Open & Agile Smart Cities Martin Brynskov, Chair, OASC

> Digital4Planet, 16 March 2021



Martin Brynskov

Chair, Open & Agile Smart Cities (OASC)

Director & Associate Professor, Aarhus University DITCOM – Centre for Digital Transformation of Cities & Communities

Vice-Chair, Living-in.EU Tech & UN U4SSC Coordinator, NGIoT, SCORE & SynchroniCity Chair, Danish Standards Committee on SSCC (ISO TC268/ITU SG20) Partner, Smart City Cluster Denmark

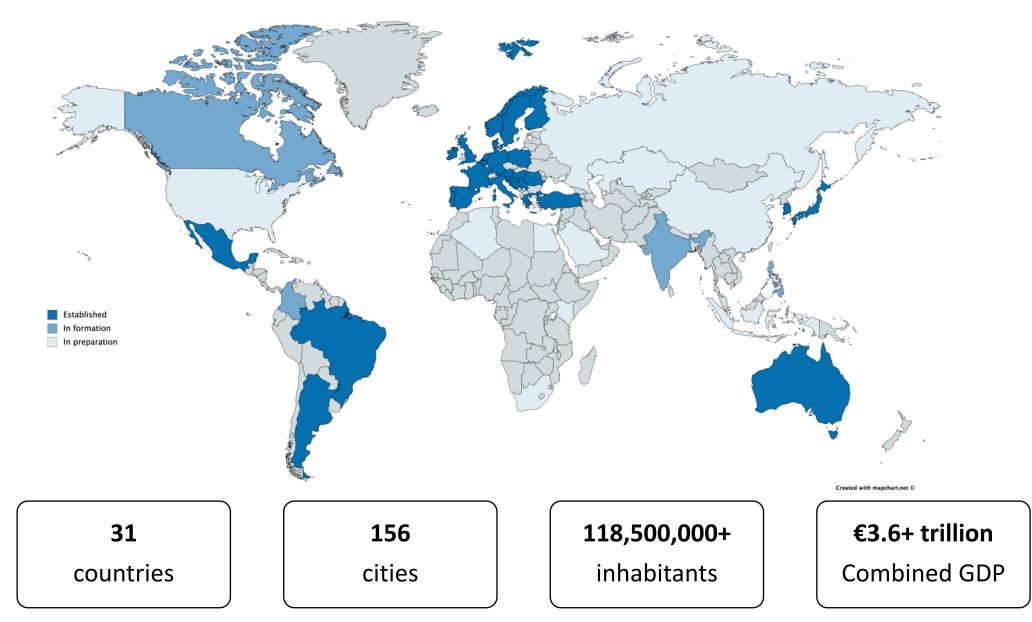


oascities.org ditcom.au.dk











>Minimal Interoperability Mechanisms ()

Status and roadmap

INFORMATION

MIM 1: Context (semantic and physical)

MIM 2: Data Models



MIM 3: Marketplace enablers (Ecosystem Transaction Management)

INTEGRITY – Security, Trust, Ethics MIM 4: Personal Data Management MIM 5: Fair AI

IMPACT – Monitoring & Measuring MIM X: Circular Resource Management





MIMs 1-3 adopted by OASC Council of Cities 2019. MIMs 4-5 approved as work items 2020. New MIMs to be proposed to OASC Technology Council.







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SYNCHRONICITY IoT Large-Scale Pilot for Smart Cities & Communities



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No732240 Co-funded by



SYNCHRONICITY The Power of Minimal Interoperability

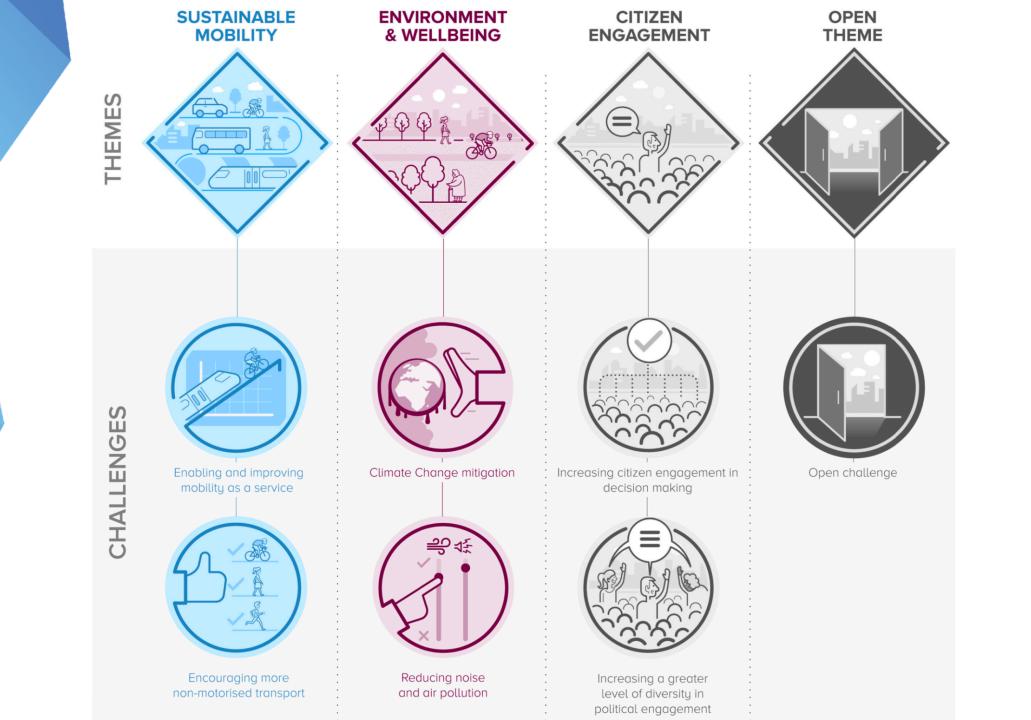
- 50 services
- 21 cities
- 16 SME-led teams
- 6 months

Core project: 20m€ · 34 partners More information: synchronicity-iot.eu



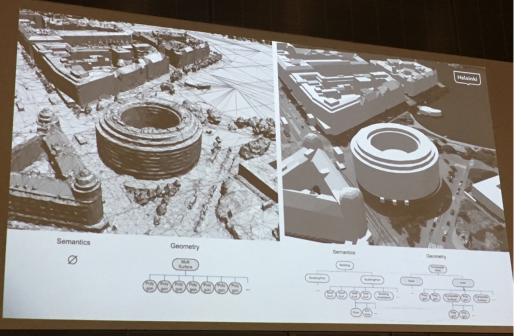














RAINBRAIN: THE SMART BLUE-GREEN ROOF

piloted in the framework of SynchroniCity

National guides

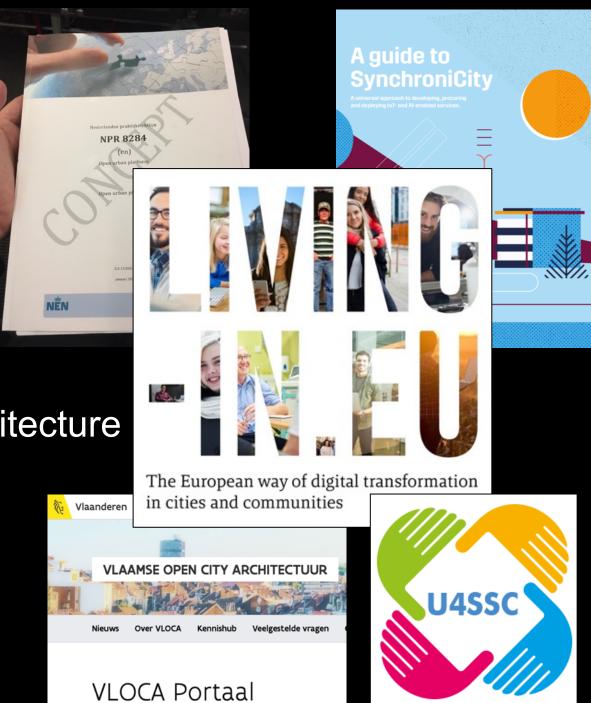
- Denmark \rightarrow DS/KL
- Sweden \rightarrow KLASSA/SKR
- Netherl. \rightarrow NEN/VNG
- Flanders \rightarrow VLOCA
- Japan \rightarrow Society 5.0

EU/Global

- Living-in.EU \rightarrow MIMs+
- UN SDGs → U4SSC/New Architecture
 - → SG20 FG-DPM

Commercial

- National
- Global region
- Global / hyperscalers



Overview commitments

Assess and develop legal measures

for a common EU framework

Legal

3





2.1

2.2

2.3

Technical

Common list of Standards &

Key Enablers - Available for All

Technical Specifications

Common Marketplace

1.1 Joint Investment Plan

1.2 Multi-level synergies

1.3 Local digital transformation with EU funds

1.4 Use common procurement practices



4.1 Develop administrative capacities



EU2019.FI

5 Framework based on existing methodologies

4.2 Citizen-centric design approaches

4-3 Digital education and skills for public authorities and businesses

4.4 Provide digital education and skills to the public

4.5 Culture of co-creation, participative and cross-sector approach

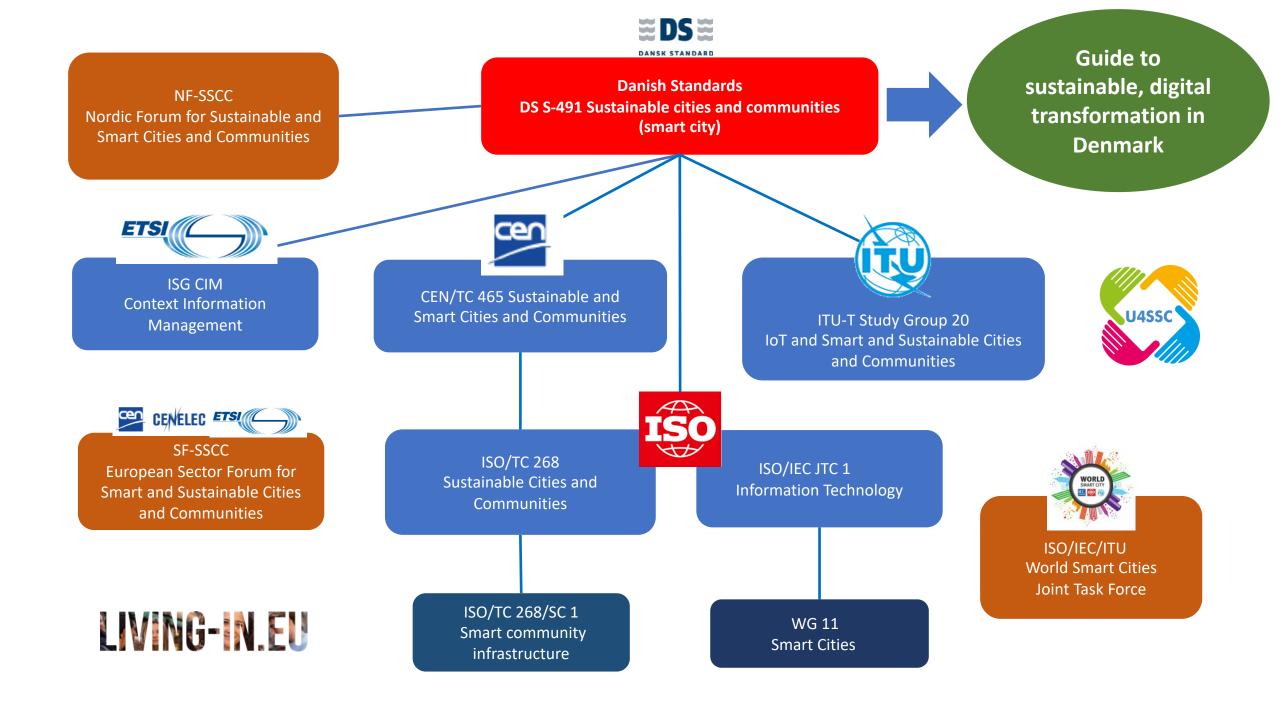
4.6 Facilitate and coordinate activities for scaling-up

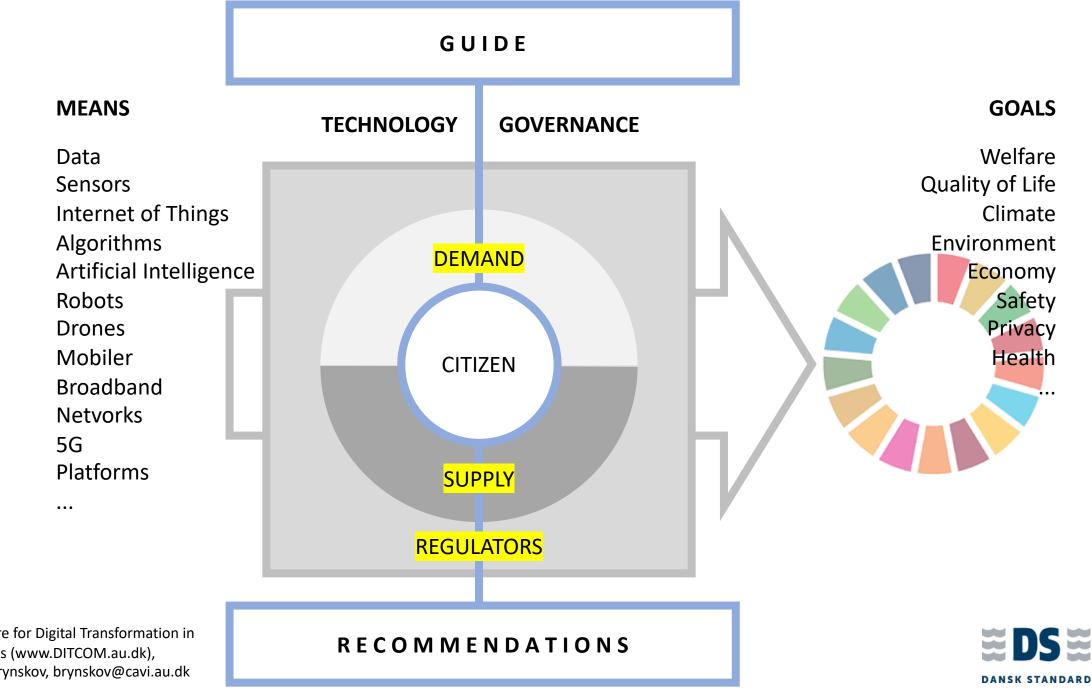
4.7 Opportunities that can accelerate deployment DI Hs

OPEN & AGILE SMART CITIES

EURO

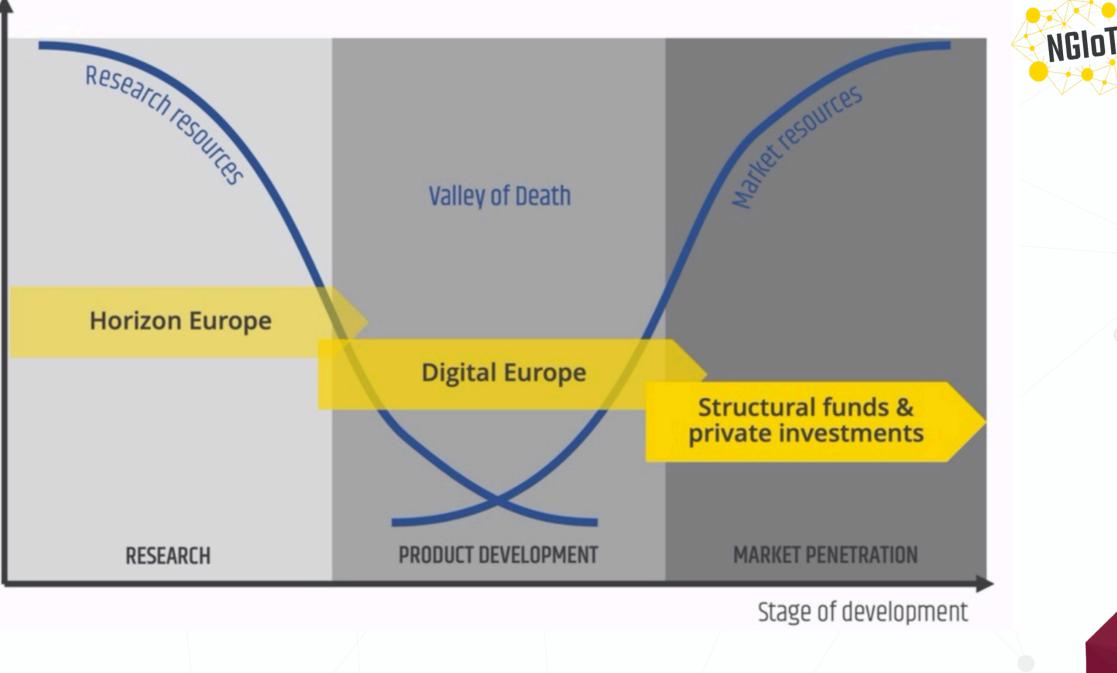




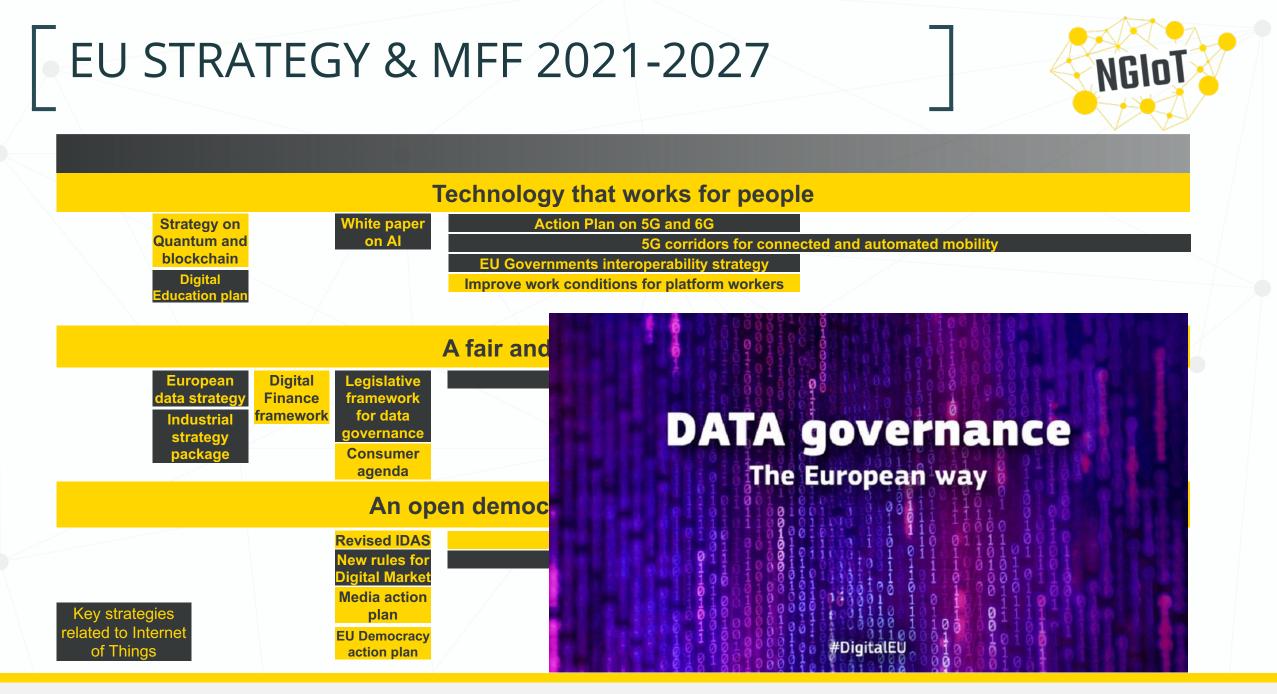


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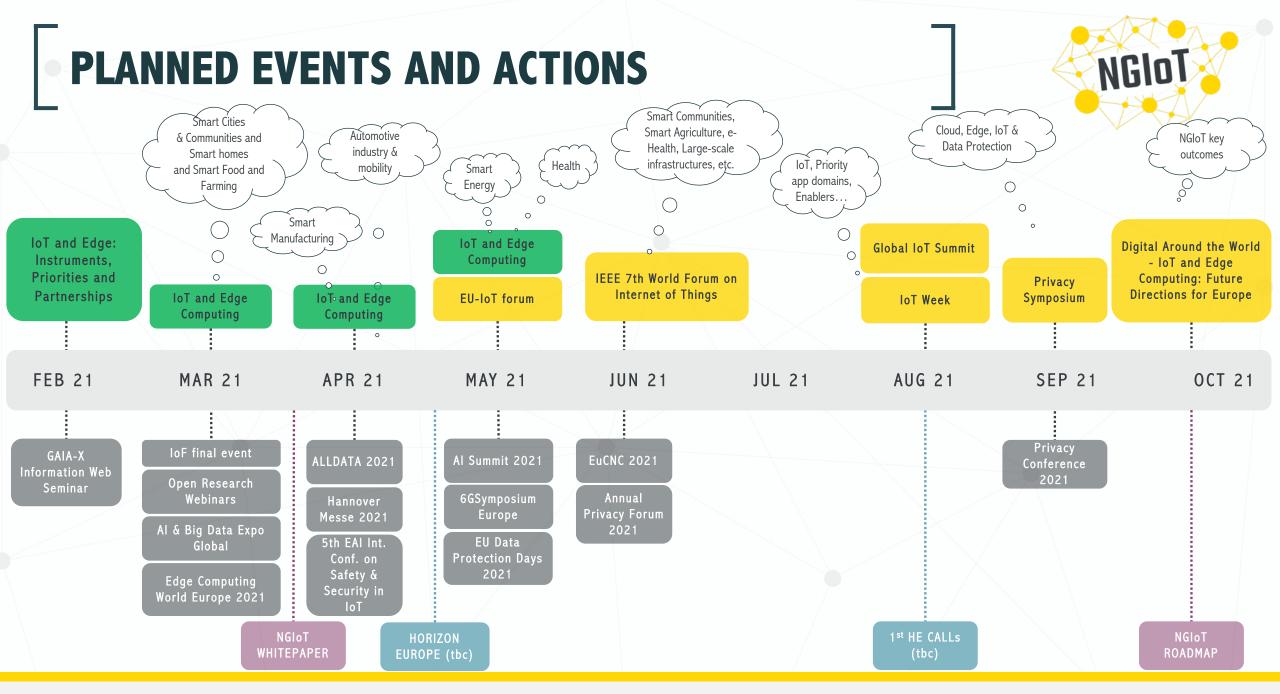




Next Generation Internet of Things

EU Instruments – a selection

- Horizon Europe, CEF2, RRF
 - Missions, Green Deal
- Digital Europe Programme
 - data spaces: smart cities & communities
 - local data platforms
 - local digital twins
 - interoperability
- EU Rolling Plan for ICT Standards
- Living-in.EU
 - Tech specs: MIMs Plus [link]
- EDIH network



Next Generation Internet of Things

WORKSHOPS: IOT & EDGE



Theme	Date	
I: Future Directions for Europe	11 Sept. 2020	
II: The Far Edge	7-8 Dec. 2020	
III: Positions and Priorities	25 Feb. 2021	
Smart Cities & Communities Agri-food · Rural Smart Communities	30 March 2021	IoT and Edge C The Far Edge
Manafaotaring Mobility and automotive	-27 April 2021	
Energy Health	18 May 2021	ABOUT PROJECTS - GET FUNDED - NEWS - EVENTS RESOURCES - CONTACT
		IoT and Edge: Instruments, Priorities and Partnerships
		WHEN: February 25, 2021 @ 9:30 am - 12:30 pm
		The purpose of the workshop is to take stock and consolidate on the key messages from the previous workshops on IoT and Edge computing, organised by the Horizon 2020 project NGIoT, held on <u>11 September</u> and <u>7/8</u> <u>December 2020</u> . NGIoT invites European industry and the public sector to reflect on the results from these workshops and convey their position or provide a spontaneous feedback on the role of Edge Computing as they experience it in their relevant sectors. Feedback could be provided orally or through quote and/or expression of interest in supporting
Next Generation Internet of Things 26/03/2021		the future strategic discussion on Edge Computing at the European level. We welcome your vision
5 1		