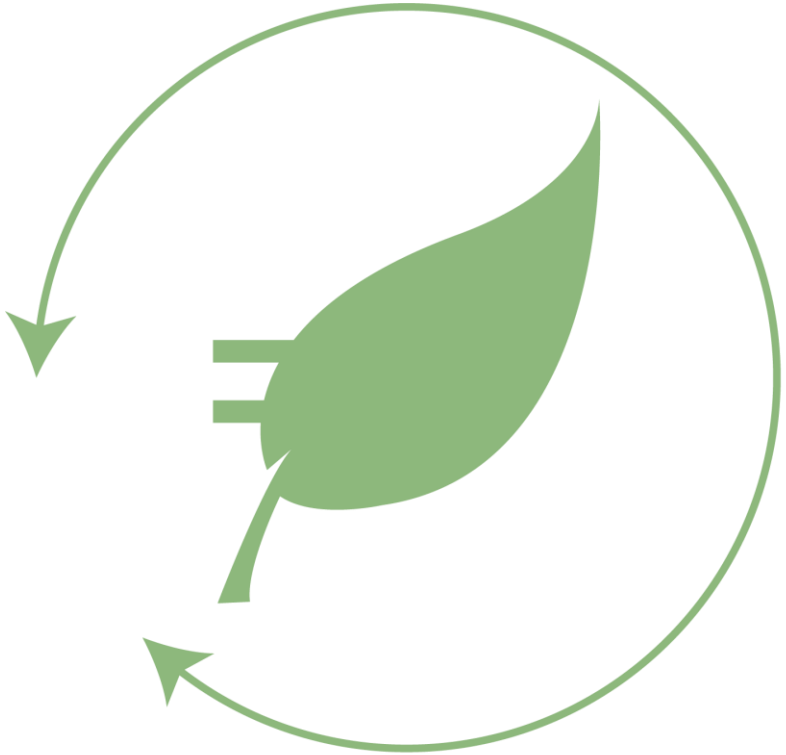


ElectroEuro

Talia Kohen • Ran Koretzki • Idan Nesher
Haim Bender Isaack Rasmussen

PREDIX

TALIA KOHEN
CEO

RAN KORETZKI
CTO

IDAN NESHER
UX DESIGNER

HAIM BENDER
DEVELOPER

ISAACK RASMUSSEN
DEVELOPER

OUR TEAM

DEFINITION

ElectroEuro *(noun)*

| ələɛktro juro |

Decentralized virtual currency to transfer energy within Europe in an equalized manner. Promotes a unified Europe and creates a low carbon economy.

This car consumes 100 ElectroEuros a year, it is low cost.

MODEL

ElectroEuro

- Universal
- Finite amount
- Transaction of energy is done through a tradeoff of it.
- Can be bought through goods that do not promote carbonization.

Cost

- Distance to transport energy (a fixed cost).
- Quantity

MARKET

1. Surplus of energy per country and per energy source
2. Technology
    A. Prediction / Estimation of surplus of energy (Predix's machine learning)
        I. Production - availability of each source based on its features
        II. Consumption - by producer
        III. Cost

BIDDING PROCESS

1. Auction with anonymous bidding on an interval

Principles

I. Prioritize green energy / stability

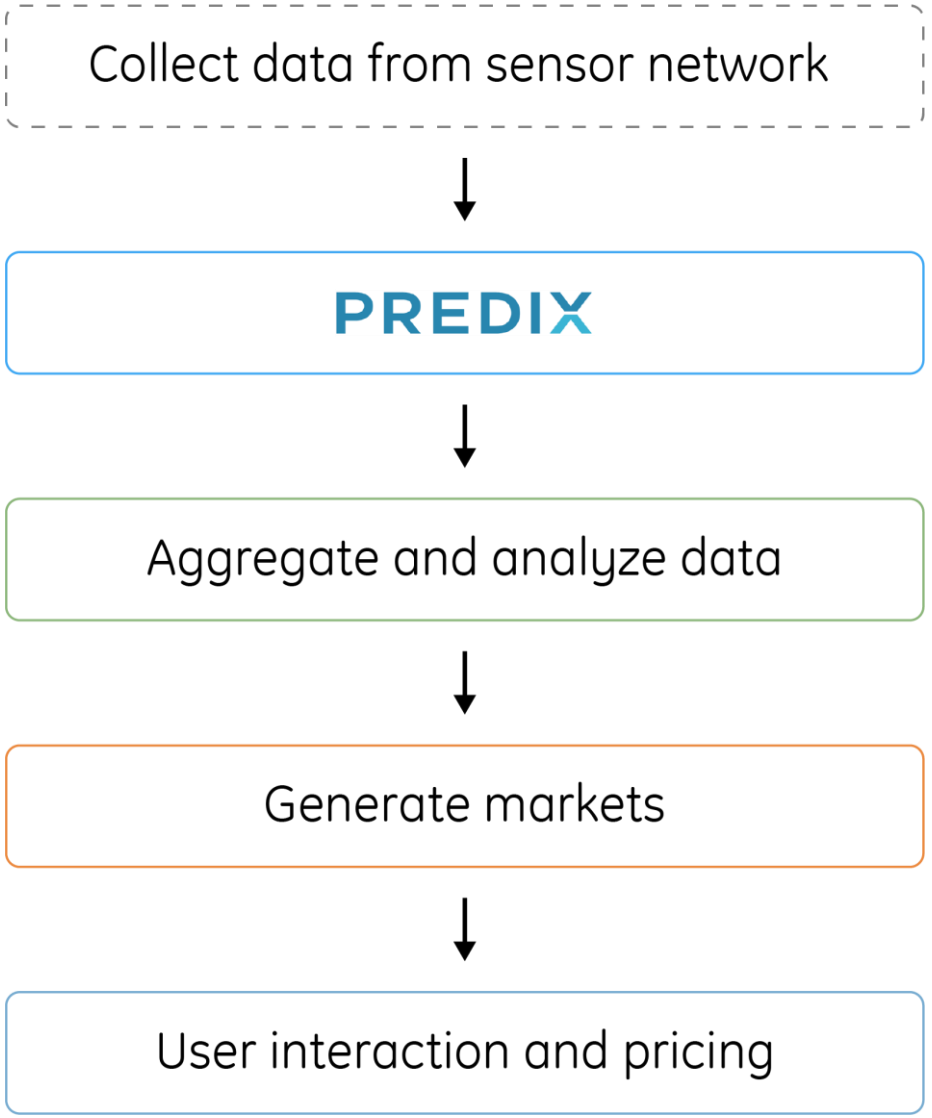
- **Consumer**
  - Cheaper
  - Flexible trade rules (variety of things that could be exchanged for it, including non energy entities)
  - Delayed payment
- **Supplier**
  - Debt forgiveness
  - Small loans
  - Fines for using polluting technologies

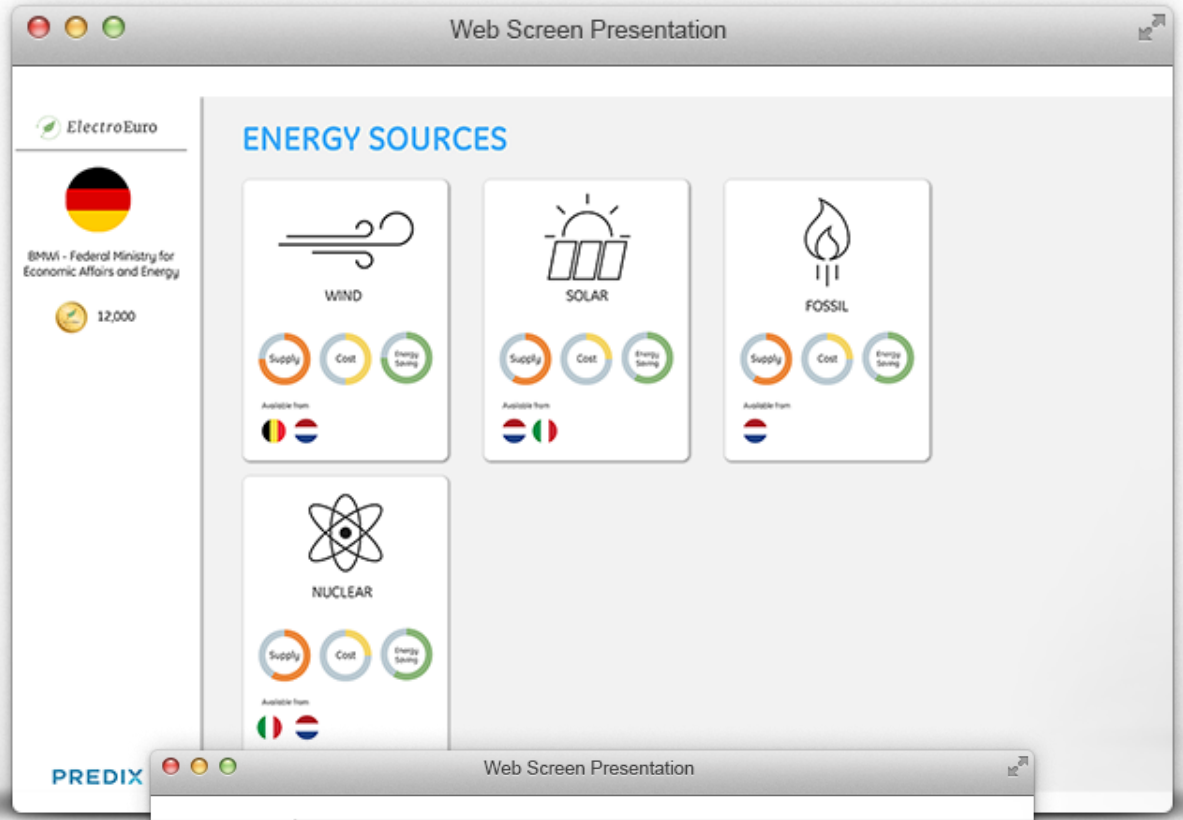
Sources	Features	Green	Stable
SOLAR	Weather	1	7
WIND	Weather, Location, Cost of operation	3	6
WATER	Availability, Location	2	2
GEOTHERMAL	Difficulty of Harnessing	7	8
BIOENERGY	Volume	4	5
NUCLEAR	Waste, Risk, Failures	6	4
FOSSIL	Pollution	8	1
HYDROGEN	Volume, Cost of production	5	3

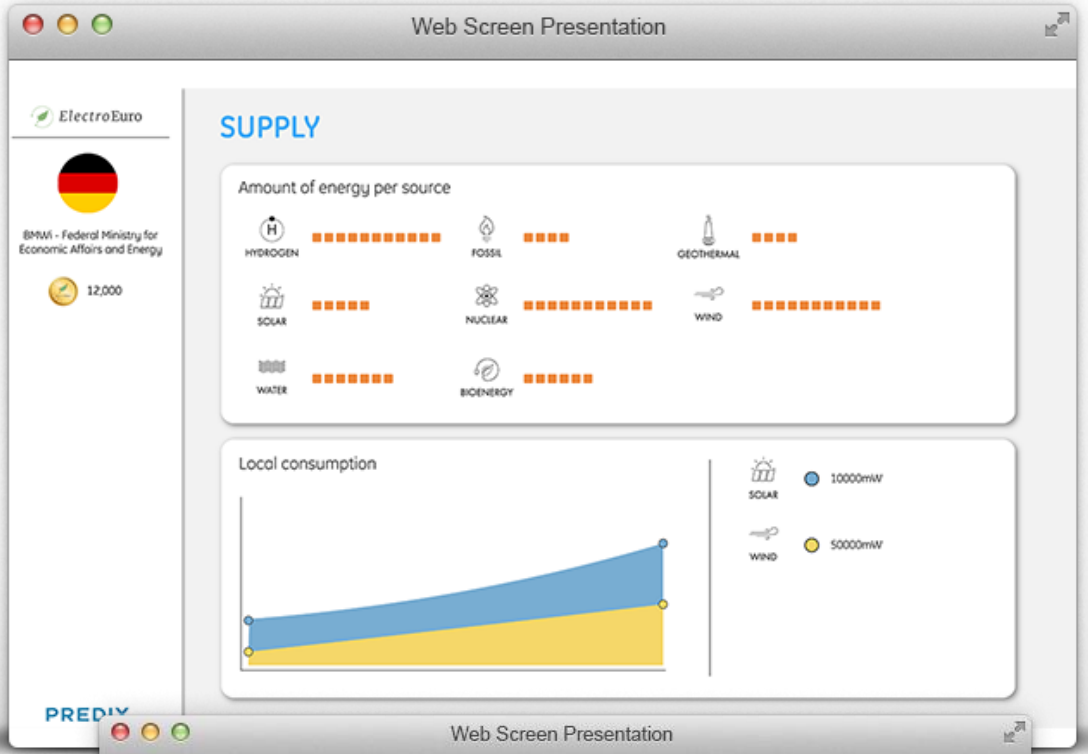
Each country determines its own pricing based on supply and demand, it is determined by 4 parameters

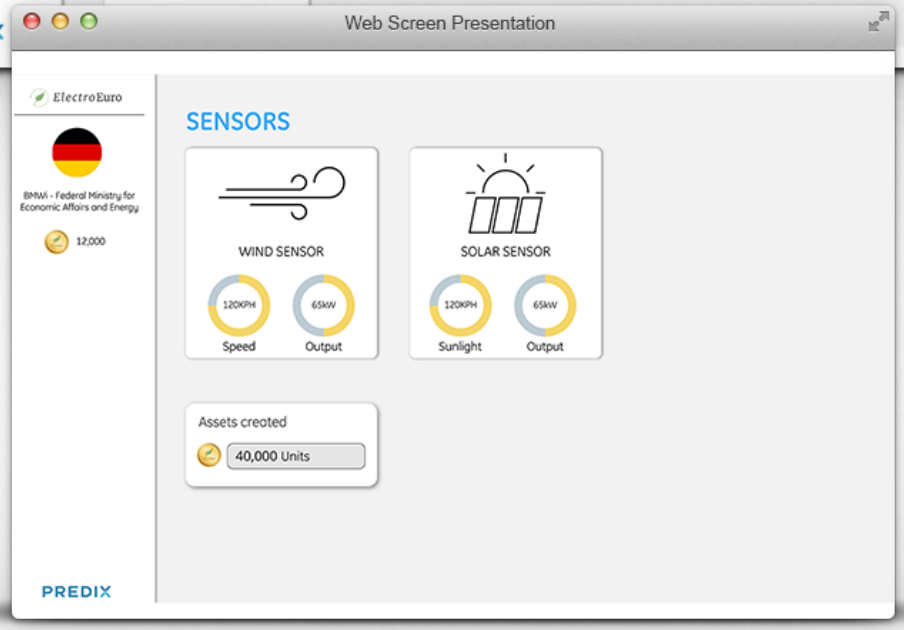
- Greenness
- Stability
- Distance
- Availability

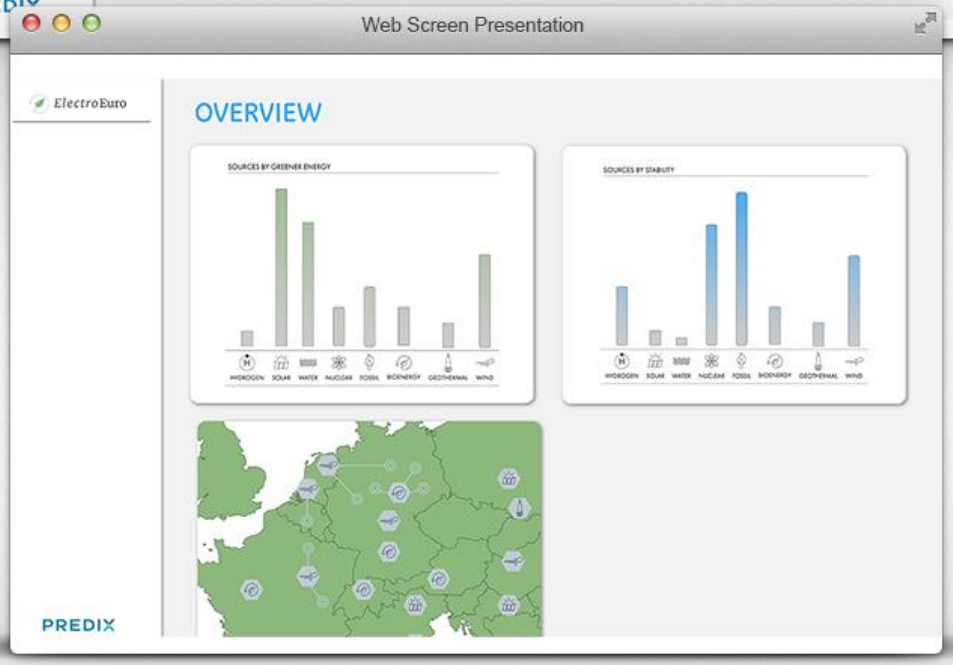
IMPLEMENTATION




Web Screen Presentation
ElectroEuro
BMWi - Federal Ministry for Economic Affairs and Energy
12,000
ENERGY SOURCES
WIND
SOLAR
FOSSIL
NUCLEAR
Supply
Cost
Energy Saving
Available from
PREDIX


Web Screen Presentation
ElectroEuro
BMWi - Federal Ministry for Economic Affairs and Energy
12,000
SUPPLY
Amount of energy per source
HYDROGEN
FOSSIL
GEOTHERMAL
SOLAR
NUCLEAR
WIND
WATER
BIOENERGY
Local consumption
SOLAR
10000mW
WIND
50000mW
PREDIX


Web Screen Presentation
ElectroEuro
BMWi - Federal Ministry for Economic Affairs and Energy
12,000
SENSORS
WIND SENSOR
120KPH
65kW
Speed
Output
SOLAR SENSOR
120KPH
65kW
Sunlight
Output
Assets created
40,000 Units
PREDIX


Web Screen Presentation
ElectroEuro
OVERVIEW
SOURCES BY GREENER ENERGY
SOURCES BY STABILITY
PREDIX

SOLUTION BENEFITS:

Hybridization
- Combine different energies
- Solves the problem of resource availability

Mobility
- Obtain energy from nearest neighbor EU country rather than OPEC

Decentralized
- Pure free market
- Virtual currency prevents monopoly

Big data optimality
- Large scale sensor network generates volumes of data for optimality

Efficiency
- Close down or relocate inefficient energy sources

PRACTICAL IMPLICATIONS:

Makes green energy cheaper than polluting energy (by reducing costs)

Optimal pricing based on free market

- Reduces dependency on OPEC

Revenue driven production

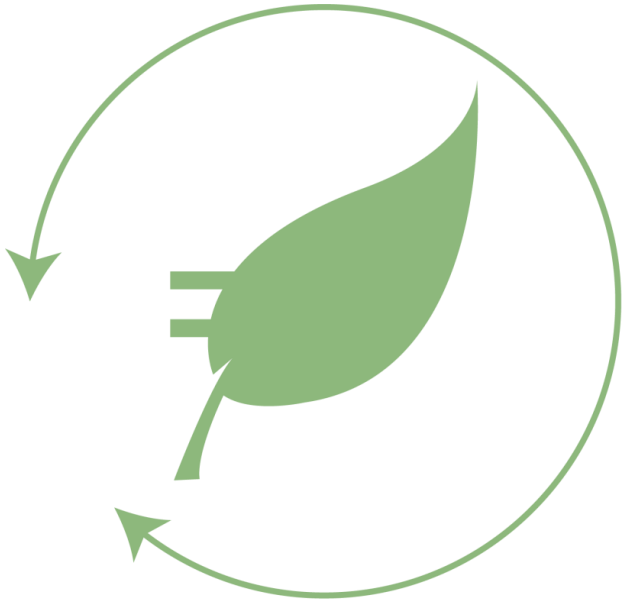
- Not politically driven

Autonomy of countries

- OPEC imposes penalties
  - Low volume producing countries have limited negotiation power
  - Overproducing countries are fined

Prisoner's dilemma (cheating)

- Each nation individually:
  - Discounts its price
  - Exceeds its quota



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THANKS