James Thurston

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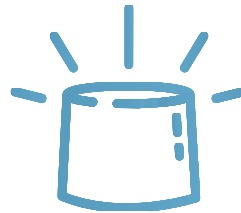
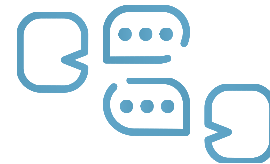


Smart Cities for All

two guys  
on a **global  
mission**  
to make  
**smart cities**  
Accessible  
**for all**

# Smart Cities

Use information and communication technologies (ICTs) to enhance livability, workability, and sustainability.



moving around without assistance

seeing

hearing

remembering

with self-care

# 1 Billion

Number of people who have difficulty with

# What is accessible technology?

## Personal & Usable

1. Usable by anyone, regardless of age or ability
2. Makes it easier to see, hear, & use all ICT devices
3. Personalize experience to meet own unique needs & preferences

## Part of an Ecosystem

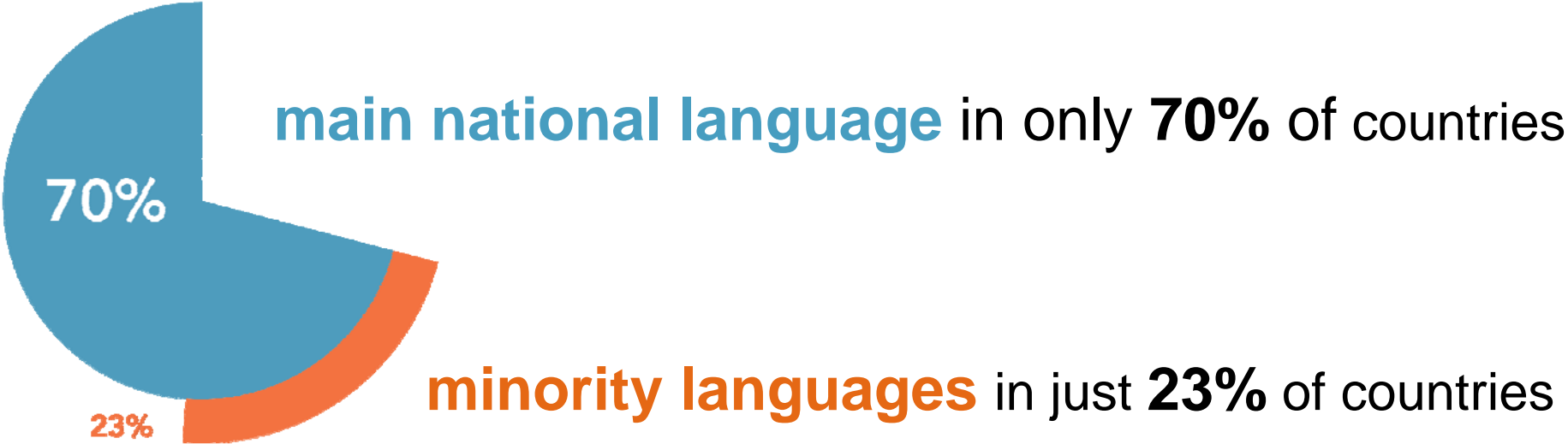
1. Features built into mainstream products
2. Assistive technology
3. Interoperability

## A Human Right

1. Preamble – A11y as enabler for rights
2. Article 3 (f) – A11y is one of 8 general principles, e.g. non-discrimination, equal opportunity, full participation in society, etc.
3. Article 9 - includes ICT in A11y definition & elevates obligations on par with built environment & transportation
  - Article 9(h): design for A11y at early stage of production
  - Article 9(2)(a): minimum A11y<sup>4</sup>

# Today's Digital Infrastructure is Not Accessible

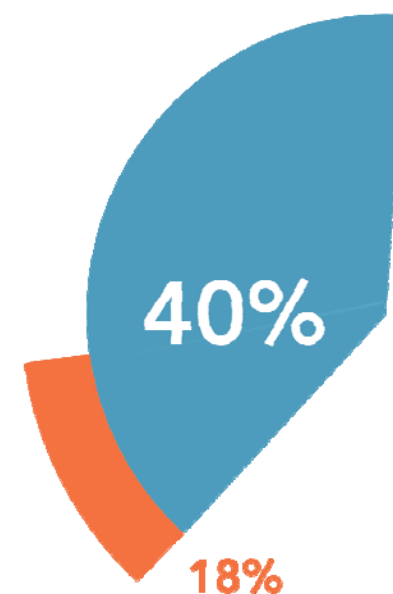
Text to Speech availability on mobile devices in:



# Today's Digital Infrastructure is Not Accessible

In just **40%** of CRPD countries, some  
(not all) **government websites are  
accessible**

In just **18%** of CRPD countries are the  
top 10 commercial  
and **media websites** accessible







The percent  
of people  
living in cities  
worldwide will  
grow from  
**50% today to  
70% by 2025**

# Cities are our Future



88



21

By 2025

Smart

Cities

The Leading

Edge

**Are Smart Cities  
Designing for  
Inclusivity  
?**

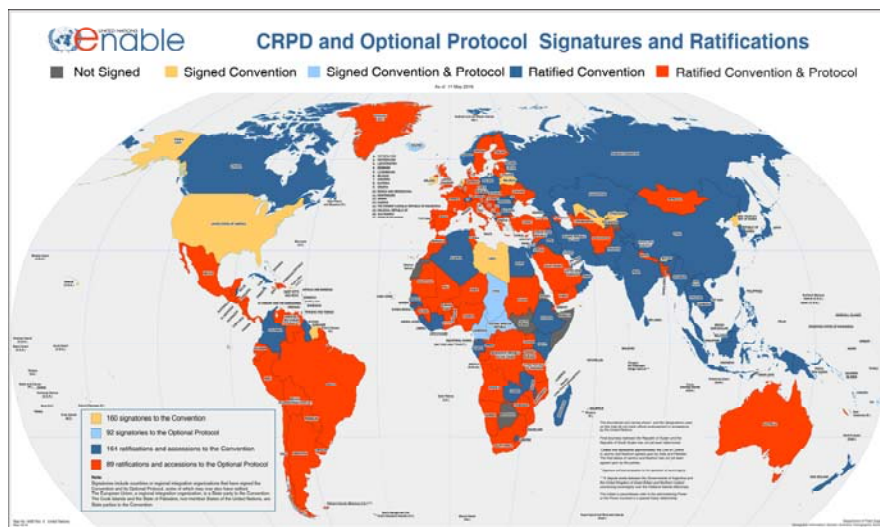
# Today's Smart Cities...

are making the  
digital divide  
**BIGGER.**

- **Less than half of experts know of a Smart City with a focus on ICT accessibility – 44%**
- **Just 18% of experts know of a Smart City using ICT accessibility standards**
- **60% of experts say Smart Cities are failing persons with disabilities**

# Commitments

## Toward a more sustainable & inclusive future



**IMPLEMENTING  
THE NEW  
URBAN AGENDA**



Smart Cities for All

## Smart Cities for All Toolkit

This toolkit contains resources to help Smart Cities worldwide include a focus on ICT accessibility and digital inclusion of persons with disabilities and older persons.

The toolkit supports a range of organizations and roles related to Smart Cities, including program managers, policy makers, Chief Information Officers (CIOs), IT professionals, academics, procurement officials, accessibility experts, technology suppliers to Smart Cities, developers who design Smart City apps and solutions, and disability organizations and advocates.

1. **Communicating the Case for Digital Inclusion**
2. **Guide to Priority Standards**
3. **Guide to Adopting a Procurement Policy**
4. **Database of Solutions**
5. **Maturity Model – in development**

# What is a maturity model?

- Method to evaluate and measure relative maturity of processes or operations
- Key elements:
  1. **Dimensions:** units of analysis. Core city processes which the model evaluates for level of maturity of digital inclusion and accessibility
  2. **Levels of maturity:** used to measure capability of city operations (dimensions) to promote digital inclusion and digital accessibility. 5 Levels.



# Five Dimensions for Smart Cities

Important Smart City operations & processes that must relate to digital inclusion and digital accessibility:

1. **Strategy** (vision, business case, leadership, etc.)
2. **Culture** (innovation & citizen engagement, etc.)
3. **Process** (budget, procurement, communications, etc.)
4. **Technology** (standards, solutions

# Our process to get to Beta

- Starting with IDC & DAMM - begun conceptualizing key aspects of dimensions at different maturity levels
- Our process has three main components for external input:
  1. Online survey
  2. Expert interviews (1:1 and 1:few)
  3. Roundtable discussions – starting recently in London

**1**

**Provide Direct Technical Assistance to Smart Cities**

**2**

**Expand Tools Available to Smart Cities**

**3**

**Promote ICT Accessibility at a Global Scale**

**4**

**Increase Capacity Via Training and Knowledge Sharing**

**5**

**Drive Accessible Technology Innovation in Smart Cities Solutions**

**6**

**Change the Global Narrative**

# Call to Action...

Help us make the digital divide in cities **SMALLER**.

1. **Participate in developing the maturity model**
2. **Identify city candidates for direct technical assistance**
3. **Become part of the Smart Cities for All global community by emailing [info@smartcities4all](mailto:info@smartcities4all)**

# **Additional Resources**

Visit [www.smartcities4all.org](http://www.smartcities4all.org)  
and download additional tools.

## **Contact**

[\*\*info@smartcities4all.org\*\*](mailto:info@smartcities4all.org)





**Smart Cities for All**

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# **Ciudades inteligentes para todos**

## **Herramientas para la inclusión digital en América Latina**

**[www.smartcities4all.org](http://www.smartcities4all.org)**

# Tendencias Globales



- Nuestro futuro es un futuro urbano
- Confiamos cada vez más en dispositivos digitales
- Las ciudades inteligentes están en auge.
- La infraestructura digital de hoy no es accesible
- La brecha digital está creciendo

#smartcities4all

@G3ict

@WorldEnabled<sup>21</sup>



Smart Cities for All

## Ciudades Inteligentes para Todos Guía práctica

Esta guía contiene recursos para ayudar a las Ciudades Inteligentes en todo el mundo a plantearse la accesibilidad a las TIC y la inclusión digital de los mayores y de las personas con discapacidades.

Esta guía es una ayuda para toda una serie de organizaciones y de funciones en relación con las Ciudades Inteligentes, de los jefes de programa, a los responsables de creación de políticas, pasando por los Directores Ejecutivos de Información (CIOs), los profesionales TI, los académicos, los funcionarios encargados de la contratación pública, los expertos en accesibilidad, los proveedores de tecnología de Ciudades Inteligentes, los desarrolladores de app y soluciones para Ciudades Inteligentes, y las organizaciones y defensores las personas con discapacidad.

- Presentando la necesidad de un mayor compromiso con la inclusión digital en las Ciudades
- Guía para implementar Estándares Prioritarios de Accesibilidad a las TIC
- Guía para una política de contratación pública orientada hacia la accesibilidad a las TIC
- Base de datos de Soluciones
- Modelo de Madurez de Inclusión Digital (en desarrollo)