

WHO ARE WE?

SIRUS.



WE ARE SIRUS.

We are successfully
launching the IT
solutions of the future.

MODERN WORKPLACE & CLOUD /
DATA SOLUTIONS / SMART GOVERNMENT /
SMART COMPANIES

Microsoft solution partner on Digital & App innovation and Data & AI



10 YEARS OF SMART CITY/URBAN DATA EXPERIENCE

- Part of several European projects like Duet, ODALA, Synchronicity, Select4Cities and Circular South
- Serving more than 10 cities with our platform services, and many more in architecture and expertise roles
- Member of the ETSI CIM task force for the NGSI-LD specification; Created the test framework and now working on the extension of ETSI CIM with LDES together with Digital Flanders
- Collaboration with Microsoft on mapping NGSI-LD to Digital Twin Definition Language (DTDL) for Azure Digital Twins specific for smart cities and mobility
- Experts on data modelling, standardisation and interoperability, advising a.o. OASC, Fiware, ITU-T (UN), EC and Local government organizations like Digital Flanders, Agency of Domestic Affairs, Athumi and cities
- Collaboration with the research institute imec around various innovation tracks including Mobility, Water and AirQuality

... resulting in a **thought leadership** role



PUBLIC – WHERE DO WE COME IN?

- Digital Twins
- Data Spaces (Mobility, Tourism, Environmental)
- Smart city, IoT and data platforms
- Semantic & technical interoperability
- Data models and standards
- Open Data
- Linked data, linked data event streams
- Context broker



FIWARE

imec



WORLD SMART CITY AWARDS

SCWE WINNER 2022
Enabling technologies

SMART CITY PLATFORM



City Wireless



Environment



Waste Management



Parking



Urban mobility

Horizontally integrated sensors

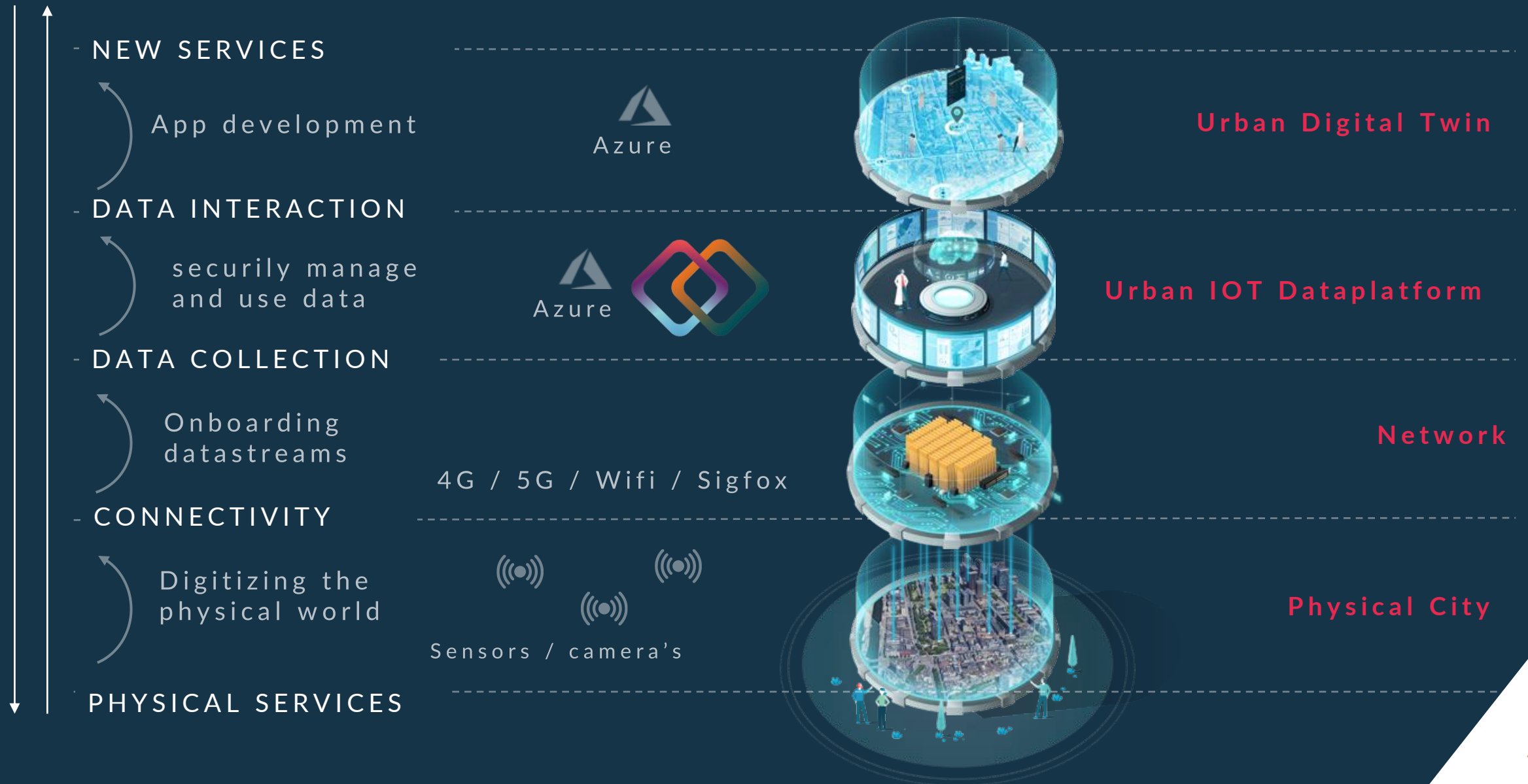
Standardization across sensors

Cross-silo data and information sharing

Platform efficiency, effectiveness, scalable



URBAN SENSE – FROM DATA TO INSIGHTS

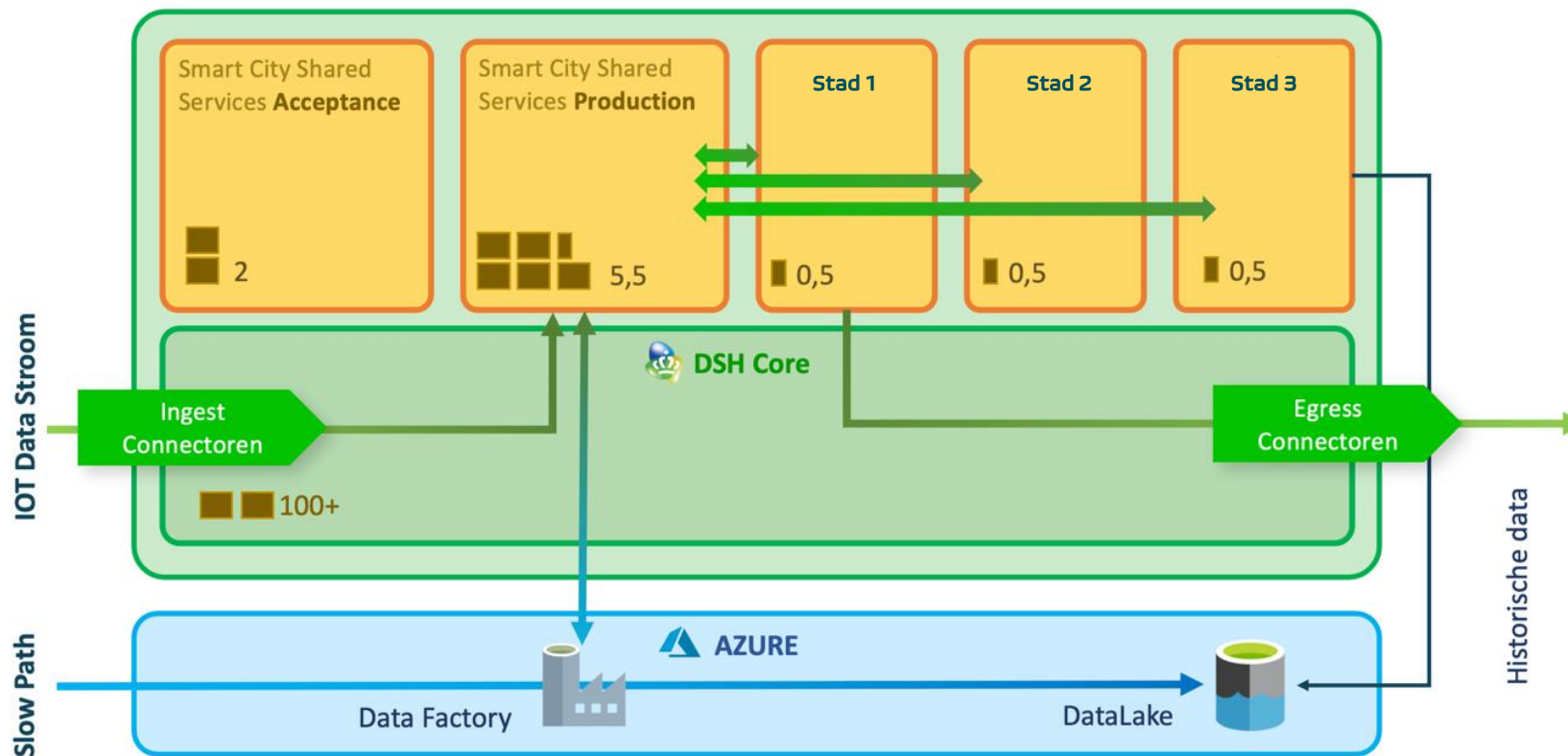


SMART CITY PLATFORM - KEY PRINCIPLES





URBAN SENSE PLATFORM ARCHITECTURE



■ Aantal CCU ■ Smart City Tenants ■ DSH gedeelde infrastructuur ■ Azure Subscription

1 Container Capacity Unit (CCU) =



OPEN SOURCE, AZURE-INTEGRATED



Sirius NGS-LD Contextbroker webapp [Save to my list](#)

Sirius NV

[Overview](#) [Plans](#) [Ratings + reviews](#)

Context Broker is a digital platform component that enables the integration of gathered data

The Context Broker is a reference implementation of NGS-LD standard specifications that comply with ETSI standards. IoT data is collected, processed and stored with dynamic context and the use of linked data concepts. The Context Broker provides an implementation of REST API endpoints for various data context operations that conform to the NGS-LD API specification. The context broker allows us to collect, process, report and store IoT data with dynamic context using advanced data concepts.

Get It Now

Pricing information

Cost of deployed template components

Categories

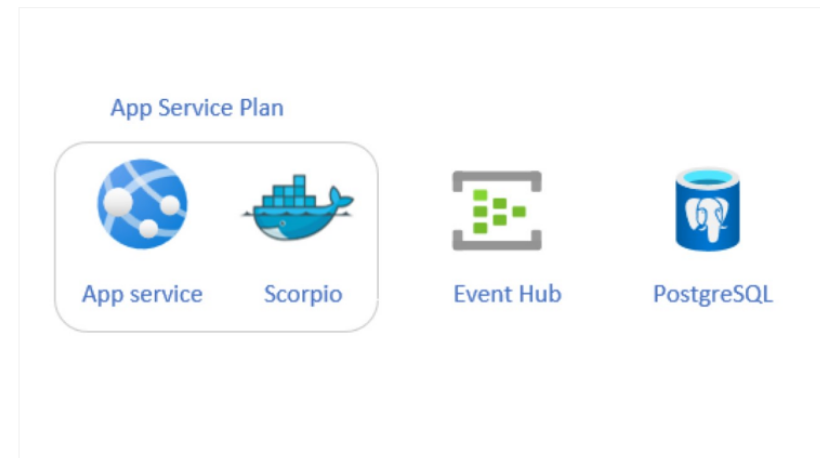
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URBAN SENSE BUSINESS CASES



The Rainbrain project

city water management

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nudging toward better behavior

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The VLOED-project

measuring crowd densities

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Mobilize

Tackling traffic issues using digital twins

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more info on
<https://urbansense.be/cases/>



DIGITAL TWIN SOLUTIONS

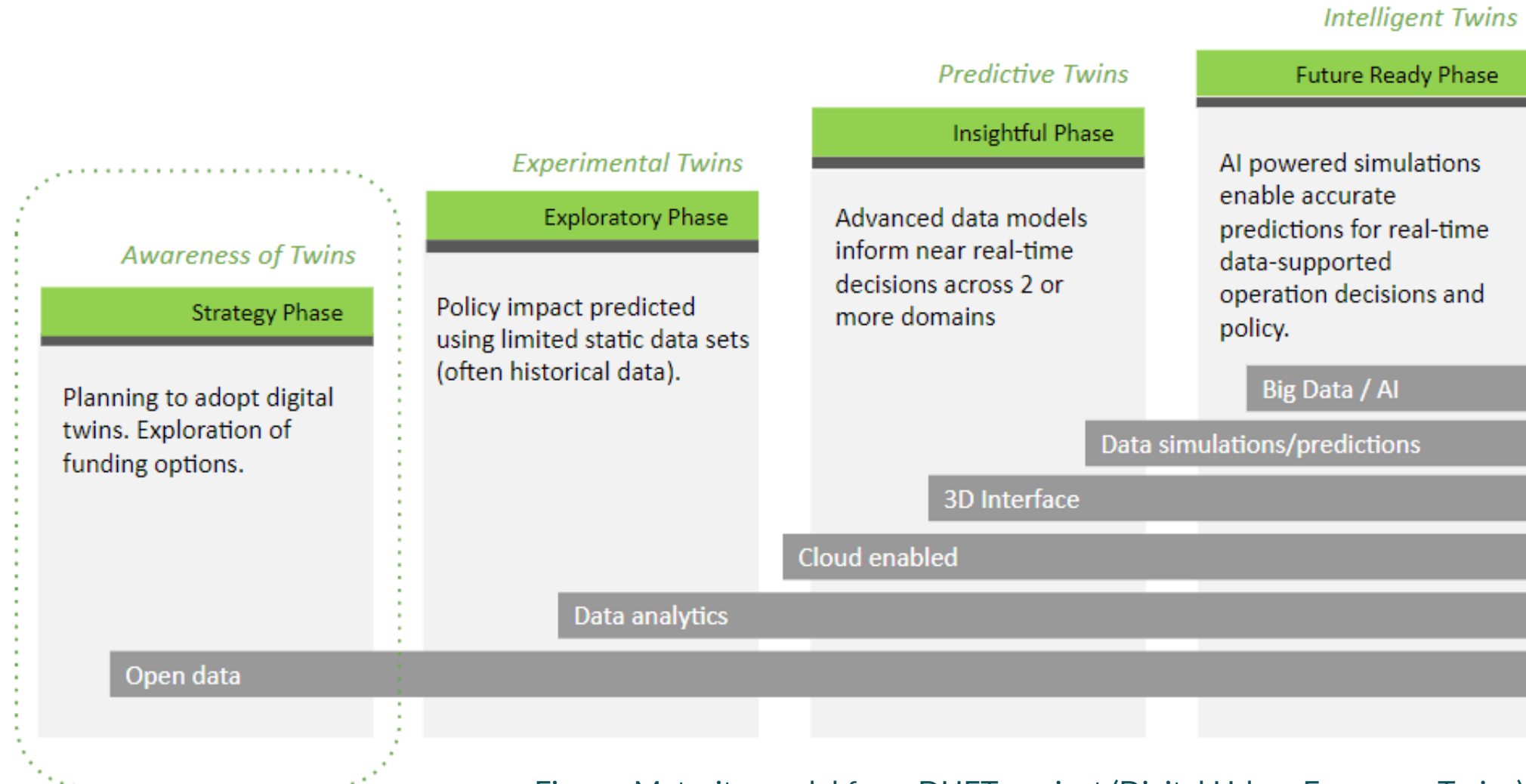
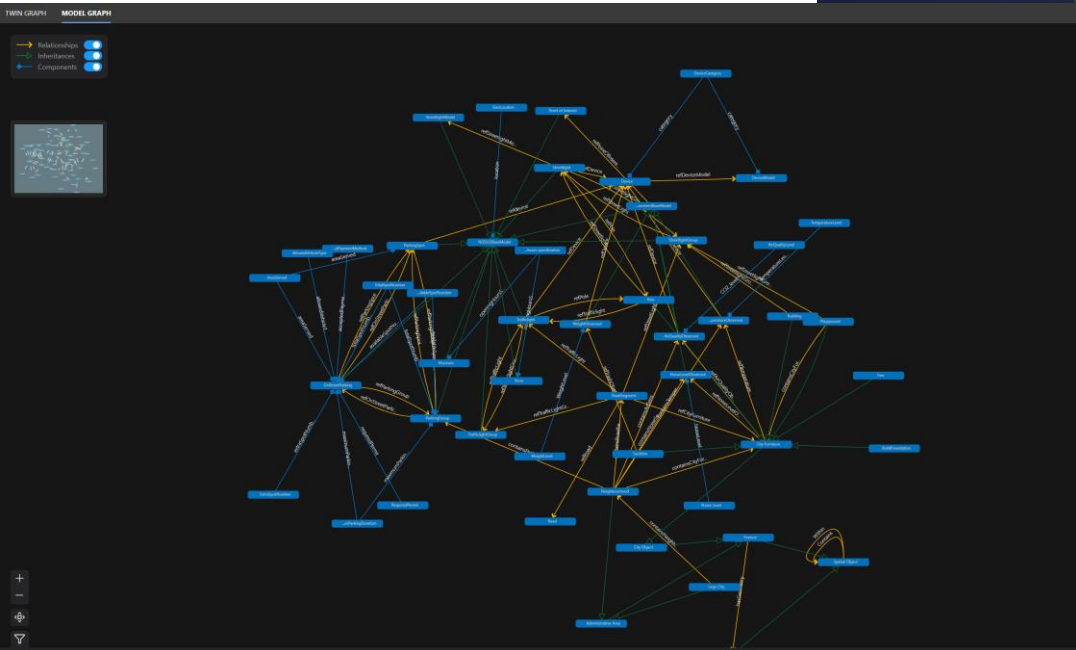


Figure: Maturity model from DUET-project (Digital Urban European Twins)



FROM SMART CITY PLATFORM TO DIGITAL TWIN





THANK YOU



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