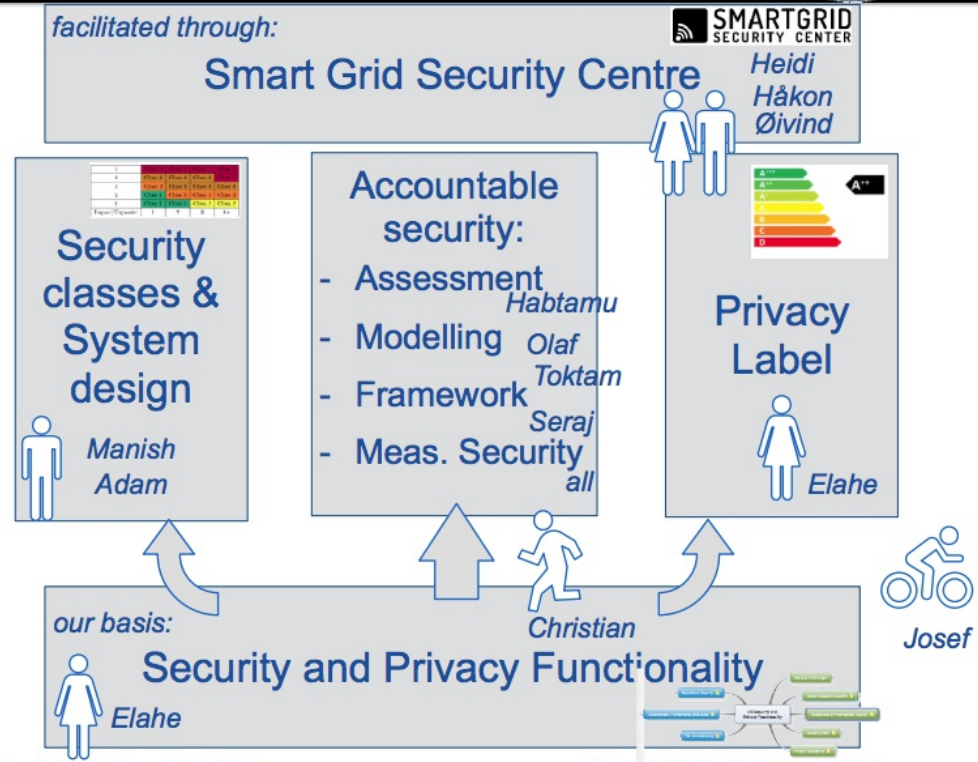


- Goal
- Provide the means for IoT security
 - ➔ from today's attack to tomorrow's design
 - ➔ security thinking in organisations
- Trust in Things
 - ➔ Privacy label
- Smart Grid Security Centre



Which use case?

Home?

Heidi?
 Magnus?

- **Security Classes in IoT**

- Consequence
- Exposure

- **Consequence**

- as in risk map

- **Exposure**

- **Physical** exposure
 - people, building, physical ports,...
- **IT** exposure
 - ports, firewall, connectivity

- Used to assess the **security class** of Systems, sub-systems and components



New **postulate** of security class

Consequence				
5	Class 5	Class 5	Class 5	Class 5
4	Class 4	Class 4	Class 4	Class 5
3	Class 3	Class 3	Class 3	Class 4
2	Class 2	Class 3	Class 3	Class 3
1	Class 1	Class 1	Class 2	Class 2
Impact/Exposure	1	2	3	4+

F-Sense

Target

Security Class

5
2

Increase weak security:
- watchdog
- Attribute based access control (S-ABAC)

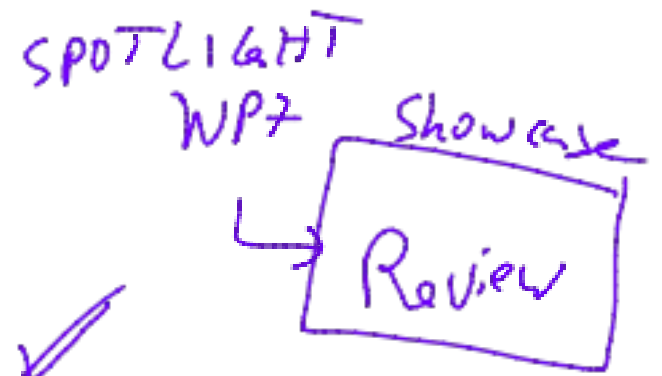
Exposure

Today

How ABAC
watchdog
increases sec?

Example

"story" S-ABAC WP21



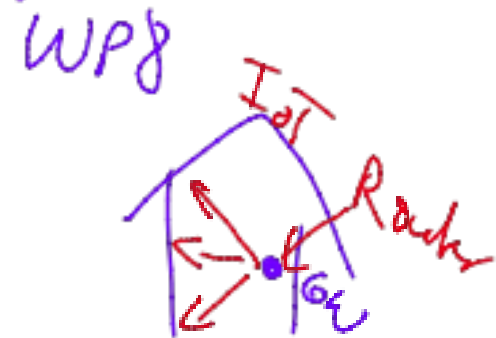
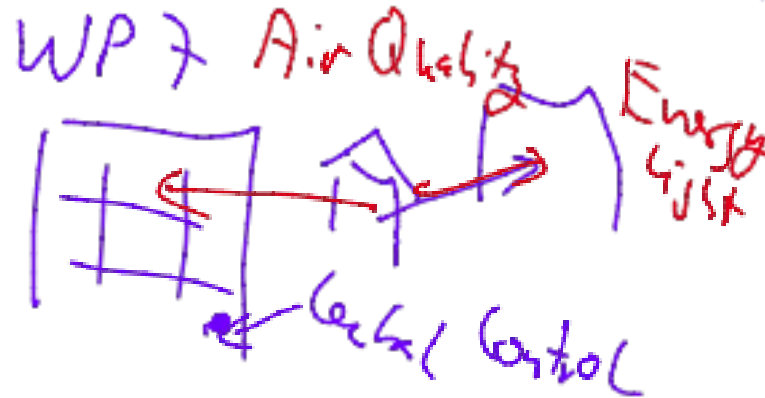
Christian, Tobias
WP7 Air Quality
Priv. Label
Meas. Sec.

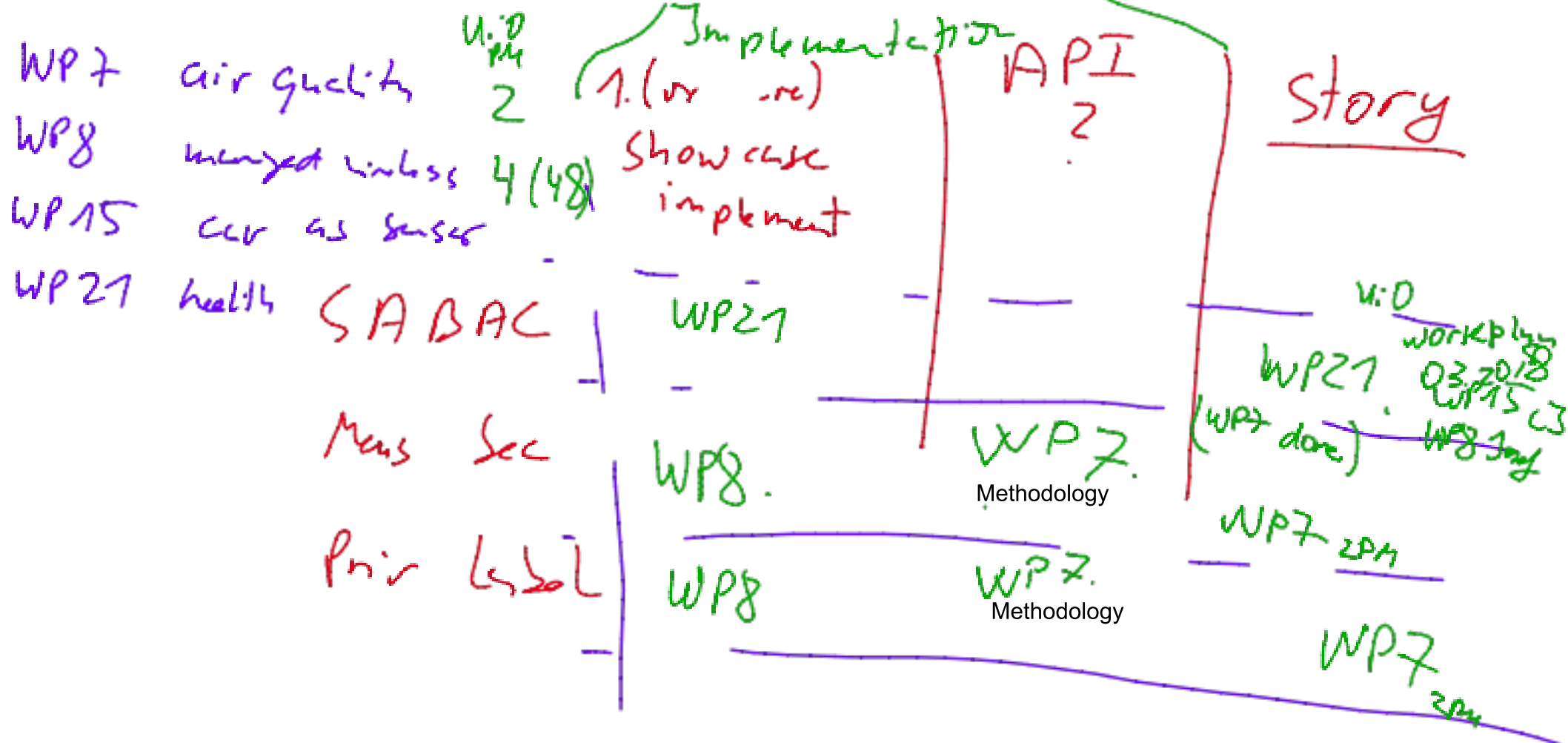
Cloud

Thank ✓
S-ABAC
Meas Security
Architecture

now things are clear and simpler than before.
Progress Report of our BBs:
SABAC: main: WP21, and WP 24, ... and some others like wp7
Privacy labeling: main: WP7 and WP26, ...
Measurable sec: main: WP7 and WP26, ...
Till now I did it for all related WPs and BBs (except for wp21's online meetings).
To prevent inconsistencies and mismatches, those of us that specifically work on a BB must report (in the meeting, wiki, ...)
Without imposing extra overhead and adding unnecessary nodes in communication

+ WP8 Mayhson & Josef





Functional architecture



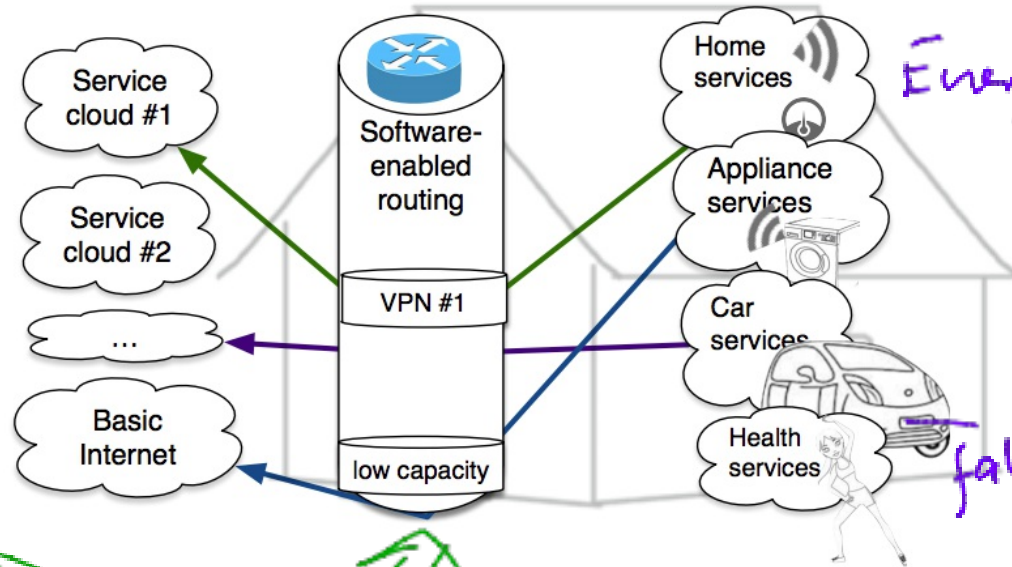
Rest
⋮

Home

WP & managed WiFi

Learn from Industrial Automation and Mobile Networks

- "What to secure?"
- Network segregation
→ Network slicing
- From Confidentiality, Integrity, Availability (CIA)
- to Availability, Integrity, Confidentiality (AIC)



Alarm
Energi
G
A
falling

Today: management & monitoring
Tomorrow: IoT new req. Sellers