NGIOT THEMATIC WORKSHOP:
AUTOMOTIVE INDUSTRIES AND MOBILITY

15 june 2021 | 1:30 pm – 4:30 pm

Hosted by NGIoT with EU-IoT, ARTEMIS-IA, AIOTI, and the European Commission, DG Connect.

HOUSEKEEPING RULES

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All participants except speakers and moderators will be muted by default.

If you are not a speaker, please turn off your video.

Feel free to post your questions in the Zoom chat.

If you would like to speak, raise your hand and wait for the moderator to give you the floor.

If you have any technical issue, please contact the Zoom Host on the chat or send us and e-mail at: info@ngiot.eu

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NGIOT THEMATIC WORKSHOP
AUTOMOTIVE INDUSTRIES AND MOBILITY

MODERATOR

Martin Brynskov

NGIoT coordinator, Prof. Aarhus University, DITCOM

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13:30 –13:45

WELCOME

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13:30

13:45

Martin Brynskov

NGIoT coordinator. Prof. Aarhus University, DITCOM

Rolf Riemenschneider

Head of Sector, IoT, European Commission

Zoe de Linde

Deputy Head of Unit, European Commission, DG Connect

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NGIoT: IoT and Edge Computing

We need your input!

NGIoT white paper on IoT and Edge computing

October 2021

May 2021

NGIoT Roadmap for IoT Research, Innovation and Deployment

EU IOT

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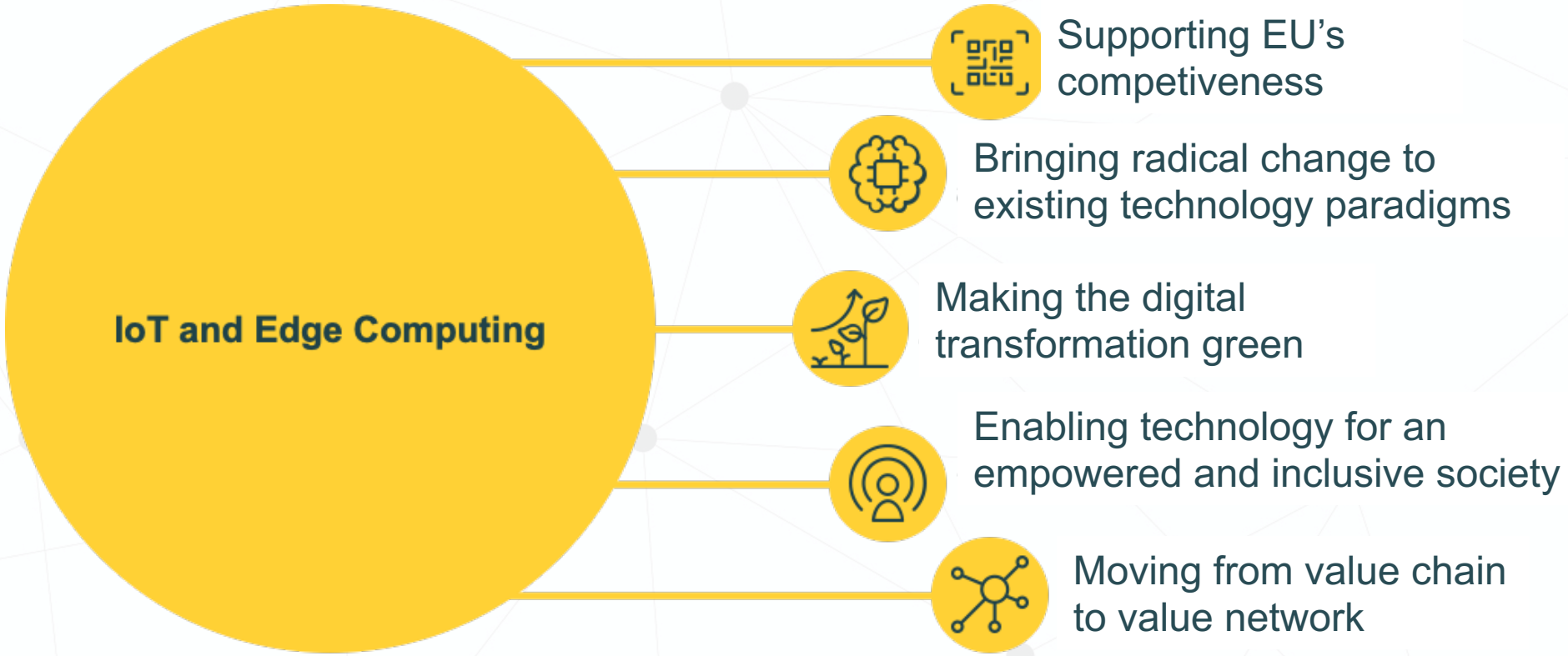
NGIoT whitepaper IoT and Edge computing: key messages and recommendations



EUROPEAN LANDSCAPE

We need your input!

NGIoT

European front runners in Edge-IoT

Application / Services

Support services

Devices & Premises

Main Alliances, Fora & Organisations active in Cloud-Edge-IoT

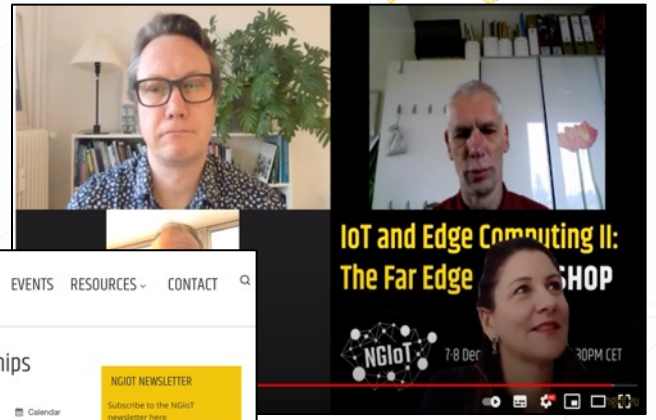
- **Network operators** are front-runners in edge computing investments
- Europe has strong players in **hardware and service providers**. With accelerators ”champions” like Eurotech, Gemalto, Software AG, SAP, Bosch, Deutsche Telekom, Telit, Schneider Electric, etc.
- Moving **from use cases towards platform-centric** environments leaders are non-european AWS, Microsoft

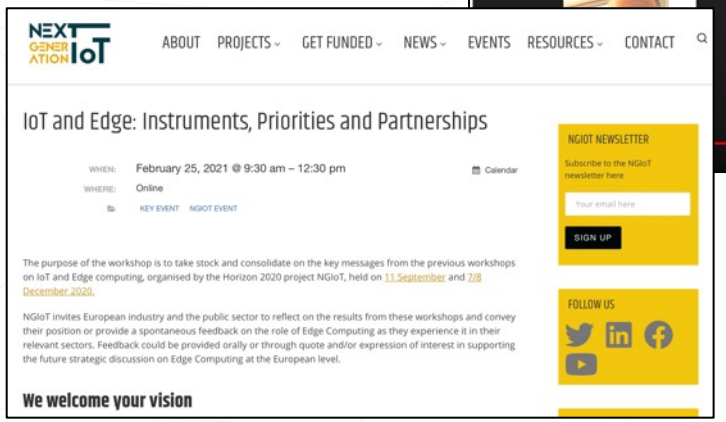
Edge Vendor Quadrants for DACH region

[Source: Internet Of Things (Iot) Vendor & Service Provider Comparison - https://www.reply.com/Documents/Report_CVU_IoT_licensed_for_Reply.pdf]

WORKSHOPS: IOT & EDGE

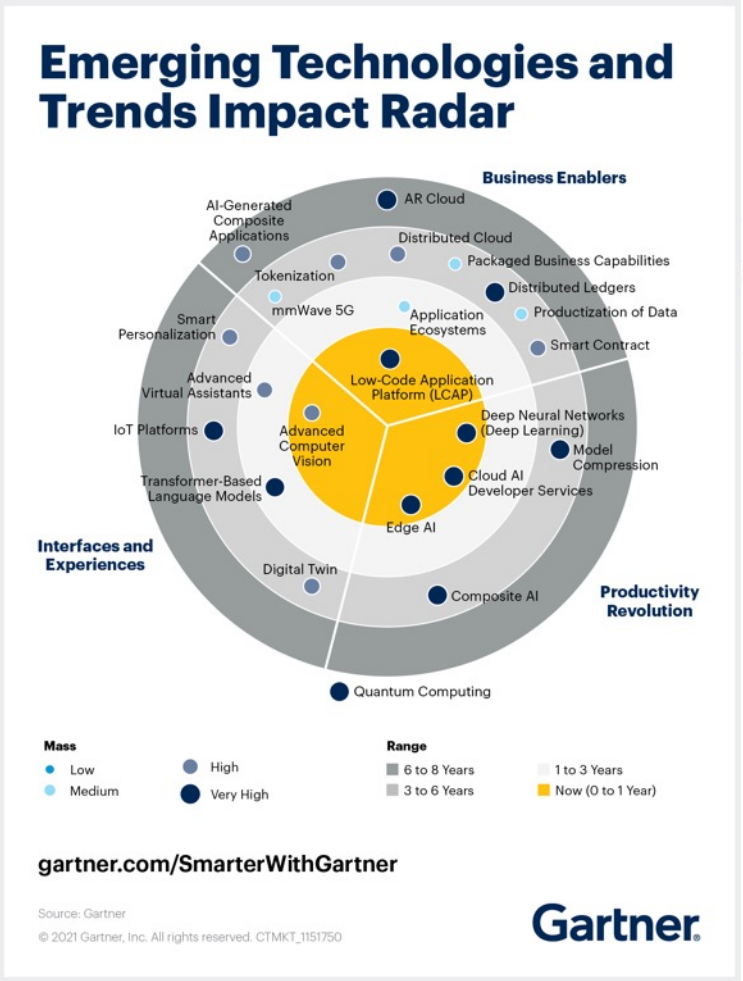
Theme	Date
I: Future Directions for Europe	11 Sept. 2020
II: The Far Edge	7-8 Dec. 2020
III: Positions and Priorities	25 Feb. 2021
Smart Cities & Communities Agri-food · Rural Smart Communities	30 March 2021
Manufacturing Mobility and automotive (tbd)	27 April 2021
Energy Health	18 May 2021



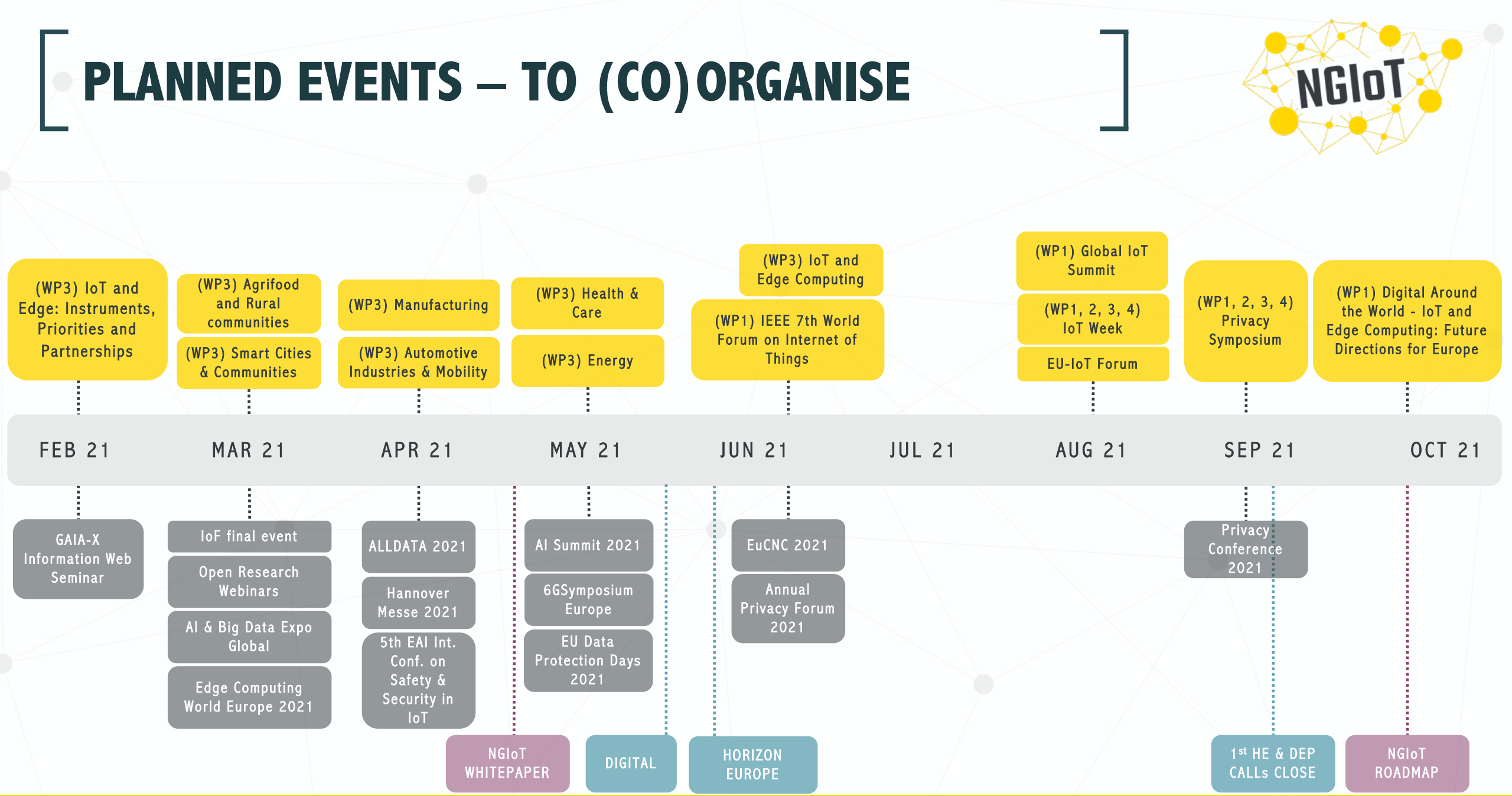


TRENDS

- From cloud to edge
- From IoT to AIoTI
- From monitoring to intelligence
- From global/central to local/decentralized
- Towards a green transformation
- From Big Data to relevant data
- From IoT value chain to value network



PLANNED EVENTS – TO (CO)ORGANISE



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Deputy Head of Unit, European Commission, DG Connect

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13:45 – 15:15

PART I
STRATEGIC AGENDAS AND POSITIONS

STRATEGIC AGENDAS AND POSITIONS
CLOUD-EDGE FOR IN-VEHICLE DATA

PANEL I

Christian Prehofer
Director, Corporate R&D, Denso Automotive

Francois Fischer
AIOTI, Mobility WG Chairman

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PANEL II

Lonneke Driessen
Director Standardization, Elaad NL, and Open Charge Alliance

Adnan Özari
CEO and CTO, Danintra

André Duarte
Head of Future Mobility, Ubiwhere

Massimo Villari
Academic Consultant in Smart Cities for the City Council of Messina

Sami Sahala
ITS Chief Advisor at City of Helsinki

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15:15 – 16:15

PART II
VISIONS AND STATEMENTS

16:15 – 16:30

NEXT STEPS: ROADMAP

NGIoT: IoT and Edge Computing

We need your input!

NGIoT white paper on IoT and Edge computing

October 2021

June 2021

NGIoT Roadmap for IoT Research, Innovation and Deployment

EU IOT

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NEXT STEPS: ROADMAP

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Martin Brynskov

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Rolf Riemenschneider

Head of Sector, IoT, European Commission

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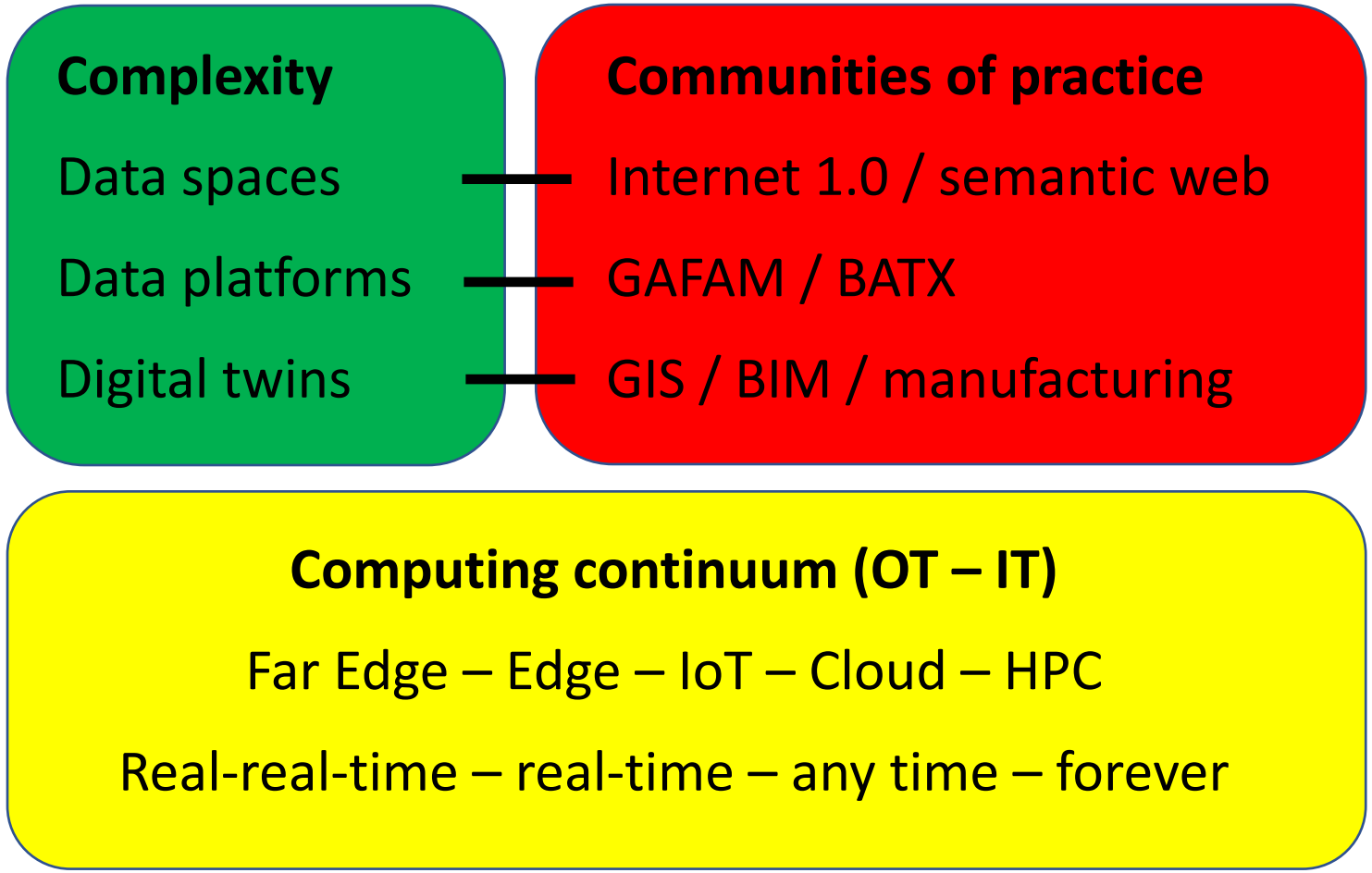
Tech roadmaps

Research & market reality



Governance levels

Local

Regional / State

National / MS

EU

(Other global regions)

Global

National guides

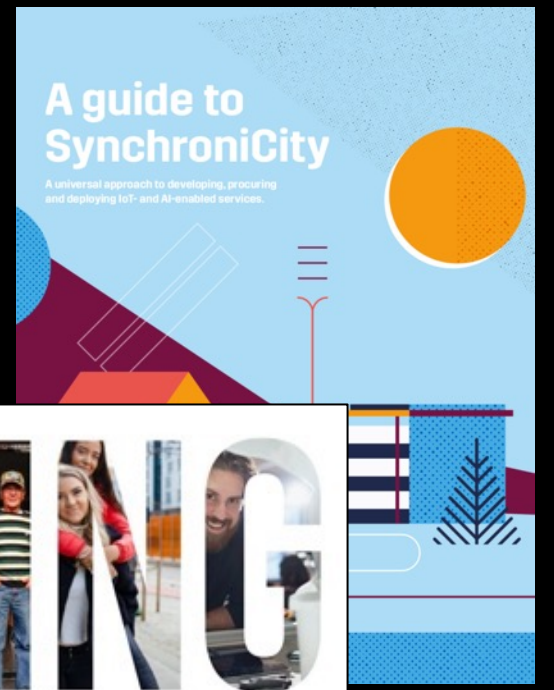
- Denmark → DS/KL
- Sweden → RefARK/SKR
- Netherl. → NEN/VNG
- Flanders → VLOCA/DF
- Japan → Society 5.0

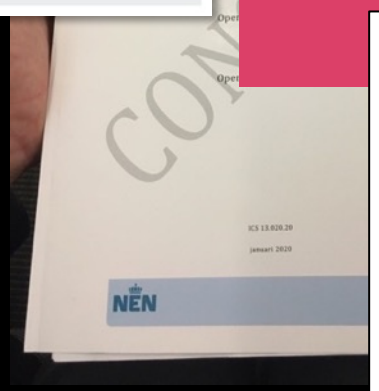
EU/Global

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

Commercial

- National
- Global region
- Global / hyperscalers



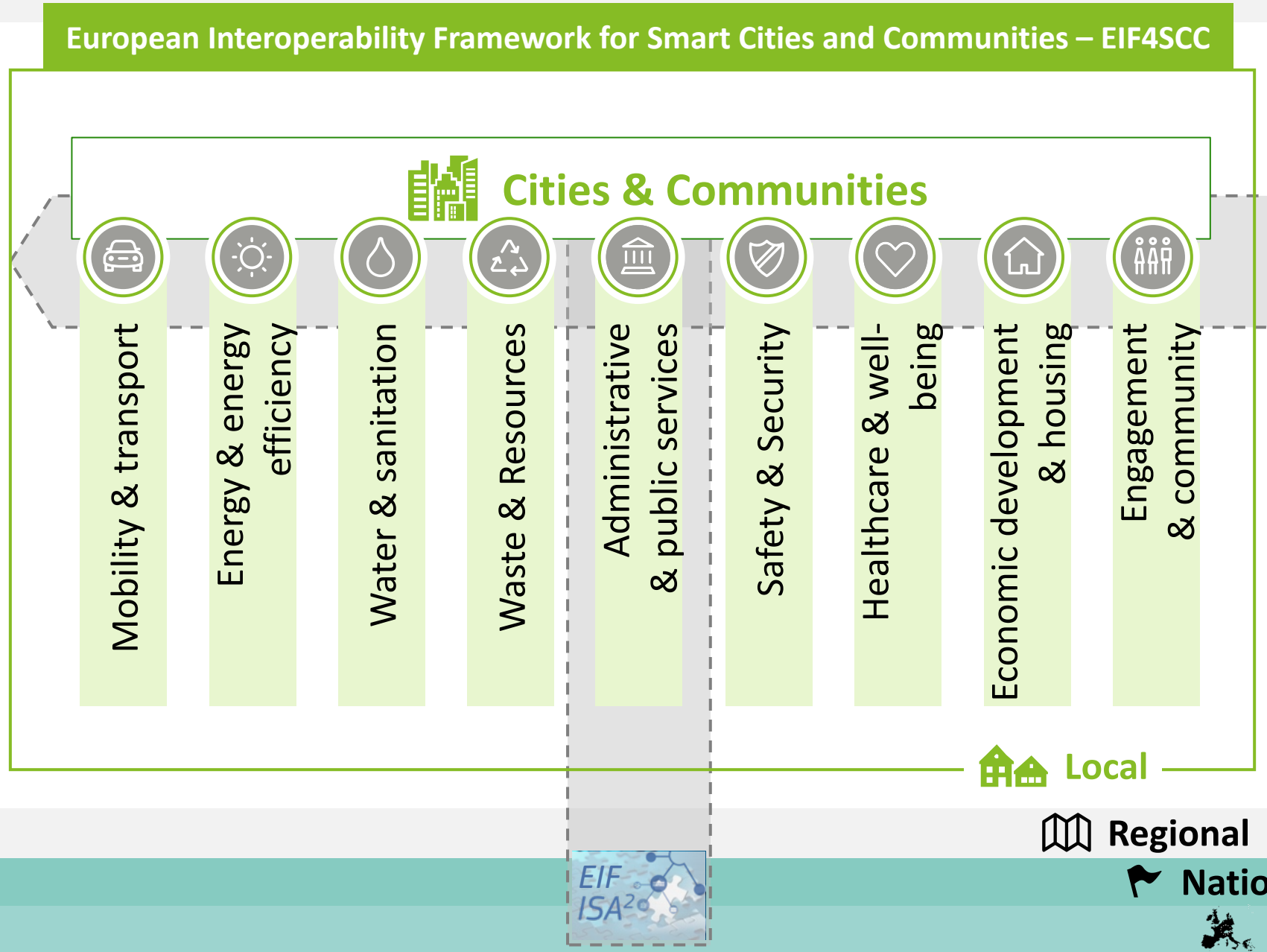


Guide to sustainable, digital transformation

1. Focus on data
2. Build with interfaces (APIs)
3. Ensure a minimum of interoperability
4. Be open towards technology choices
5. Prioritise partnerships and ecosystem
6. Be conscious about maturity and complexity
7. Start small, think big

Available in English in June 2021

https://webshop.ds.dk/da-dk/standarder/standard/ds-inf-1762021



LIVING-IN.EU

MIMs +

...

EU Funded Initiatives

CEF Digital Connecting Europe

URBAN AGENDA FOR THE EU

The European Commission's 100 Intelligent Cities Challenge

...

EU Funded Projects

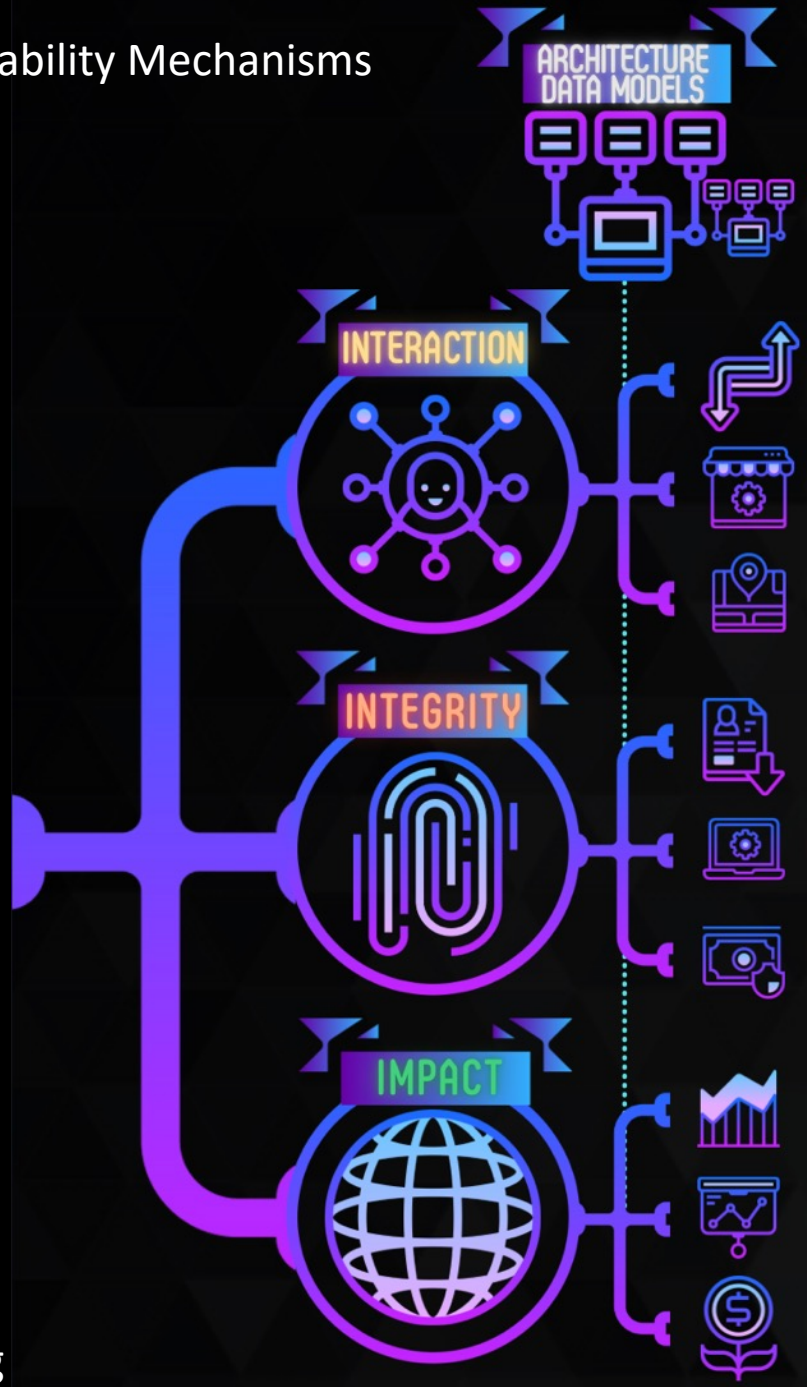
SYNCHRONICITY

triangulum

DEMONSTRATE · DISSEMINATE · REPLICATE

...

Minimal Interoperability Mechanisms



DATA MODELS — MIM2 — OASC MIM2: SHARED DATA MODELS

CONTEXT — MIM1 — OASC MIM1: CONTEXT INFORMATION MANAGEMENT

CONTRACTS — MIM3 — OASC MIM3: ECOSYSTEM TRANSACTIONS MANAGEMENT

PLACES — MIM7 — OASC MIM7: GEOSPATIAL INFORMATION MANAGEMENT

TRUST — MIM4 — OASC MIM4: PERSONAL DATA MANAGEMENT

TRANSPARENCY — MIM5 — OASC MIM5: FAIR ARTIFICIAL INTELLIGENCE

SECURITY — MIM6 — OASC MIM6: SECURITY MANAGEMENT

INDICATORS — MIM8 — OASC MIM8: ECOSYSTEM INDICATOR MANAGEMENT

ANALYTICS — MIM9 — OASC MIM9: DATA ANALYTICS MANAGEMENT

RESOURCES — MIM10 — OASC MIM10: RESOURCE IMPACT ASSESMENT

Documentation:
mims.oascities.org

NEXT GENERATION IoT

THANK YOU FOR YOUR ATTENTION

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