Open & Agile Smart Cities Martin Brynskov, Chair, OASC

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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

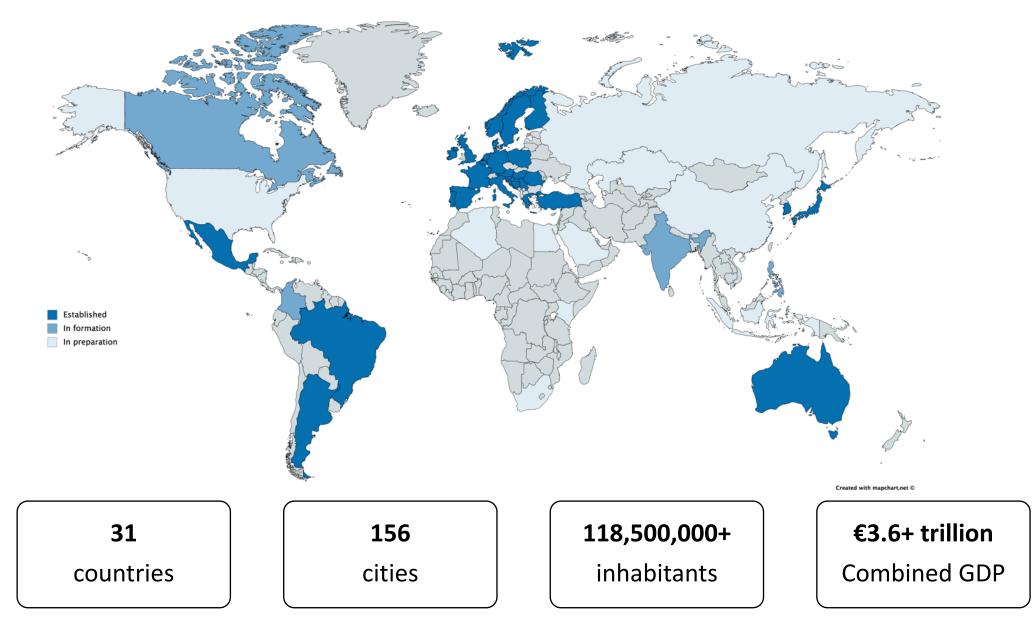


oascities.org ditcom.au.dk











>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

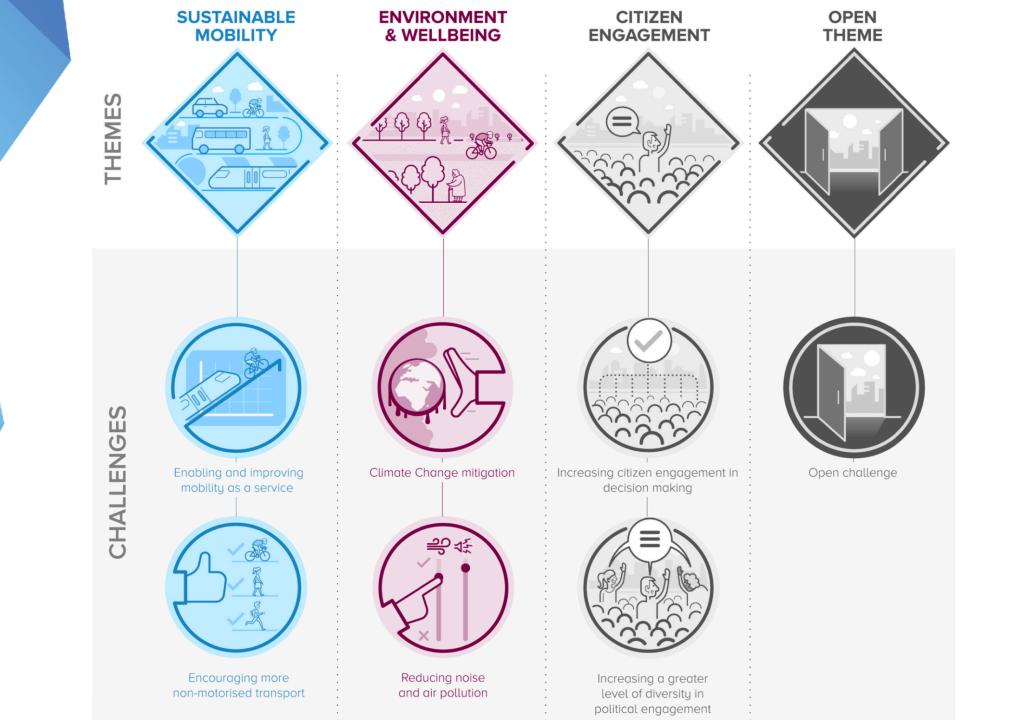
- 50 services
- 21 cities
- 16 SME-led teams
- 6 months

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



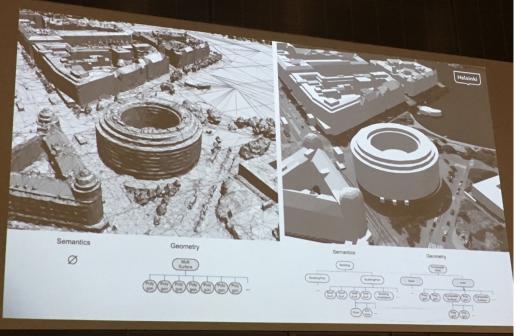














RAINBRAIN: THE SMART BLUE-GREEN ROOF

piloted in the framework of SynchroniCity

National guides

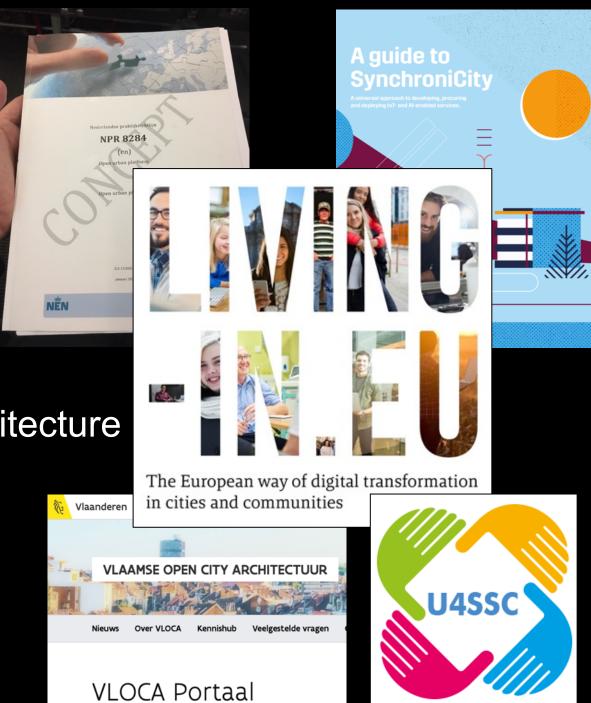
- Denmark \rightarrow DS/KL
- Sweden \rightarrow KLASSA/SKR
- Netherl. \rightarrow NEN/VNG
- Flanders \rightarrow VLOCA
- Japan \rightarrow Society 5.0

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

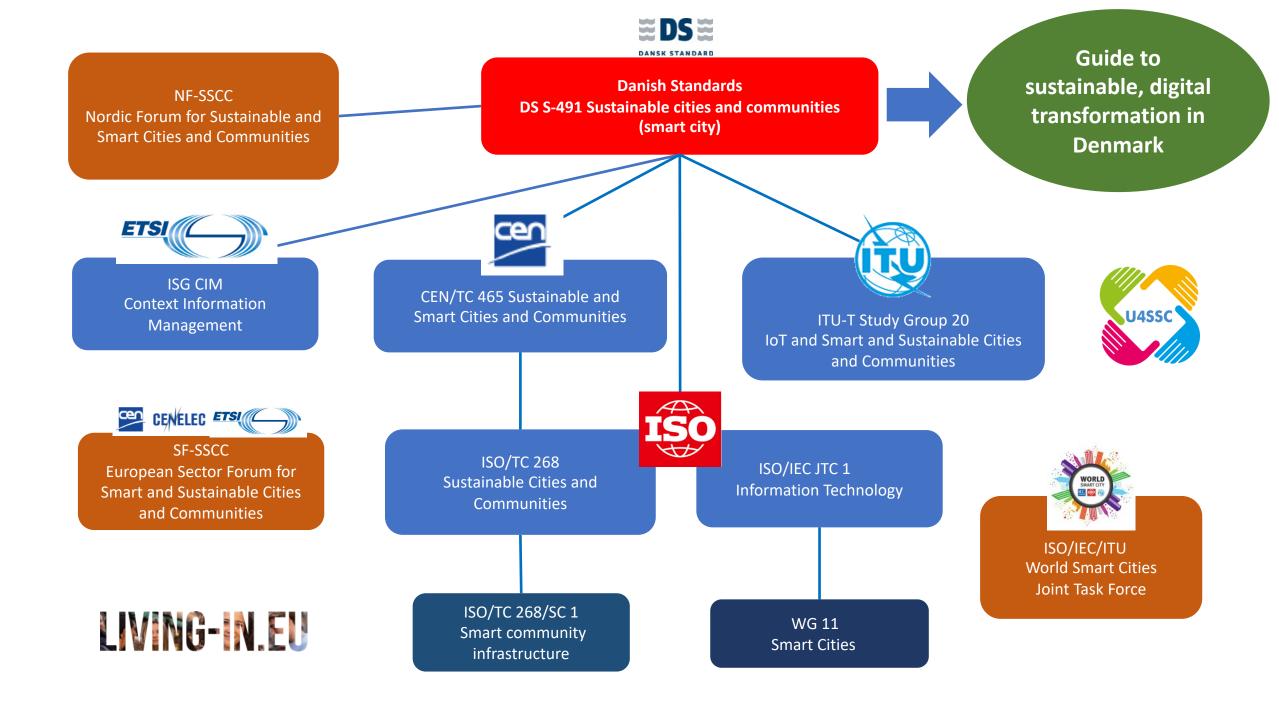
4.6 Facilitate and coordinate activities for scaling-up

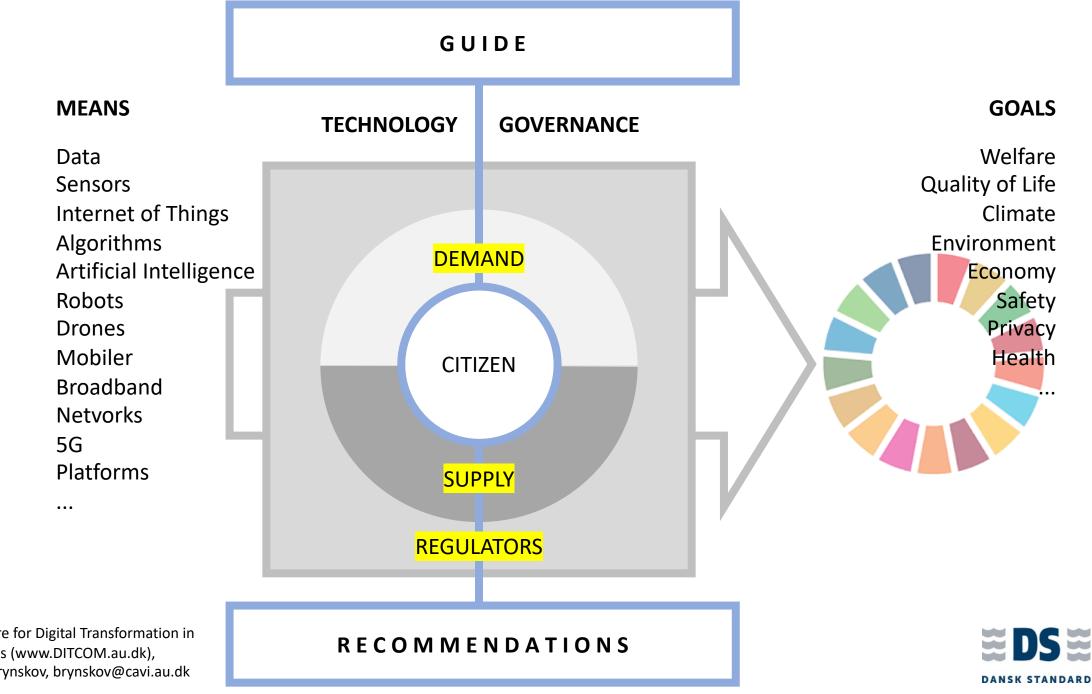
4.7 Opportunities that can accelerate deployment DI Hs

OPEN & AGILE SMART CITIES

EURO

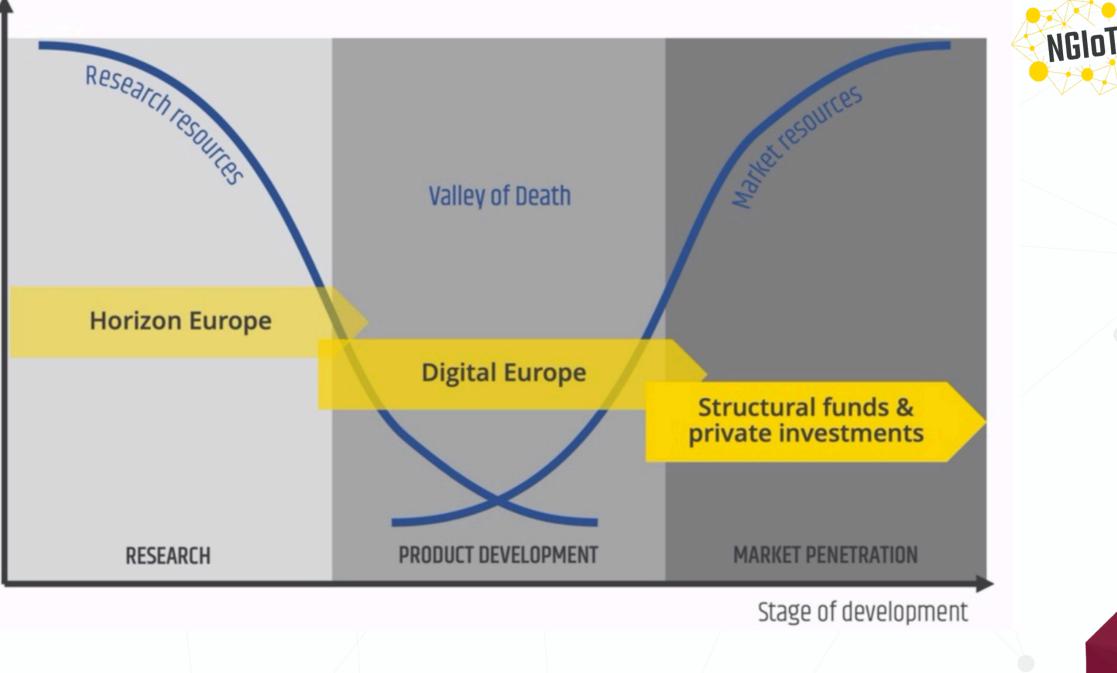




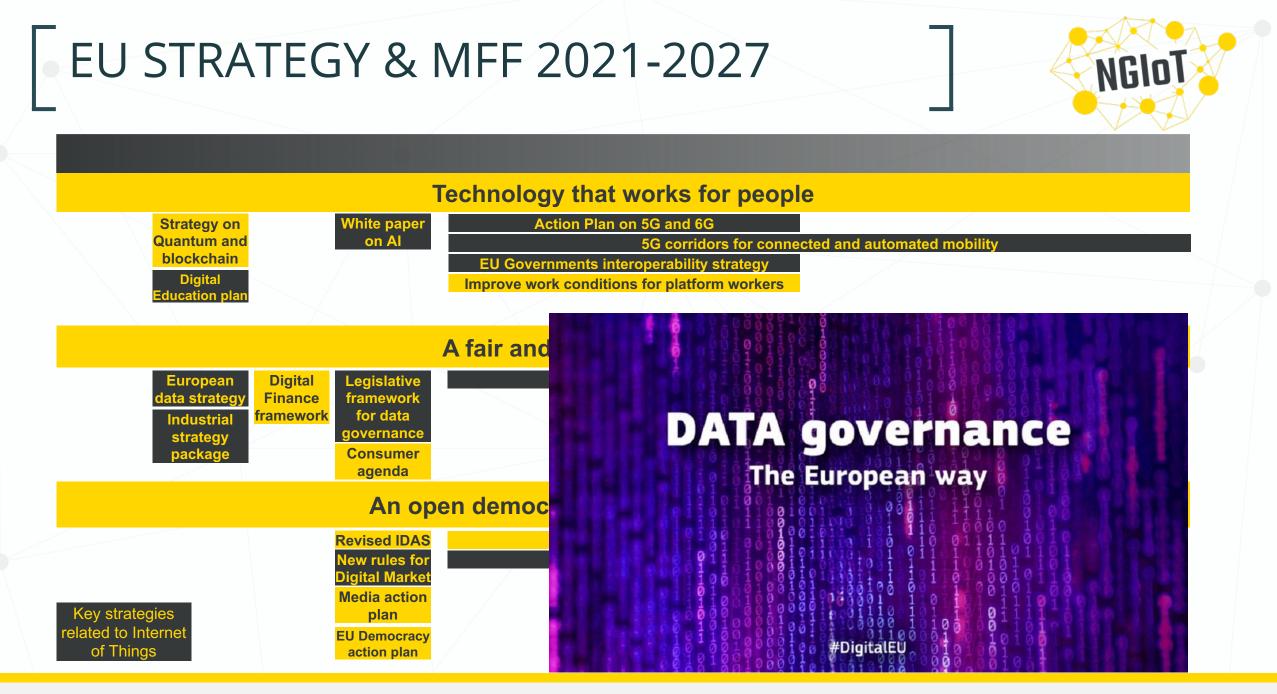


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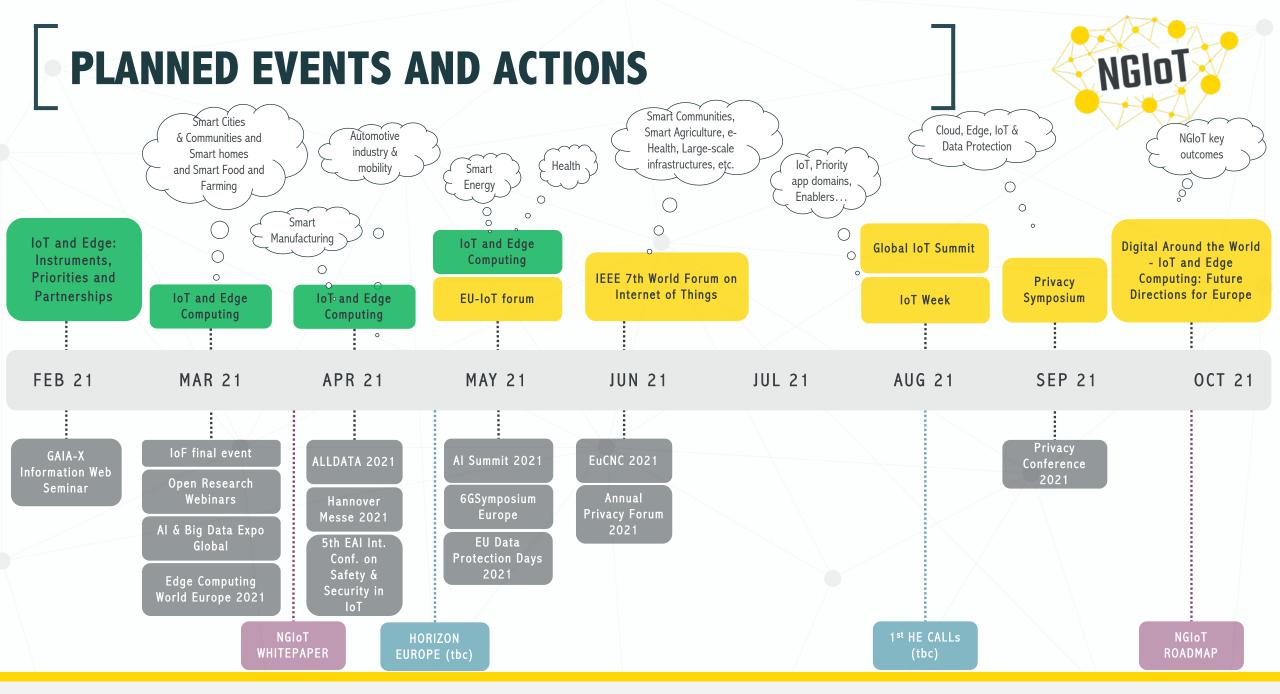




Next Generation Internet of Things

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 | | |