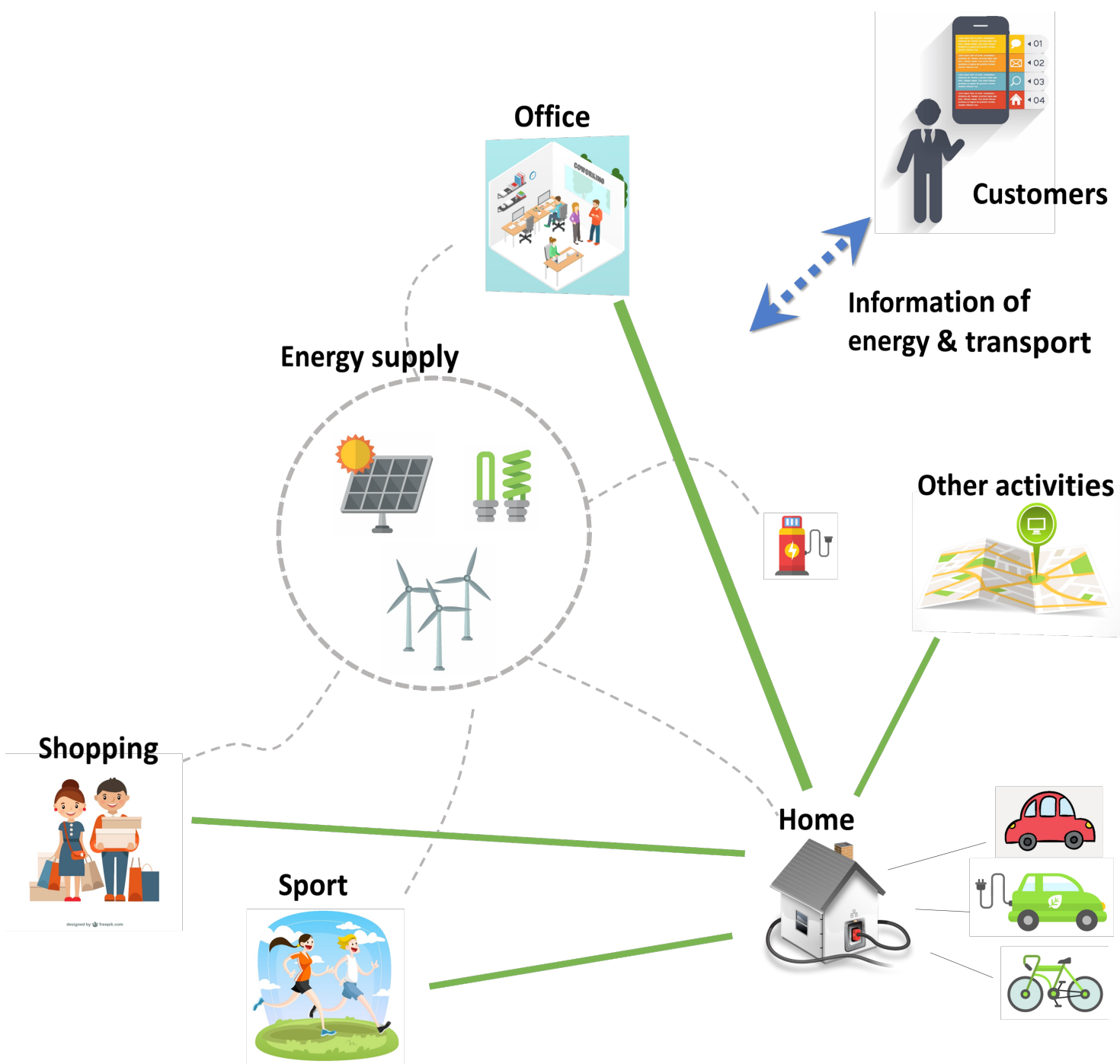


DESENT

The success of smart city development needs integrated solutions on energy, transport, service and governance with the full involvement of multiple stakeholders, governments, enterprises, citizens, etc.

DESENT is such a project focusing on providing a smart decision support tool for urban energy and transport by developing innovative approaches and utilising cutting-edge technologies using co-creation. The consortium which integrates top universities, research institutes, enterprises and private companies, will tackle the various challenges by developing/ implementing the innovative solutions in demo cities.

DESENT will support smart decision making for policy makers and personalised services for citizens.



Aim/objective

- Develop a smart energy control concept of household/vehicle energy use
- Develop, test/apply and disseminate such an integrated decision support system for smart grids

Approaches/methods

- Integrated activity-based models incorporating energy consumption modules
- Extended energy demand and distribution models incorporating uncertain effects
- Mobile application of new ICT solutions

Expected results and impacts

- To predict high-resolution individuals' activity-trip patterns
- To predict energy consumption of individuals in buildings and for transport
- To provide personalized energy consumption information

DESENT – Smart decision support system for urban energy and transportation

Duration: 2016–2019

Internet: www.jpi-urbaneurope.eu/desent

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Budget: 1.352.380 EUR

Partners: Eindhoven University of Technology, 4ward Energy Research GmbH, Weizer Energie- Innovations- Zentrum GmbH, Reiterer & Scherling GmbH, City of Weiz, City of Helmond, SINTEF Energy Research, City of Steinkjer


Involved cities

- City of Weiz, Austria
- City of Helmond, The Netherlands
- City of Steinkjer, Norway

About JPI Urban Europe

JPI Urban Europe is a transnational research and innovation programme on urban transition. With the ambition to develop and validate new solutions for sustainable and liveable cities, a cooperation platform and programme is provided to connect urban stakeholders, researchers, cities, business and society

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