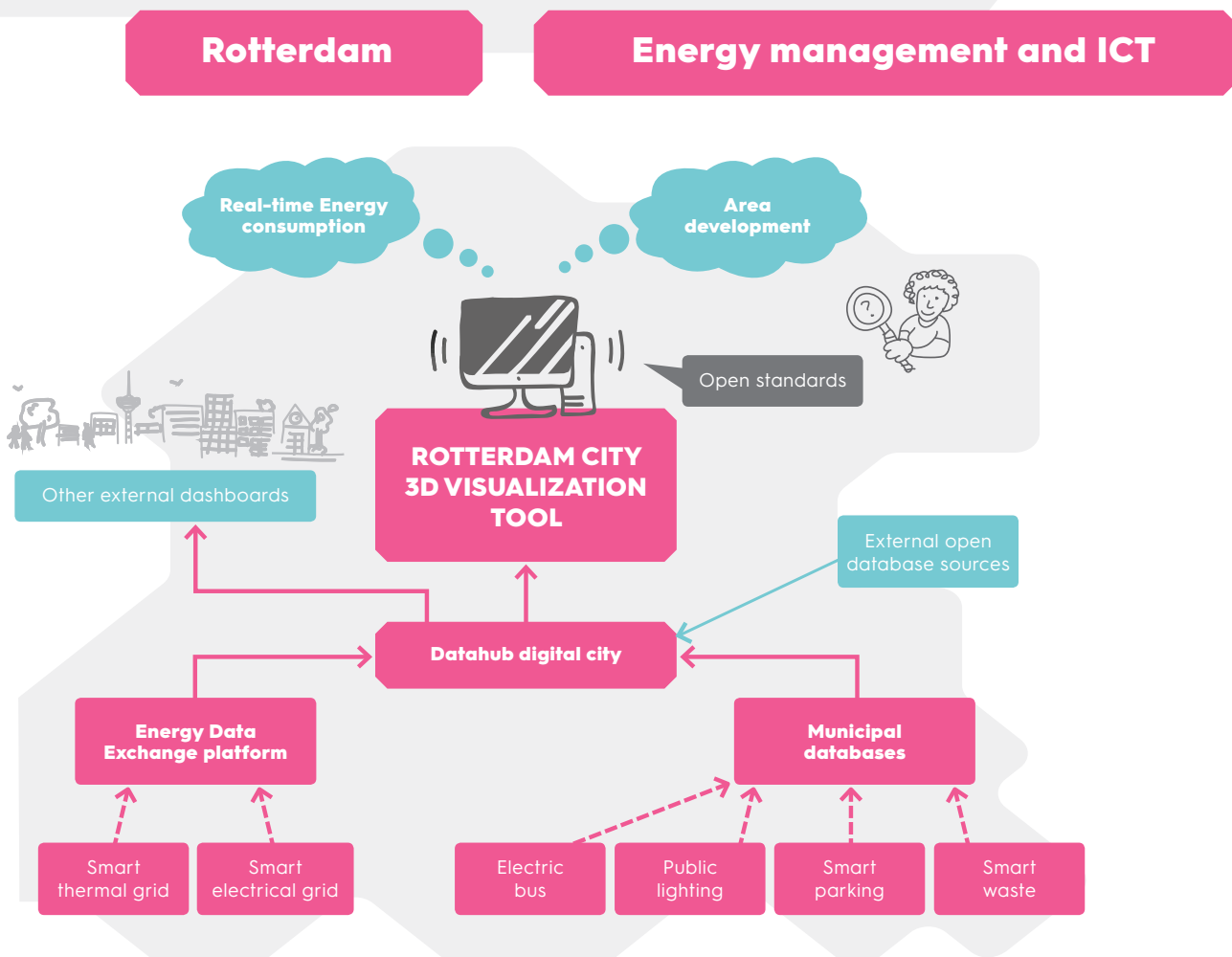


3-D city operations model



The objective of RUGGEDISED is to create smart decision-making applications for energy management. In addition, by functioning as an open data platform, further innovation is possible by making data available for everyone. The solution includes the development of a new 3-D city operations model that shows real-time energy consumption and/or production as well as developments over time concerning individual buildings and the whole area. In addition, this model can visualise other data from a host of databases and sensors.

Main partners involved:



FACTSHEET R9

3-D city operations model

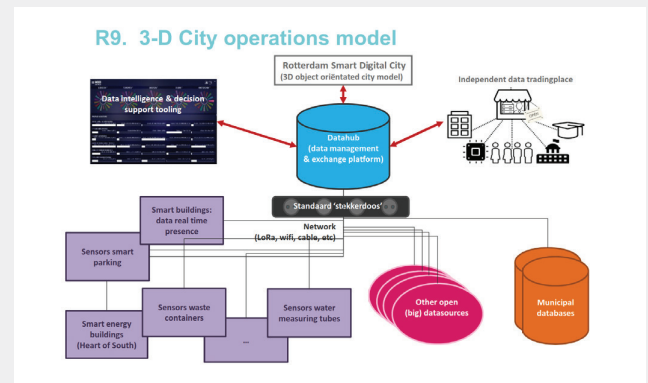


How does it work?

This solution will complement the R8 “Energy Management System”. Data on the energy use of the buildings, provided by the energy management system, will be matched and transferred into a new 3-D city operations model that will be developed.

This model shows and visualises actual use of energy as well as use over a period of time (by individual buildings as well as the whole area). This 3-D model functions as an open data platform and makes further innovation possible by making data available for everyone. The required infrastructure for this sub-solution is provided separately.

Both the city of Rotterdam as well as private parties will use the model for new applications, also to create new businesses. Connecting the many sensors and other data sources, such as municipal databases, requires standards for connecting to the data platform. The development of such standards is crucial.



Everyone in the community will have access to this data due to the use of open standards. Because of this, it is expected that this 3-D model will become a powerful resource for further innovations.

Estimated impacts

The 3D city model is an open source model. So every third party can use data and visualisation tools to create their own business. This will influence society and lead to additional economic benefits for companies and more wellbeing for citizens.

Replication potential

Once developed, the 3-D city operations model can technically be replicated for any follower city. However, there are a number of conditions for the development of the model and for maintaining effectiveness and availability:

- a) Development and application of standards;
- b) Availability of open data;
- c) Data ownership issues;
- d) Avoiding vendor-lock in.

In addition, co-creation with commercial parties is required for acquiring knowledge and resources.

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Find more factsheets on www.ruggedised.eu

