EnergAIser

Understand human behaviour for efficient energy distribution

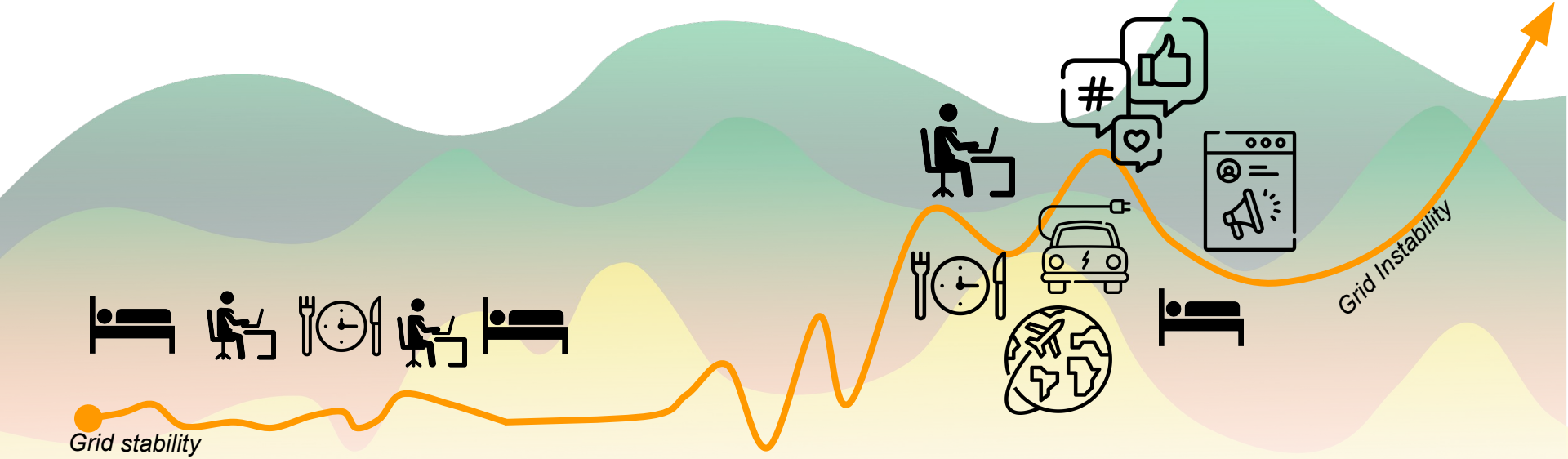
Shift in **human behaviour & energy**

Past

People were predictable

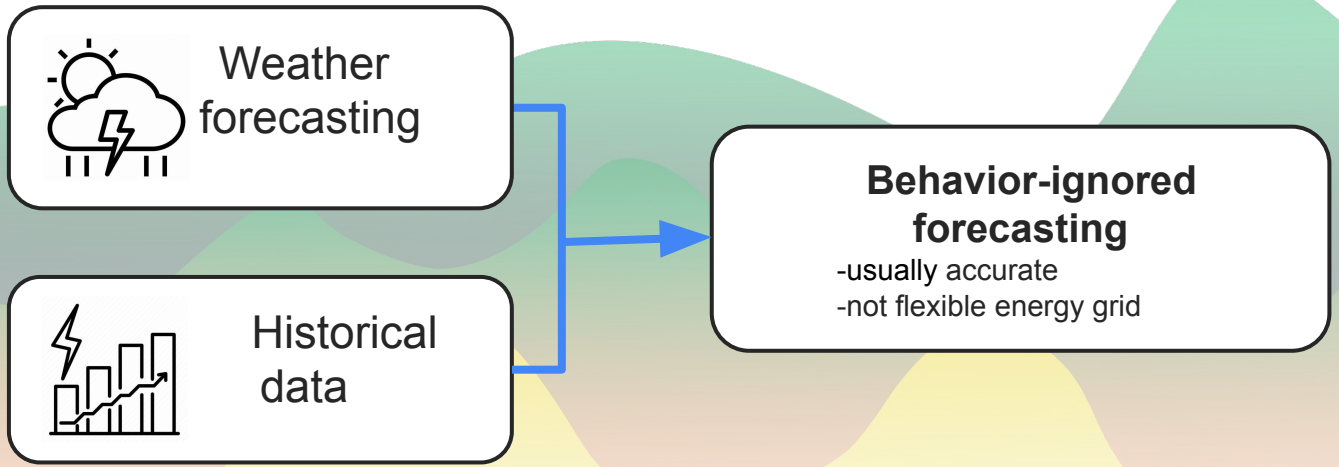
Present & Future

People behave stochastically

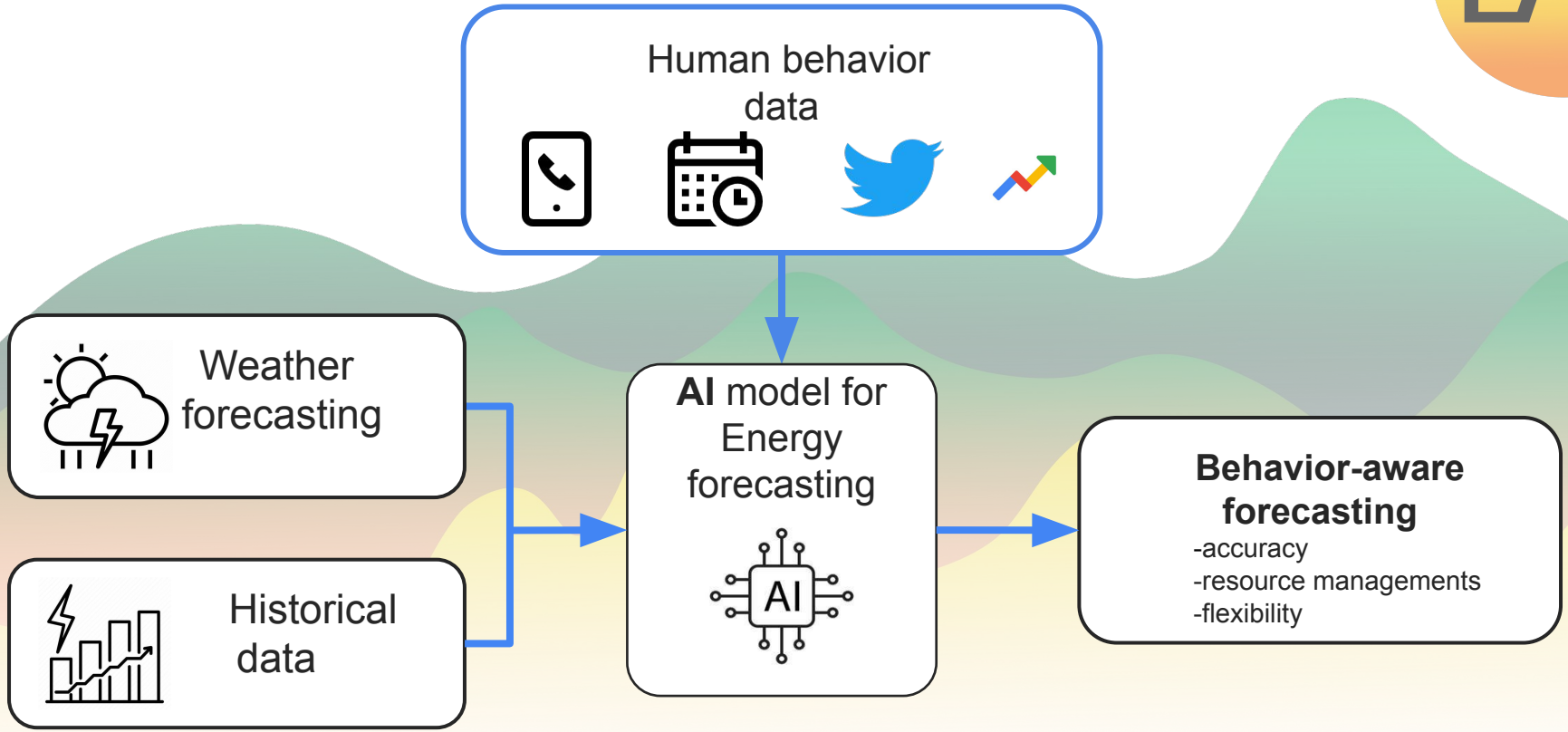


Inaccurate demand prediction

Story so far

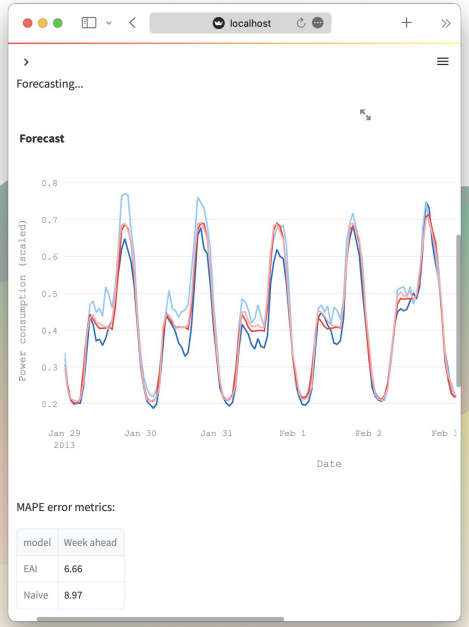

Weather forecasting
Historical data
Behavior-ignored forecasting
-usually accurate
-not flexible energy grid

EnergAIser


Human behavior data
Weather forecasting
Historical data
AI model for Energy forecasting
AI
Behavior-aware forecasting
-accuracy
-resource managements
-flexibility

Our Solution

Our Product



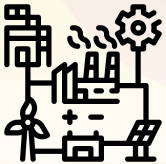
Forecasting

- Peak loading
- Day/week-ahead
- Districts wise demand

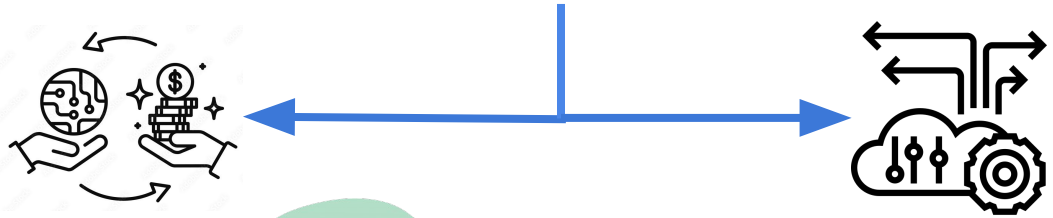
Value proposition

- Resilient grid
- Reduced energy loss
- Integration of renewables and DERs (prosumers)

Contribute to net-zero and sustainable energy



Windows of opportunity



Cost benefit

Money equivalent of increased accuracy of forecast

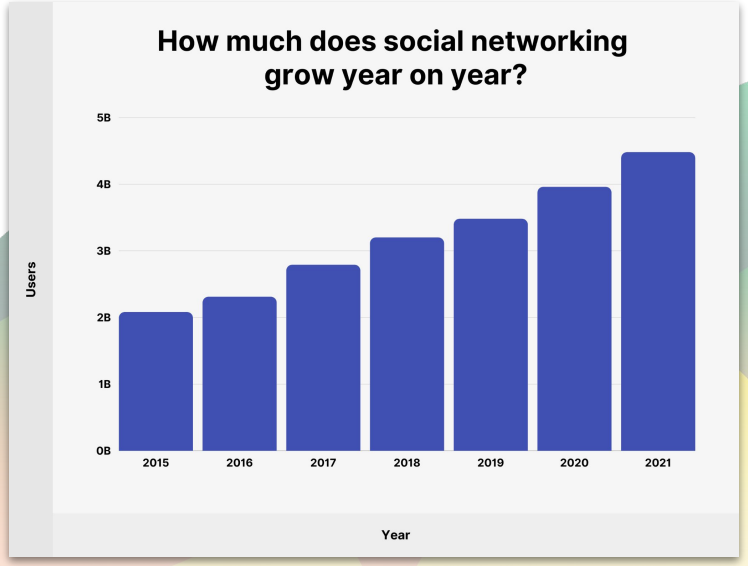
~$100-500 per week per substation (~10000 substations in a major city)

Flexibility management

- Grid operators
- Utilities
- Facility management
- Prosumers

Efficient interaction with the demand side
Trigger energy production (renewables)

Trends in Market



People behaviour data

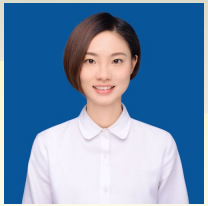
Smart meter data

EnergAIser team

Team leader
Sergei Bykov
Astrophysicist

Armin Nabizadeh
Astrophysicist

Elvira Khromykh
BIM expert



Dannie Sheng
Data Scientist

Deepti Yadav
Data Scientist

Patrick Fu
Urban Data Scientist

DEMO
By Patrick

Backup

Market Status & opportunities

Key Metrics : money equivalent of increased accuracy of our solutions (forecasts).

MONEY PROFIT(compared with old models)

$769 (y/home)*300(homes)*0.1(error reduction)~

~$450 per week per substation

$280 mil per city per year (London)

WINDOW OF OPPORTUNITY FOR FLEXIBILITY MANAGEMENT

- Grid operators
- Utilities
- Facility management
- Prosumers

Efficient interaction with the demand side
Trigger energy production (e.g. from renewables)

FINANCIAL INVESTMENTS

Data: **$20k/year**

Research and development: ~3-4 person years

Software: ~2-3 person years

Business model

Key Partners

Grid operators

Prosumers (Passive partners)

Data aggregators

Key Activities

Real-time data collection

Demand forecasting

Predictions to operators

Key Resources (cloud, servers etc)
already available with siemens

Value Proposition

Net zero contribution from prosumers

Reduced Carbon Emission

Grid flexibility and Stability

Electricity cost reduction up to 30%

Reduction of energy waste by clients

Customer Relationships

Co-creation

Channels
Digital

Customer segments

Grid operators

Energy producers??

Cost Structure

Data: **$20k/year**

Research and development: ~3-4 person years

Software: ~2-3 person years

Revenue Stream

License as per need

UN sustainability goals