

Welcome to our virtual get-together!

TECHNICAL CHECK-IN

-  can you **see** the presentation?
-  can you access the **chat**?

during the session please

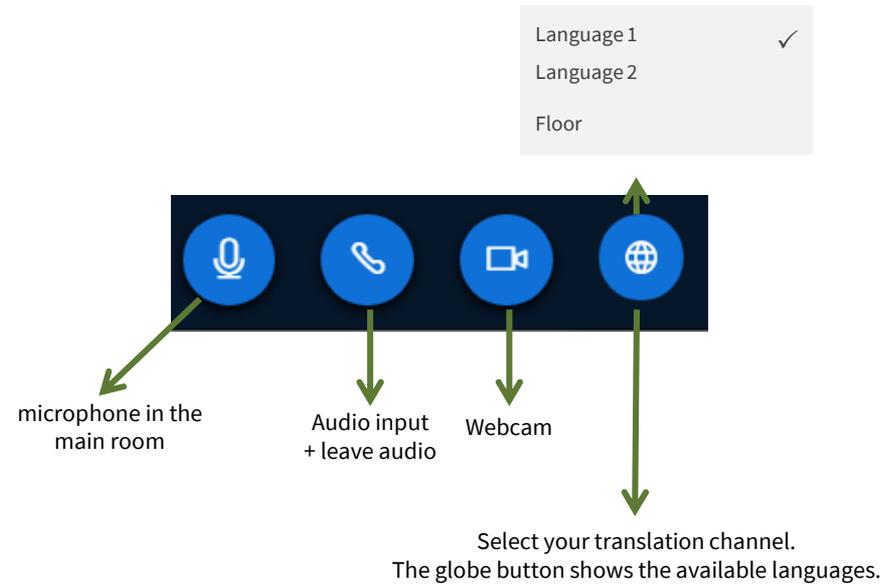
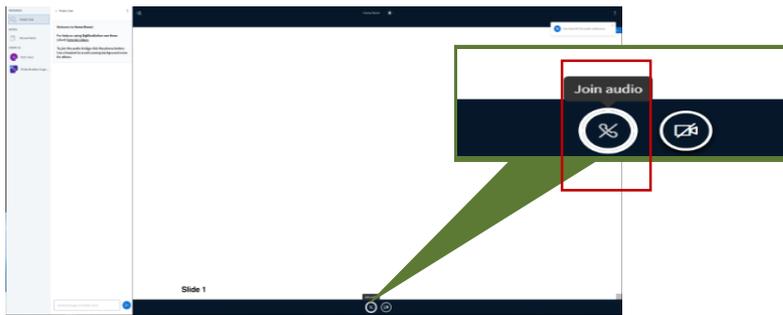
-  mute your **microphone** when you are not speaking
-  switch on your **camera** when you are speaking
-  post comments and questions in the **chat** during presentations



Instructions to join audio

Join Audio

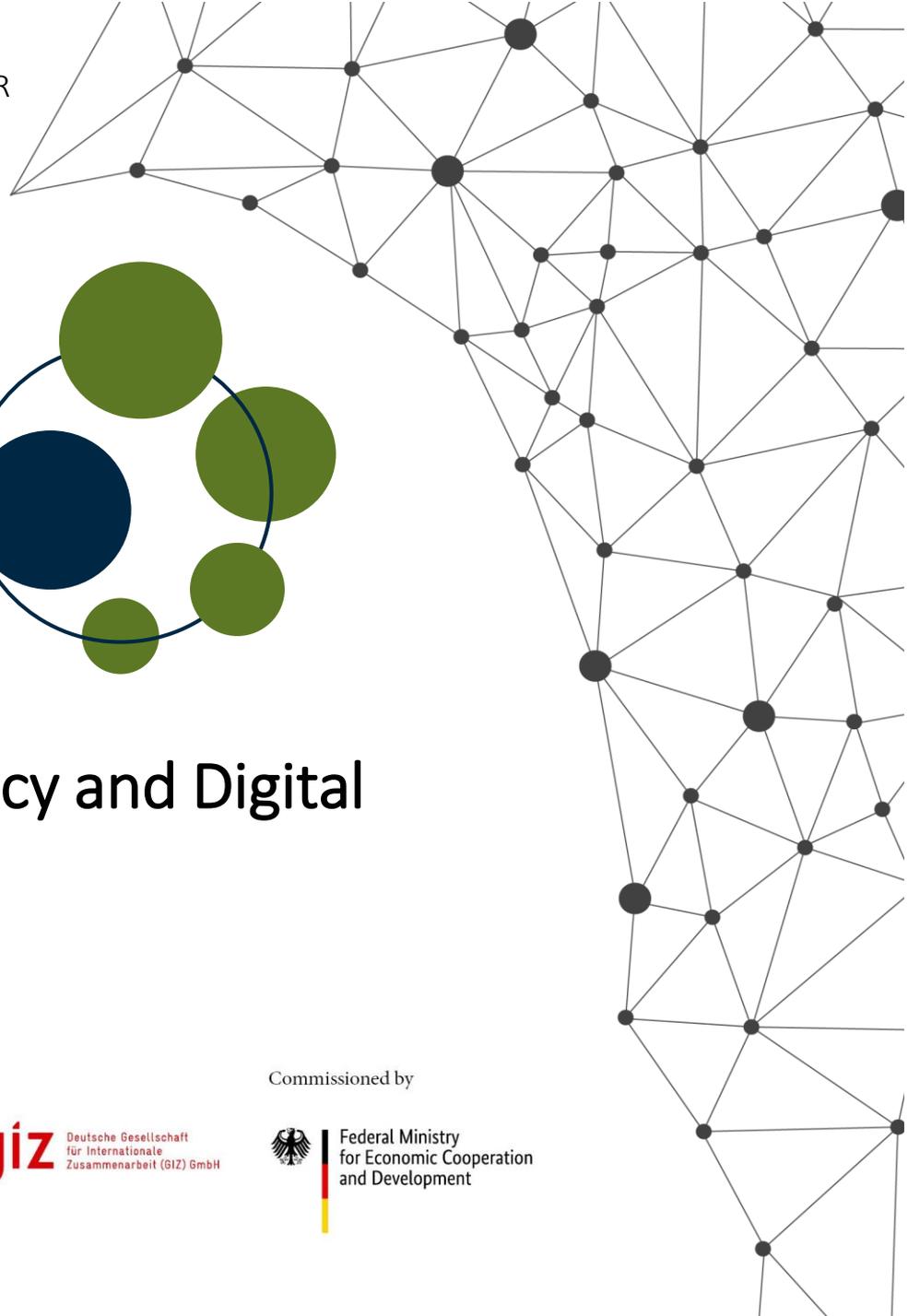
1. Click the „Join audio“ - Button



2. You will be then forwarded to an echo test. There you have to click on the green thumbs up button



INTERNATIONAL COMMUNITY OF PRACTICE FOR
SUSTAINABLE URBAN DEVELOPMENT



Insight Session: Digital Literacy and Digital Municipal Service Design

18.08.2021

Partners of Connective Cities



Commissioned by



Federal Ministry
for Economic Cooperation
and Development

Video

COVID
Connective Cities Programme
19



Insight Sessions (Post)-COVID-19 Urban Futures

Exchange on sustainable urban development in (Post)-COVID era

Aimed at urban practitioners worldwide

Concise exchange formats (1- 1.5h)

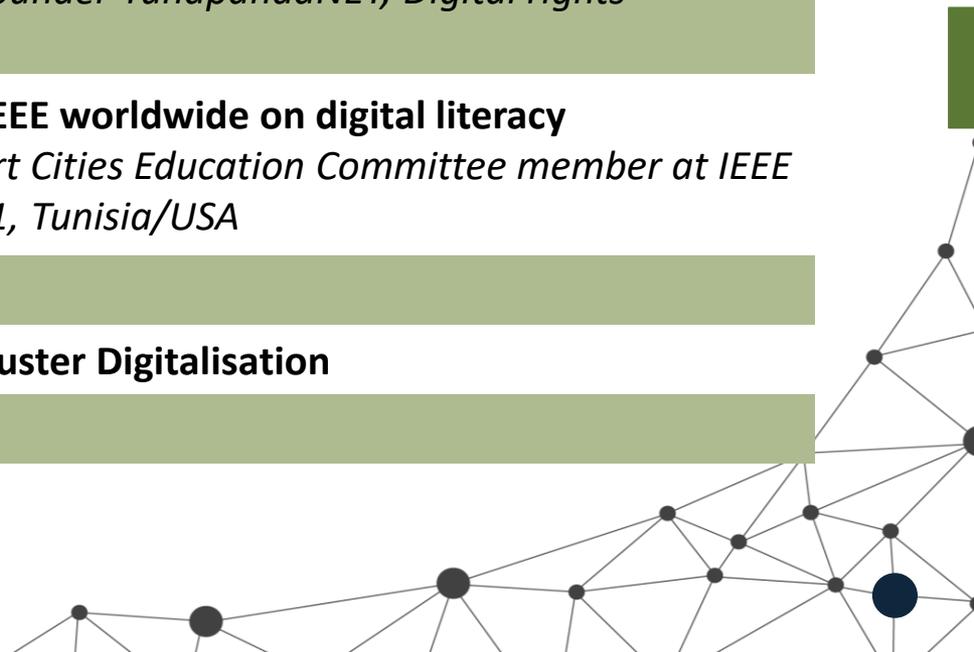
Initiate reflections & encourage innovative solutions

Location: Connective Cities Community



Overview

Time (CEST)	Agenda
10:00	Opening and welcome words
10:10	Keynote Smart Cities and digital literacy Eva Schweitzer, <i>Federal Institute for Research on Building, Urban Affairs and Spatial Development (BBSR), Germany</i>
10:30	Good Practice: Keeping communities online during the COVID-19 pandemic Josephine Miliza, <i>Co-Founder TunapandaNET, Digital rights advocate, Kenya</i>
10:45	Good Practices from IEEE worldwide on digital literacy Samar Baba, <i>IEEE Smart Cities Education Committee member at IEEE Smart Cities 2020-2021, Tunisia/USA</i>
11:00	Q&A Session
11:20	Introduction COVID Cluster Digitalisation
11:30	Wrap-up and closing



Eva Schweitzer



- Deputy Head of Unit: Digital Cities, Risk Prevention and Transportation
- German Federal Institute for Research on Building, Urban Affairs and Spatial Development
- Researcher and policy advisor on:
 - International European Urban Development
 - Smart City Research
 - Urban Mobility





Federal Institute for
Research on Building,
Urban Affairs and
Spatial Development

within the Federal Office for
Building and Regional Planning



Smart Cities and Digital Literacy

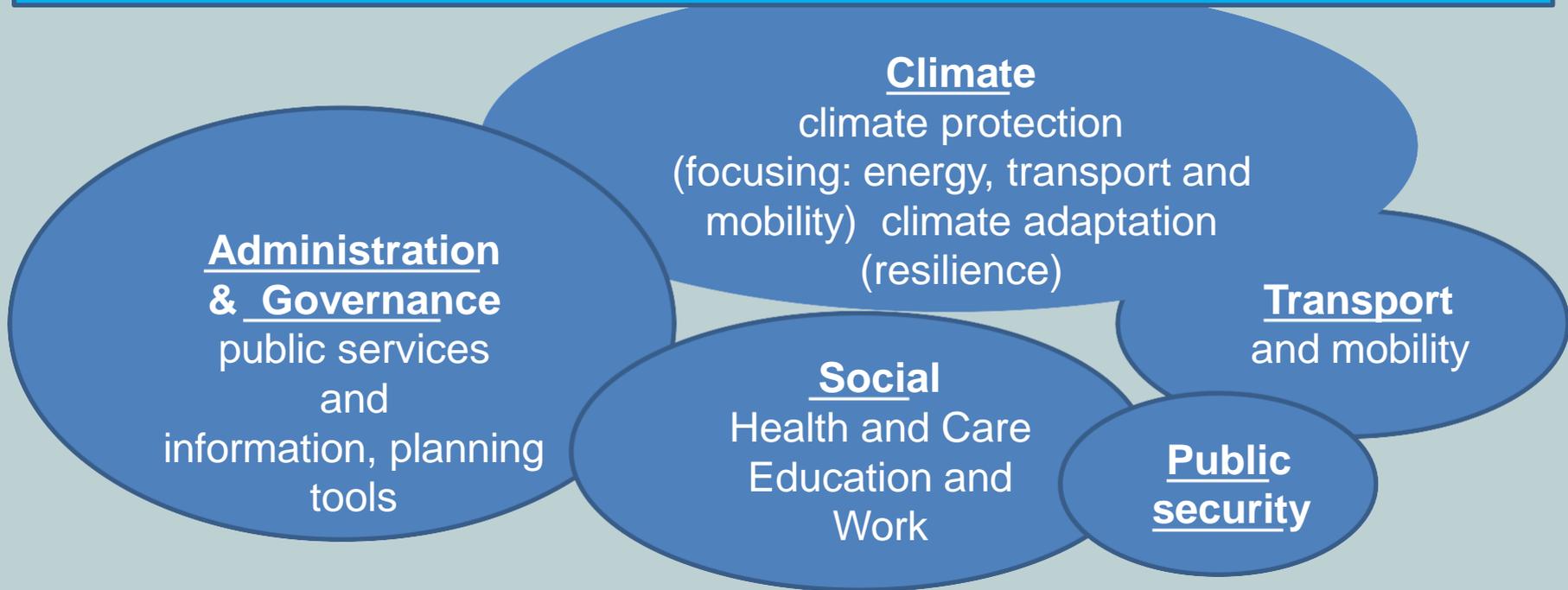
Eva Schweitzer

Connective City Workshop
Digital literacy and municipal
service design

18.08.2021

Smart City –goals, main topics and techniques

Goals: sustainability and cohesion, innovation and efficiency



Techniques: social media, cloud, mobile data, Open and Big Data, Chips and Sensors, Internet of Everything, digital fabrication techniques

Smart City Charta

Digitale Transformation in den Kommunen nachhaltig gestalten

Smart City Charter

Making digital transformation at the local level sustainable



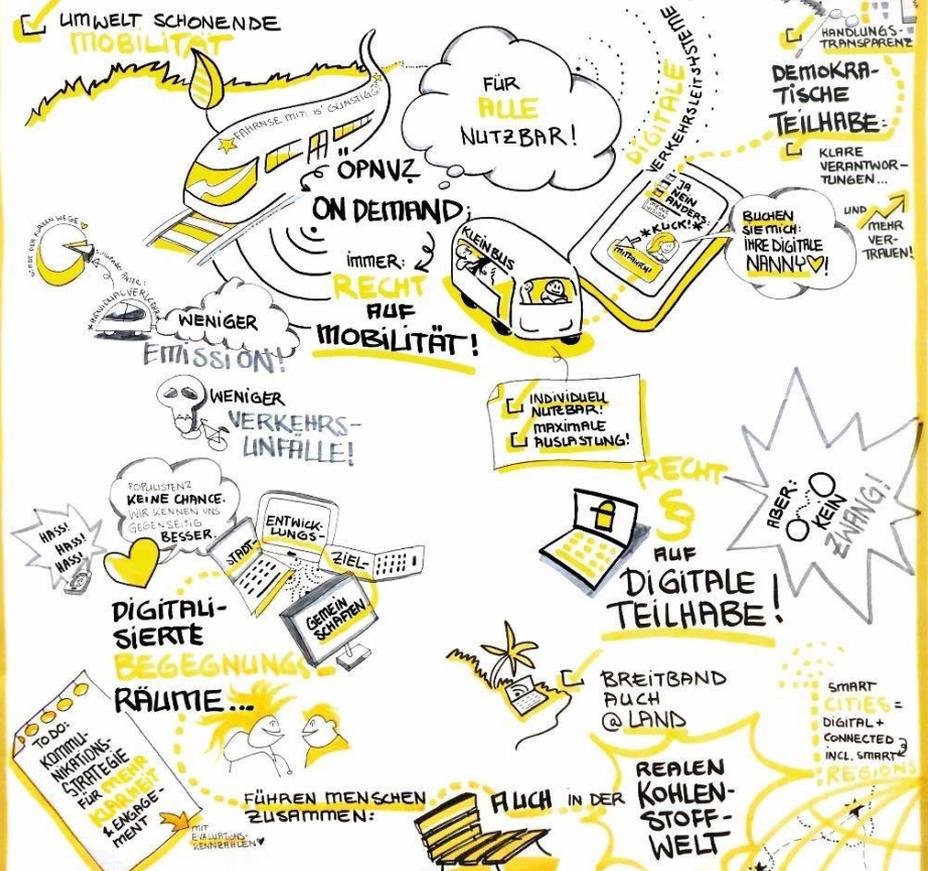
Smart City Charta

Based on the principles of **integrated urban development:**

- place-based approaches
- need-driven development
- Define potentials and risks of digitizations
- Define role of cities and citizens
- How to react to make sure that „smartification“ will lead to sustainable development.

DIGITALE INTEGRATION & INKLUSION

BEST CASE SZENARIO



GRAPHIC RECORDING: Marianna Popitz

DIGITALE INTEGRATION & INKLUSION

WORST CASE SZENARIO



GRAPHIC RECORDING: Marianna Popitz

Smart City Charta

4 guidelines for a sustainable digital transformation:

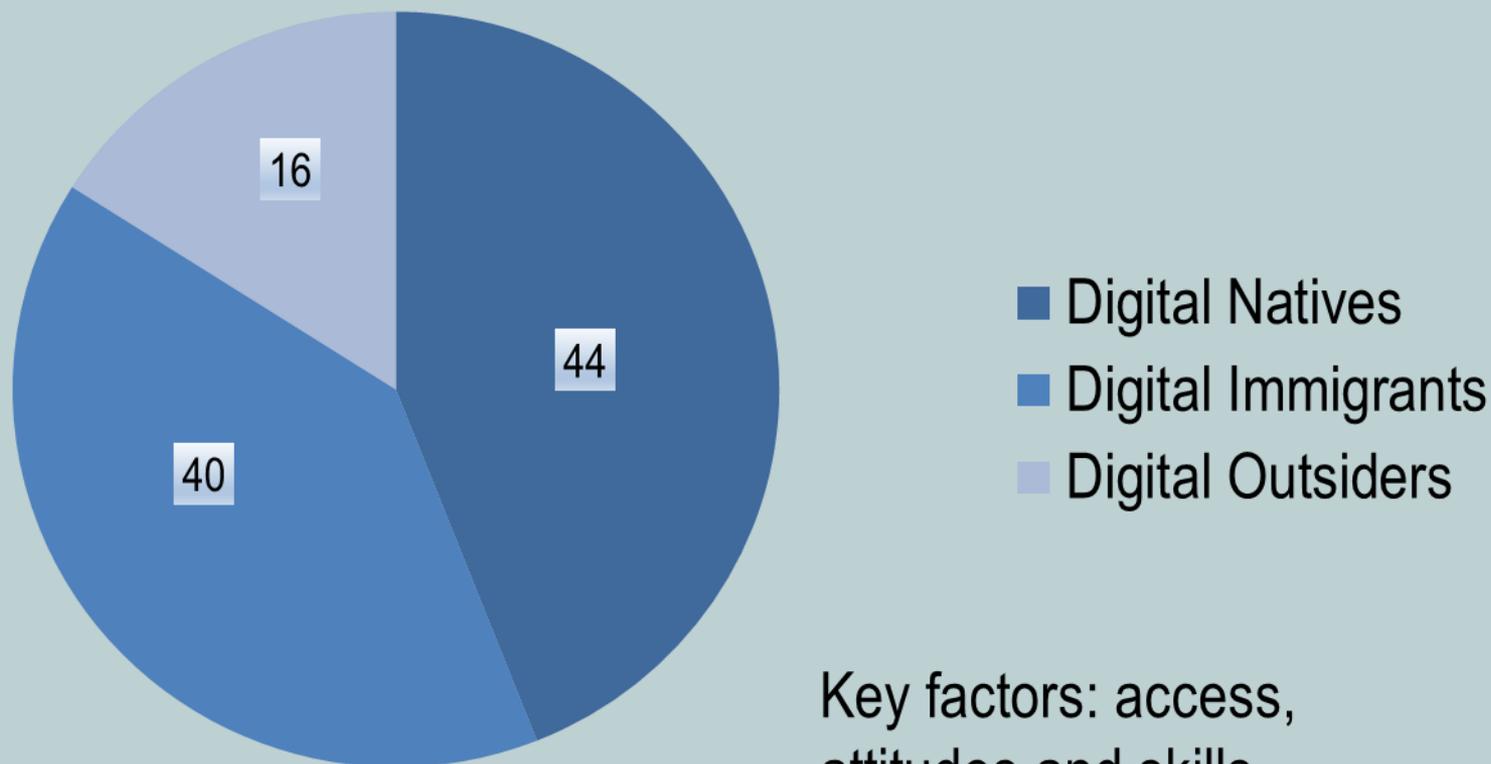
- 1 Digital transformation requires **goals, strategies and structures**
- 2 Digital transformation requires **transparency, participation and co-creation**
- 3 Digital transformation requires **infrastructures, data and services**
- 4 Digital transformation requires **resources, skills and cooperations**

Guideline 4 – Digital transformation requires resources, skills and cooperations

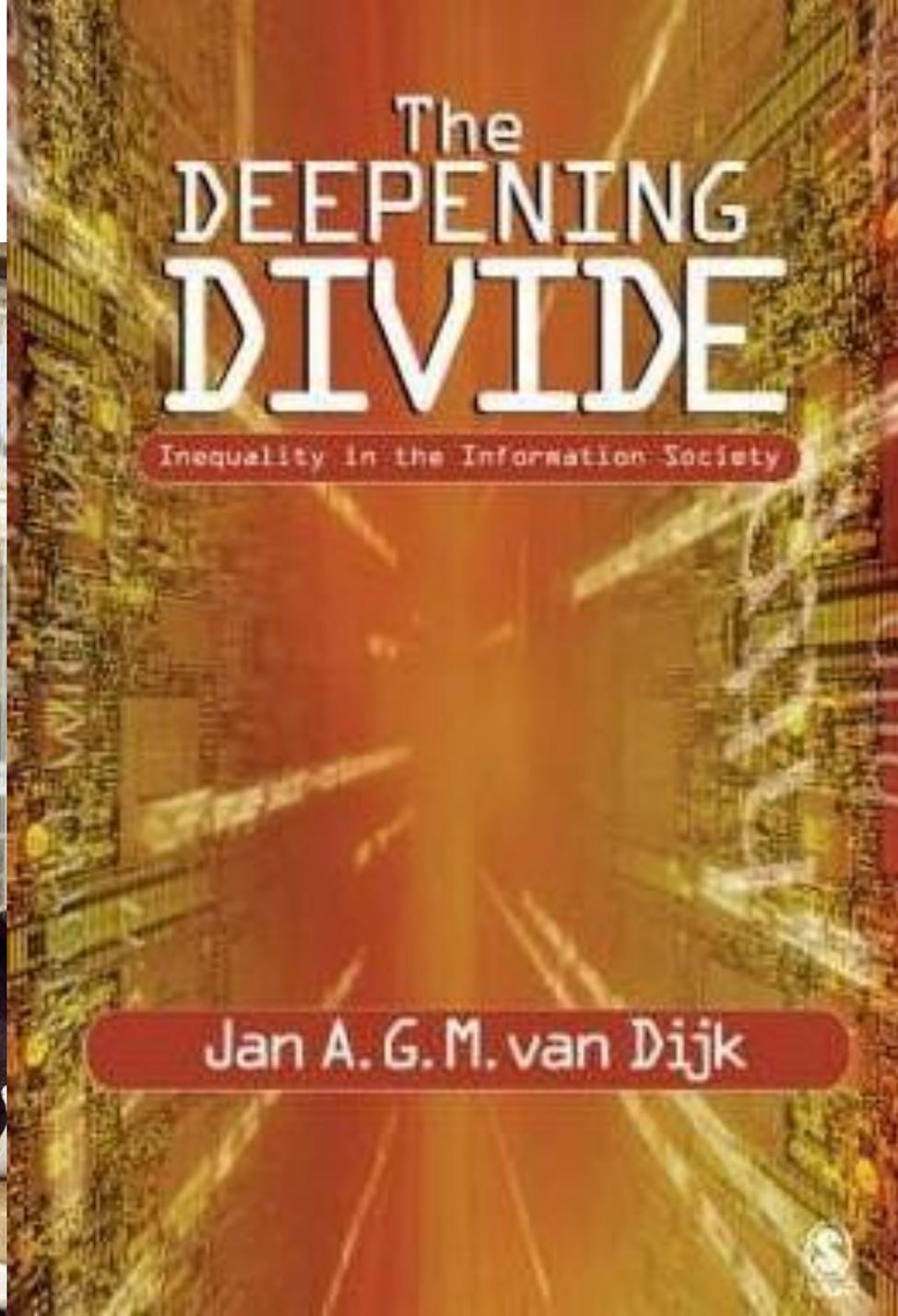
Selected Recommendations

- Providing the necessary resources to local administrations and municipal corporations
- Developing digital skills; promoting lifelong learning
- Expanding co-operations with business and research; creating innovative spaces; strengthening local knowledge and value creation

Digital Divide - German Digital Society



Key factors: access, attitudes and skills



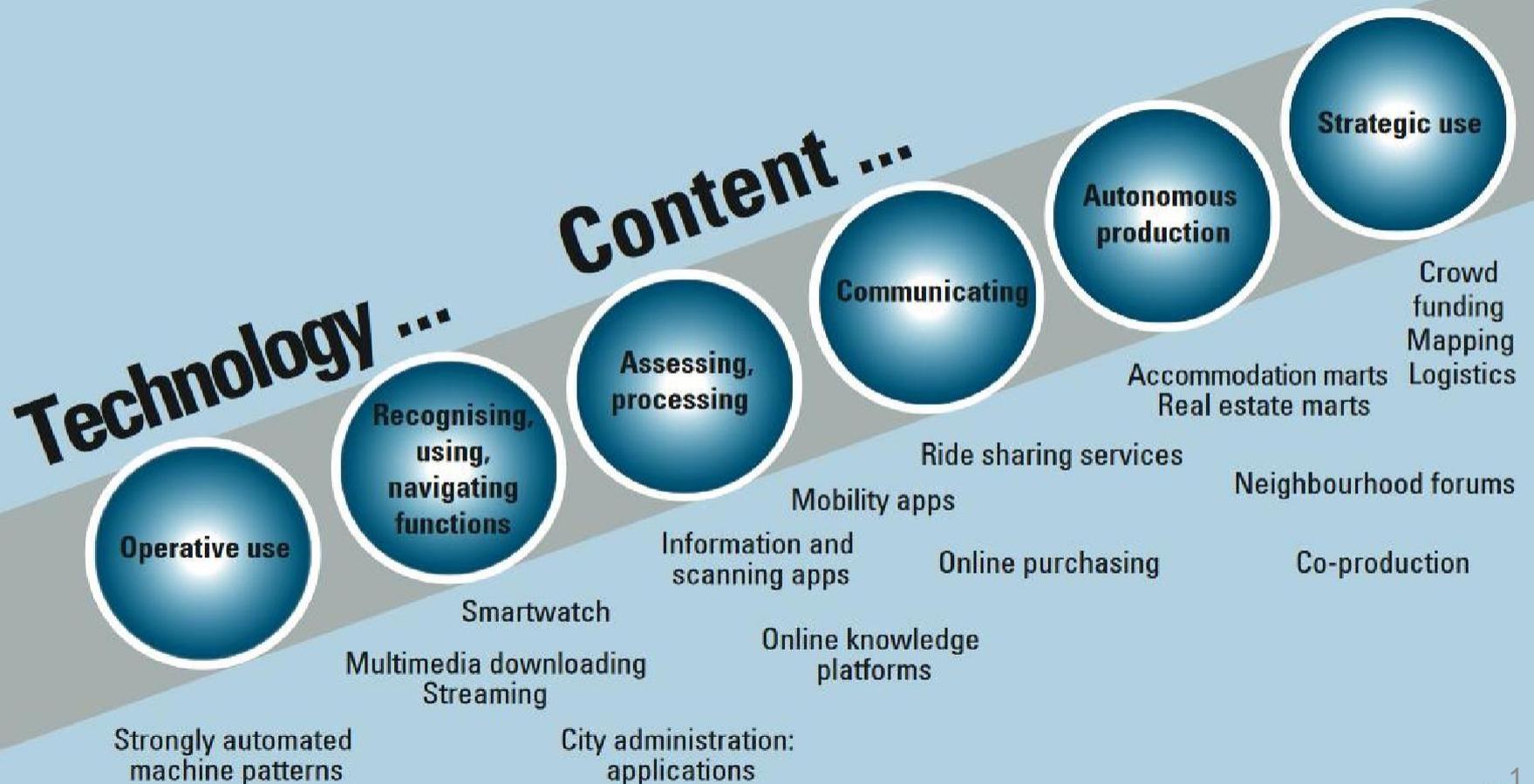
Major Issue: Digital Literacy

Quality and quantity of usage depends on education, age and gender

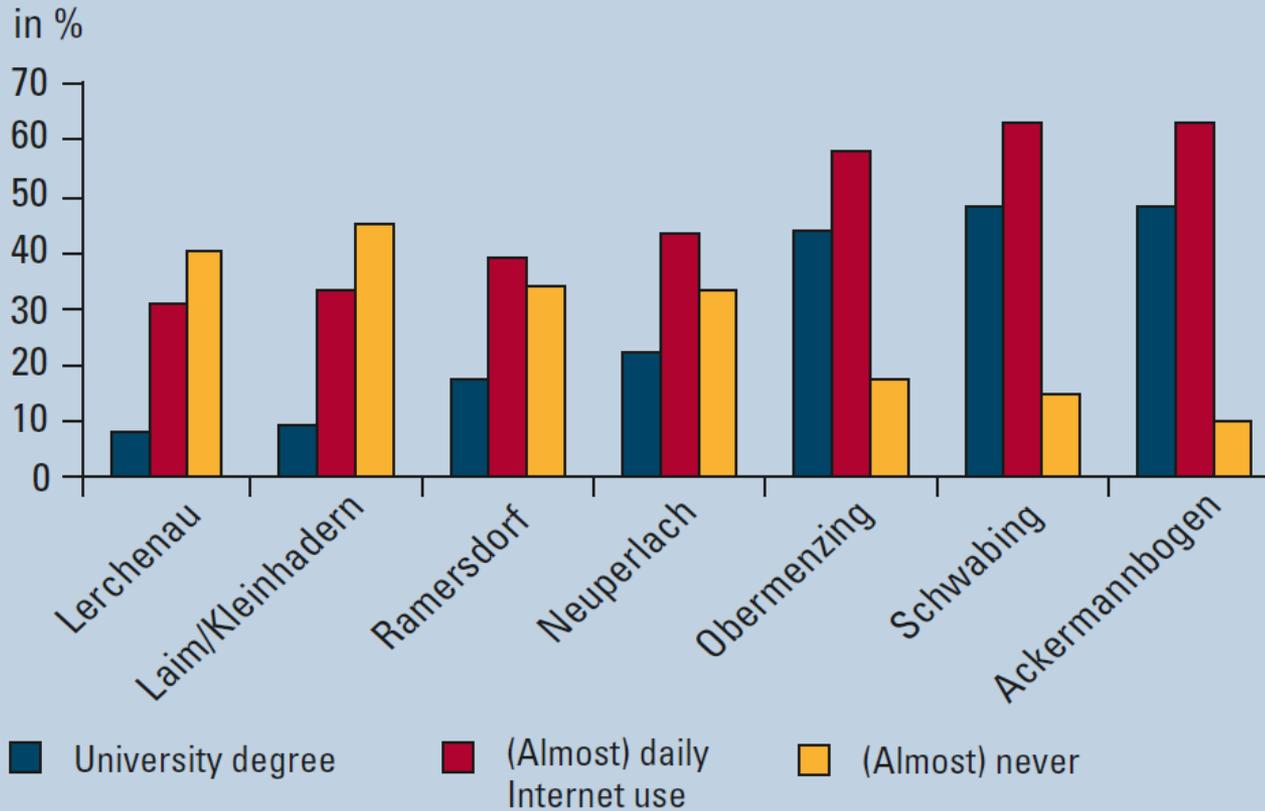
Challenge:

- how to prevent a further segregation?
- how to build up a smart city for everyone, a digital inclusive city?

Digital competences: Phased model and application cases in the field of urban development



A comparison of seven Munich neighbourhoods: percentages of interviewees with university degrees and quantitative Internet use



Source: Älter werden in München, Analysis: BBSR

Living Lab Oldenburg (Civic Data Lab)

Strategies and tools to empower people digitally and promote digital skills

4 Elements

1. IT-Pilots (tutors and trainers)
2. Action Bound (digital scavenger hunt, geo-caching)
3. Digital City Experience (AR App)
4. Hackathons

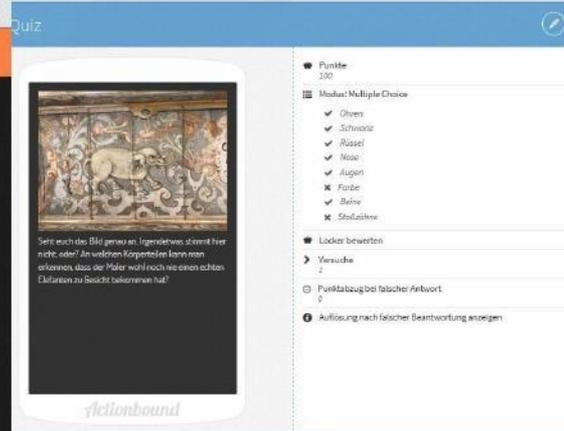
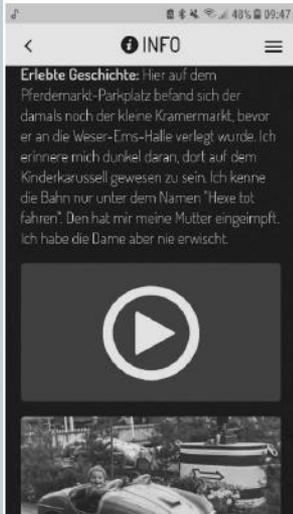
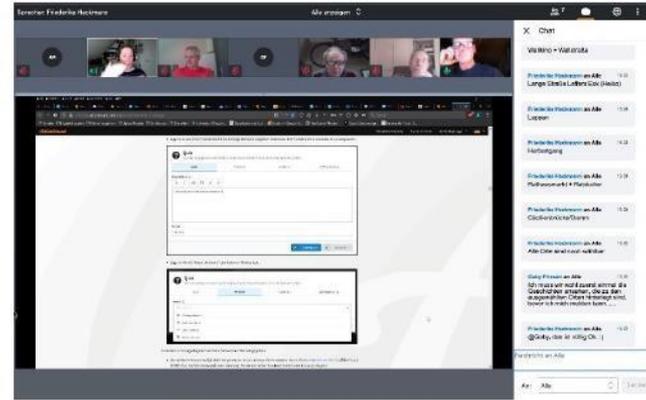


Civic Living Lab Oldenburg – Virtual Teatime



Fotos: Stadt Oldenburg

Action Bounds



Means of digital Inclusion



Tools for Capacity Building and Developing E-Skills

e.g. Telecenters, Mentors, Competitions
Places and People



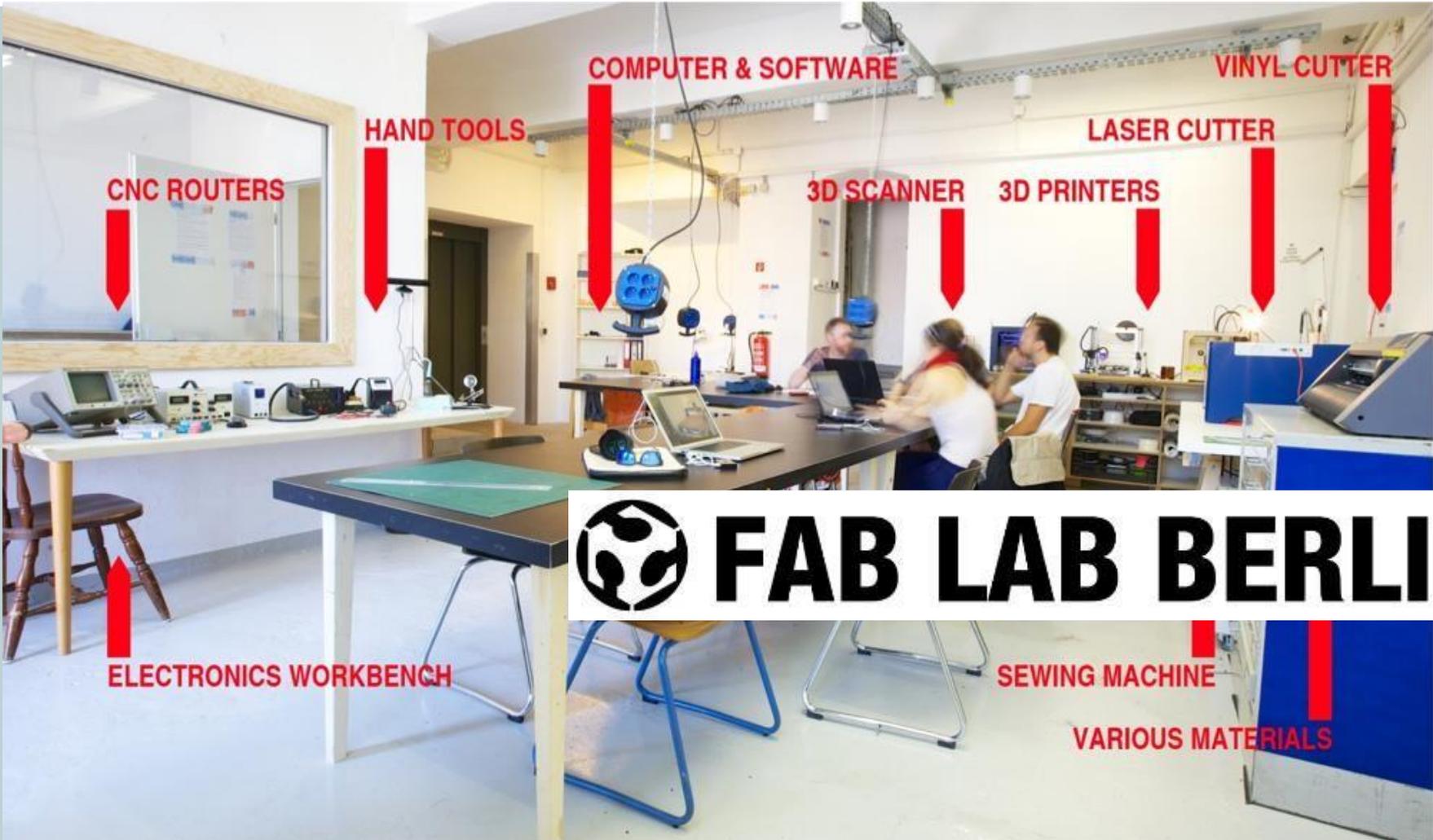
User-based and need-driven selection and design of intelligent technologies

From outer shell to inner content

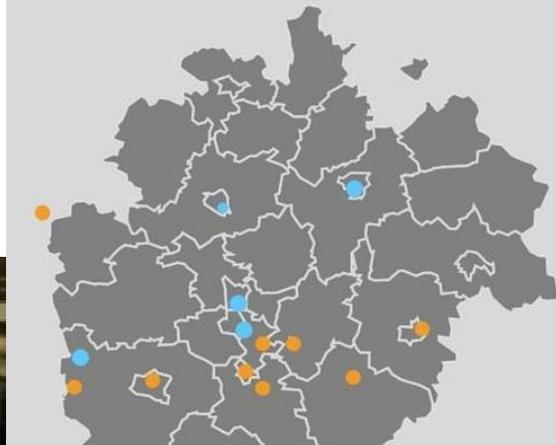
=> Senior I-Pads connecting to the care services

=> Gaming Products for the smart Junior

Co-Creation: Co-Design and Co-Production in an open technology



Fab Lab Nürnberg



BBSR



Thank you for your
attention!

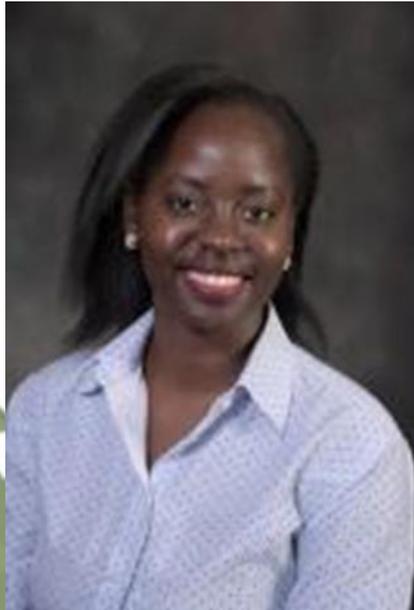
Eva Schweitzer

eva.schweitzer@bbr.bund.de

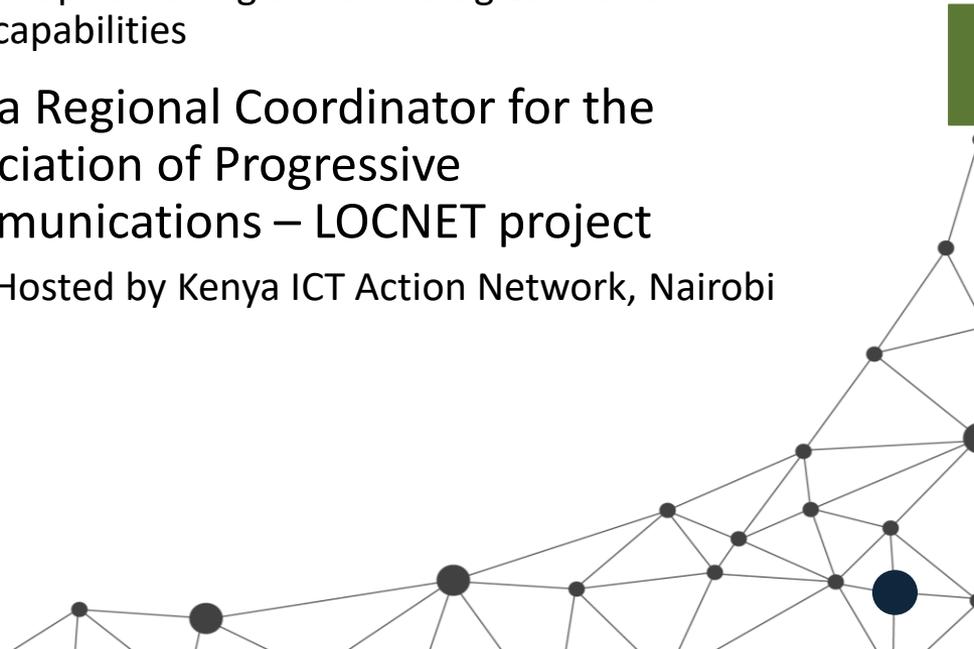
Deputy Head of Division I 5: Digital Cities, Risk Prevention
and Transport

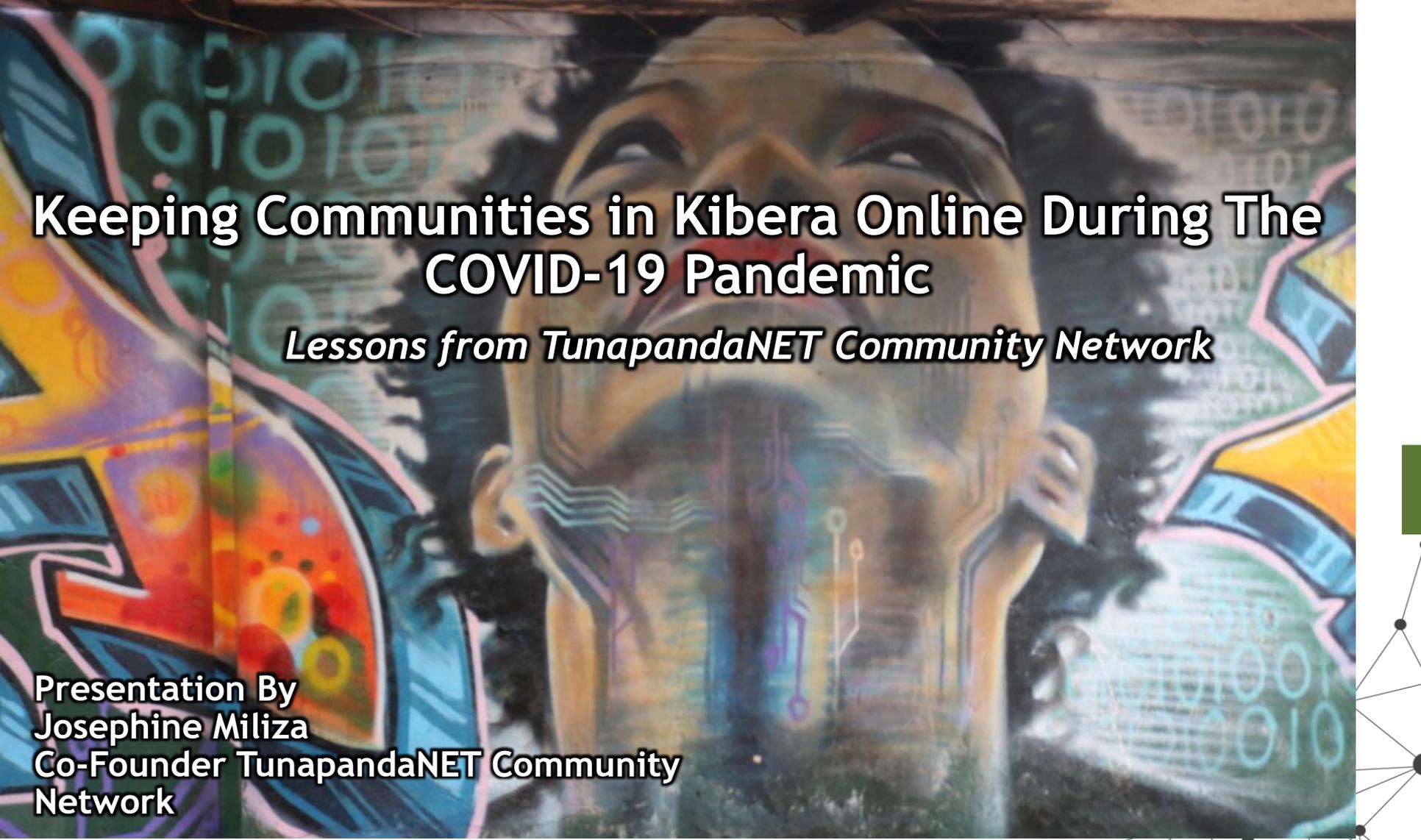
Federal Institute for Research on Building, Urban Affairs
and Spatial Development

Josephine Miliza



- Co-Founder of TunapandaNET in Kibera, Nairobi
 - Community Network promoting access for all, adoption of digital technologies and ICT capabilities
- Africa Regional Coordinator for the Association of Progressive Communications – LOCNET project
 - Hosted by Kenya ICT Action Network, Nairobi





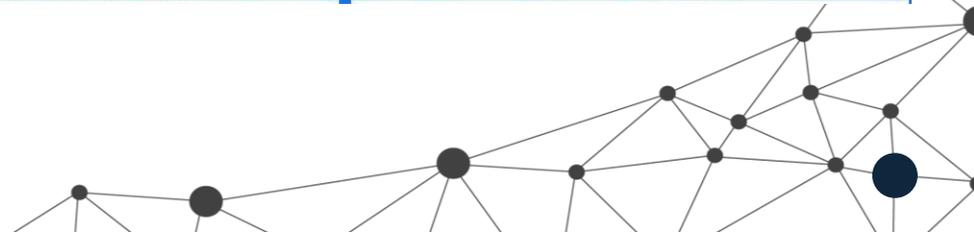
Keeping Communities in Kibera Online During The COVID-19 Pandemic

Lessons from TunapandaNET Community Network

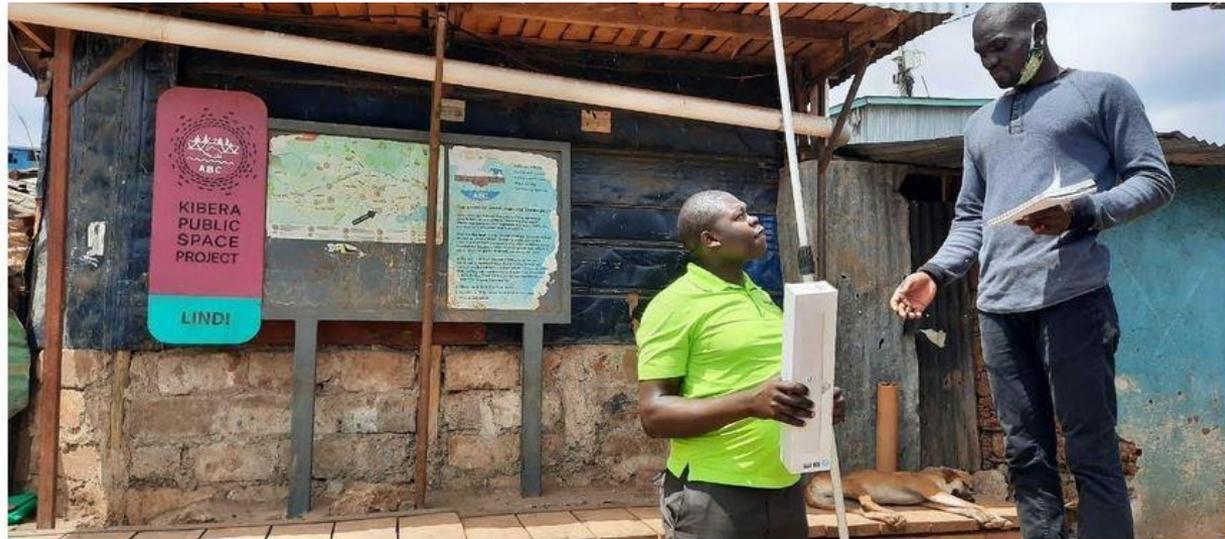
**Presentation By
Josephine Miliza
Co-Founder TunapandaNET Community
Network**

TunapandaNET Community Network

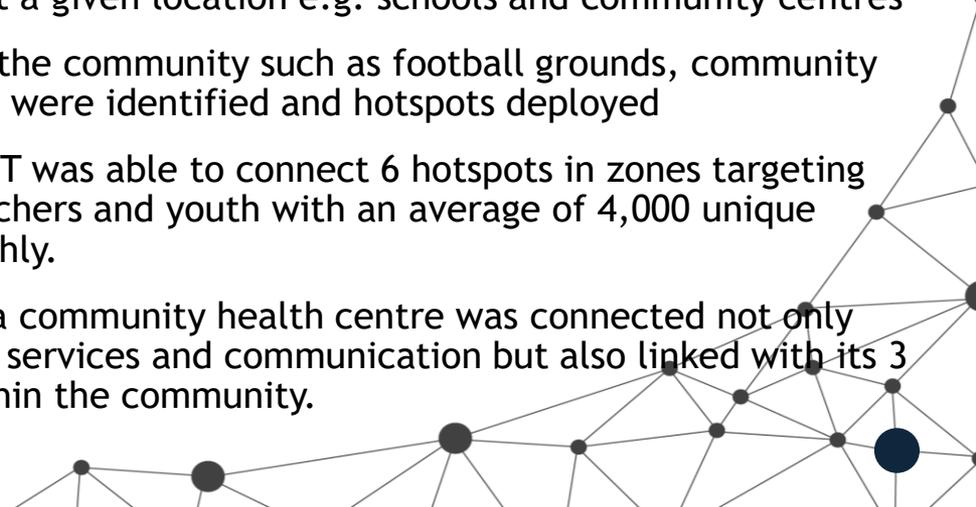
- TunapandaNET is a low-cost community network championed by Tunapanda Institute whose goal is to build a digital ecosystem with the aim to address digital inequalities.
- The community network mainly focuses on providing connectivity, digital platforms and digital literacy training in education, health and commerce.
- TunapandaNET has over 30 hotspots within the community with each centre serving 50 - 500 users.



Building Connectivity Infrastructure as a COVID-19 Response



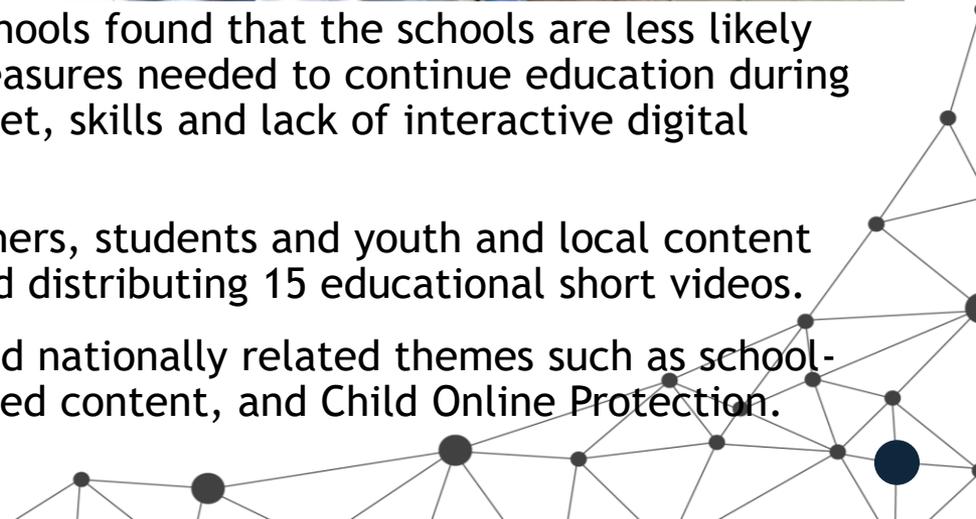
- Pre covid, the TunapandaNET network model requires that users congregate at a given location e.g. schools and community centres
- Areas within the community such as football grounds, community public spaces were identified and hotspots deployed
- TunapandaNET was able to connect 6 hotspots in zones targeting learners, teachers and youth with an average of 4,000 unique devices monthly.
- Additionally a community health centre was connected not only support their services and communication but also linked with its 3 branches within the community.



Community Participation in Creating Locally Relevant Digital Content as a COVID-19 Response



- Initial research conducted by Tunapanda in schools found that the schools are less likely to have resources to adapt and implement measures needed to continue education during school closures, including access to the internet, skills and lack of interactive digital educational content.
- TunapandaNET CN worked together with teachers, students and youth and local content creators in designing, creating, producing, and distributing 15 educational short videos.
- The videos produced were based on locally and nationally related themes such as school-based subjects, Health & Wellness, Talent-based content, and Child Online Protection.



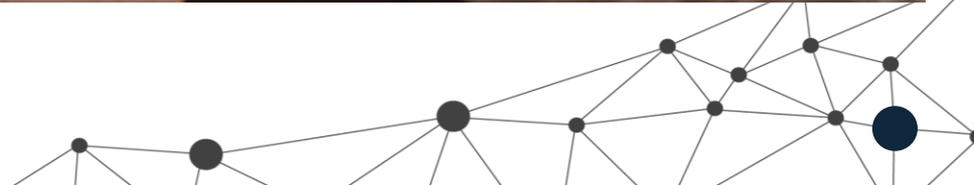
Lessons & Recommendations

- COVID 19 has not only renewed the focus on universal access and universal service but also the importance of building local capacities as communities are the first respondents in times of a crisis or a disaster.
- With COVID 19 responses being largely online, the unconnected are excluded from not just access to the internet but much needed information and services that affect livelihoods, education and health.
- Community networks are about enabling local capacities- to provide access to the internet, enable localising of content and digital platforms to meet local needs and building local capacities so that people in the community are not just consumers but also active contributors to the internet ecosystem.
- Policy and regulatory frameworks that support community based connectivity models
- Collaboration with government agencies





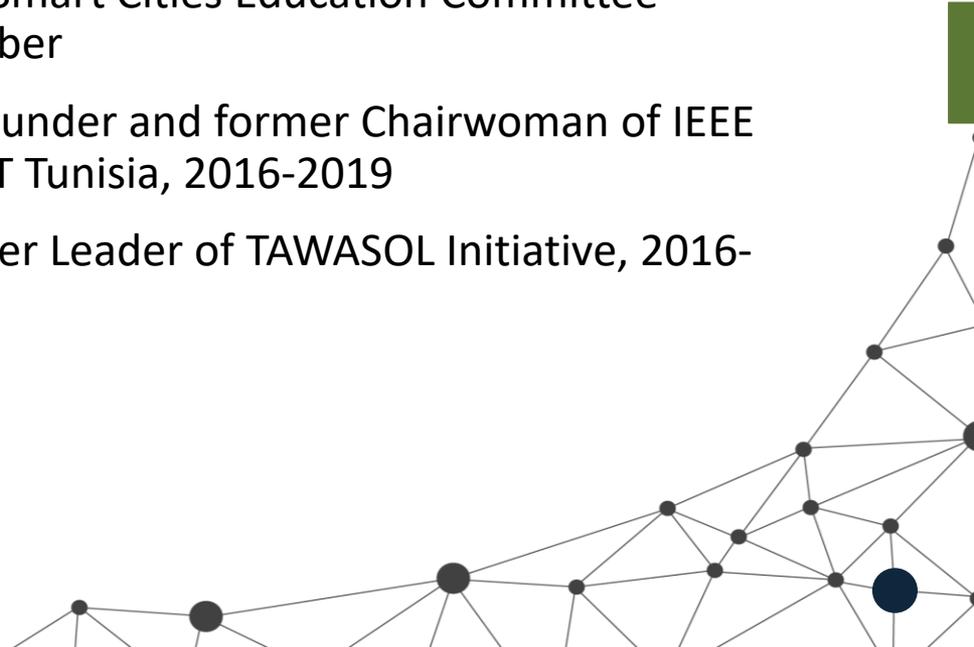
Thank You!
Any questions?
You can find me at:
Twitter: @MsMiliza
Email: josephine@tunapanda.org |
josephine.miliza@gmail.com



Samar Baba



- Operations committee member, IEEE Special Interest Group on Humanitarian Technology (SIGHT)
- IEEE Smart Cities Education Committee member
- Co-founder and former Chairwoman of IEEE SIGHT Tunisia, 2016-2019
- Former Leader of TAWASOL Initiative, 2016-2019



IEEE Tunisia SIGHT – TAWASOL Project



TUNISIA SECTION

IEEE

SIGHT

SPECIAL INTEREST GROUP IN HUMANITARIAN TECHNOLOGY



4 million children in Siria |
need humanitarian aid



5 FACTS
YEMEN'S
HUMANITARIAN
CRISIS

13.1 mln

13.1 mln Yemenis have no access
to clean water and adequate
sanitation

SOURCE: UNOCHA PHOTO: REUTERS/Khaled Abdullah

THOMS
FOU



300 million people live without electricity in India



Floods in Gunja (Croatia) affected more than 7000 people



Litter of Light DIY project



Solar station project in refugee camp



SIGHT interest group

IEEE SIGHT

Special Interest Group on
Humanitarian Technology

Special Interest Group on Humanitarian Technology

A globe is shown in the background, overlaid with a network of white lines and dots, representing a global network or technology. The globe is partially obscured by a dark blue horizontal bar that contains the title.

SIGHT is a network of IEEE volunteers around the globe that partner with underserved communities and local organizations to leverage technology for sustainable development.

Our team & project



Team of young Tunisians

sight.ieee.tn



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IEEE TUNISIA SIGHT



Ambassadors activities

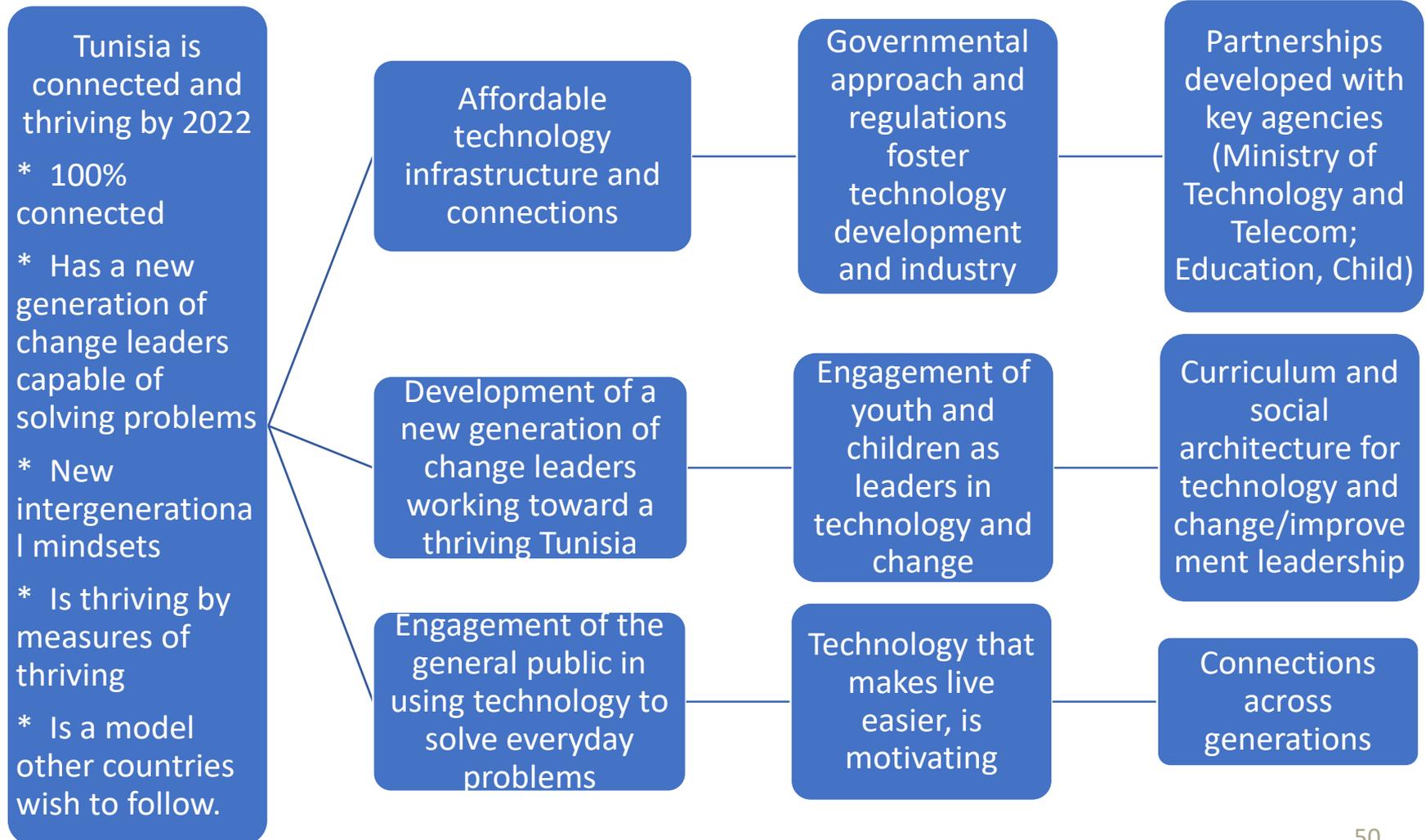


Meeting the Founder of Internet and Our Partner – Vint Cerf

TAWASOL

- **Vision:** A thriving, connected Tunisia with a new generation of change leaders capable of addressing Tunisia's challenges.
- **Mission:** Develop change leaders who can pioneer effective social change through technology and connection
- **Approach:**
 - Accomplish this by investing in youth, technology and STEAM as a means for empowering connection and problem-solving.
 - Connect people in two ways:
 - technical (infrastructure) and
 - human (building an education and social change process that fosters interaction between communities) to create human thriving.
 - Developing a TAWASOL afterschool program in connected schools that grows change leaders who can use technology to contribute to human thriving

Aims and drivers





تواصل

IEEE SIGHT

Special Interest Group on
Humanitarian Technology









Thank you!

Q&A Session

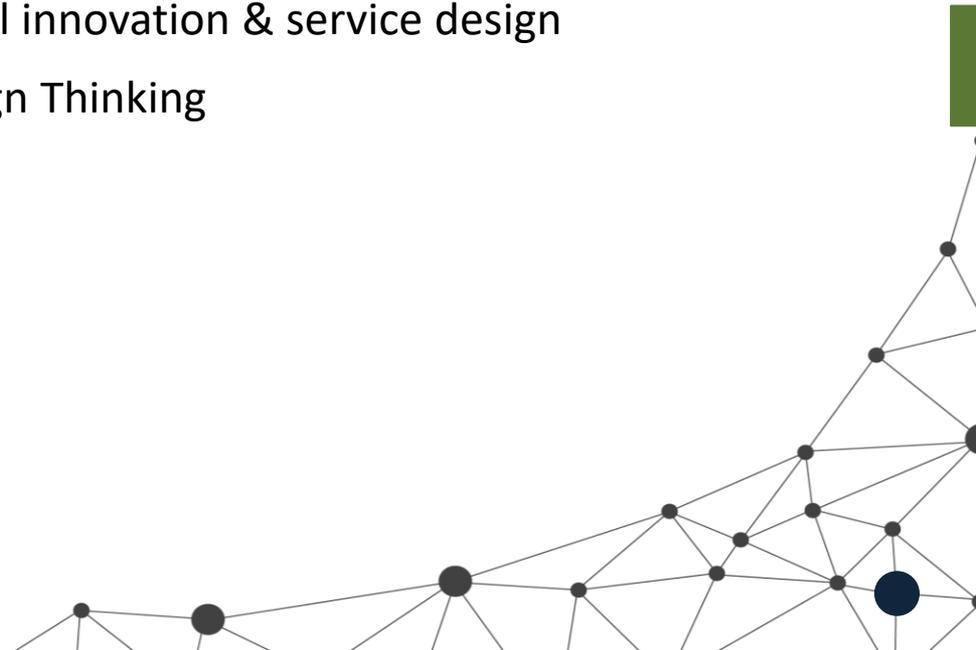
Please type your questions and comments in
the public chat



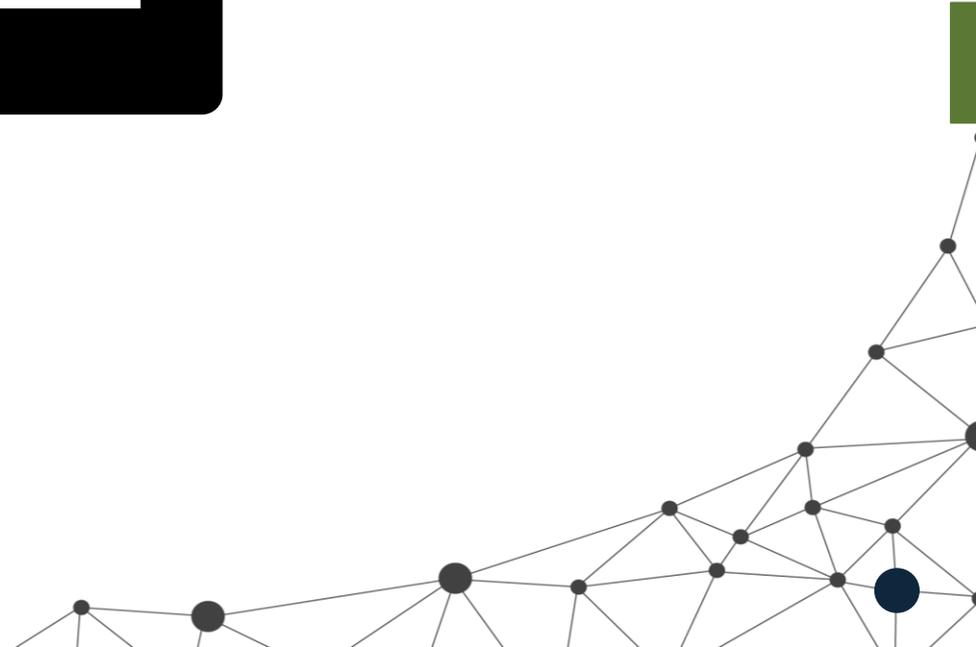
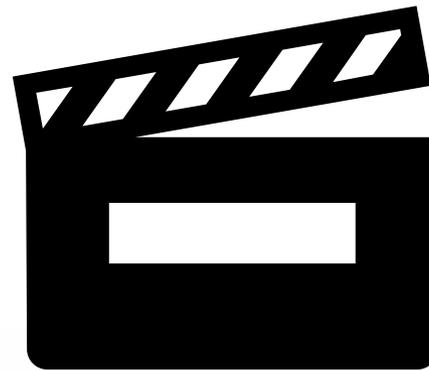
Jorge Rodriguez



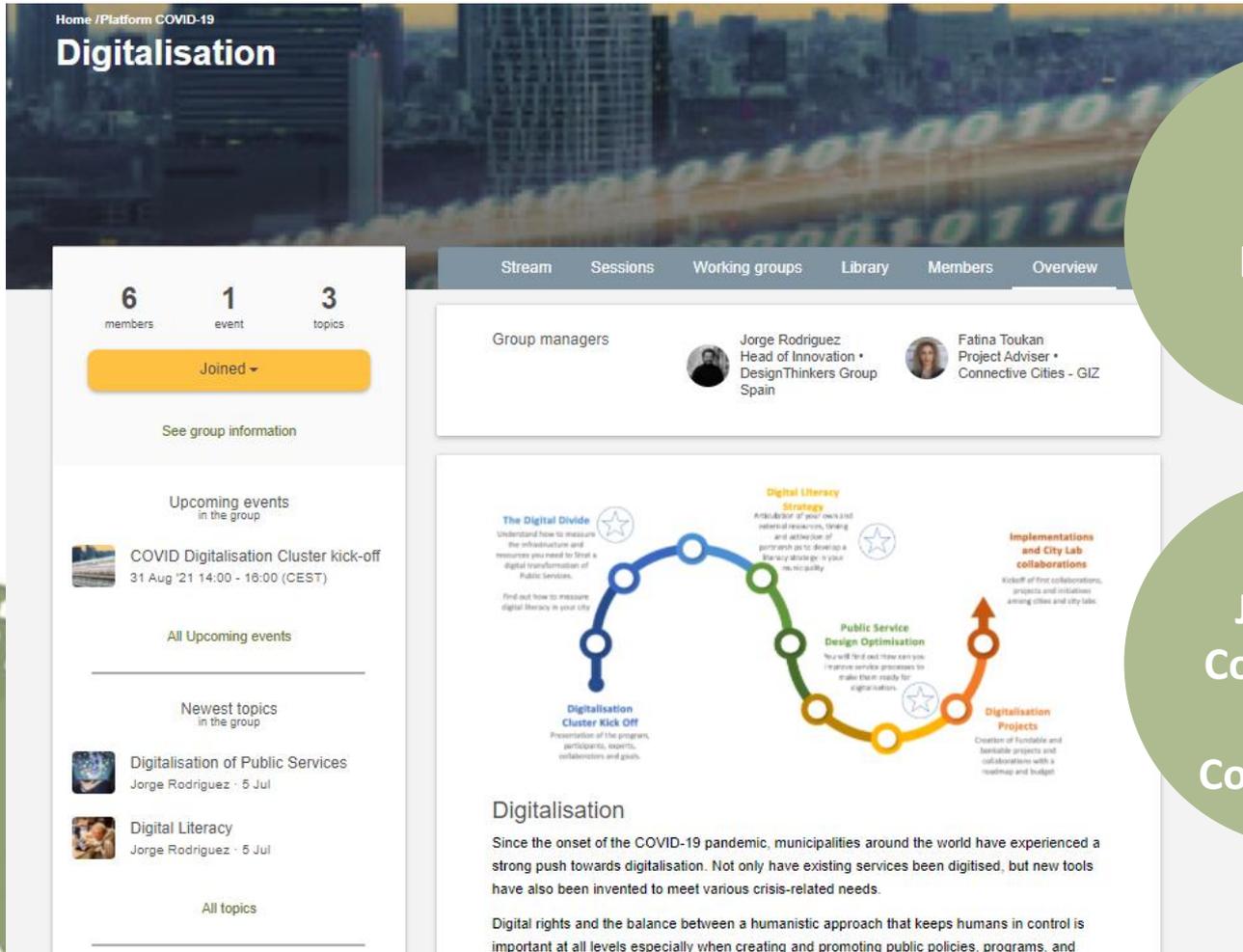
- Head of Innovation at DesignThinkers Groups Spain
- Culture and communication studies
- Social innovation & service design
- Design Thinking



Introduction Cluster Digitalisation



Join the Digitalisation Cluster in the Connective Cities Community



Home / Platform COVID-19

Digitalisation

6 members 1 event 3 topics

Joined ▾

See group information

Upcoming events in the group

 COVID Digitalisation Cluster kick-off
31 Aug '21 14:00 - 16:00 (CEST)

All Upcoming events

Newest topics in the group

 Digitalisation of Public Services
Jorge Rodriguez · 5 Jul

 Digital Literacy
Jorge Rodriguez · 5 Jul

All topics

Stream Sessions Working groups Library Members Overview

Group managers

Jorge Rodriguez
Head of Innovation *
Design Thinkers Group
Spain

Fatima Toukan
Project Adviser *
Connective Cities - GIZ

The Digital Divide
Understand how to measure the infrastructure and resources you need to find a digital transformation of Public Services.
Find out how to measure digital literacy in your city.

Digital Literacy Strategy
Articulate if your city has a national reference, timing and activation of your strategy to develop a literacy strategy in your municipality.

Public Service Design Optimisation
You will find out how can you improve service processes to make them ready for digitalisation.

Implementations and City Lab collaborations
Kickoff of first collaborations, projects and initiatives among cities and city labs.

Digitalisation Cluster Kick Off
Presentation of the program, participants, experts, collaborators and goals.

Digitalisation Projects
Creation of fundable and bankable projects and collaborations with a roadmap and budget.

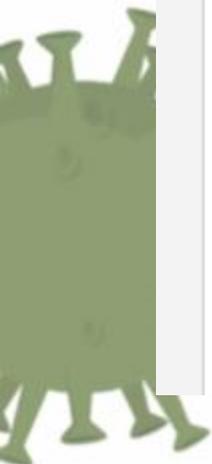
Digitalisation

Since the onset of the COVID-19 pandemic, municipalities around the world have experienced a strong push towards digitalisation. Not only have existing services been digitised, but new tools have also been invented to meet various crisis-related needs.

Digital rights and the balance between a humanistic approach that keeps humans in control is important at all levels especially when creating and promoting public policies, programs, and

→
Cluster
kick-off
31.08

→
Join the
Connective
Cities
Community



Upcoming Insight Sessions



The importance of disaster preparedness in cities and municipalities
01.09.2021



Pop-up bike lanes: Long-term opportunities for green urban development after the COVID-19 pandemic?
08.09.2021



Urban diplomacy and cross-border solidarity in times of crisis
29.09.2021

→ Open to enrol in the Connective Cities Community





Thank you very much for your participation!

Get connected on www.connective-cities.net

And on Social Media



.... join our Connective Cities Community:

<https://community.connective-cities.net/en>

Partners of Connective Cities



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