

Become Better Connected

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 Thunderbird School of Global Management
- Former Chief Digital Officer, City of Rotterdam ('21-'23)
- 22+ years in 'smart cities'
- 11 years at Cisco, Digitization Lead, Northern Europe (2015-17)
- Author of A New <u>Digital</u> Deal. Beyond Smart Cities. How to Best Leverage Digitalization for the Benefit of our Communities



I was born in the Year 29 B.G.

Becoming Better Connected.

education Openness broadband **Digital-Twinning**

acceleration transformation PPPs Web

Culture architecture normalization Shared Langua

vision Platform MIMs OASC

Redundancy Regulations Metaverse people

data virtualization security Divides governance roadmaps

connectivity conversation

Inclusion
interoperability











7 Considerations

in order to

Become Better Connected

1.

PURPOSE FIRST!

Debate. Moderate. Curate. Act.

(or: how to move beyond the old smart city narrative)

2. Understand how new technologies change our society



New Technology

New Sources of Value



Doing New Things Differently Optimizing existing ways of doing things



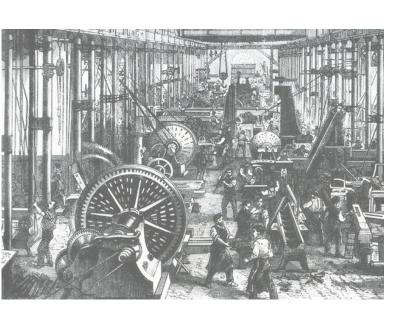
New Skills, Employees, Customers

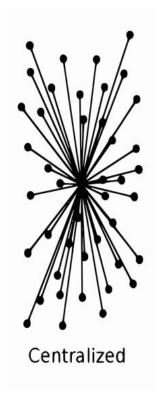
New Business Models

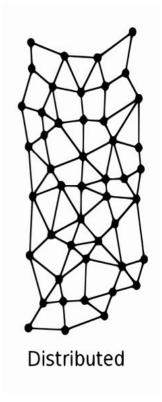
New Modes of Leadership



Digitalization & the Network Paradigm





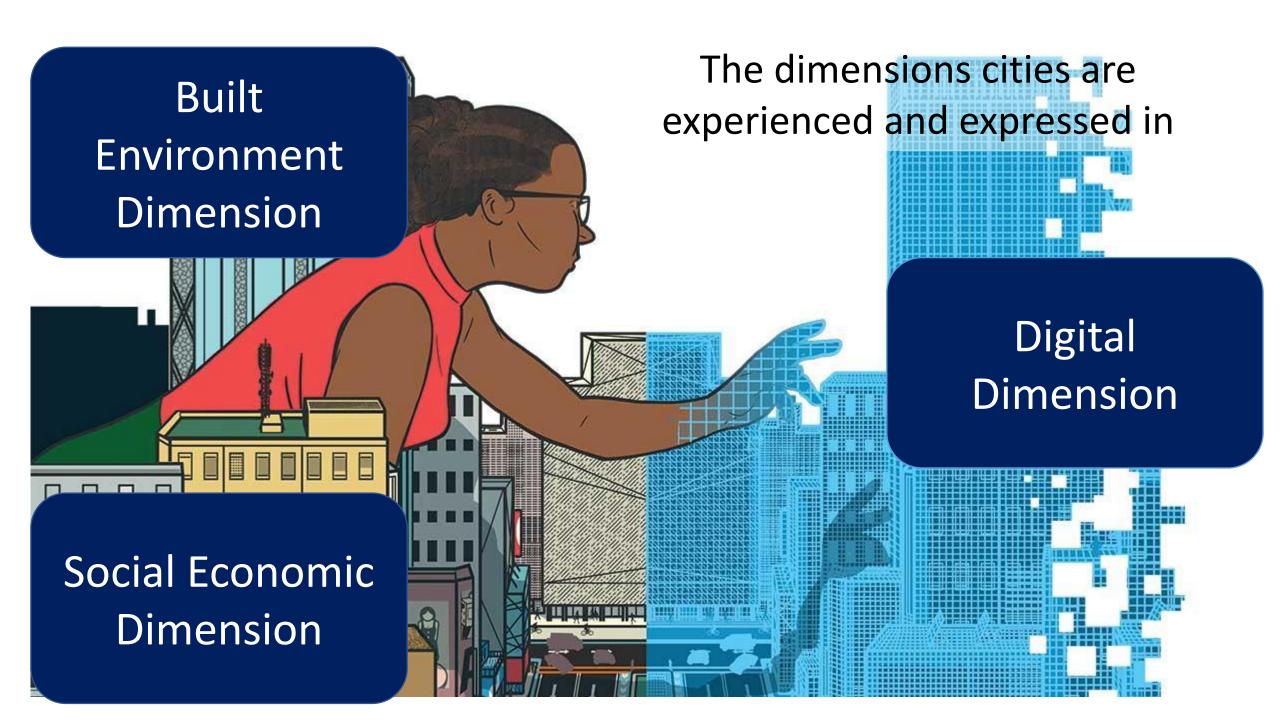




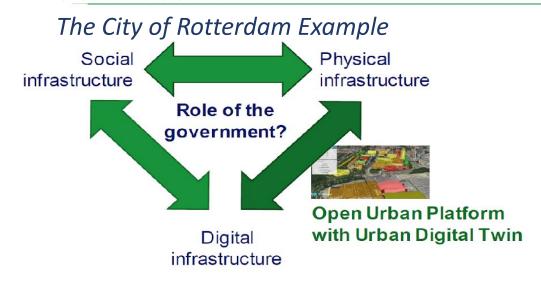
The Network Paradigm: a Design Shift!



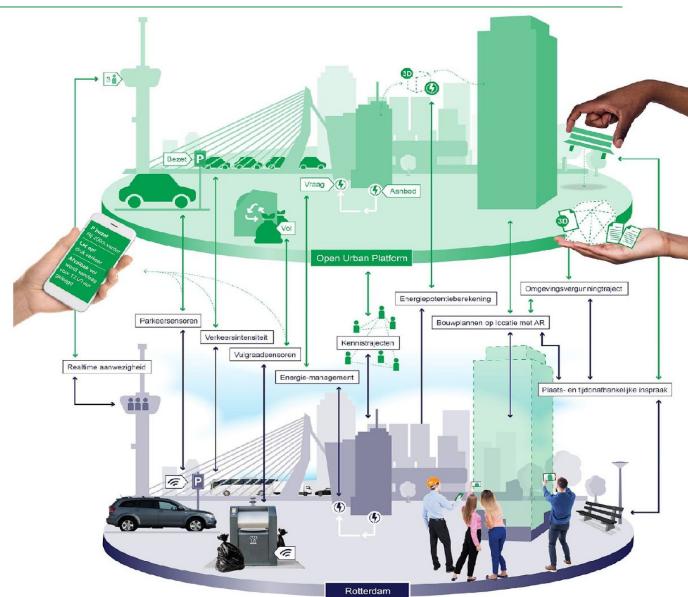




Digital Twin as a Platform for urban information, communication, services



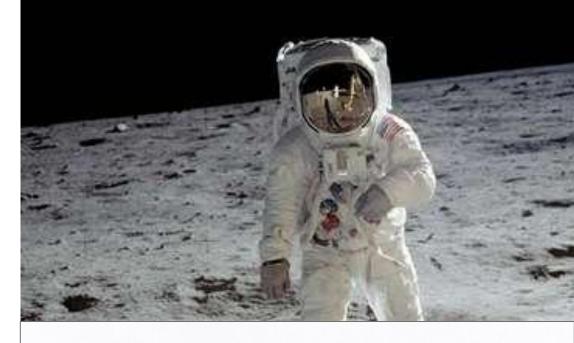


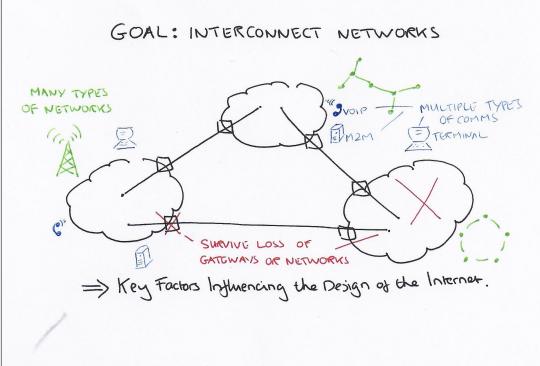


3. Government as an Innovator

- ✓ Invest, Act, Innovate when private does not (yet)
- ✓ Long Term Goals, 'Moonshot'
- Accept failure as an acceptable result
- Invest, act if public purpose is too important to be left to private sector alone



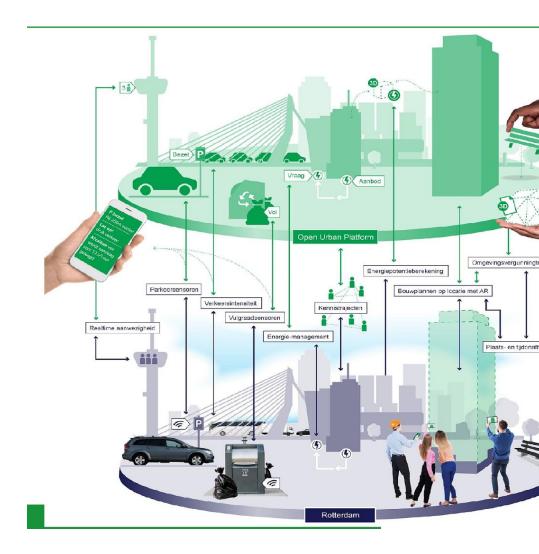




Government as an Innovator

Rotterdam Municipality about the city's Digital Twin:

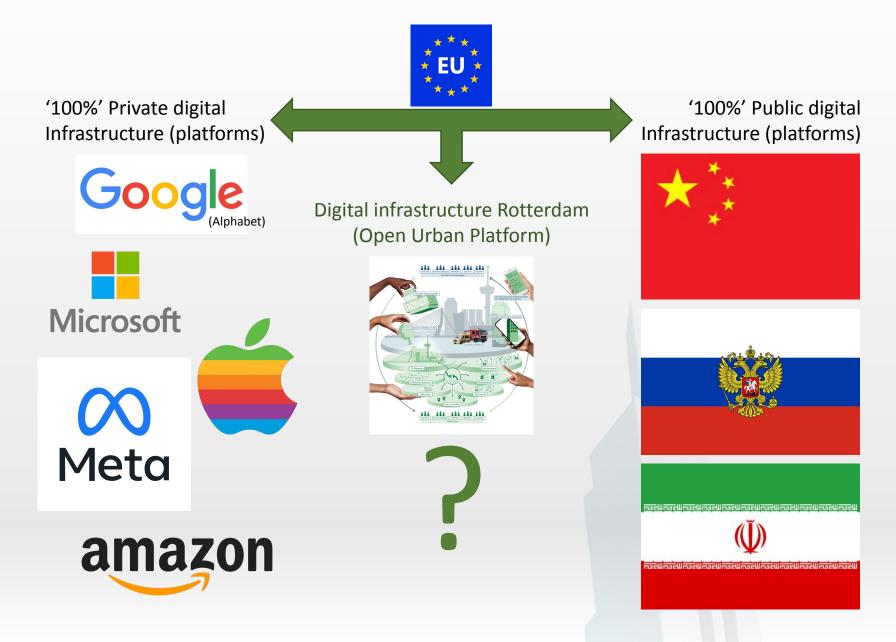
"Let us lead in the development of a Digital Twin, because if we don't we know Google will do it instead..."



4. Governance



Governance model public-private partnership



IF Digital Infrastructure, including Digital Twins and Open Urban Data Platforms are too important to fail, if it must be regarded as a mission-critical utility, then what should the Governance of such tech look like?

Who should own it?

Bundled versus Unbundled Business Architectures



One airport serving multiple competing airlines...

One platform (of platforms) with commercial services on top (?)



Tech Governance...

Data Utility
Algorithm Register
Sensor-in-public-spaces register
Framework for Digitalization
Rules for AI use
Etc.

5.

Data has to be on the move

(and should not get lost in translation)

The case for the *un-silo-ing, normalization and* platformification of data



MIMs ensuring Interoperability

Minimal Interoperability Mechanisms – practical tools that can be used by communities of any size to tackle the challenges of a local data ecosystem



Minimal to ensure:

no unnecessary complexity or time-to-implement



Sufficient Interoperability to allow:

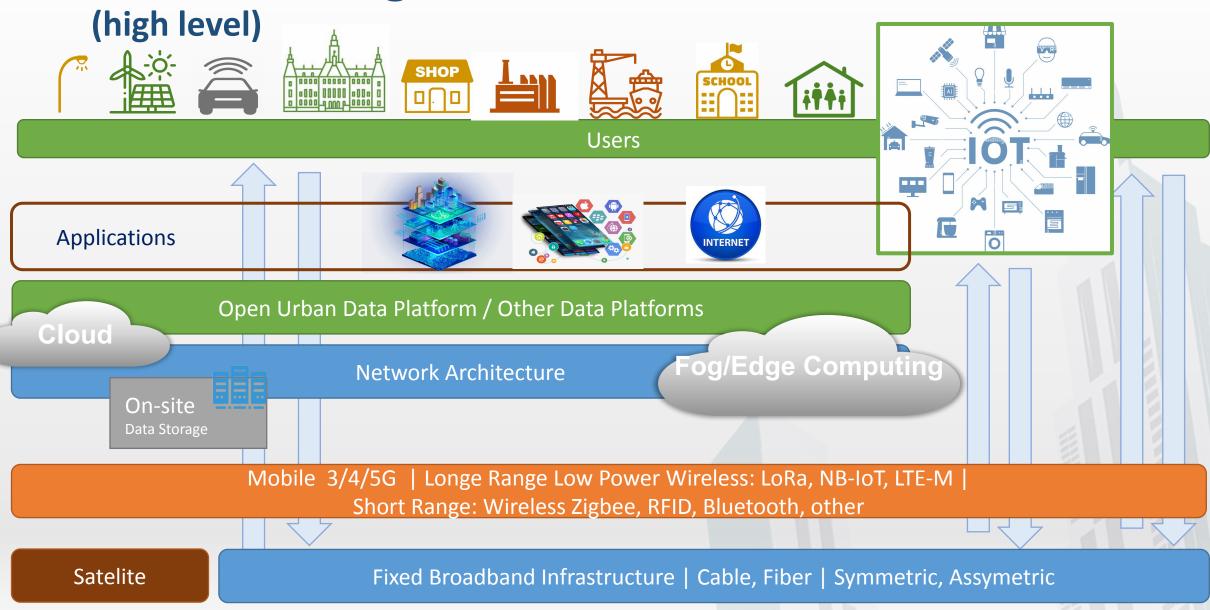
"Good enough" integration of systems



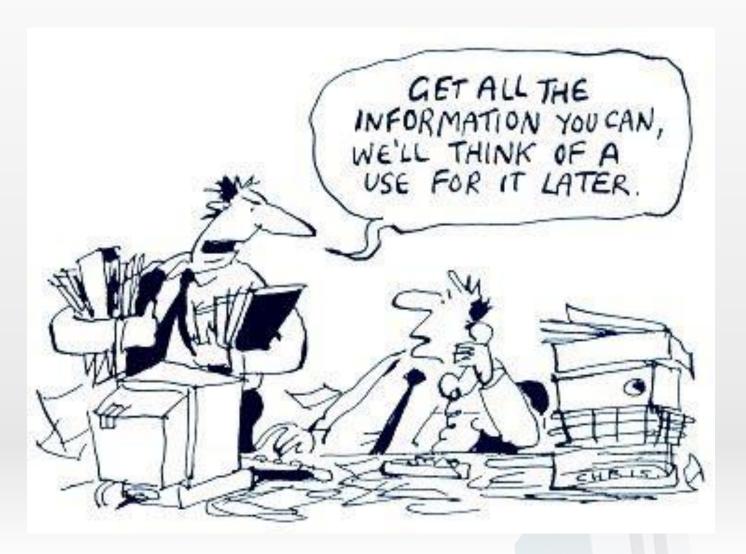
Clearly defined Mechanism so that:

It is easy to determine if a product or service is compliant

Rotterdam Digital Reference Architecture



Mitigate the Open Data craze: Purpose, purpose, purpose.









HACK THIEF SPY FRAUD INFORMATION HACKING BNS

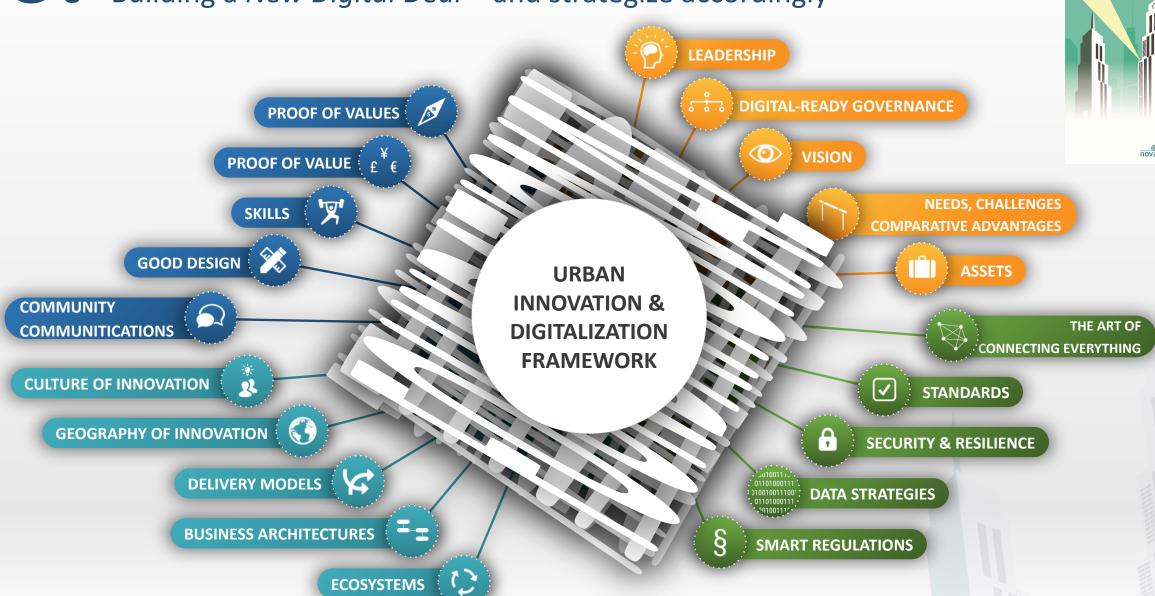
VIRUS

PASSWORD





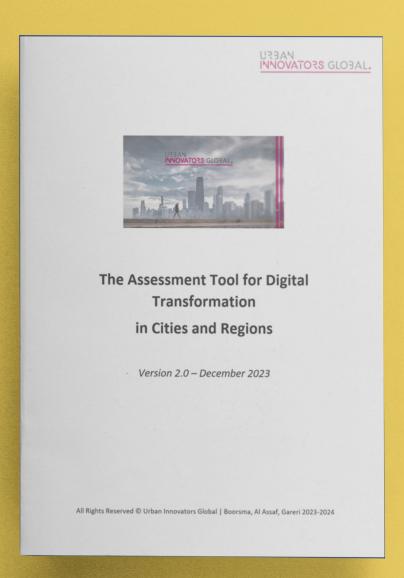
Building a New Digital Deal – and strategize accordingly



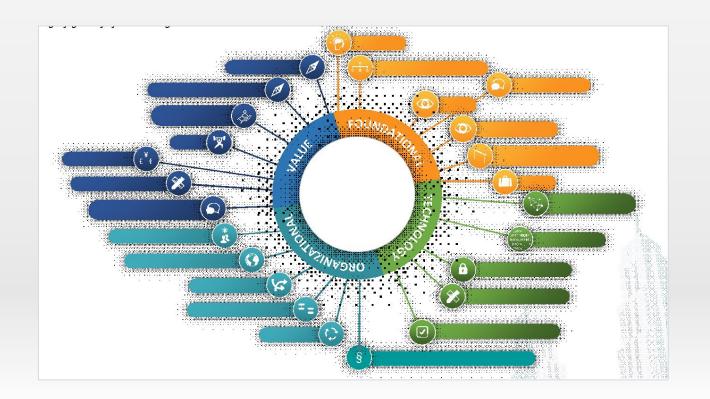
NEW

DEAL

Digital Transformation Assessment Tool



- Assessment Tool to audit a city's Digitalization strategy and its Digital Transformation at large
- 25 Building Blocks, 200 Questions
- Hands-on support throughout the audit: a real human job!
- 'Beta' testing Dubai, Reykjavik
- Available per Q1 2024





7

Not leaving anyone lost in translation

(The expanded case for Digital Inclusion & honesty on the topic)





Purpose! Design Thinking, Citizen Engagement. Stay Honest. Be prepared to run with what you harvest Competence generates trust



Becoming Better Connected: Digital Inclusion

Culture, Social Codes Expectations, Values

> Engagement, Creation, New Economic Activity

> > Education

Communication & Initial Participation

Connectivity & Access to Hardware

The City & the Multiverse: *Interaction, Engagement,*

Communication



"If you can game, you can participate"

Let's become better connected. We owe it to ourselves, our communities

and

We owe it to future generations

Thank You.

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