Climate Resilient Rotterdam

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Gemeente Rotterdam

Rotterdam WeatherWise

Climate change is a reality

Vulnerable river delta
85% below sea level

Hard-paved and densely built

As Rotterdam, we must develop, design and manage the city to be climate-proof

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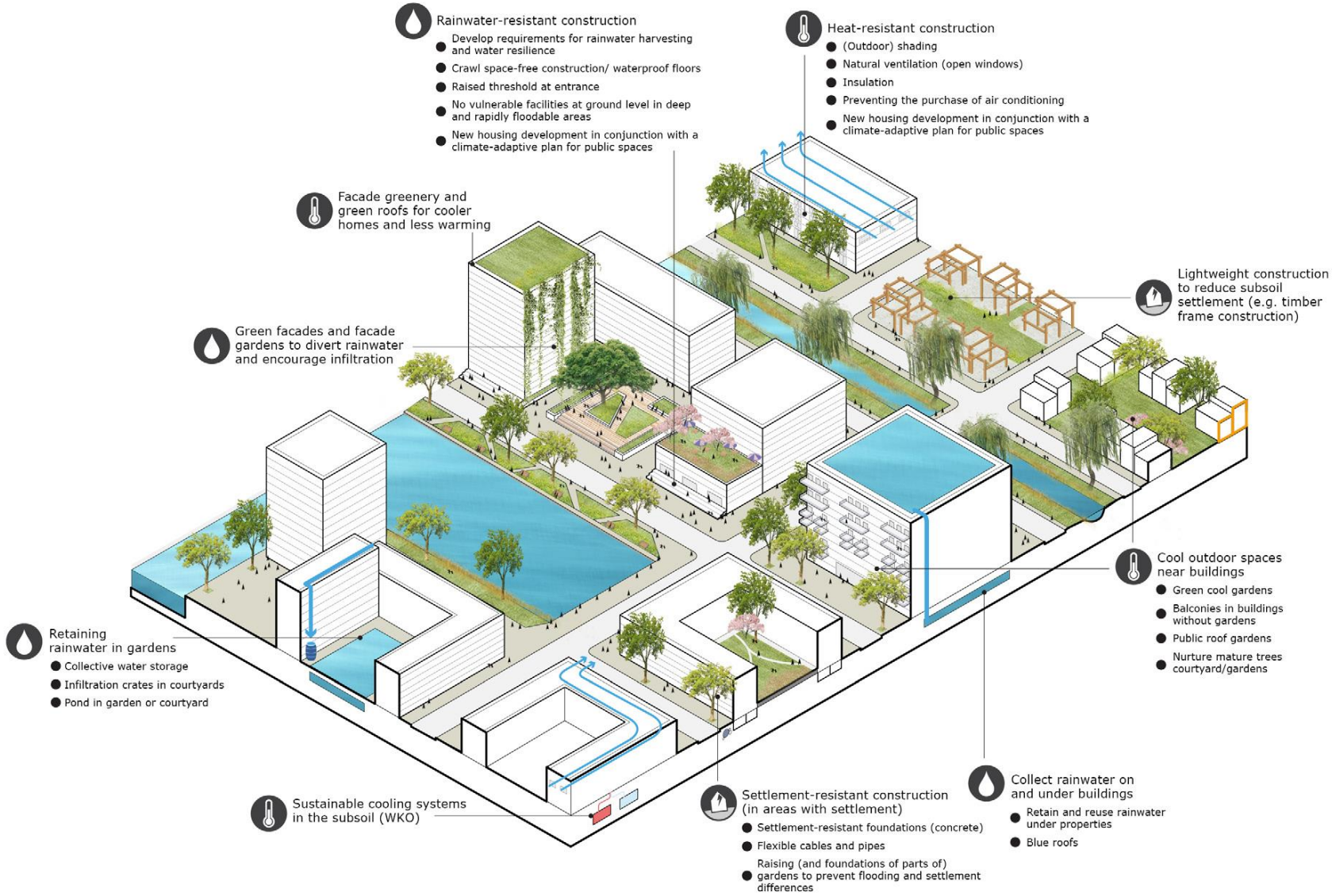
Challenges

Multidisciplinary

Complex interconnected systems

(Public) understanding

Participation



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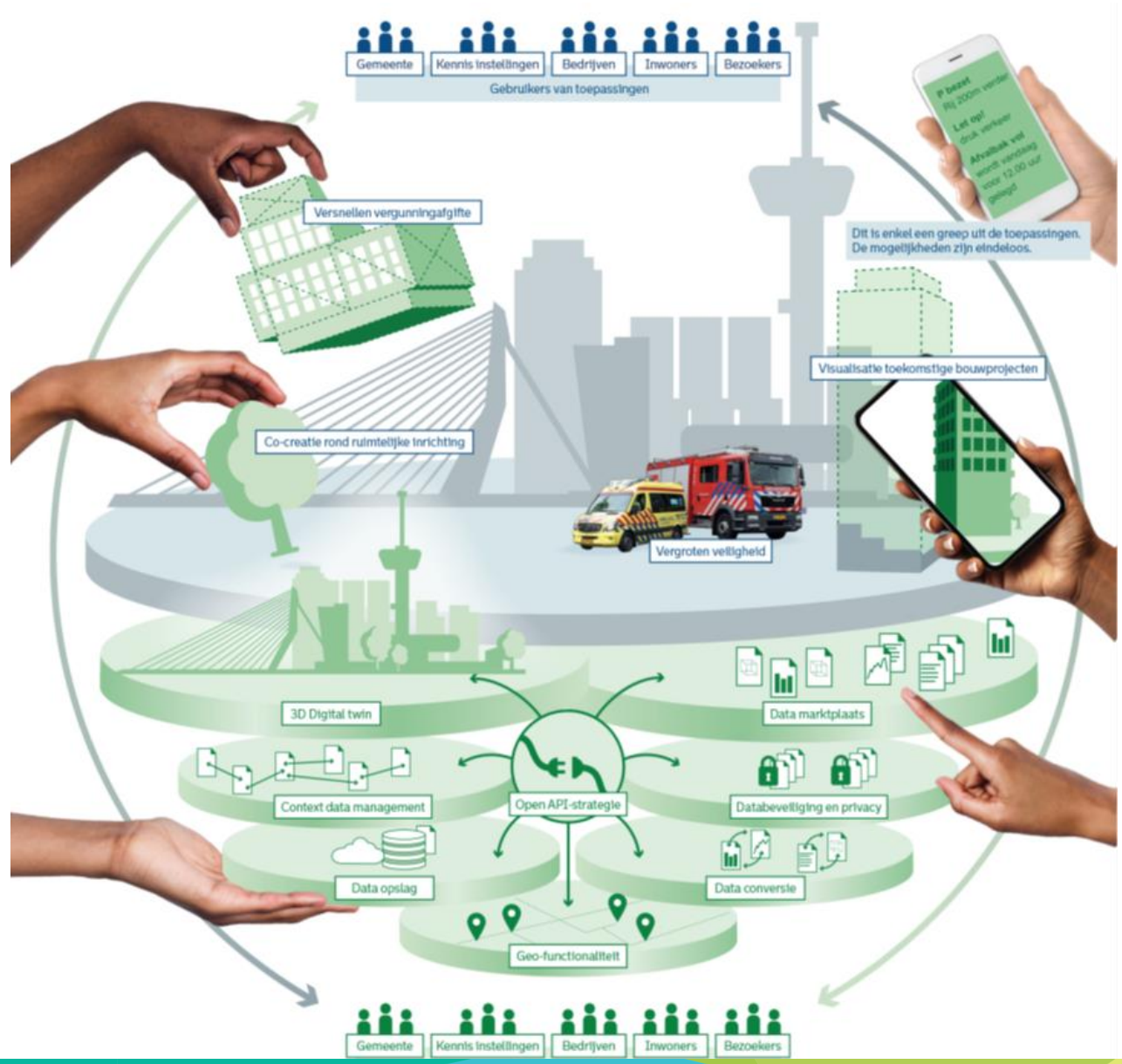
Open Urban Platform

Datasources from multiple stakeholders

Cross domain interconnected systems

FAIR data, Open API's

Connecting users and applications



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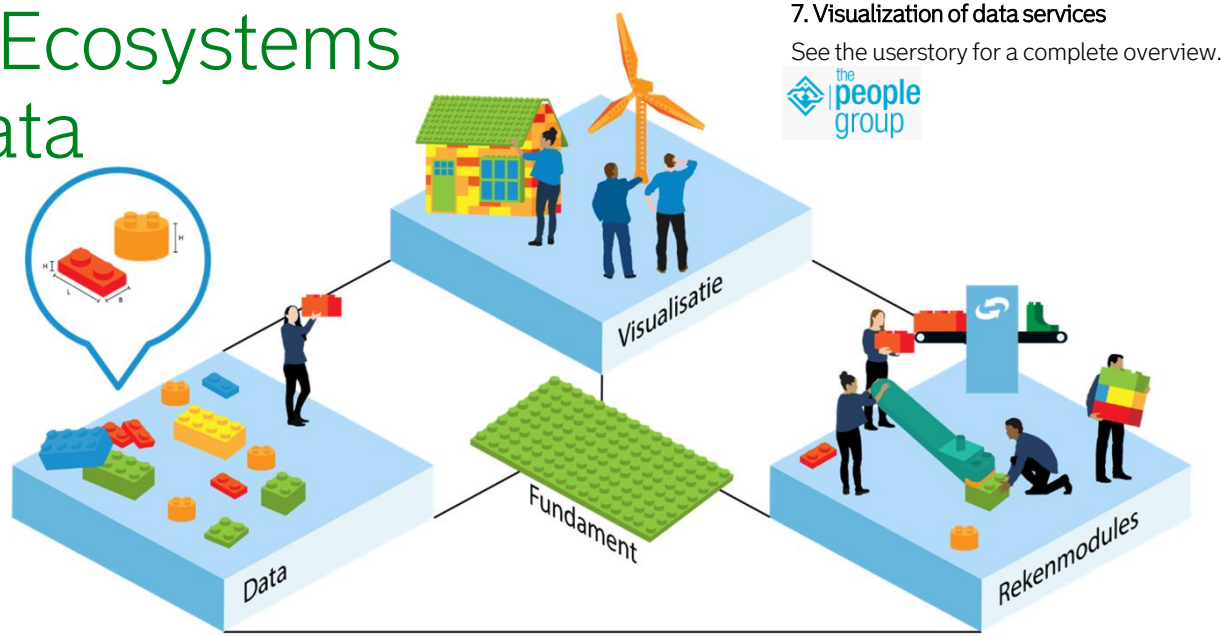
Digital Twin Ecosystems
User story data



7. Visualization of data services

See the userstory for a complete overview.

the people group

6. Translation of calculation results

The admin of the model providers connect to the PPB platform to configure the translation of their data services to the desired output languages based on the Hub.

TYGRON PLATFORM · Nelen & Schuurmans · Dat.mobility

PPB platform registers the resulting data services to the user's corresponding hub through the AIM integration with the OUP.

4. Update analyses models

The model providers connect the semantic coherent data services from the Hub to their platforms to configure the automated update of their calculation models. Optional they can use the capabilities of the PPB platform to build a translation to their internal data models.

Based on the integration of the IAM component and the Hub structure of the OUP handles the direction of data services to the corresponding calculation models.

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5. Publish results on OUP

After running a calculation, the results will be registered on the user's Hub.

2. Registering source data services

The Hub admin user logs into the Open Urban Platform.

There the user can build up the content of the dataspace (data plane), this consists of:

- Register of the data services and their meta data
- Digital Twin configurations

Gemeente Rotterdam

3. Semantic translation

The Hub admin user connect to the PPB platform to configure the translation of their data services to the generic semantic information model.

PPB platform registers the resulting data service to the user's corresponding hub through the AIM integration with the OUP.

1. OUP configuration

The Hub admin user logs into the Open Urban Platform.

There the user can build up the configuration of the dataspace (control plane), this consists of:

- Access rights and user roles
- Connected applications
- Active subscriptions to connected applications
- Generic settings e.g. parent hub, findability of the hub and authenticating methods.

The setup of the OUP Hubs can also be done with the Eclipse dataspace connector integration in the OUP

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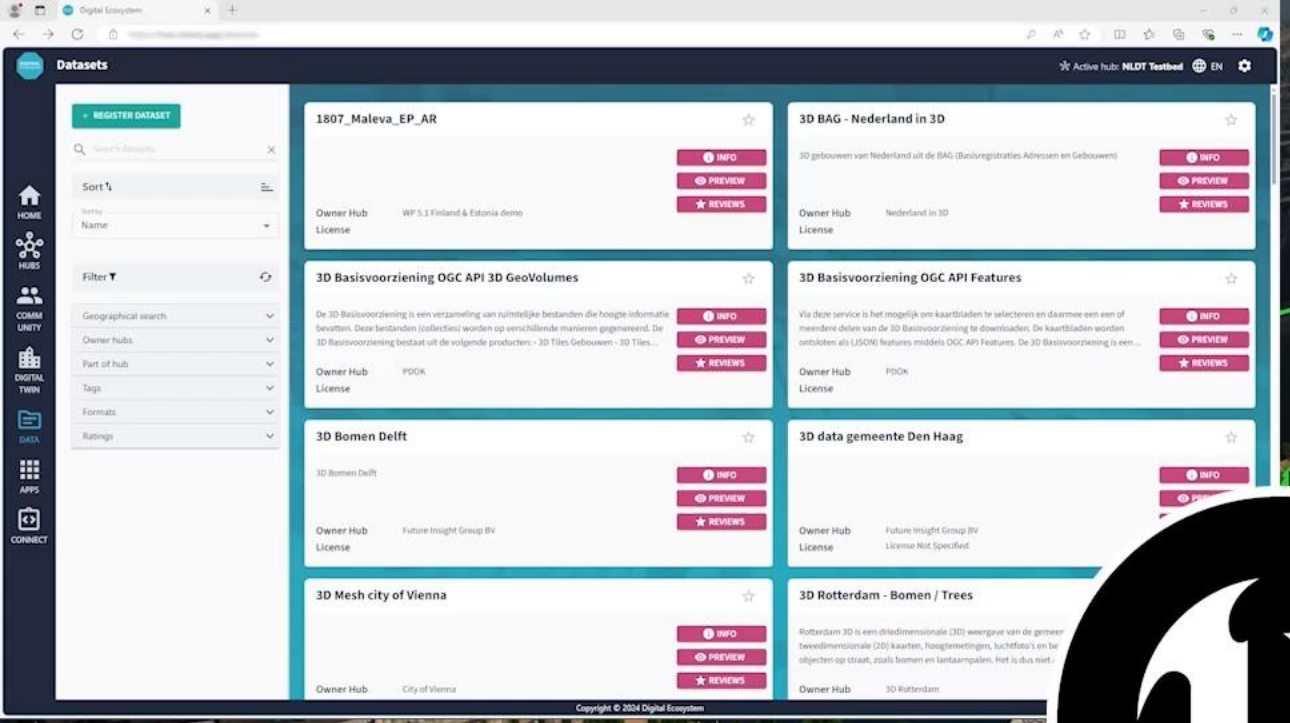
Datasets
Active hub: NLDT Testbed
EN
REGISTER DATASET
Sort
Name
Filter
Geographical search
Owner hubs
Part of hub
Tags
Formats
Ratings
HOME
HUBS
COMM UNITY
DIGITAL TWIN
DATA
APPS
CONNECT
1807_Maleva_EP_AR
3D BAG - Nederland in 3D
3D Basisvoorziening OGC API 3D GeoVolumes
3D Basisvoorziening OGC API Features
3D Bomen Delft
3D data gemeente Den Haag
3D Mesh city of Vienna
3D Rotterdam - Bomen / Trees
INFO
PREVIEW
REVIEWS
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NLDT Catalogus
3D Rotterdam
Pointcloud vegetatie
3D Rotterdam - Publieke ruimte / Public space
Fietsparkeerplekken / Bicycle storage
Laadpalen / Charging stations
Vuilnisbakken / Garbage bins
Lichtmasten/lantaarnpalen / Lampposts
Parkeerautomaten / Parking meters
Banken / Benches
3D Rotterdam - Terrein / Terrain
Terrein - Actueel (Terrain - Current)
Terrein - 2023 (Terrain 2023)
Terrein - Actueel (Terrain - Current) with layer json
Terrein - 2024 (Terrain 2024)
Water areas
Processes
Traffic analysis
Dat.mobility
Use real-time date/time
Mode
BOTH
Alternative
none
Analyse
Reset
Traffic prediction
Vanmiddag droog en zon, maar in het noorden en zuidwesten grijs
12.4 °C


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Water areas
Processes
Tygron Hittestress analyse
3Di Overstromingssimulatie
DAT Mobility Traffic Analysis
Hittestress analyse
Move slider
2 augustus 2024 19:00
Heatstress analysis
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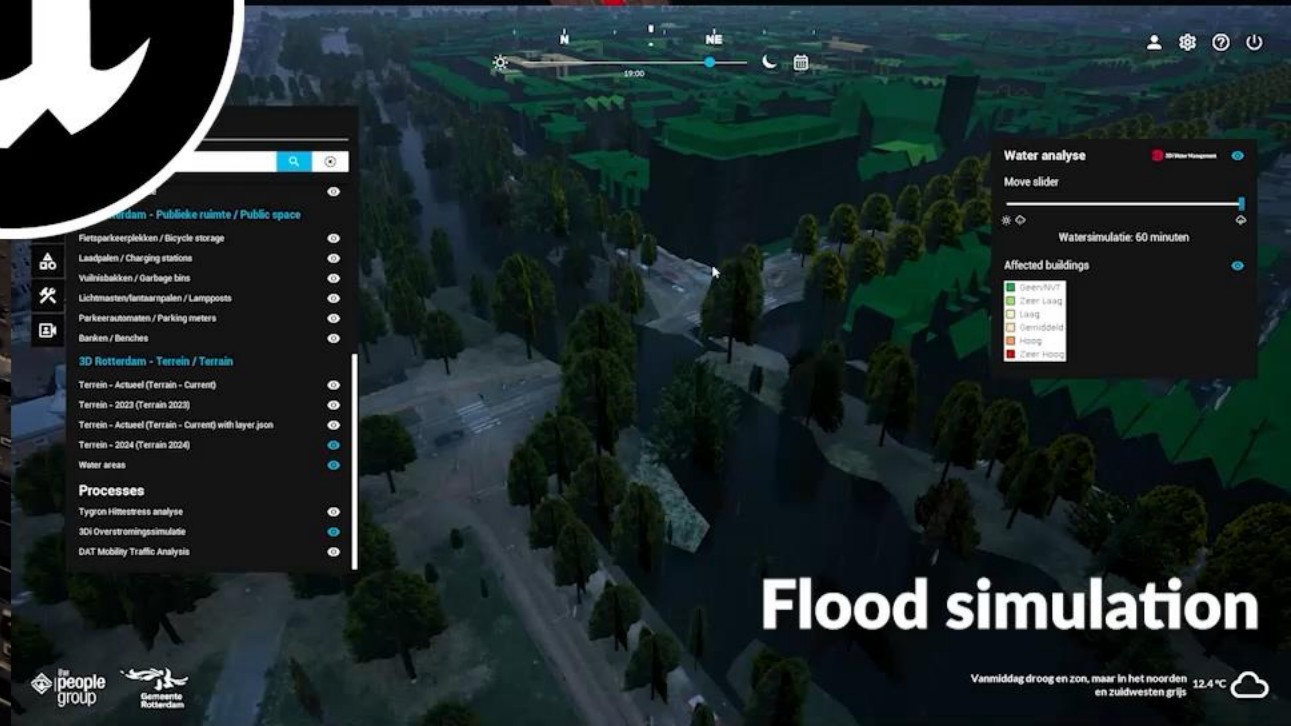
12.4 °C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Water analyse
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Watersimulatie: 60 minuten
Affected buildings
Flood simulation
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Recipes

Kids' easy omelette

★★★★★ 4.9 | 14 ratings

Rate this recipe

Prepare
Less than 30 mins

Cook
Less than 10 mins

Serve
Serves 1-2

Dietary
Gluten-free | Nut-free

Ingredients

3 free-range **eggs**

1 tbsp **milk**

1 tsp **butter**

1 **tomato**, finely chopped

2 tbsp grated **cheddar**

1 tbsp finely chopped fresh **parsley** or 1 tsp dried **parsley**

2 thin slices good-quality **ham**

salt and **pepper**

Method

1. Take your eggs and crack them into a bowl – don't put them directly into the pan as you need to mix them first! Add a pinch of salt and pepper to the eggs and stir in the milk.

2. Beat the eggs with a fork, first use the fork to break the yolks of the eggs (this makes beating the eggs easier). Then tip the bowl gently and using a fork in a circular motion beat the eggs until the yolks and whites are combined and the mixture has an even colour.

3. Bring your pan to a high heat and add the butter. Pour in your egg mixture and cook on a high heat for 2 minutes, making sure that the mixture is spread out evenly. Reduce the heat.

4. As the egg begins to set, use a spatula to push the set egg towards the omelette centre, tilting the pan so the runny egg fills the space. Add the tomatoes and most of the cheese and parsley. Arrange the ham on top.

5. Cook the omelette for another minute, then loosen the edges with a spatula. Slide the omelette from the pan onto a warmed plate, tilting the pan so that the omelette folds nicely on the plate.

6. Sprinkle with the remaining cheese and parsley, then serve.

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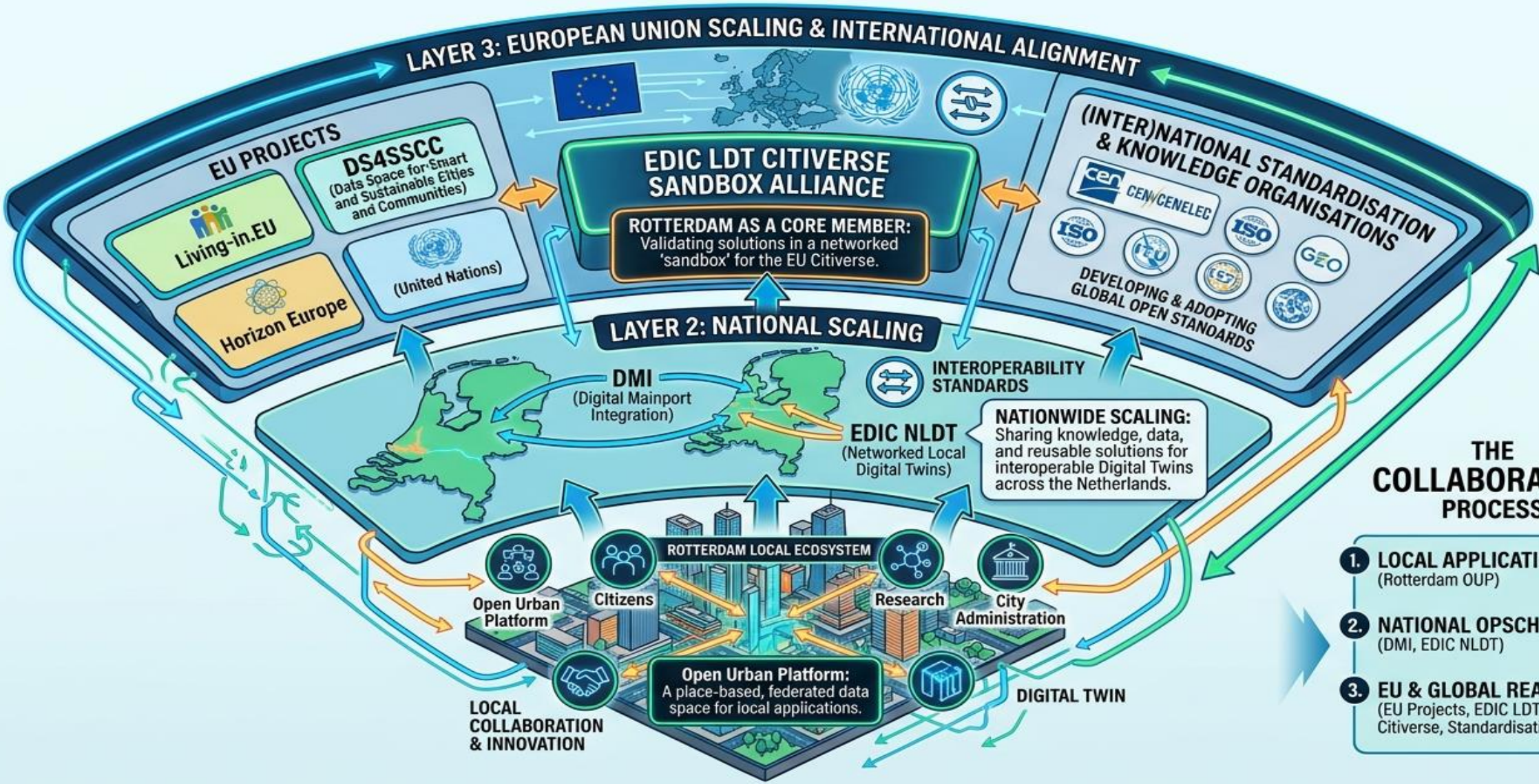
Convenant
Samenwerking Open Urban Platform
Gemeente Rotterdam
Nelen & Schuurmans
the people group
TYGRON PLATFORM
Accelerated Simulations for Engineers
Erasmus Centre for Data Analytics
HOGESCHOOL ROTTERDAM
Capgemini
Veiligheidsregio Rotterdam-Rijnmond
RIO NED
scenexus

THE ROTTERDAM OPEN URBAN PLATFORM ECOSYSTEM: A MULTI-LEVEL COLLABORATION FRAMEWORK



THE COLLABORATION PROCESS

1. **LOCAL APPLICATION**
   (Rotterdam OUP)
2. **NATIONAL OPSCHALING**
   (DMI, EDIC NLDT)
3. **EU & GLOBAL REACH**
   (EU Projects, EDIC LDT Citiverse, Standardisation)

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