

CELSIUS Talk: IT solutions for demand side management

2016.11.16



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 314441.

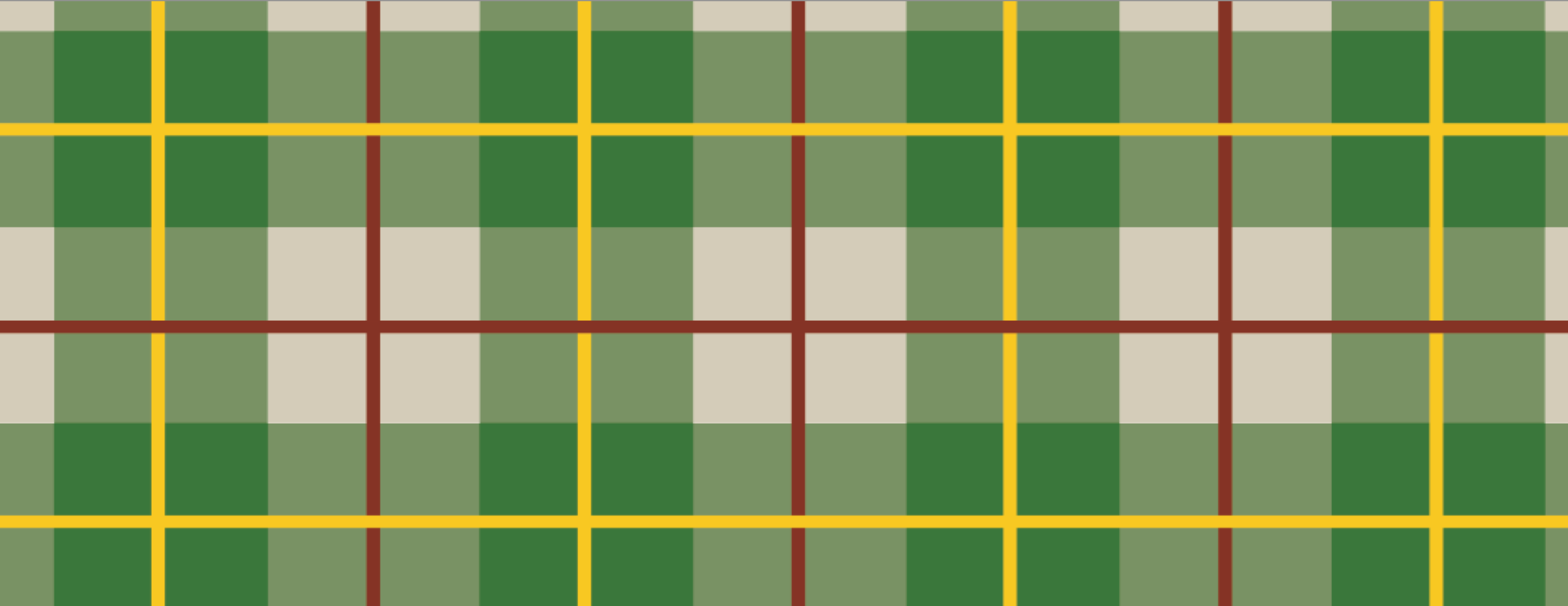


Green IT solutions for District Heating



Johan Emanuel
Project Manager
IMCG





IMCG – GREEN INNOVATION AND COMMUNICATION



Together with clients IMCG contribute to a sustainable society at the leading edge. We assist companies and organisations in reaching out to the market with innovative solutions.

We facilitate new behaviours and transform societal challenges into business opportunities. IMCG is well positioned in energy efficiency, smart cities and digital transformation.







House ID

Password

Add house

Forgot ID or password?



i

Skip



Hi, and welcome!

You have now taken your first step to getting better control over your energy consumption. In order to offer a customized and better service, we would like you to tell me more about your lifestyle and your home's characteristics.

 Swipe to the left to continue.

Progress dots: 1 (blue), 2, 3, 4, 5, 6, 7, 8, 9, 10

Skip



What is more important to you?

Environment Economy

Slider bar with a white circle in the middle

Progress dots: 1 (blue), 2, 3, 4, 5, 6, 7, 8, 9, 10

Green IT Homes

Digital relations for end-user communication and engagement

Green IT Homes is a technology- and communication platform for utility companies. The tool facilitates service and gives valuable insight into customer behaviours and decisions. This provides the basis for optimising operations, creating new business models and digital relations for end-user communication and engagement.



GREEN IT-INNOVATIONS FOR DISTRICT HEATING

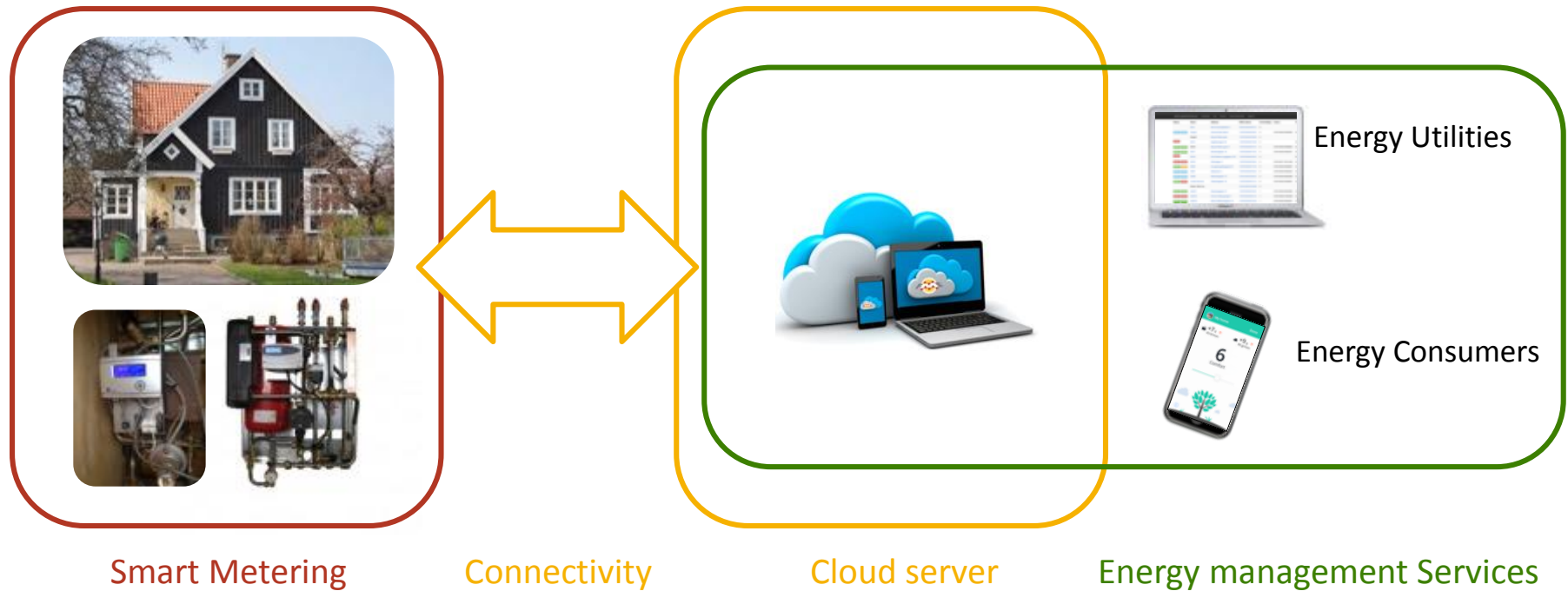




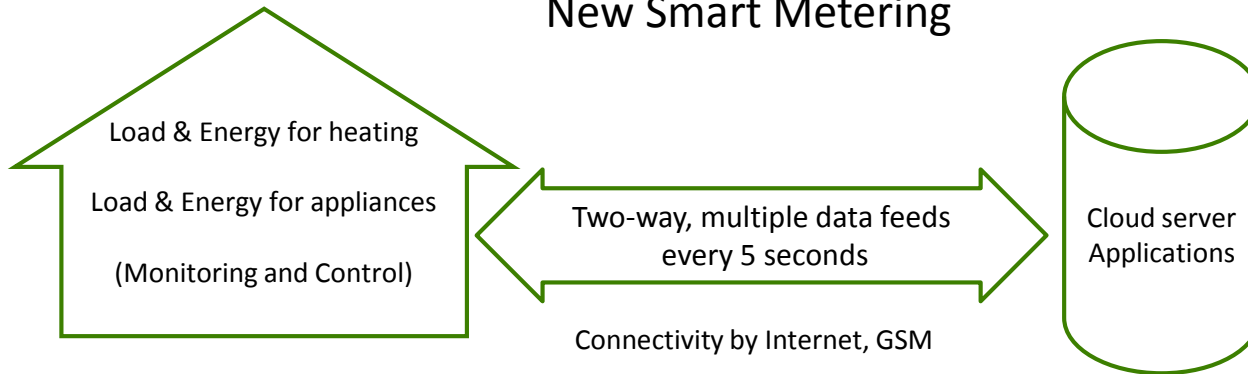
END USER STUDIES:

- I don't understand my invoice!
- How do i lower my cost?
- What is what in my energy profile? Appliances, heating or hot-water?
- How much do I save trough lowering the temperature at home?
- What about the environmental aspects

GREEN IT HOMES – THE STRUCTURE



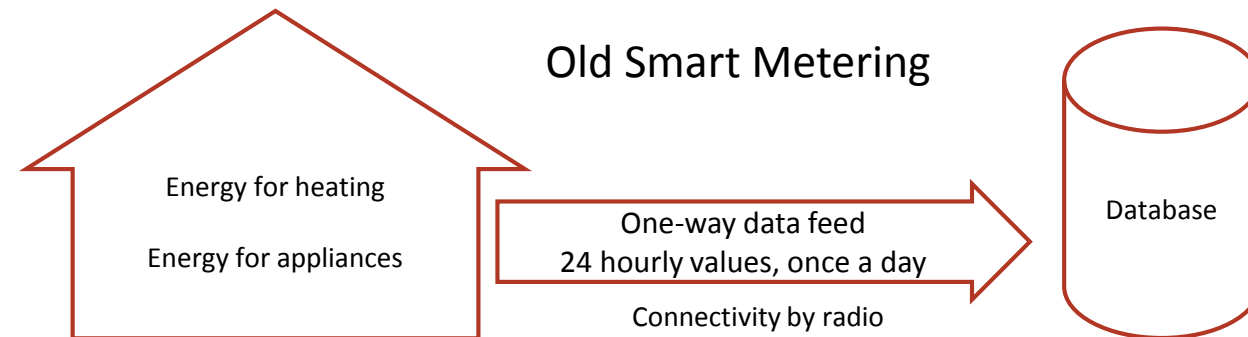
New Smart Metering



Services:

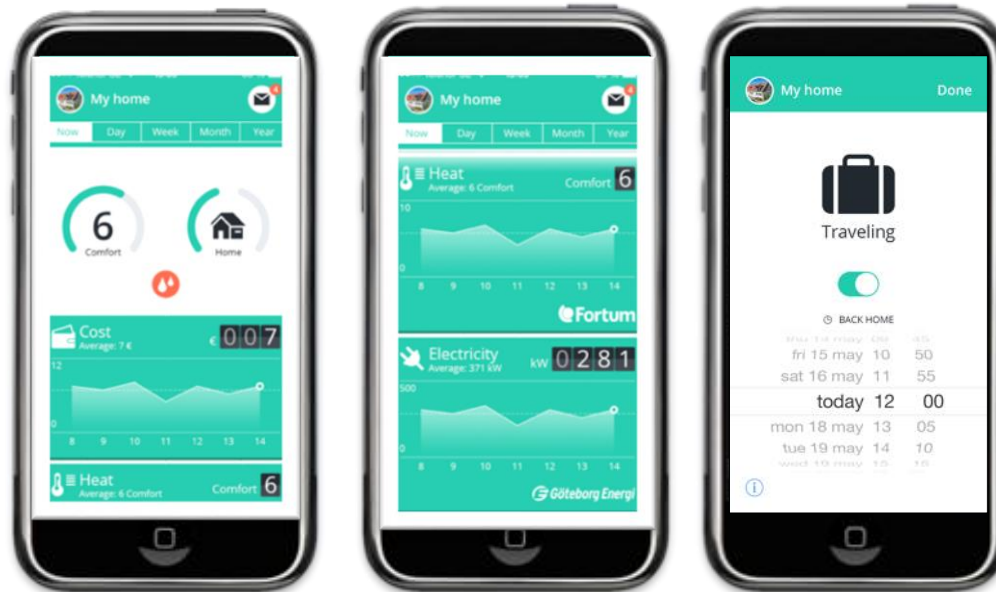
- **Direct energy management services**
- **Indirect energy management services**
- **Utility service organisation**
- **Utility customer support**
- **Utility customer relations**
- **Utility operations**
- **Invoicing**
- **Third party integration:**

Old Smart Metering

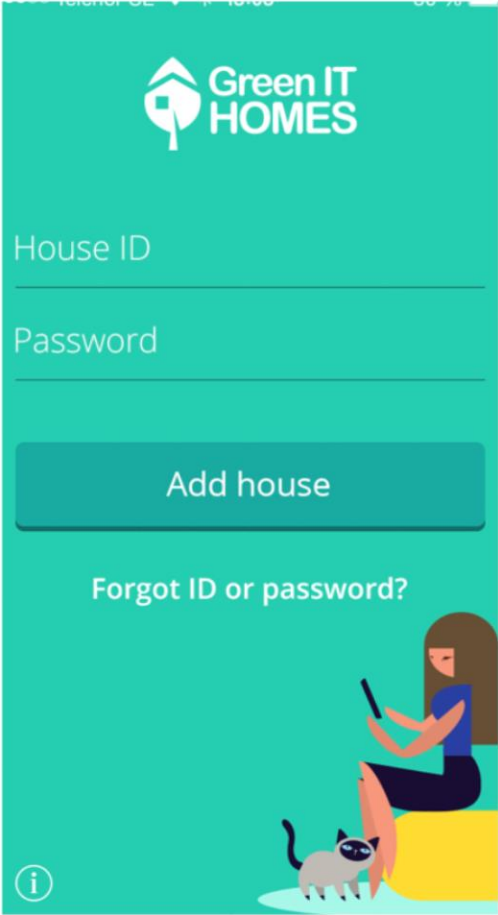


Services:

- **Indirect energy management services**
- **Invoicing**



- Supervising consumption of electricity and heating
- Controlling my comfort-level (indoor temperature)
- Visualizing key figures in real time
- Predicting cost, CO2 and energy
- Saving energy when leaving home



Green IT
HOMES

House ID

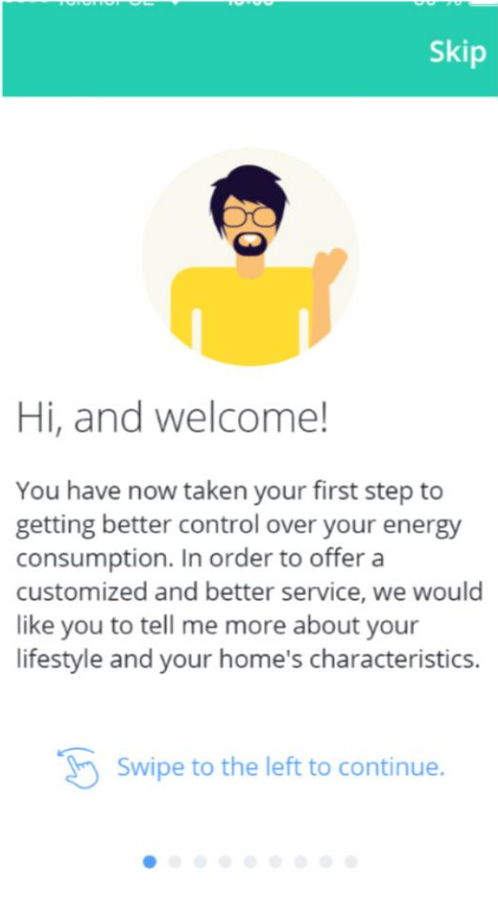
Password

Add house

Forgot ID or password?

i

Illustration of a woman sitting on a yellow cushion, holding a smartphone, with a cat sitting next to her.



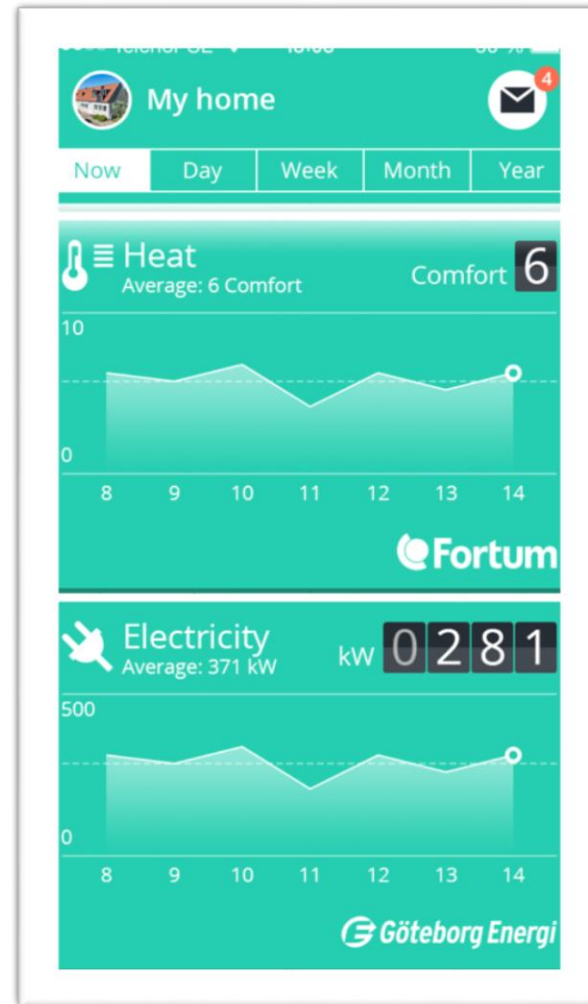
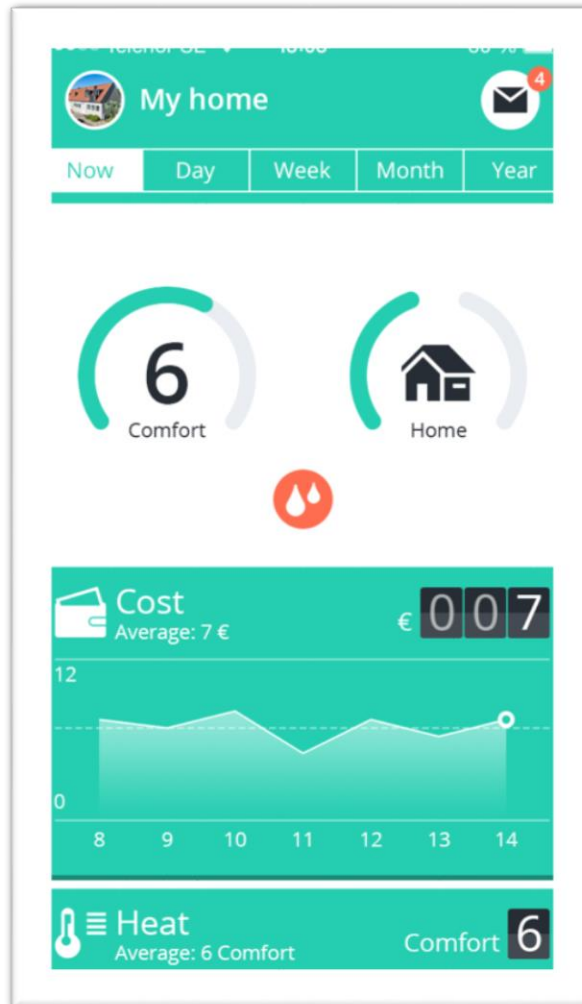
Skip

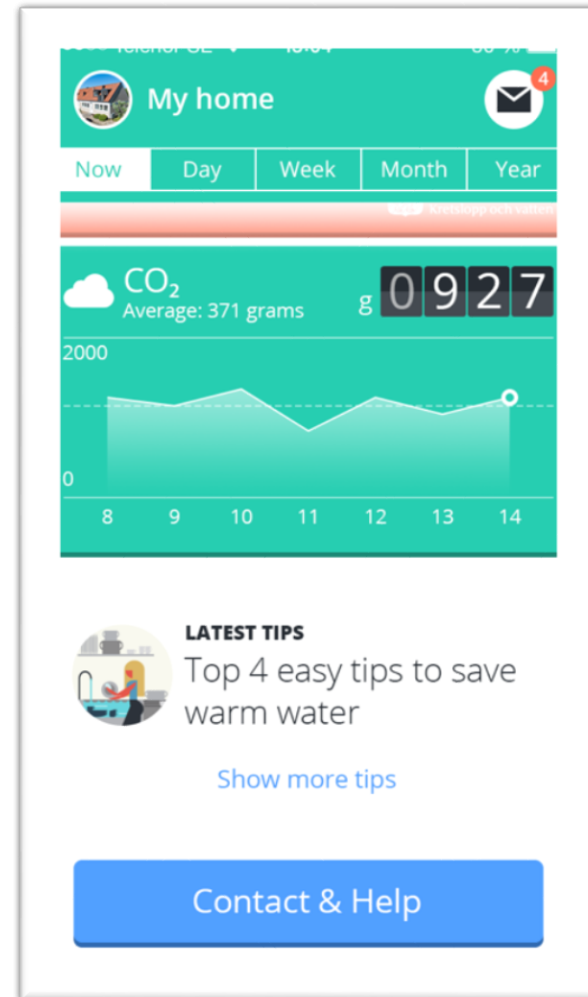
Hi, and welcome!

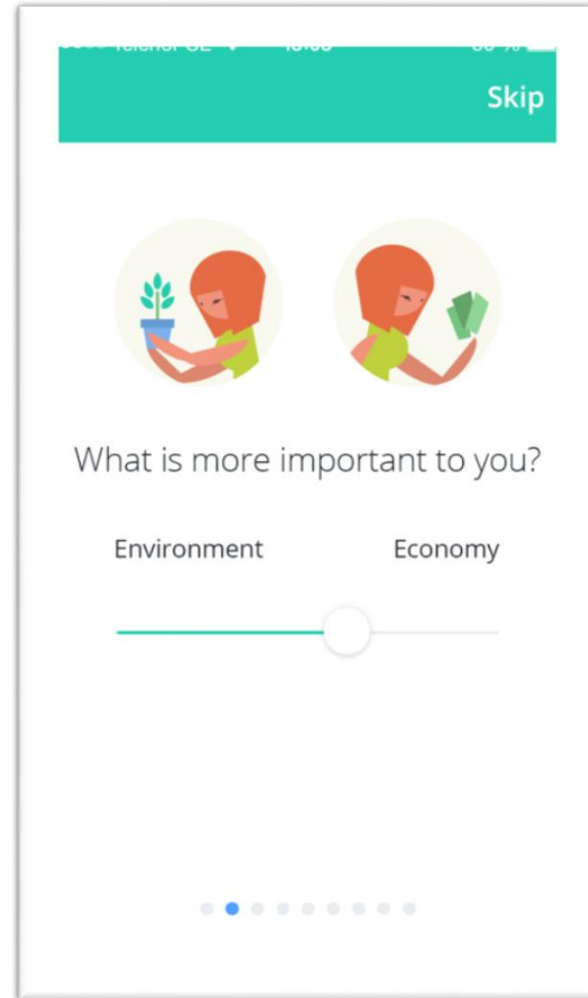
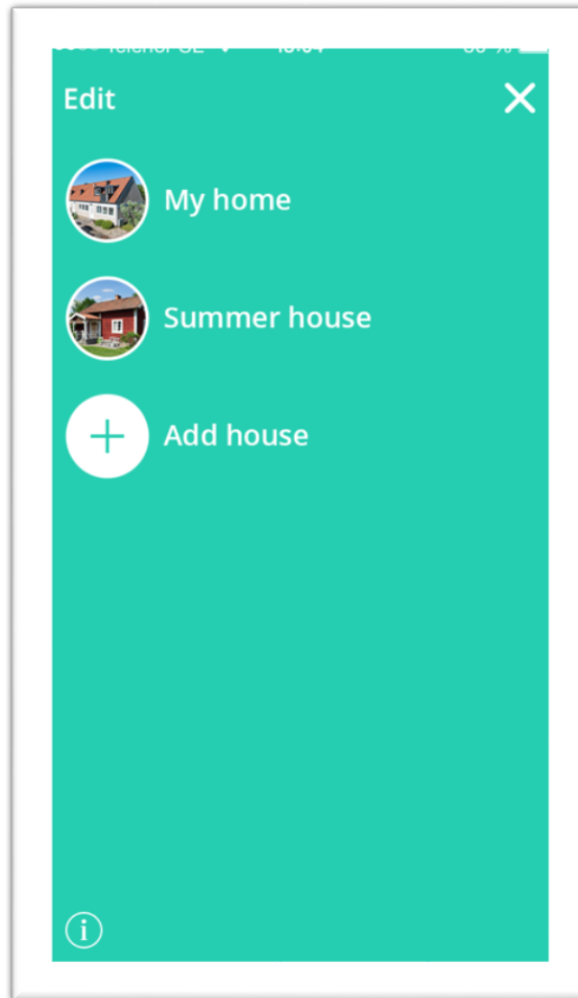
You have now taken your first step to getting better control over your energy consumption. In order to offer a customized and better service, we would like you to tell me more about your lifestyle and your home's characteristics.

Swipe to the left to continue.

Progress indicator: 1 of 10 steps completed.







SERVICES

Direct energy management services

- Mobile application customer control of indoor climate.
- Mobile application indoor climate request.

Indirect energy management services

- Mobile application alarm notifications with load- or consumption warnings.
- Mobile application communication with energy management recommendations.

Utility service organisation

- On-line monitoring for services purposes

Utility customer support

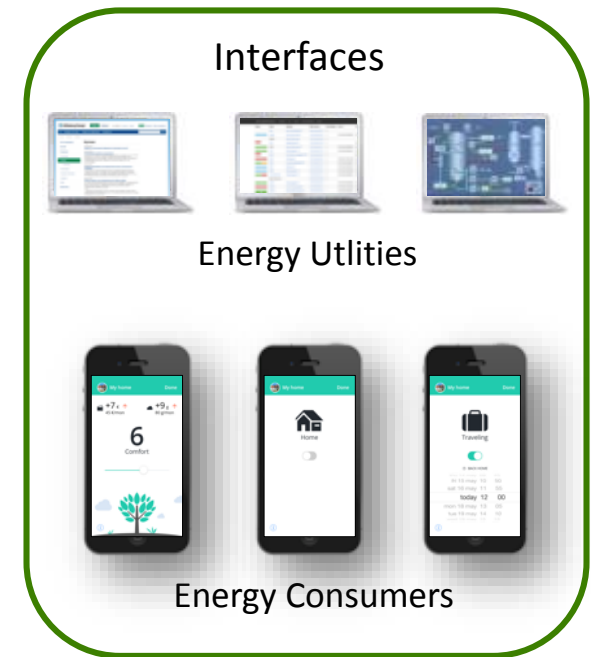
- Mobile application alarm notifications at systems failures.
- Online customer support for functionality tests and optimal settings.

Utility customer relations

- Mobile application communication for customer relations

Utility operations

- Large scale load balance operations
- Short term storage
- System optimisation





Johan Emanuel

Project Manager, Smart Cities

+46 766 36 53 05

johan.emanuel@imcg.se

www.imcg.se

Sweden

Odinsgatan 20A
411 03 Göteborg

UK

P.O Box 78, Limpsfield
Oxted, Surrey RH8 OFH

