Seita

Energy Santa

From energy poverty to energy wealth.

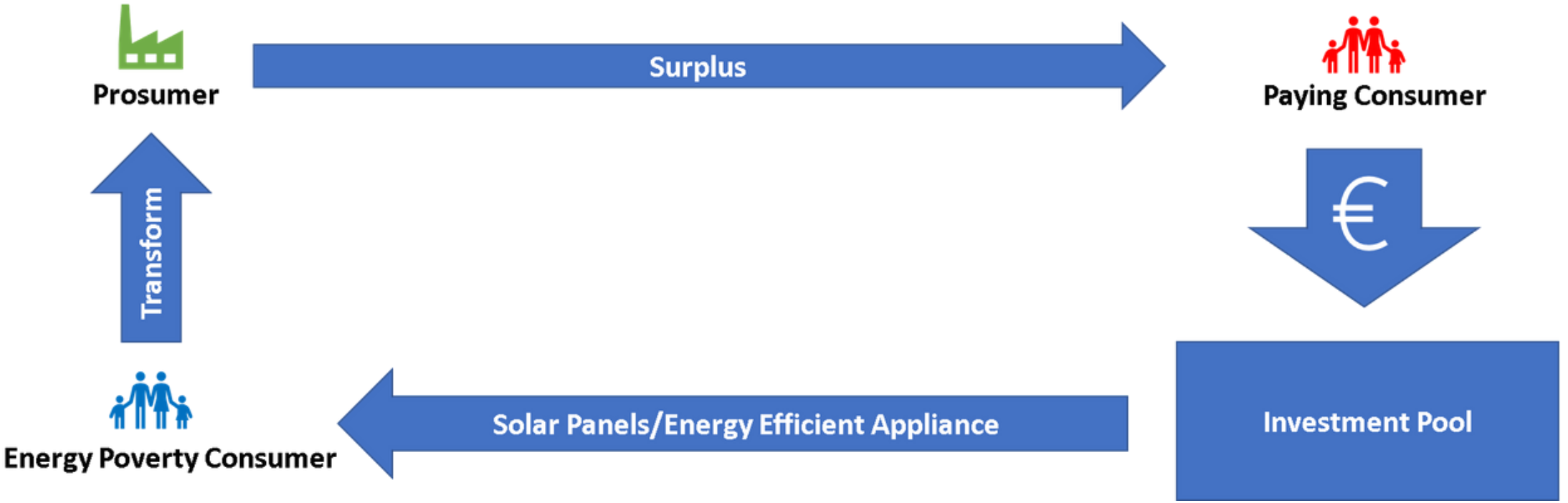
Energy Santa - Mission

Empower community builders to tackle energy poverty - in real time and at the root.

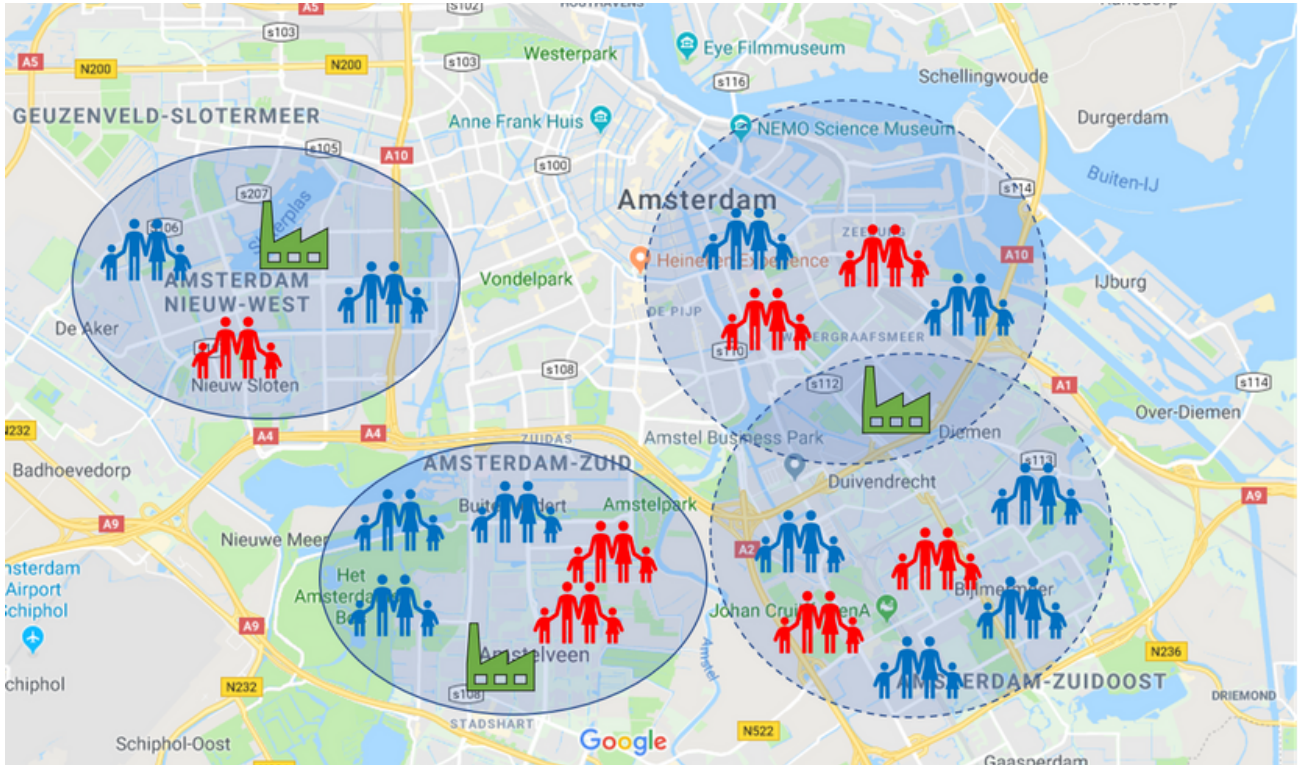
- Design for customer value
- Design for long-lasting impact

Donations

Investment


Prosumer
Surplus
Paying Consumer
Transform
Energy Poverty Consumer
Solar Panels/Energy Efficient Appliance
Investment Pool

Setup: Find optimal communities



Prosumer

Paying Consumer

Energy Poverty Consumer

Community

Relevant work

- Hierarchical Type-2 Fuzzy Logic Based Real Time Dynamic Operational Planning System
- A cloud computing based many objective type-2 fuzzy logic system for mobile field workforce area optimization

Setup: Compliance via billing authority

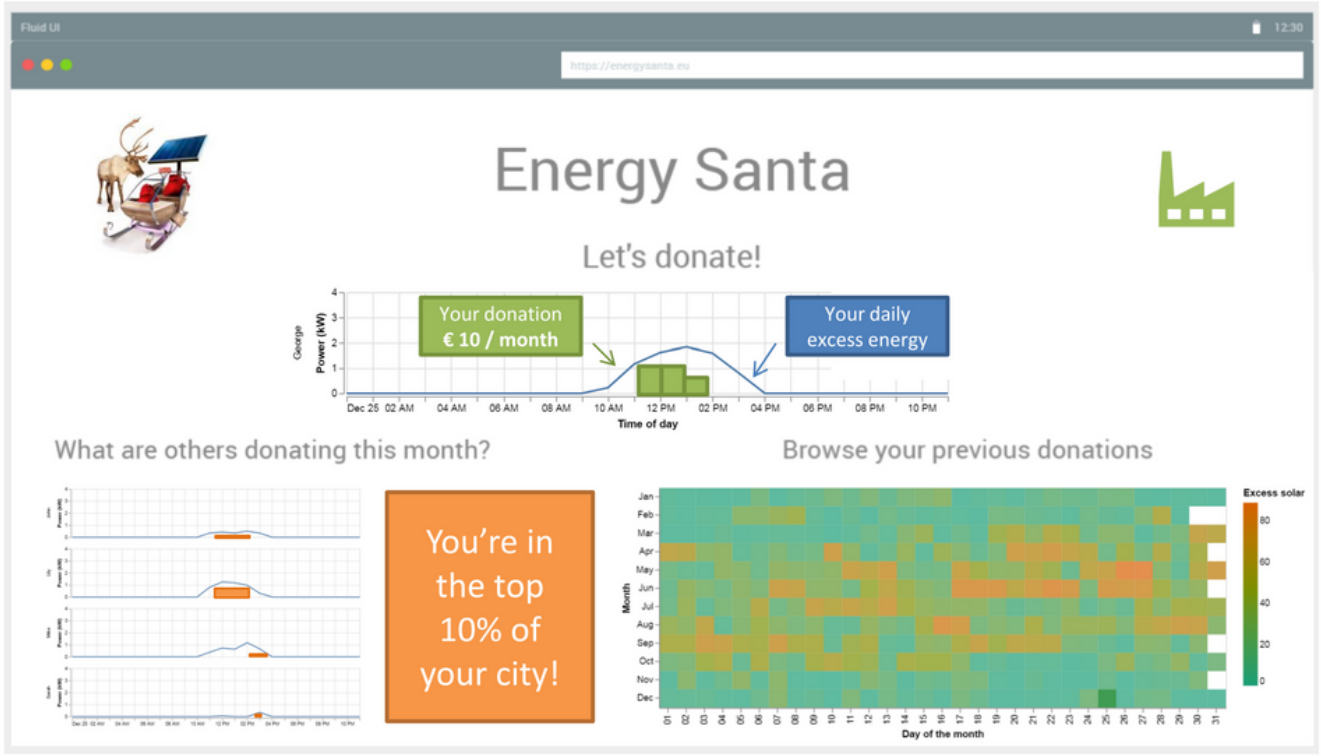
Universal Smart Energy Framework

Allocation Responsible Party

Relevant work

- USEF design team and review board
- Aggregator company

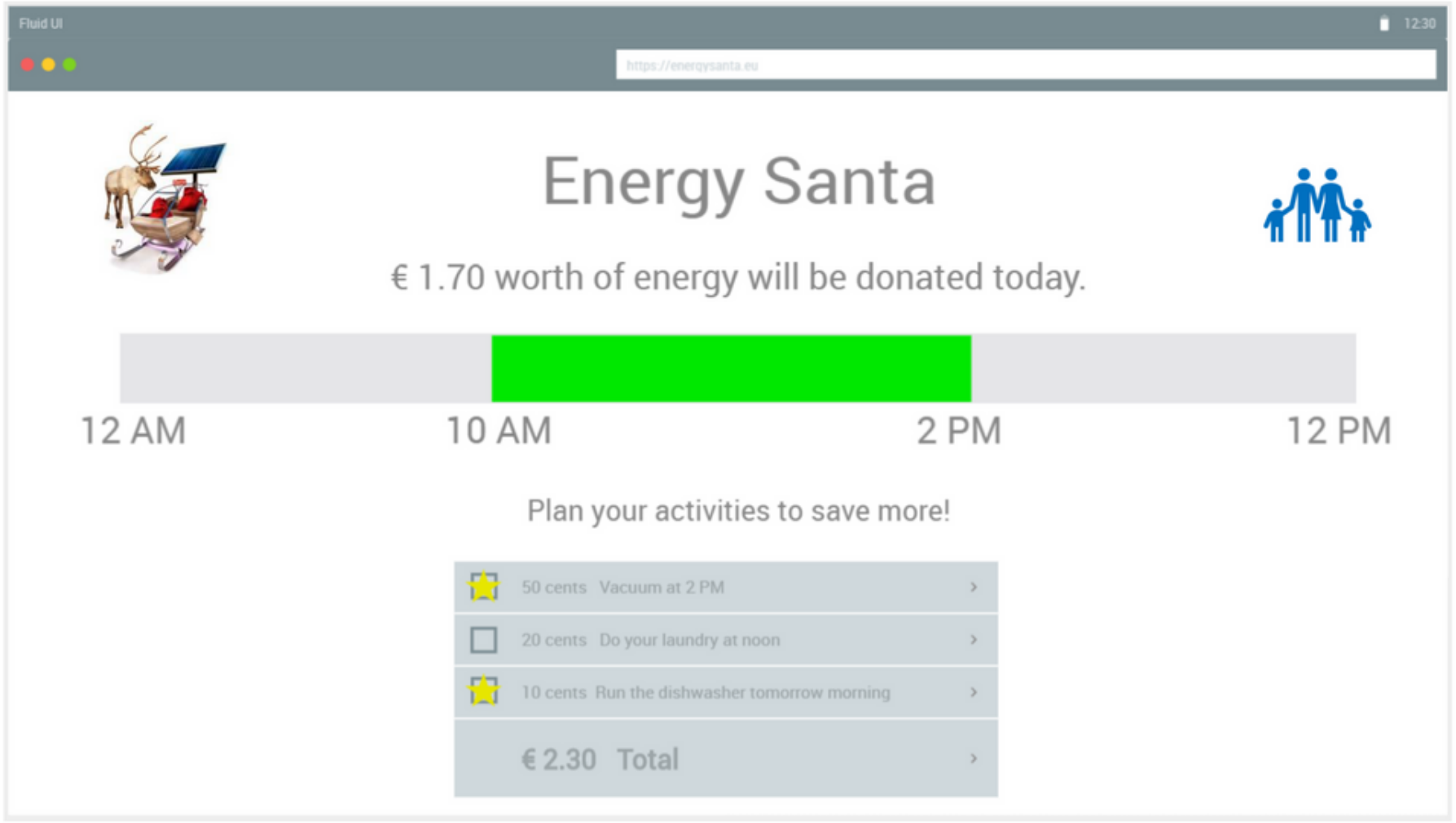
Usability: Prosumer



Relevant work

- Energy management platforms
- Electric vehicle aggregation

Usability: Consumer



Energy Santa - Impact

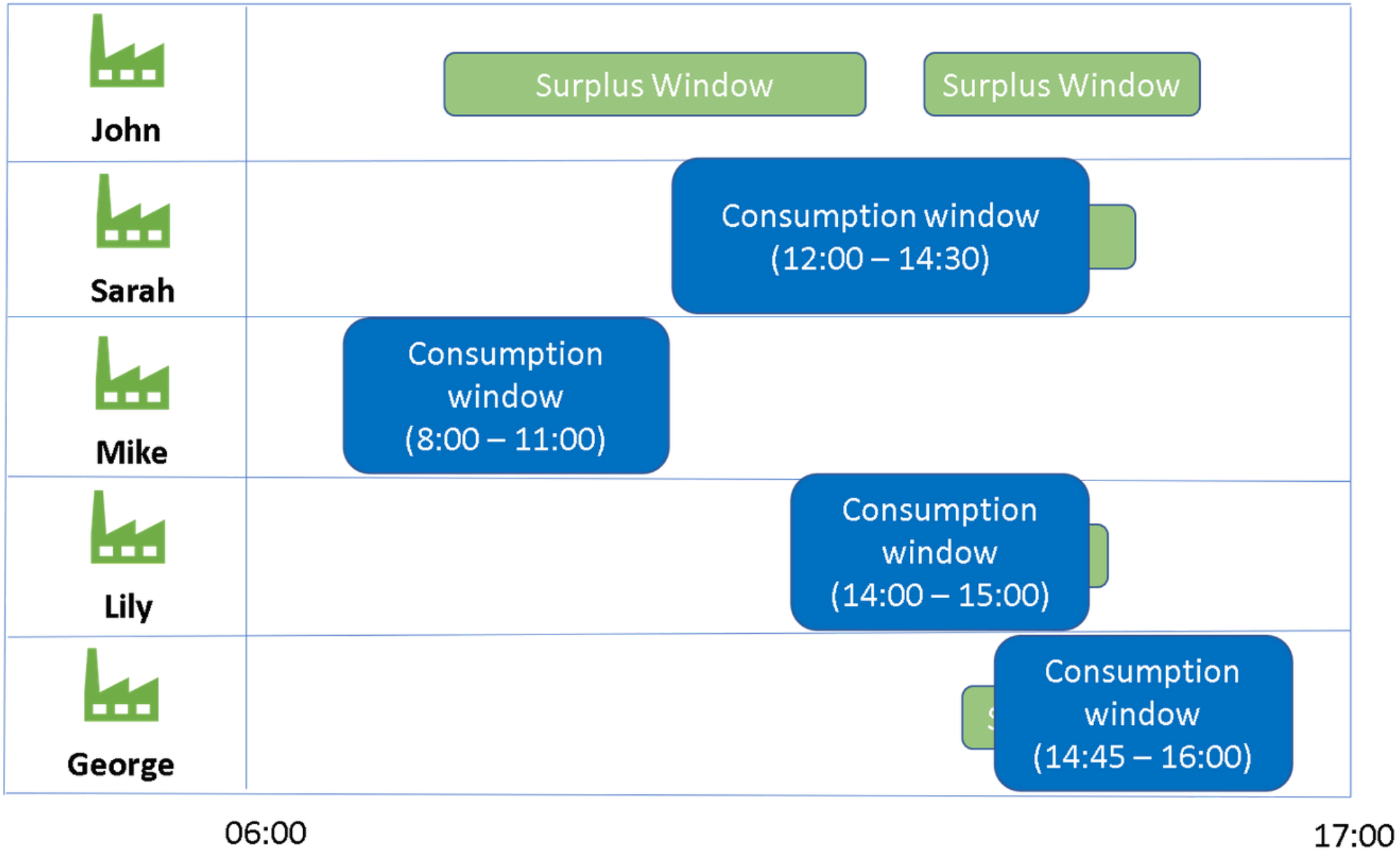
Empower community builders to tackle energy poverty - in real time and at the root.

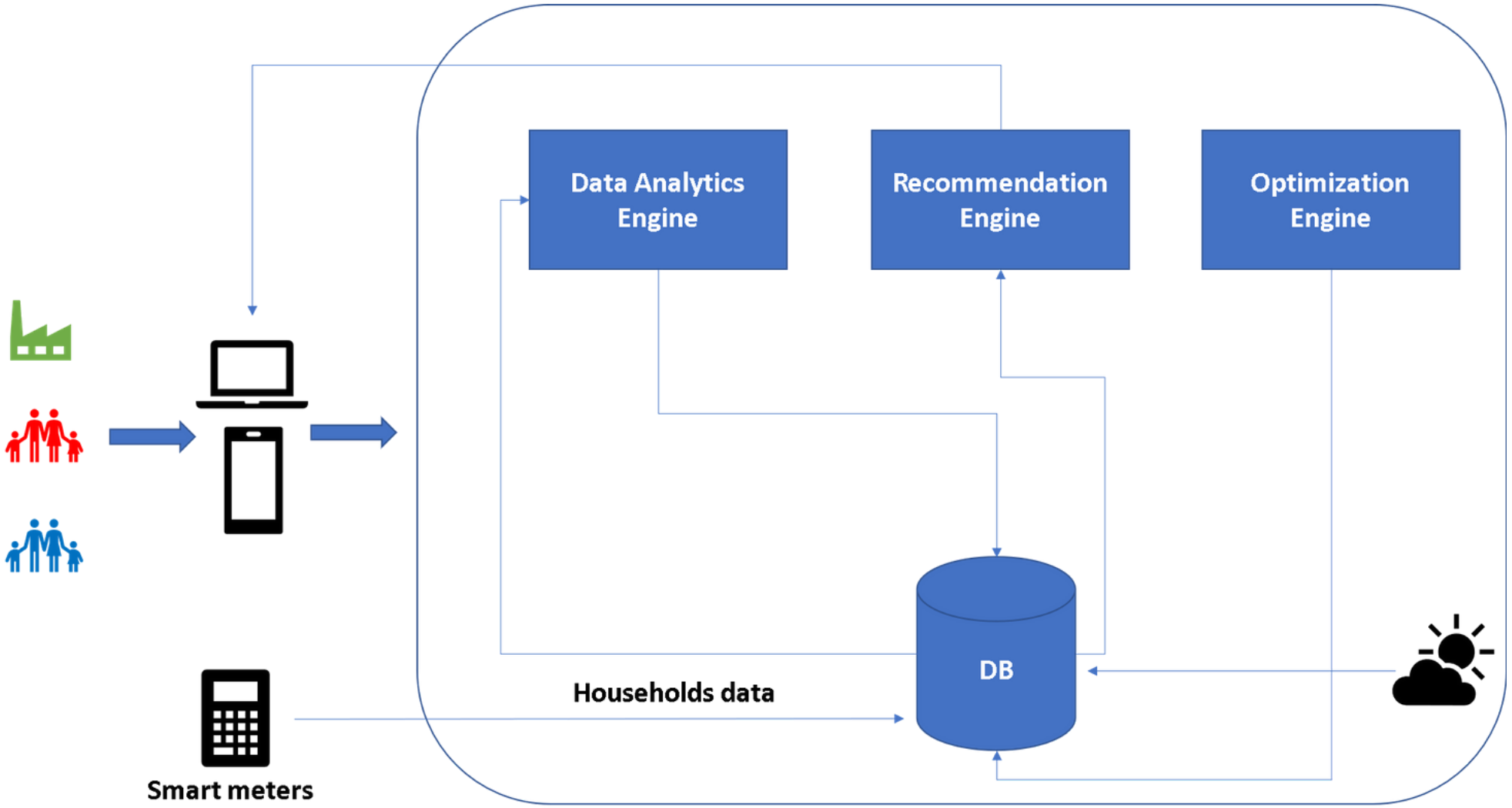
- 1. Develop into turnkey solution
- 2. Offer platform in all countries via EC, become profitable
- 3. Within two years:

  Donation amounts: EUR 150,000 - 2500 households

  New prosumers funded: 1000

John
Surplus Window
Surplus Window
Consumption window (8:00 – 11:00)
Sarah
Surplus Window
Consumption window (13:00 – 14:00)
Mike
Surplus window
Lily
Surplus Window
Consumption window (19:00 – 20:00)
George
Surplus Window
Consumption window (12:00 – 20:00)
06:00
21:00


John
Surplus Window
Surplus Window
Sarah
Consumption window
(12:00 – 14:30)
Mike
Consumption
window
(8:00 – 11:00)
Lily
Consumption
window
(14:00 – 15:00)
George
Consumption
window
(14:45 – 16:00)
06:00
17:00



All engines are implemented as micro-services in order to scale individually based on the requests load.