Digital City Rotterdam





Webinar on
Urban Data Platforms using data in cities for the
green transition

How we work on trust

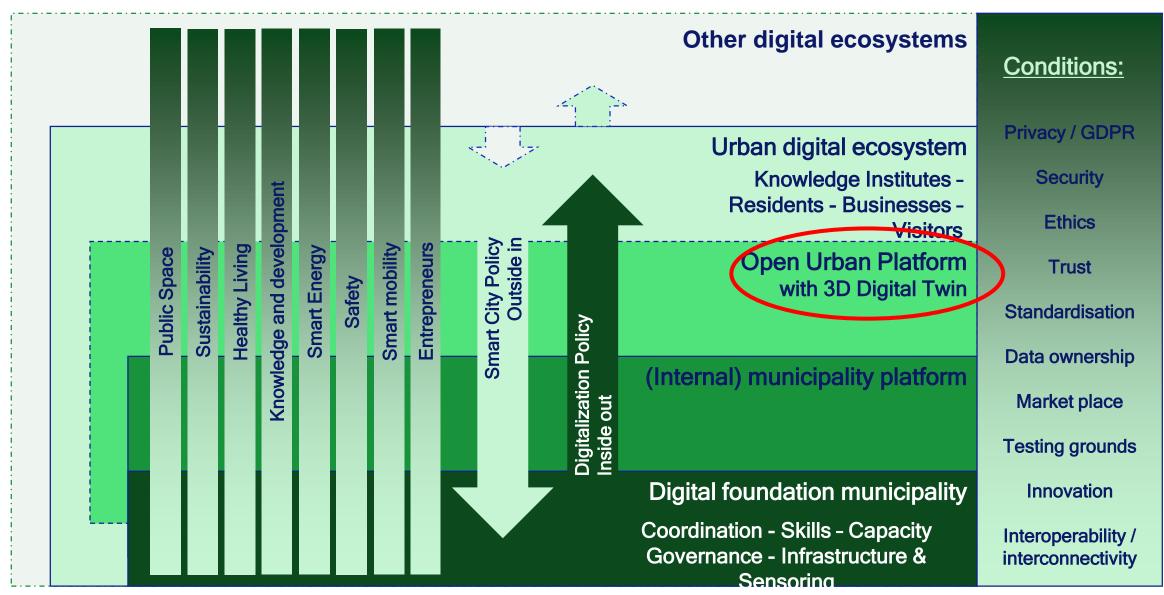
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Urban digital ecosystem Rotterdam









Trust (I)



For a successful and thriving urban digital ecosystem we believe trust between all participants in each other and in the underlying digital infrastructure is essential.

We also believe that a urban platform (with digital twin) is an essential part of this digital infrastructure.

Main research question: How to create trust amongst all participants in the urban (digital) ecosystem as a whole and in the urban platform within, and what role does the municipality have in creating trust and the development of an urban platform?

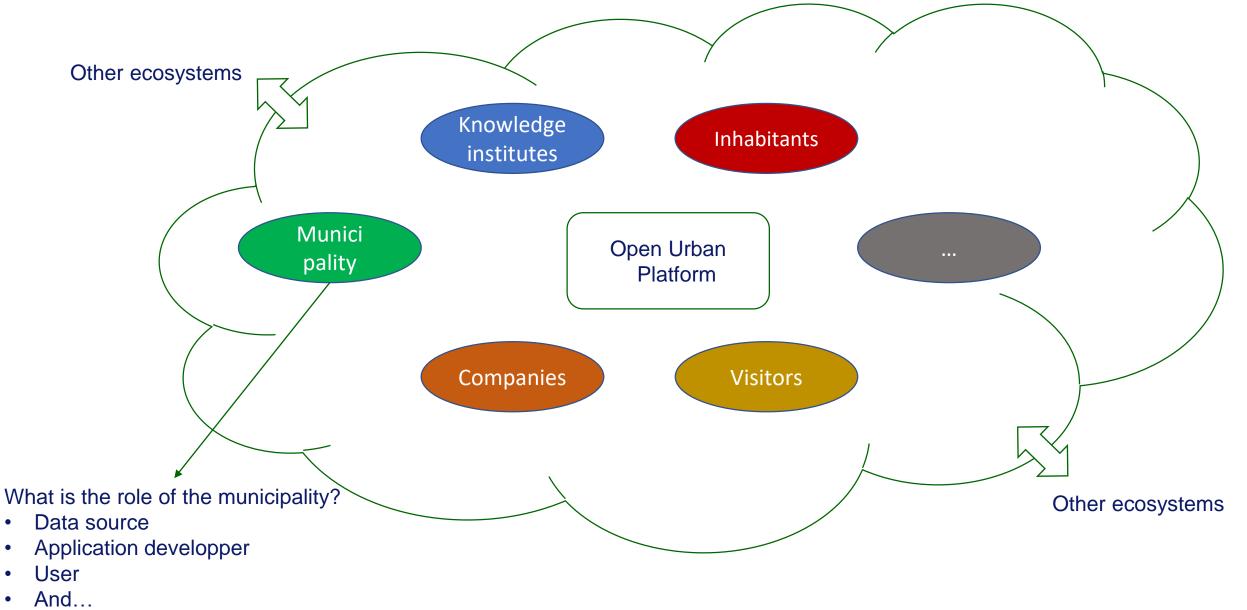
<u>Participants</u>: every one with an interest in Rotterdam (inhabitants, companies, research institutes, governments, visitors ...)

<u>Digital ecosystem Rotterdam</u>: 'loosely' interconnected digital network of participants with as main common subject the city of Rotterdam



Participants: users, application developpers, data sources, ...





Trust (II)



- Data sources
- Applications and services
- Urban platform
 - Security and privacy
 - Management and maintenance
 - Rules of the game

• What role(s) of the municipality will contribute the most to trust amongst participants and at the same time give optimal space for commercial exploitation?



Defined roles within the ecosystem

- Data sources
- Application developpers
- Users
- Customers
- Platform:
 - Development: booster, interconnector, (risk-)investor, owner, exploiter
 - Operational: owner, exploiter(s), gatekeeper

- Main tension: maximal commercial exploitation versus public interest
 - Governance structure developped in co creation with the market



Actions for building trust

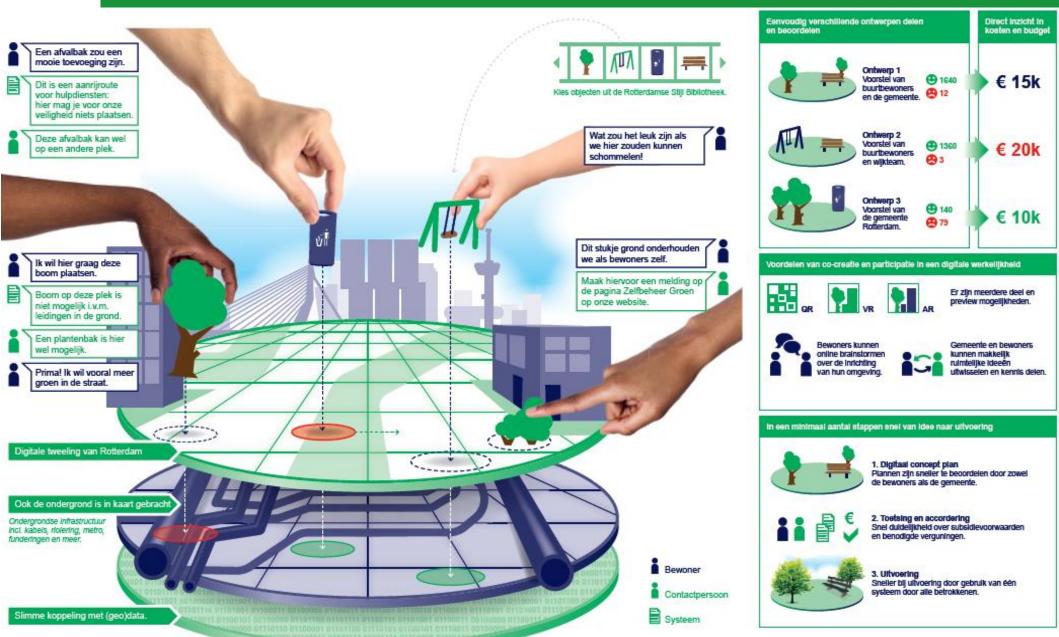


- Research institutes: involvement in numerious research questions, development of the platform (i.e. development
 UP, governance, customer value, 3D, AR/VR, smart new data sources)
 - building structural network
- Companies (platform): development and exploitation (and governance) in co-creation with the market
 - market consultation, competitive dialog procurement, pre investment municipality
- Companies (developpers): development several applications, 'call to action'
- Companies (data sources): creating new (smart) data sources, 'call to action'
- Citizens: several meetings with 'interested digizens'
 - in this stage connected via application development (i.e. UX time- and place independent participation), in next development stage connected through UX
- Other governments: regional cooperation South Holland, G4, VNG, EU, ...



Applications: Time- and place independent participation

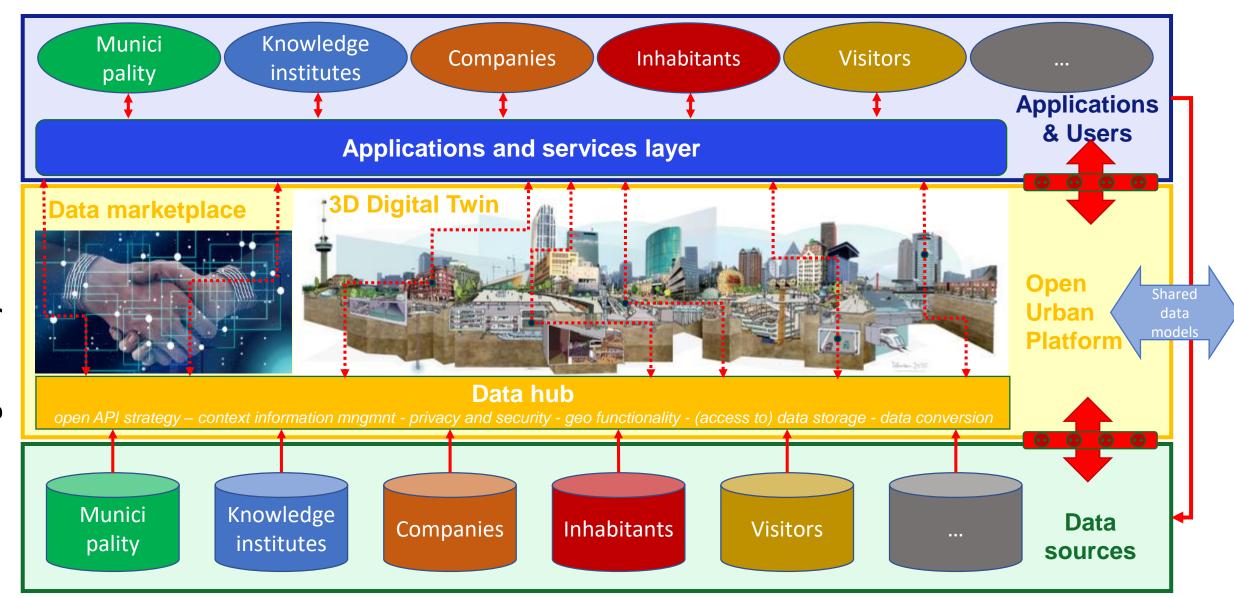








Digital City - Urban Digital Ecosystem & Open Urban Platform



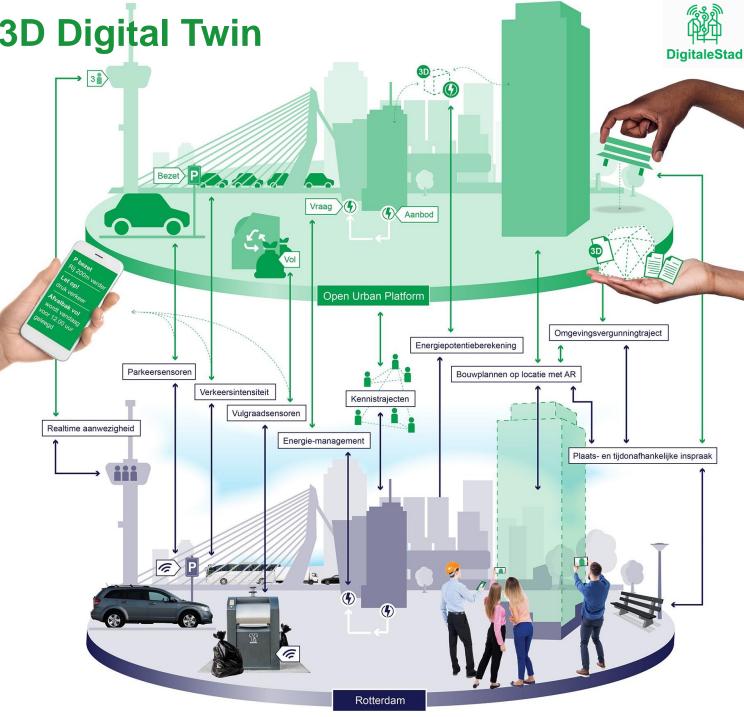


Open Urban Platform & 3D Digital Twin



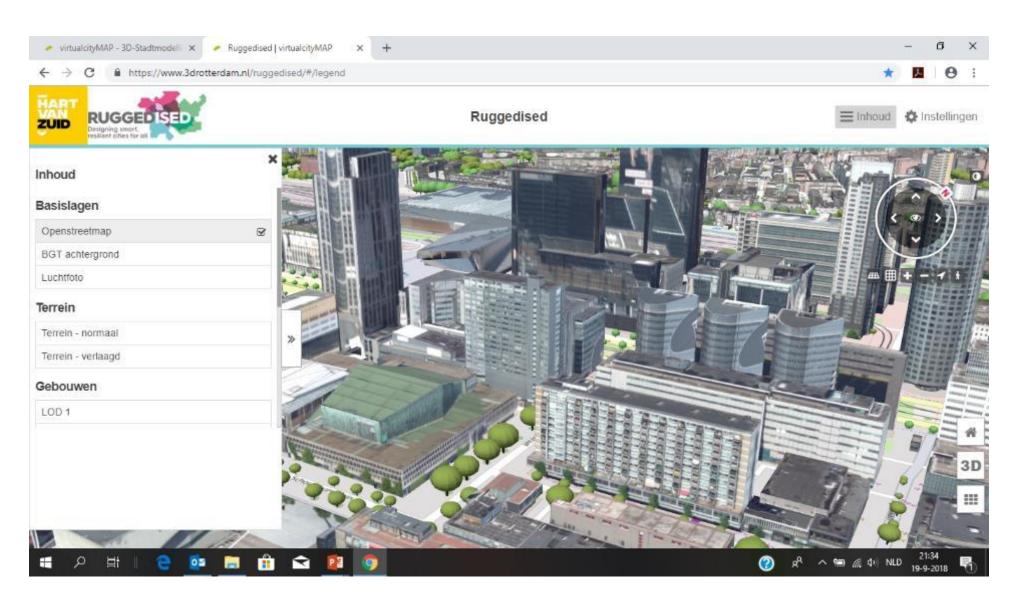
Digital Urban Community (>2023)





A 'smart' 3D model of the city ...

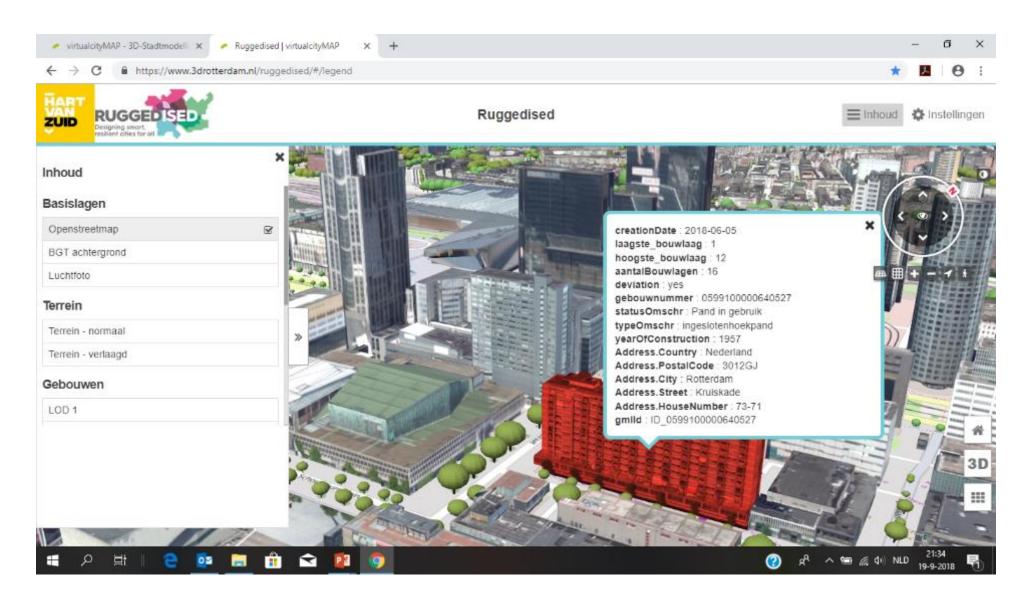






A 'smart' 3D model of the city ...







... combined with realtime data ...







... forms a 3D Digital Twin of the city!



Describes the current physical reality of a city, based on realtime data (= digital 'copy' of the physical city)

