

RESPOND H2020

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Flexibility 2.1: From Demand Response to Renewable Energy Communities
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Co-funded by the Horizon 2020 programme
of the European Union



The Project



Is a **European Horizon 2020** funded project, that aims to bring energy demand management opportunities to neighborhoods across Europe. It started in 2017 and had a duration of **3 years**.

It is a research project that aims to find a **technological solution** so that different types of residential clients can be more **energy efficient** in their homes.



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The Consortium

RESPOND was carried out by an interdisciplinary committee (11 partners from 5 different countries: Czech Republic, Denmark, Ireland, Serbia and Spain) committed to capacity-building, technology and tools that benefit energy suppliers and consumers under the umbrella of Demand Response



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Energy Providers



Research



Technology Providers

Home Automation



EMS/BMSSCADA

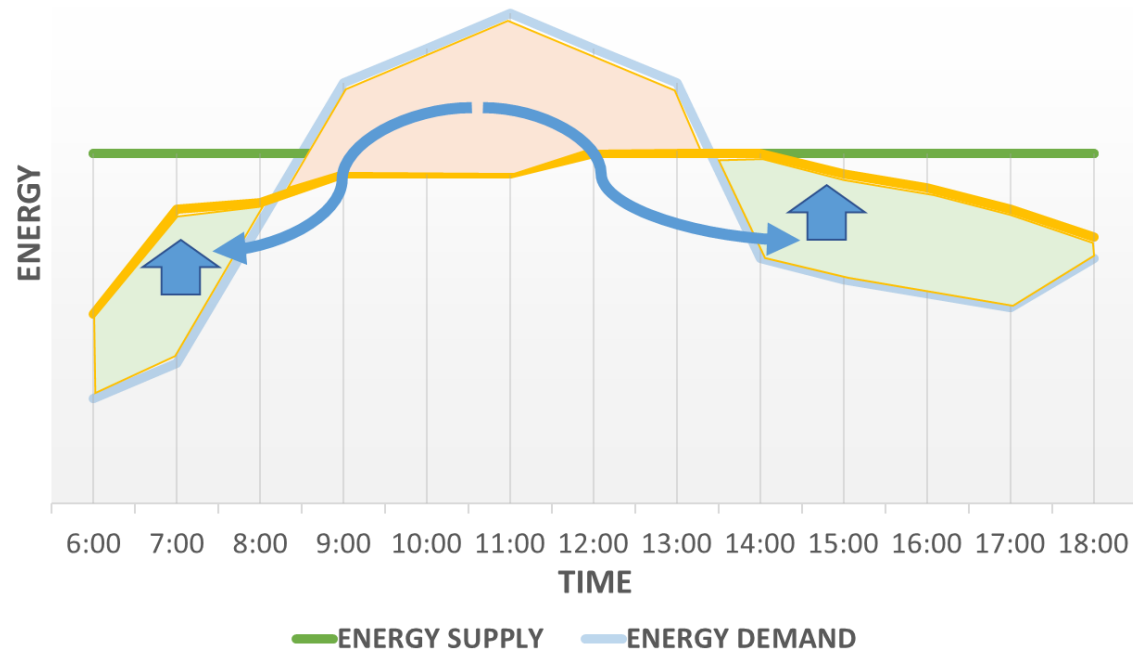


Pilot Sites



RESPOND
DEMAND RESPONSE FOR ALL

The challenge



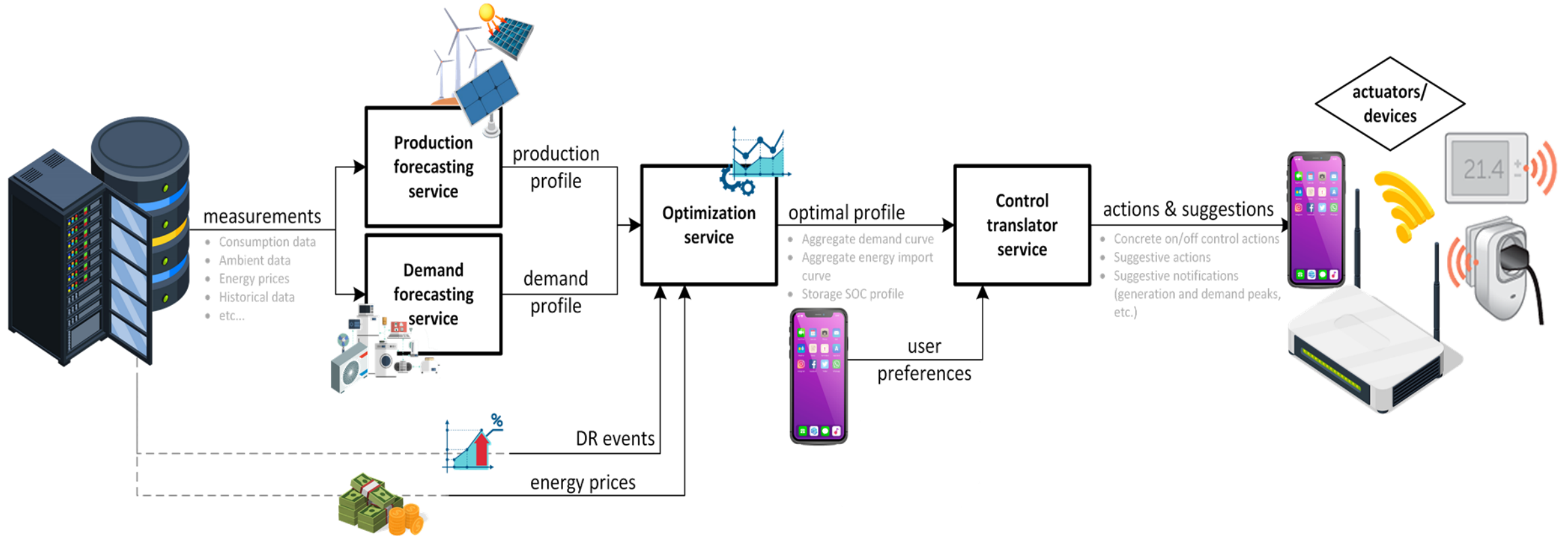
- Change Energy Consumption Habits
- Reduce Demand Peaks
- Maximize Renewable Energy exploitation



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AI for solving the problem



Measurement

Forecasting

Optimization

Control

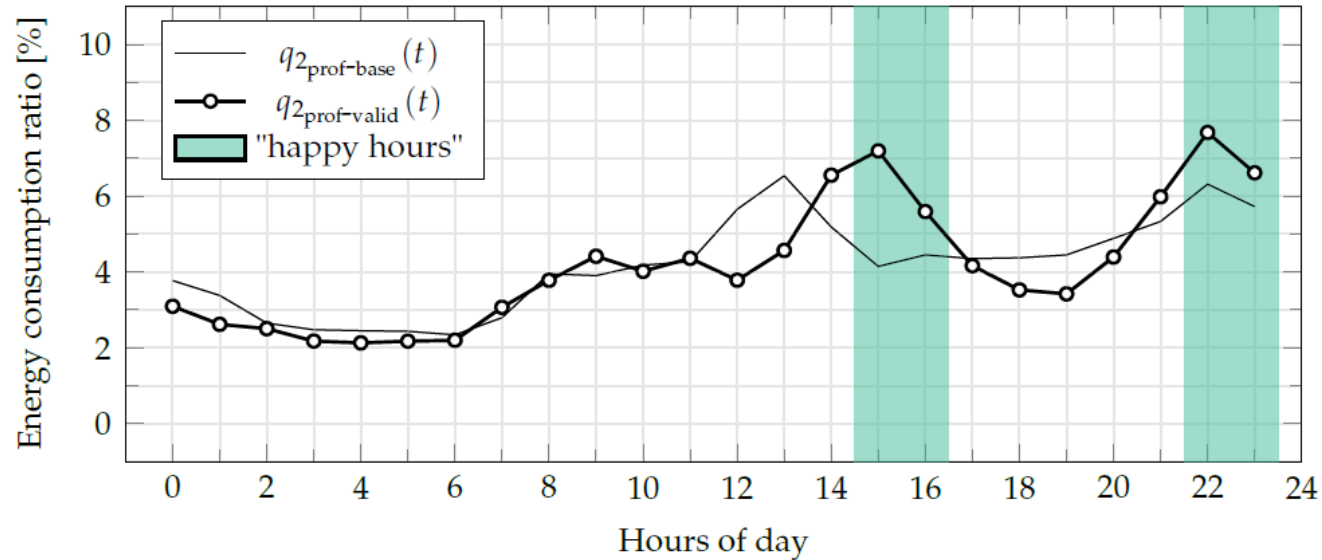


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The results



- Given **proper incentives**, dwellers can display significantly **more flexibility** than was originally presumed
- Achieving a **reduction of around 30%** of demand peaks



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Lessons learnt

- The most important actions should be the ones that **impacts the user experience** and also **leverage the user engagement**.
- Monitoring the status of the measurements and setup alarms to know as soon as possible **when data is being lost** is recommended.
- Involve users early in the design of mobile app in order to get their **feedback** on first versions.
- Sometimes there are problems that can not be predicted, and it is important to be ready to **react as soon as possible** to guarantee the expected result e.g. COVID-19.



THANK YOU FOR YOUR ATTENTION

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More information on:
<http://project-respond.eu/>



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