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H2 Market Meetup – Arctic Hydrogen Corridor & Green Digital.

$$r = \frac{\sum(X_i - X^-)2\sum(Y_i - Y^-)}{\sqrt{\sum(X_i - X^-)(Y_i - Y^-)}}$$
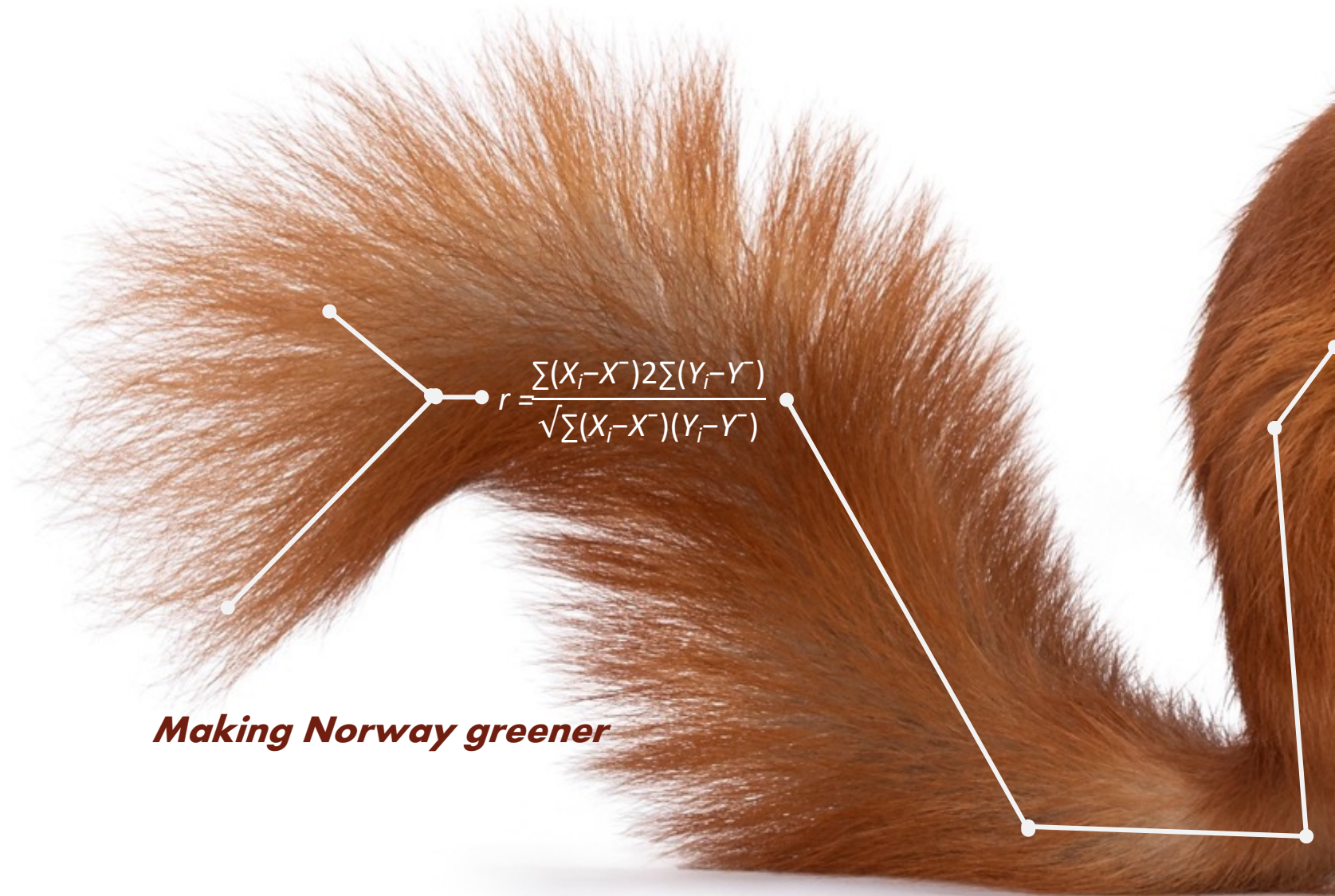
Making Norway greener

Who are we?

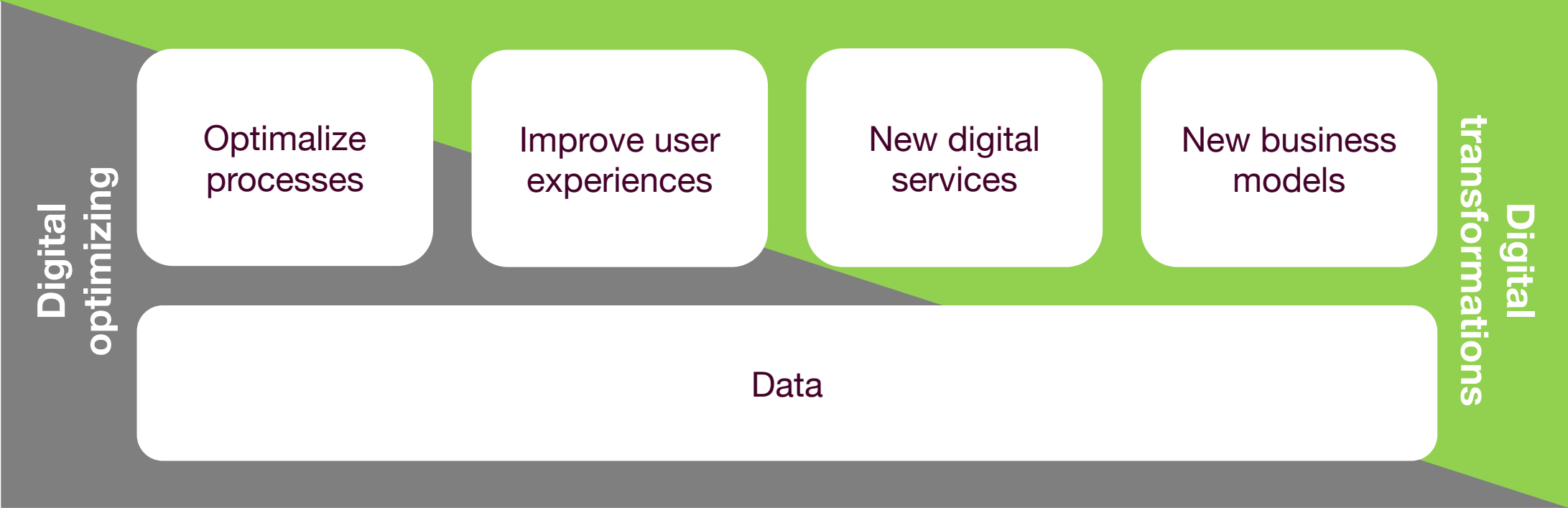Problem solvers

Mathematics & business

4-6 & 20 yr experience

Modern tech, data science & bus dev

Best practice cloud Microsoft, Google, etc.
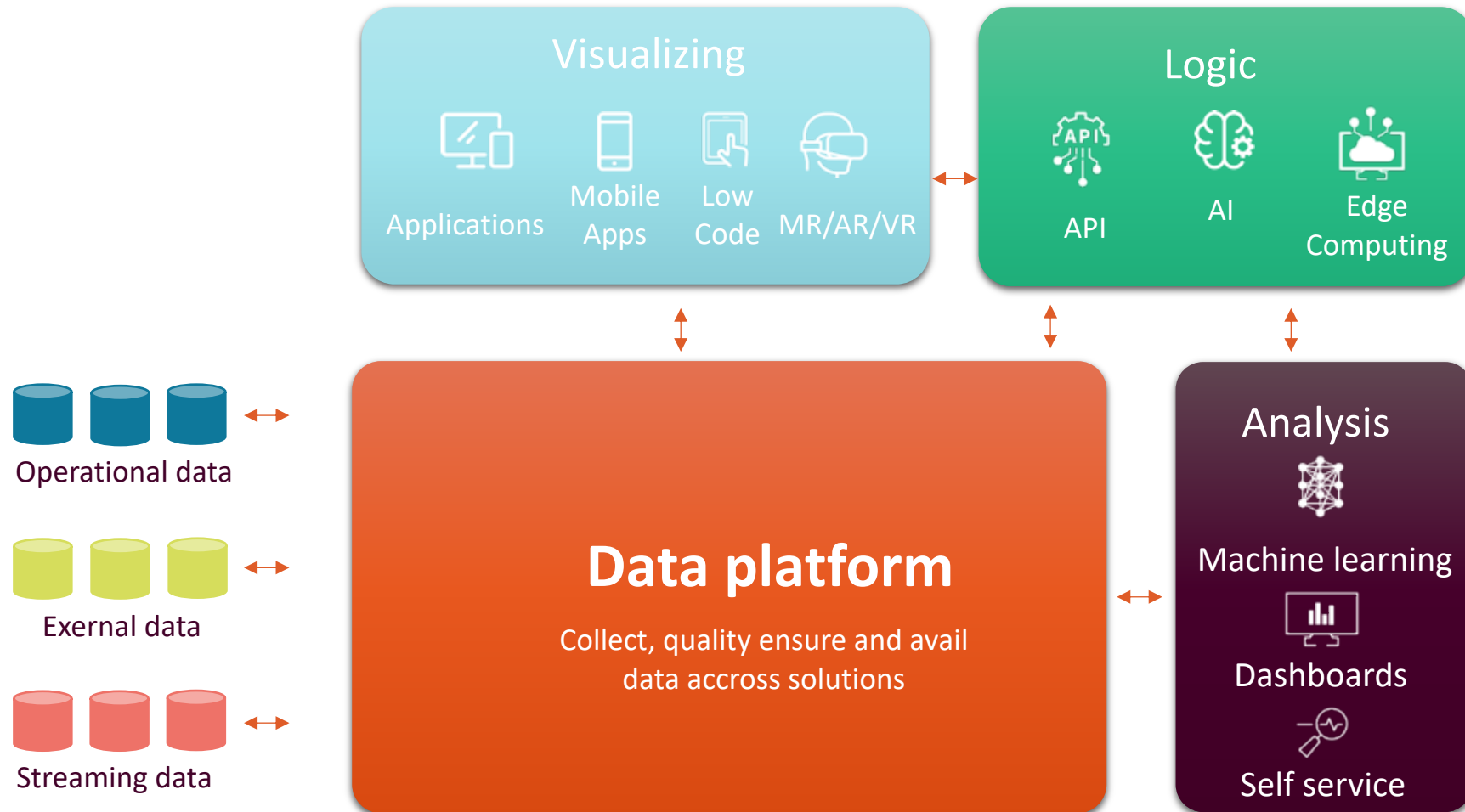
Staff owned

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Data is the basis for bus dev

Digital optimizing

Optimalize processes

Improve user experiences

New digital services

New business models

Digital transformations

Data

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Our deliverables

Data Science

Project-mgt

Consulting

Analysis & data platforms

System-development

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Modern data platform

Manage & transform data from many sources in «lakes» og «ponds»

Visualizing

Applications

Mobile Apps

Low Code

MR/AR/VR

Logic

API

AI

Edge Computing

Operational data

Exernal data

Streaming data

Data platform

Collect, quality ensure and avail data accross solutions

Analysis

Machine learning

Dashboards

Self service

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Some of our clients

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Some relevant cases

PIXII

AI to predict price for balancing power in southern Sweden

Trading robot

DNV

Standardizing of sensor data for ocean vind turbines

Sensor data for monitoring & analysis for maintenance

eyvi

Modelling/digital twins of land based fish farming

Planning, monitoring and optimising of fish farming

Developing of commersial SAAS-solution

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Renewable energy

- H2 market changed
- Increased market complexity
- AI driven business practices
- Opportunities!

Wind and solar energy

rarely allign with demmand
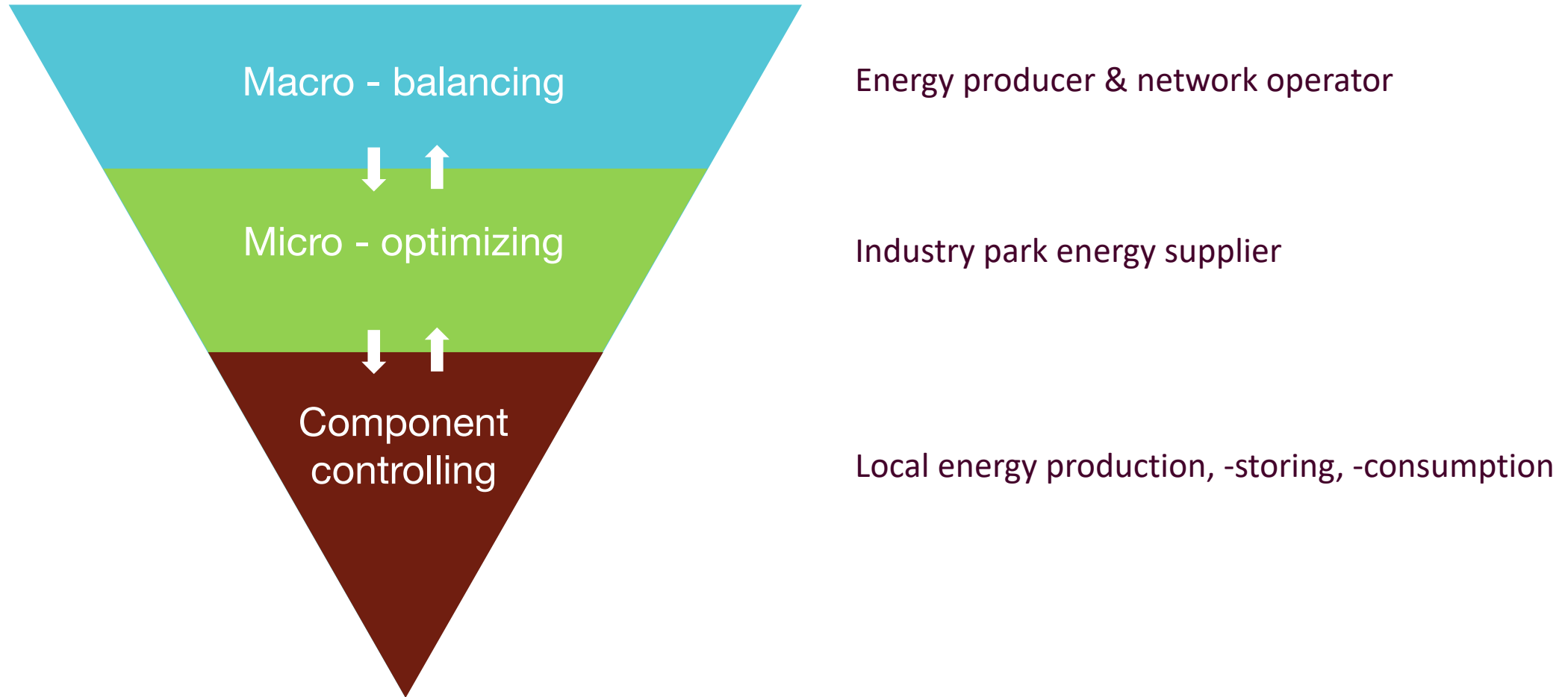
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New hydrogen opportunities

- Balancing

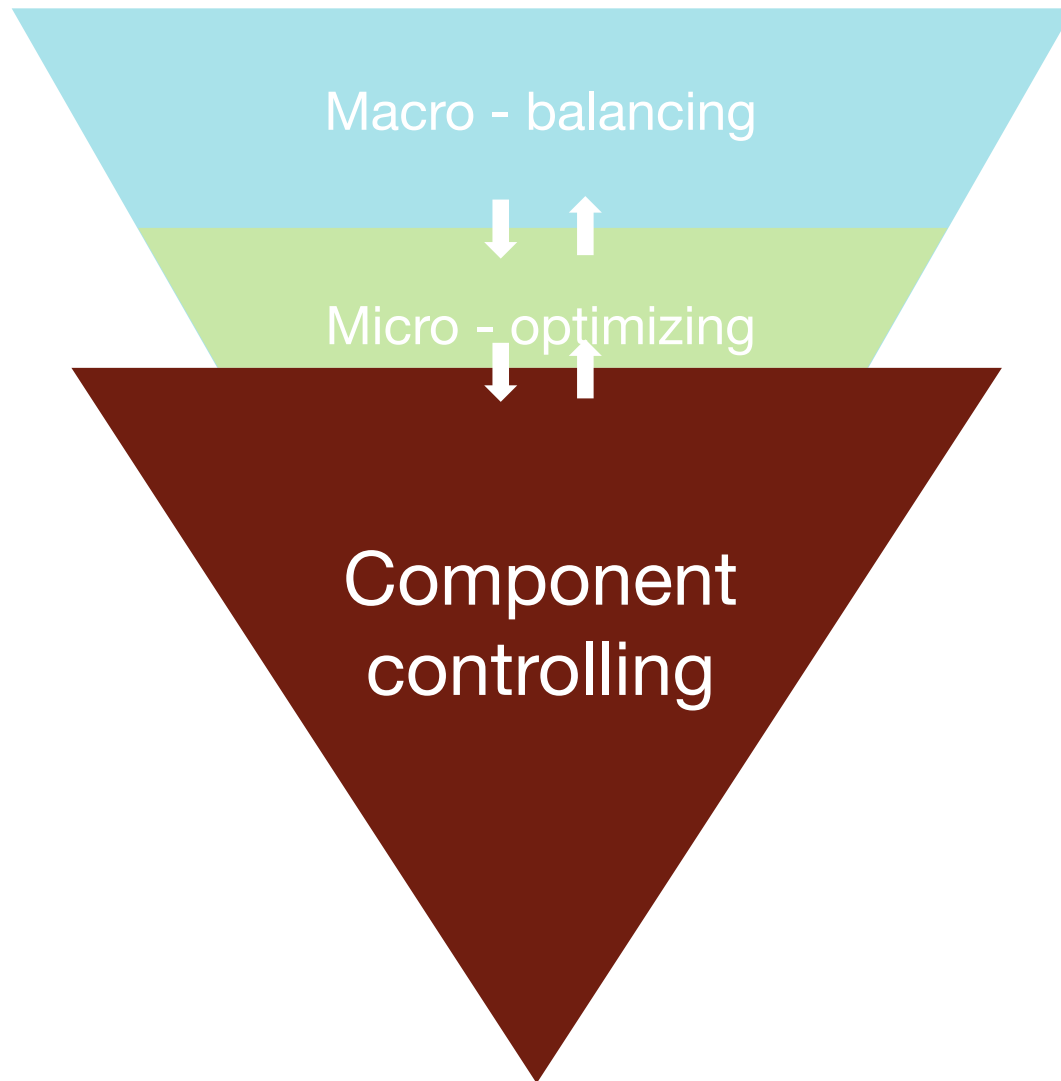- Storable and transportable energy

- Exploit low prices

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Data driven opportunity

- Monitoring
- Analyzing
- Optimizing
- Predicting
- Reacting

Energy management framework

Macro - balancing	Energy producer & network operator
Micro - optimizing	Industry park energy supplier
Component controlling	Local energy production, -storing, -consumption

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Energy management framework

Macro - balancing

Micro - optimizing

Component controlling
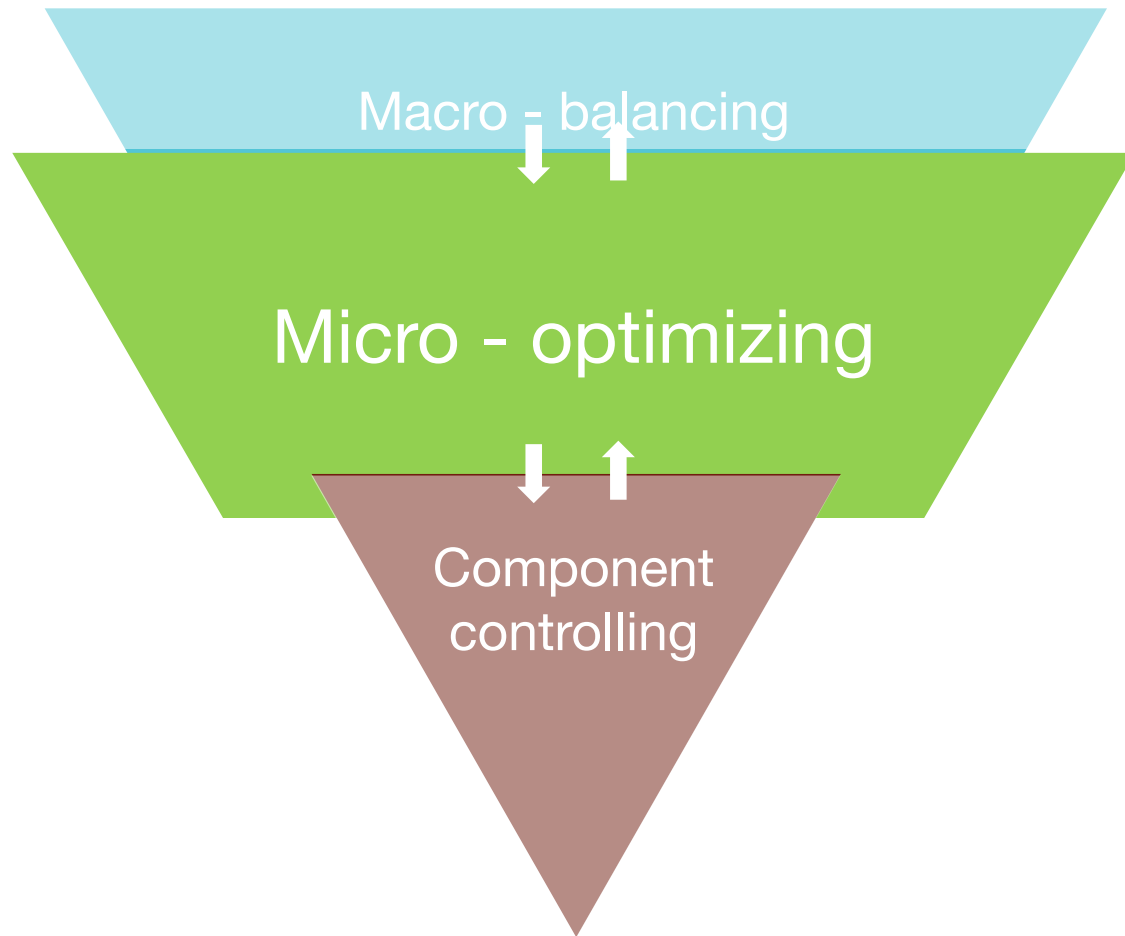
- Monitoring load

- Operational stability

- Intelligent maintenance

- Optimaizing production/storage using AI predictions

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# Energy management framework

Macro - balancing

Micro - optimizing

Component controlling

Prevent network overload

- Monitoring energy consumption bottle-necks

- Energy management

  - Consumption characteristcs

  - Power storage reserve

  - Automated control & production

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Energy management framework

Macro - balancing

Micro - optimizing

Component controlling
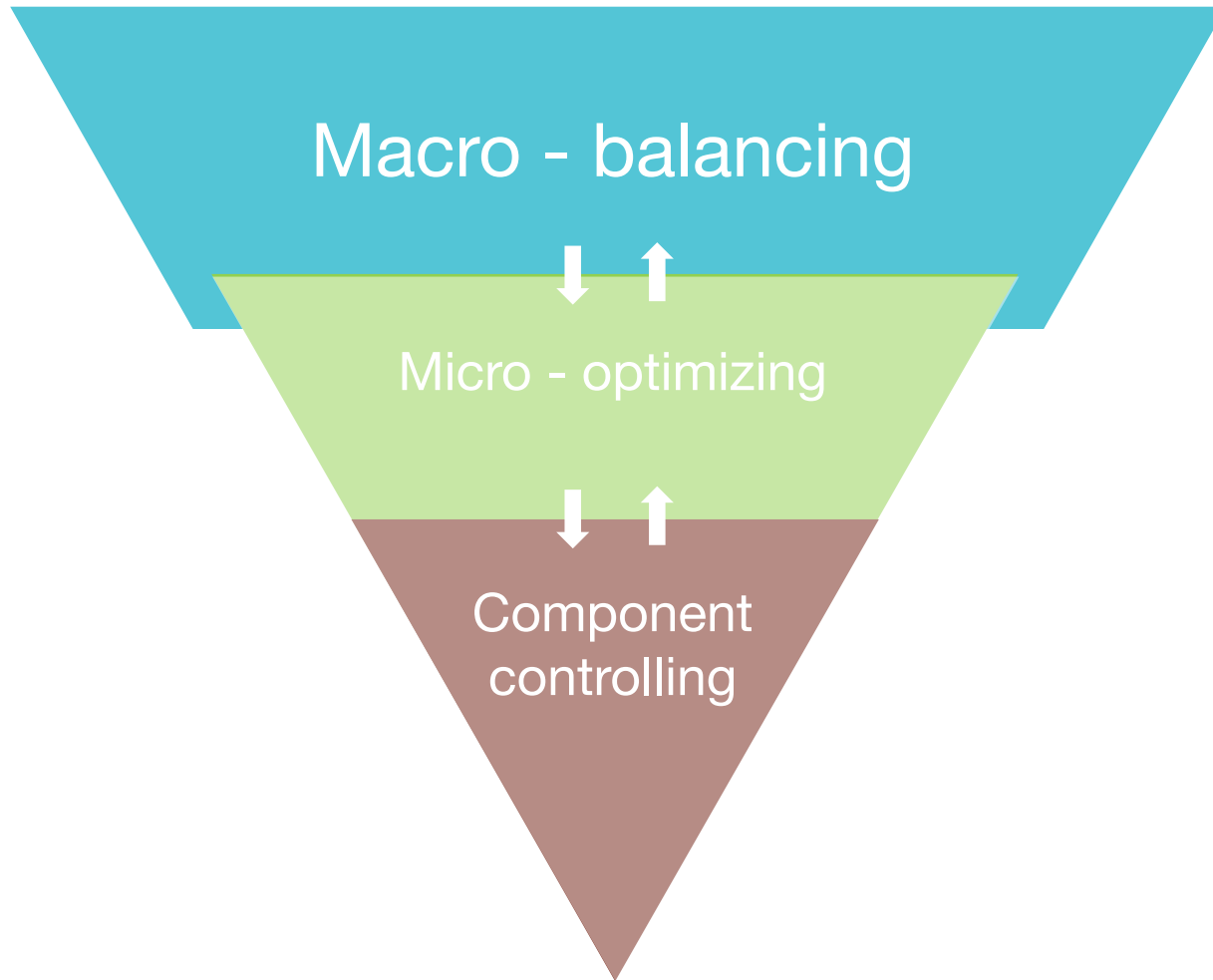
- Modelling of production- & storage characteristics
- Scenario analysis
- Balancing of production, sales & storage

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Kontakt oss!

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