

Connect 2 Evolve- LastWatt

Smart routing of energy based on community voting

Challenge: Maximize the Production output from the limited amount of electricity produced from the container



What do we know?



Capacity of the
Solartrainer

22kWp

Number of connections

400

Household users

320

Businesses

70

Priority Users

10

Average consumption
per household

200kWh/Year

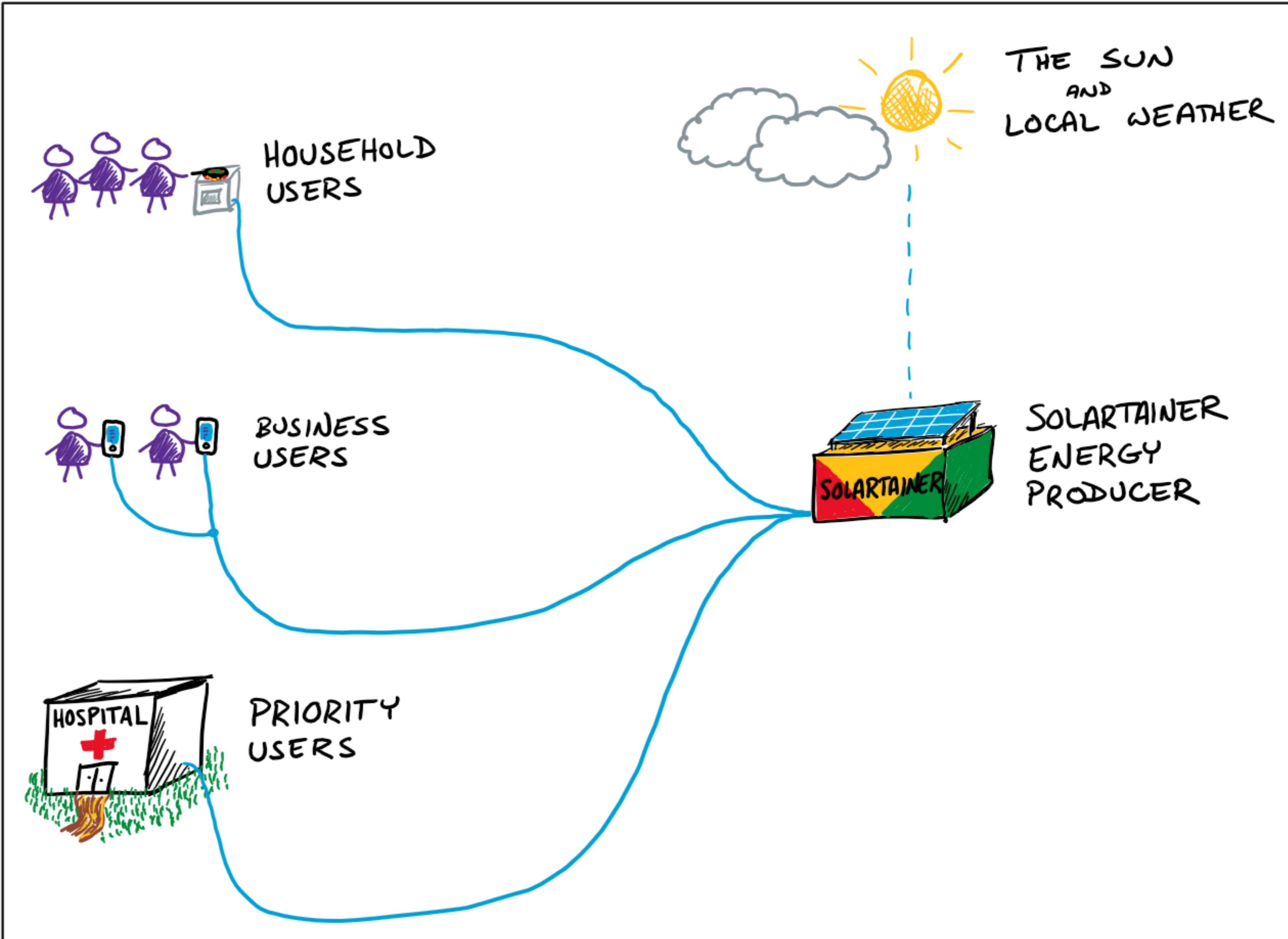
Unknowns

- Businesses
 - Profile of business
 - Energy requirements
 - Seasonal requirements



Photo by [Emily Morter on Unsplash](#)

ENERGY LAYER

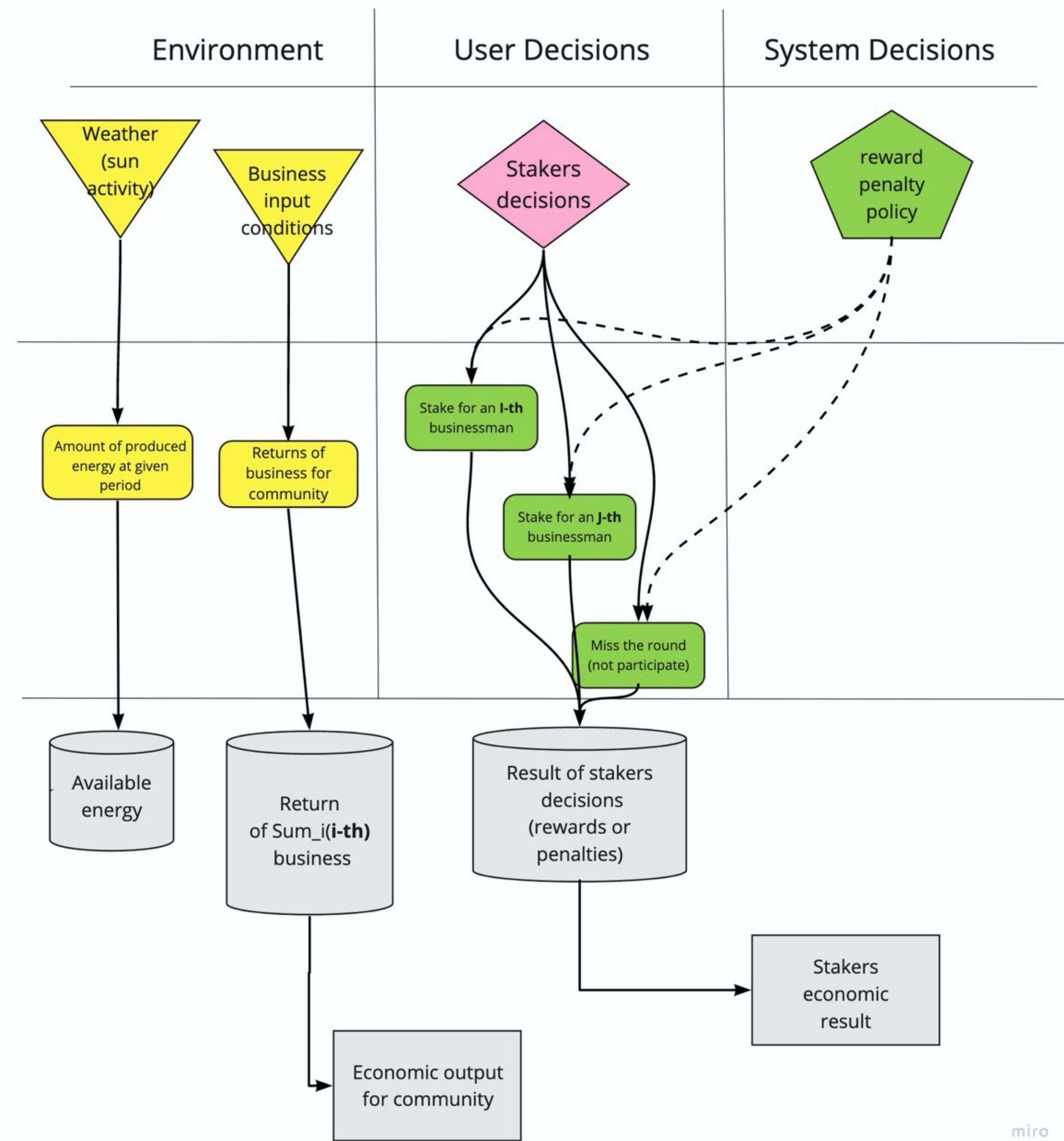


Assumptions

- Not all businesses need electricity during the whole year
- Their energy requirements change on a seasonal basis
- Community has the knowledge to decide on the importance of a business at any given time
- Each household in the village has the staking power
- In our case: We have 320 stakers and 70 businesses



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Future work

- Define individual entities (businesses) with the characteristics- e.g., consumption patterns etc
- Integrate demand growth patterns- e.g., increase in community size, new business formation etc