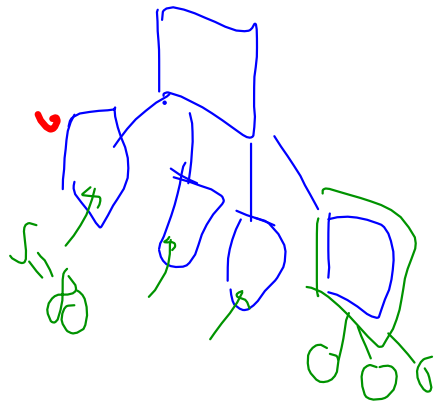


Project

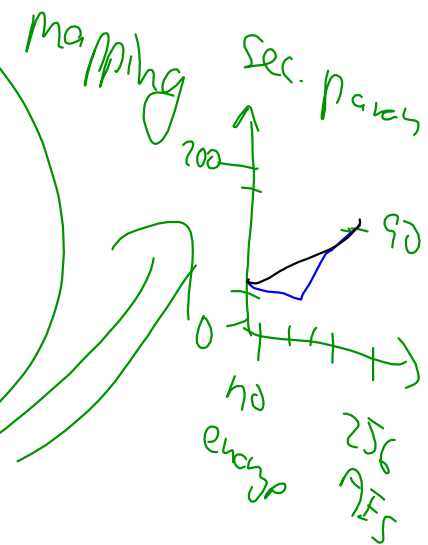
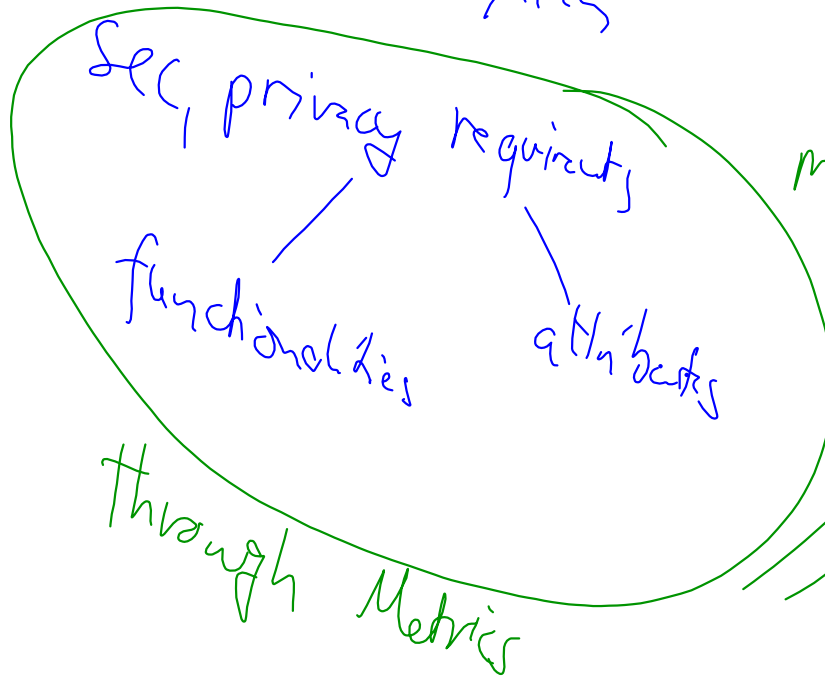
Tool: S, P System analysis
Multi-Metrics Analysis

System

- Sub systems
- Components
- Configuration

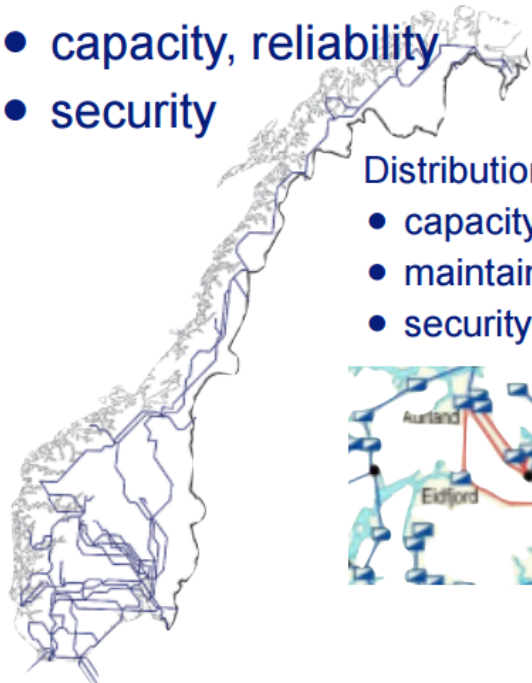


Service
 func. requirements,
 non-funct. requirements



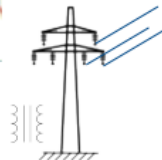
Transmission Grid

- capacity, reliability
- security



Distribution Grid

- capacity, QoS
- maintainability
- security



Smart Grid Infrastructure

- smart meter
- security



Smart Home

- privacy, security
- societal challenges



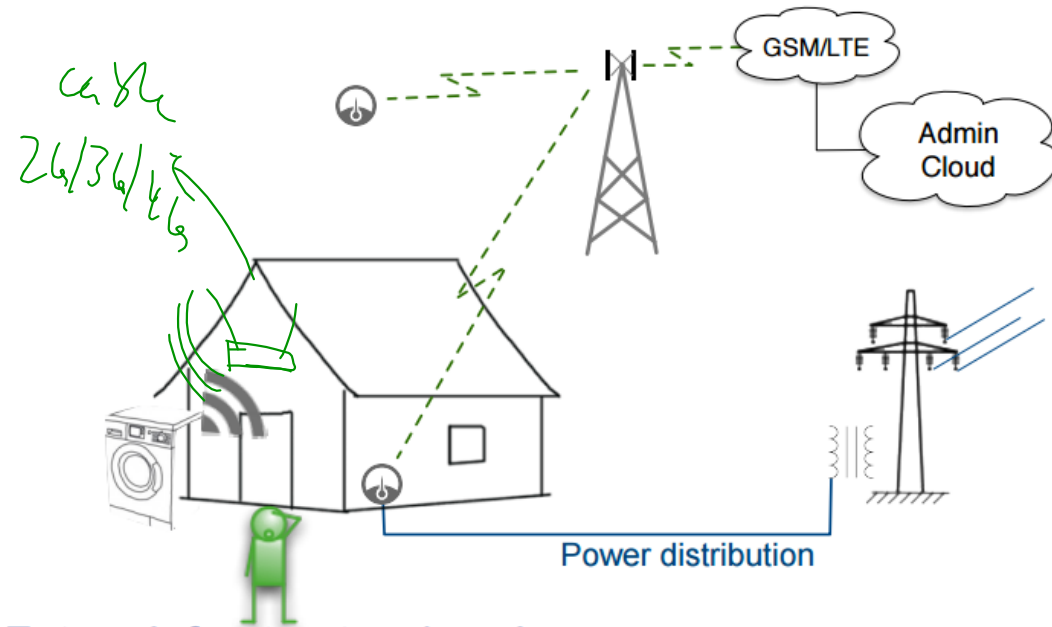
Future infrastructure/ services

- 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



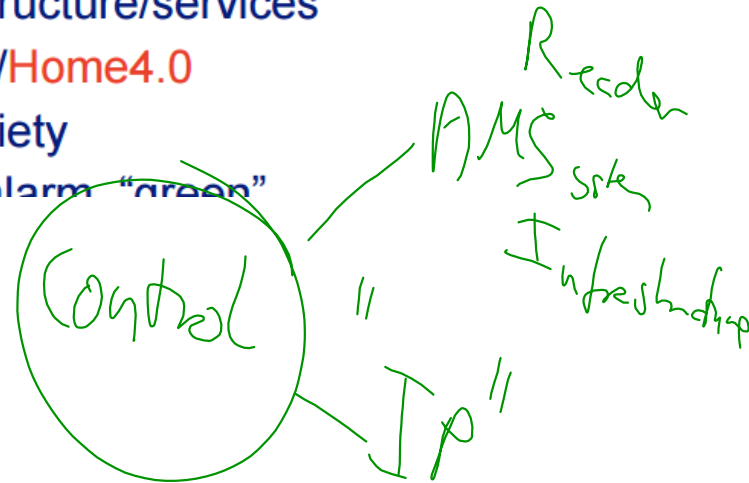
● Novel services

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

Future infrastructure/services

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

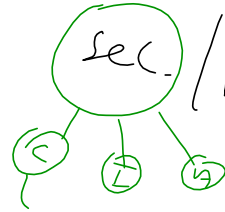
Warm water heating for charging



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

Reader (AMR)

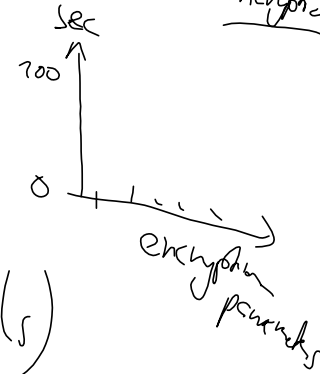
2. identify sec./privacy



attrib.

functionalities — encryption

3. Metrics



4. Perform Multi-Metrics analysis (-+(-))

5. Comparison to application goal

outcome

S₁P

system

vs S₁P

Cool application

— billing

— control

heat-pump

