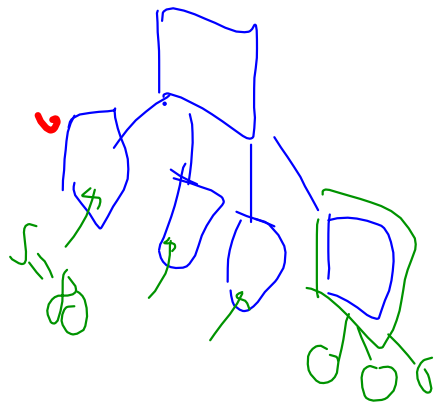


# Project

Tool: S, P <sup>System analysis</sup>  
Multi-Metrics Analysis

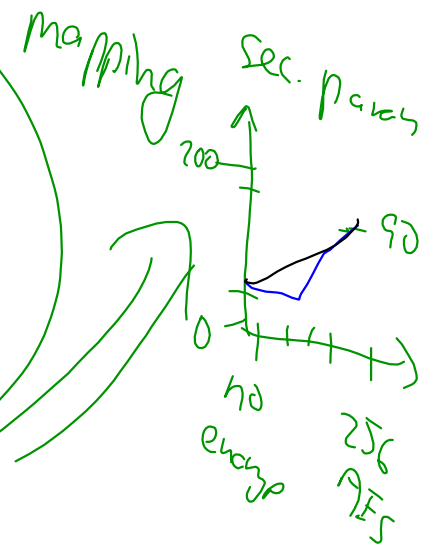
- System
- Sub system
  - Components
  - Configuration



Service  
func. requirem,  
non-funct. requirem

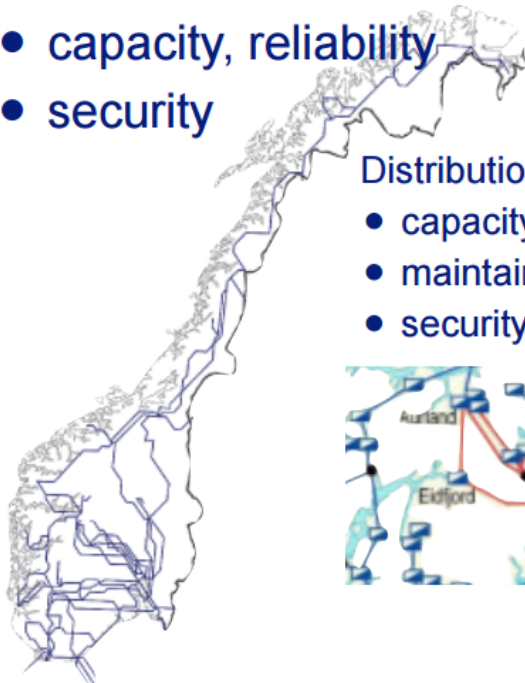
Sec, privacy requirements  
functionalities  
attributes

through Metrics



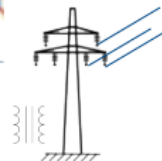
## Transmission Grid

- capacity, reliability
- security



## Distribution Grid

- capacity, QoS
- maintainability
- security



## Smart Grid Infrastructure

- smart meter
- security



## Smart Home

- privacy, security
- societal challenges



## Future infrastructure/ services

- digitisation/Home4.0
- alarm, "green"



- Smart House/Building

- ➔ Power distribution

- proactive maintenance
    - reliability

- ➔ Meter infrastructure

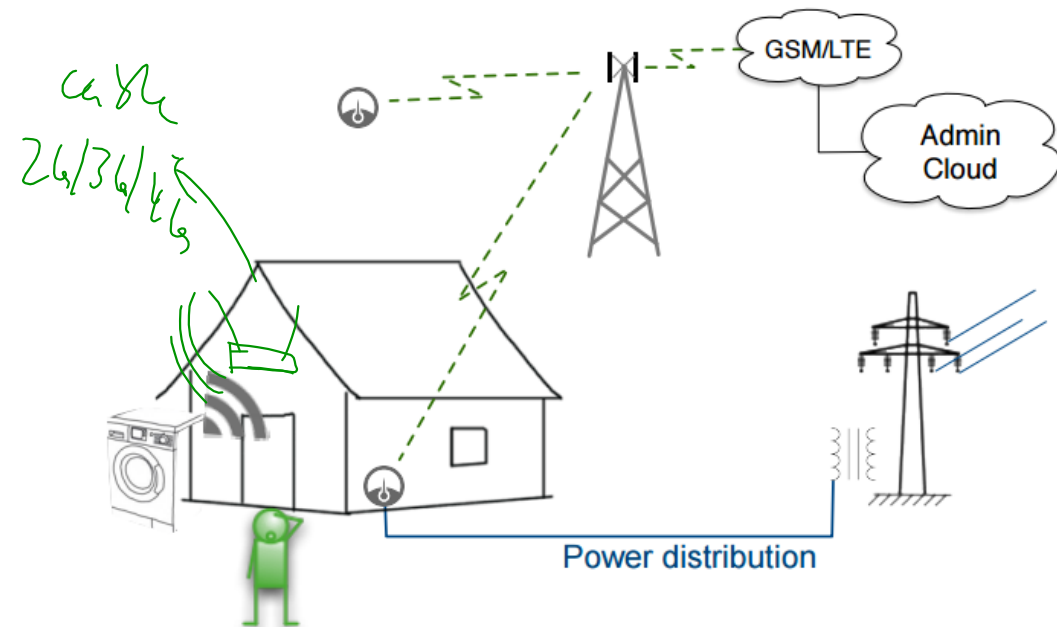
- Automatic Meter
    - Collector
    - Admin Cloud

- ➔ House infrastructure

- Hot-water, Heating
    - White goods

- Novel services

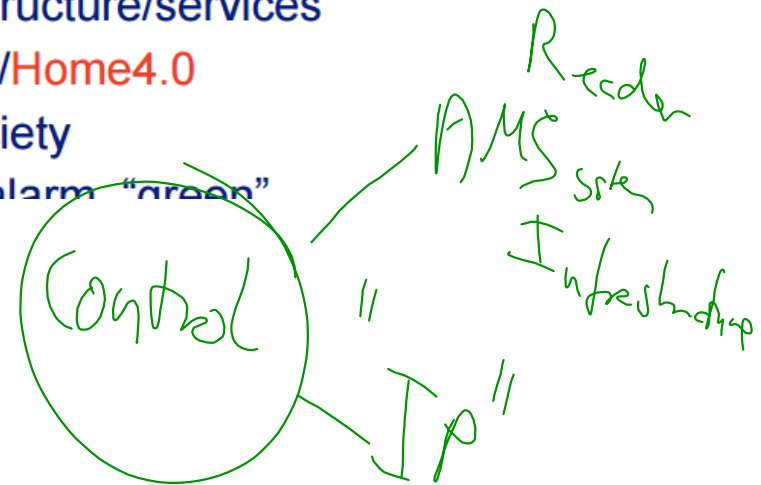
- ➔ energy saving
  - ➔ alarm
  - ➔ virtual fall sensor



### Future infrastructure/services

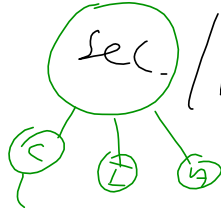
- digitisation/Home4.0
- Digital Society
- Services: alarm "green"

Warm water  
heating  
for charging



1. Select (sub-) system  
team 2-3 people

2. identify sec./privacy



3. Metrics

4. Perform Multi-Metrics analysis (x(s))

5. Comparison to application goal

outcome

S<sub>1</sub>P

system

vs S<sub>1</sub>P

— billing

— control

Cool  
application

heat-pump

Reader (NMR)

attrib.

functionalities — encryption

