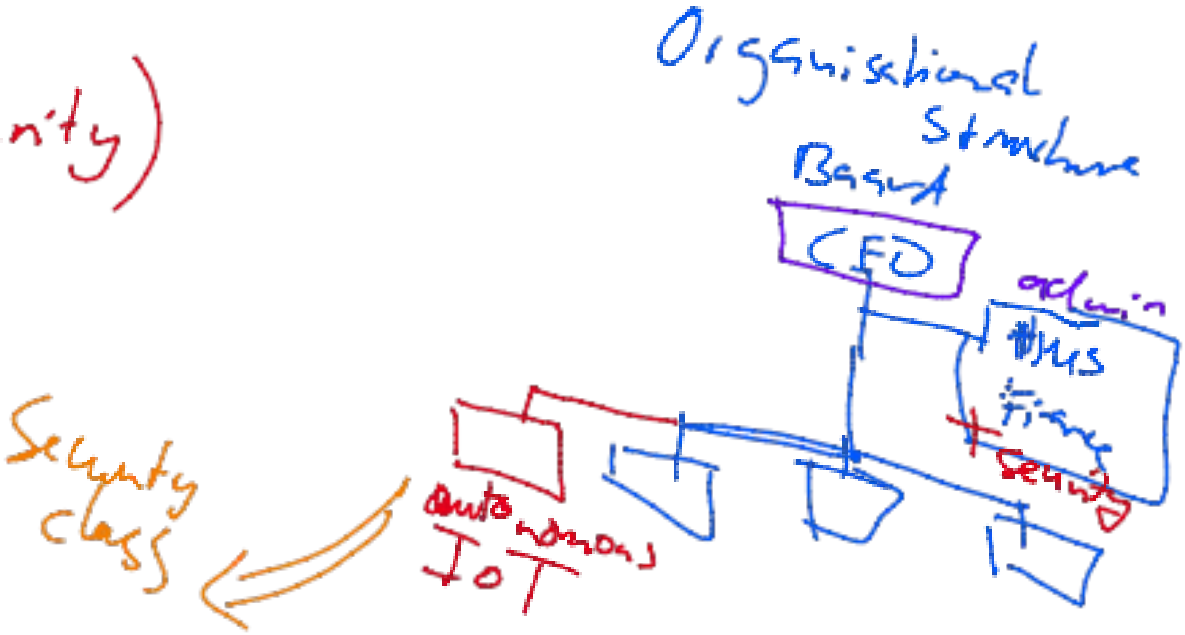
HMS : Environmental Health and Safety

IoTSec

↖ Safety

+ Security
(IoT & IT Security)
+ access rights



1. Risk analysis
2. Sec. Classification

1) Target class

sec. class

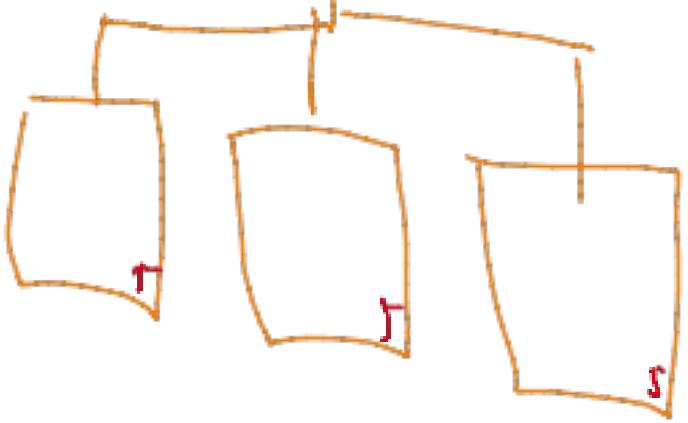
IoT System

Class 5

↳ bus importance

↳ regulations

↳ terms of reference



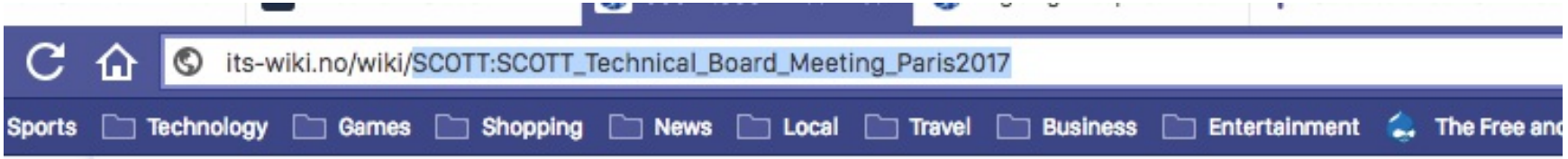
RFI

invite for Tender = RFQ

"Terms of reference"

2) System eval

final system class "3"



- the Building Blocks which are seen as additional value, but not implemented "yet"
- Building Blocks which are obsolete for the specific use case

The project main objectives (the approach)

- SCOTT project objective 1: Achievement of BB23.A
- SCOTT project objective 2: Achievement of BB23.B ·...
- SCOTT project objective 47: Achievement of BB26.J

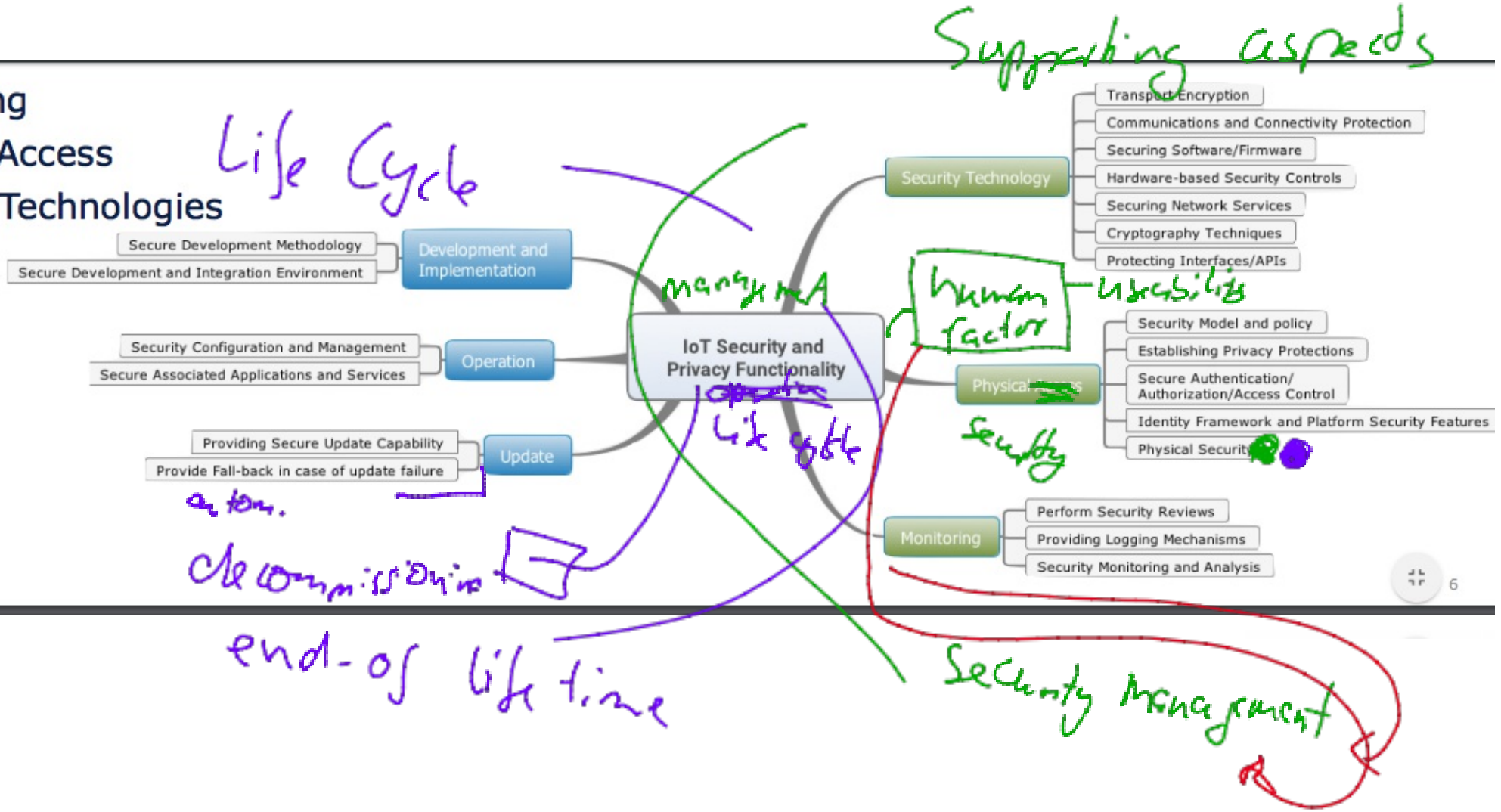
Presentations [edit]

- Presentation: Privacy Labelling, Security Metrics, Roadmap towards a more secure and privacy-a

Add a Presentation

	Presenter	Presentation File
Privacy Labelling, Security Metrics and Roadmap	Josef Noll	Click to Open

nitoring
ysical Access
curity Technologies



Sec Priv Func
life cycle

Sec Priv Func
Management


Dev. & Impl
Operation
update
end of life
security
human factors
physical/IT access
....

Digital Society

3 Apps

2 IoT — ports — firewall

upcoming

Virus — pattern signature / anomaly

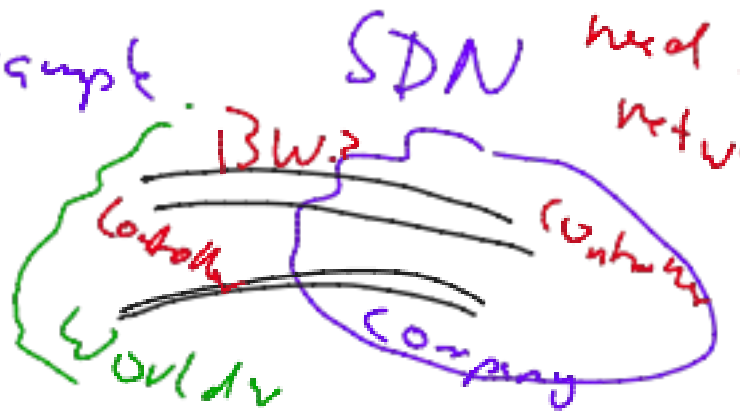
public (1) database (2) (3)

7 Wireless comm — signature — reporting — physical protection

UWB

EM shield

Example SDN



need more network

#WiFi4EU

A

0% Free Information for all

30% App (FON.com)

90% Norsk ID — EDUROAM + FEIDE

© Josef Noll

5G

Network slicing for Basic 4 ALL

- Orange

B

societal impact

H2020

5G

- MBroadband
- Tri: IoT
- reliable & ultra low latency

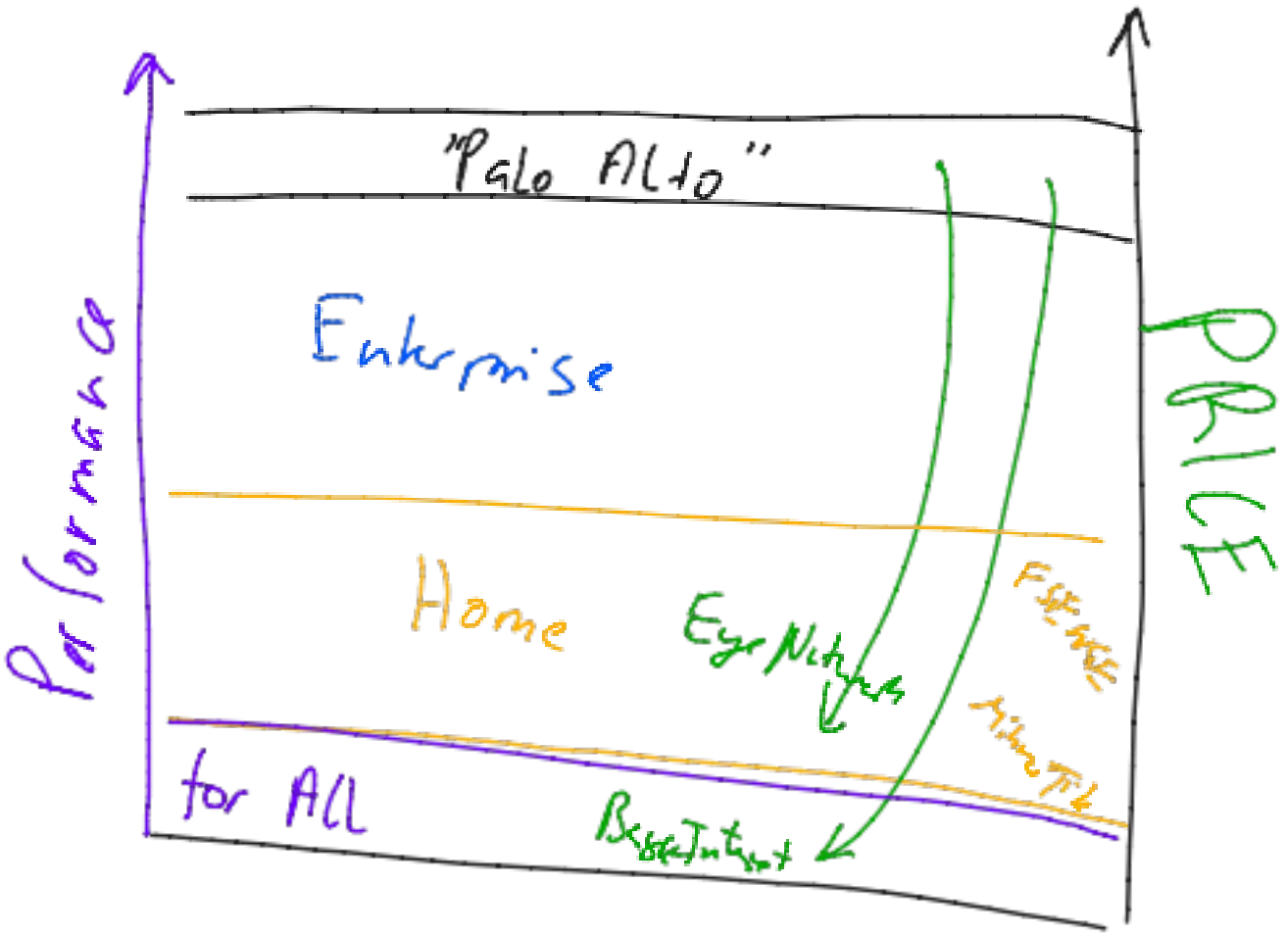
SR

Agenda 2030

SDG

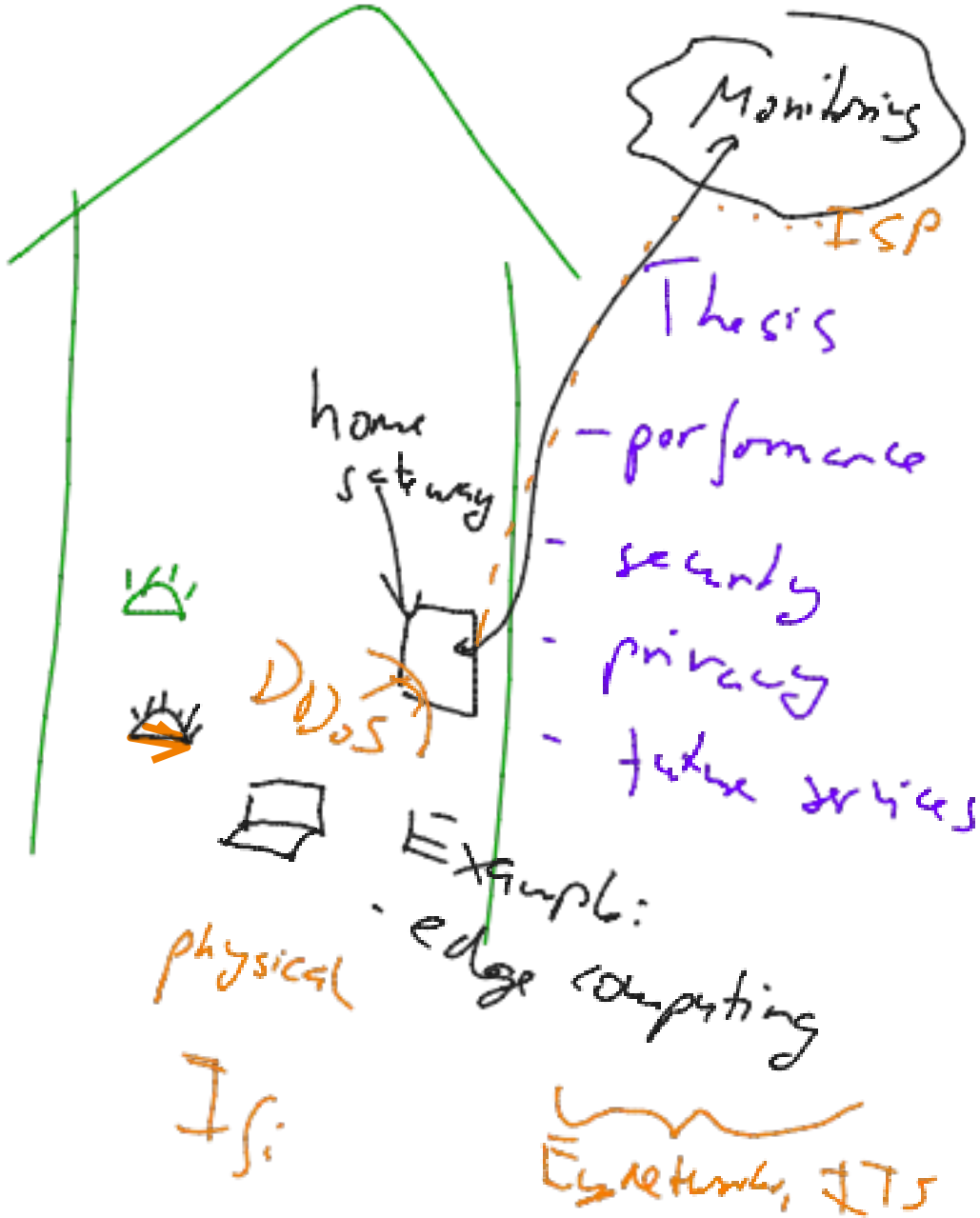
Sustainable Infrastructure

GW
- Wifi
- IoT



CPS Lab

- future home
- IoT
- Energy efficiency
  - el car
  - heat pump



Digital Society

- People
- Things
- Society ← sustainability

Norge

Paul Chelley (?) ← Digital

eSmart

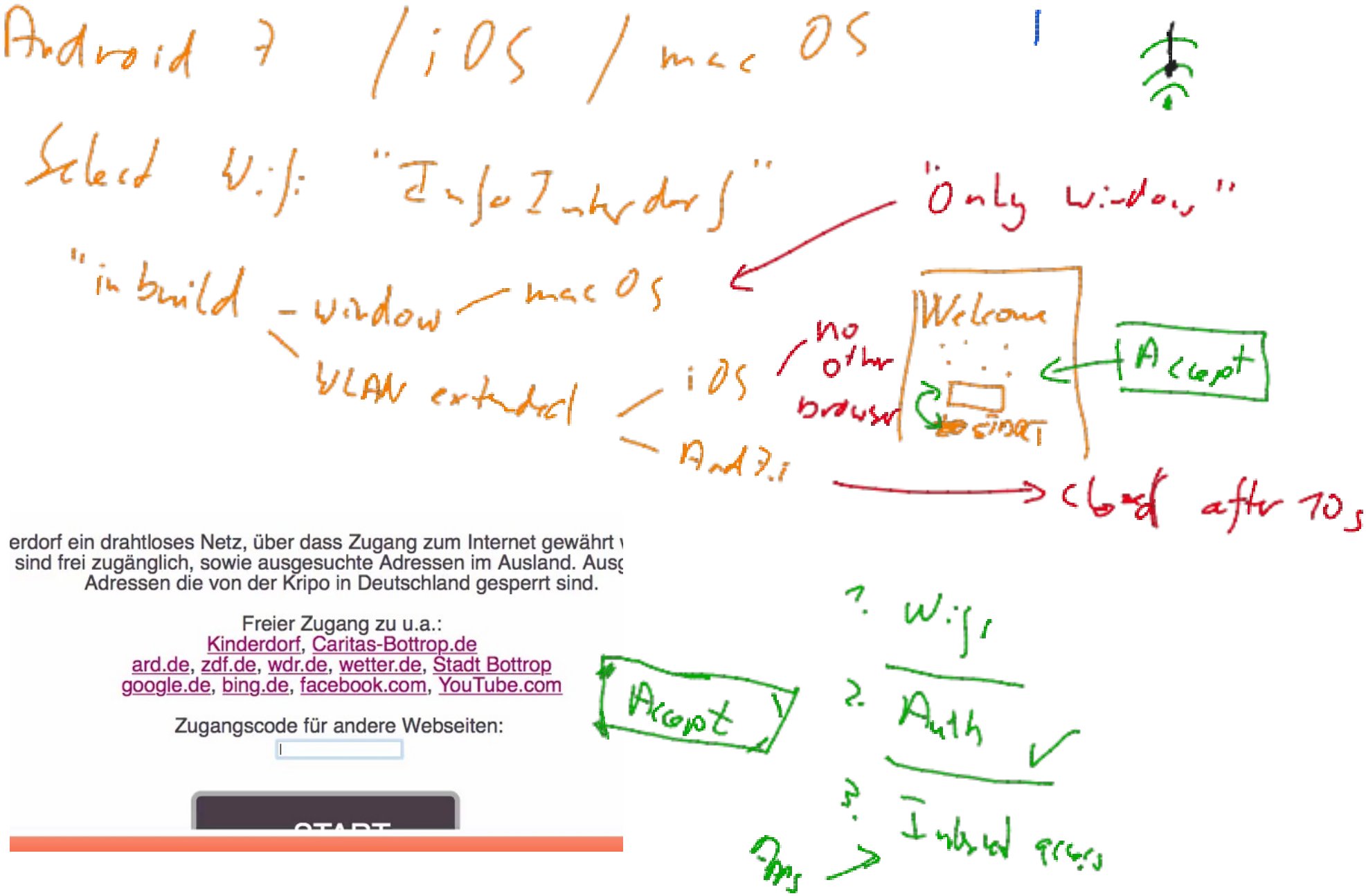
Bjarne

Digital Norway

Telenor

International

Digital


Android 7 / iOS / mac OS
Select W.-I.: "Internet"
"Only Window"
"in build - window - mac OS
VLAN extended / iOS
- And 7.1
no other browser
Welcome
Accept
closed after 10s
erdorf ein drahtloses Netz, über dass Zugang zum Internet gewährt
sind frei zugänglich, sowie ausgesuchte Adressen im Ausland. Aus
Adressen die von der Kripo in Deutschland gesperrt sind.
Freier Zugang zu u.a.:
Kinderdorf, Caritas-Bottrop.de
ard.de, zdf.de, wdr.de, wetter.de, Stadt Bottrop
google.de, bing.de, facebook.com, YouTube.com
Zugangscode für andere Webseiten:
START
Accept
1. W.-I.
2. Auth
3. Internet
2ms

SCOTT UiO importance

1) Meas Security
   - Security classes/levels (Manish)
   - Methodology
   - Framework

2) S-ABAC
   Domains
   - medical
   - home
   - IoT light access
   Example: use case
   SWRL implementation (Yiorgy)

3) Privacy Label

4) Managed Wireless IoT

IEC 63074
based on Security fund.
(Suraj)
Sudhir
Standards (NEK)

SCOTT

BB is shown in one key use case
└ optional other use case (API)

Meas. Security

Hclp ⇒ implementation

S-ABAC

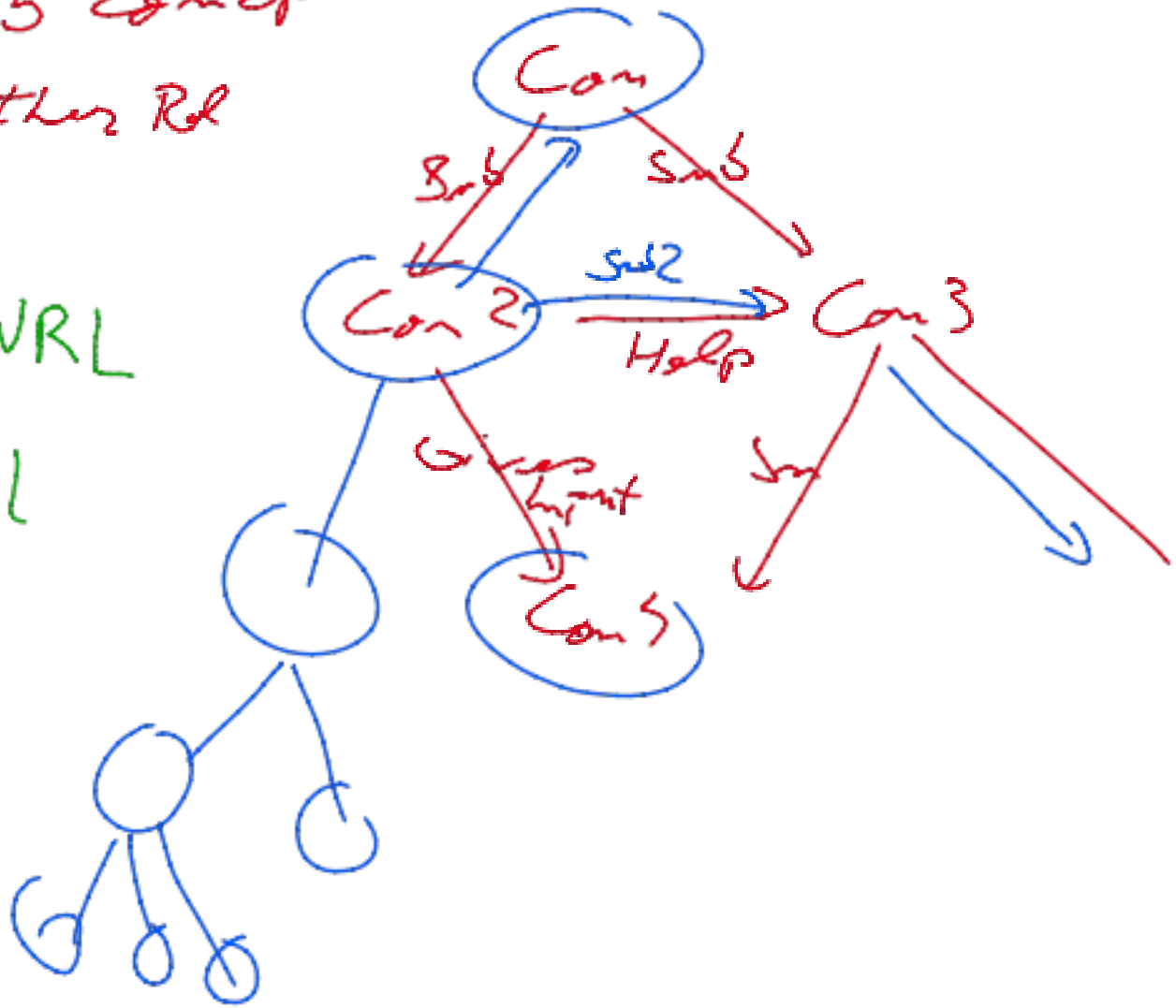
WP21 Medical
WP07 Air Quality
WP08 Manage Wireless
↳ more services

Ontology

- Rel
  - Sub concept
  - Other Rel
- Concepts

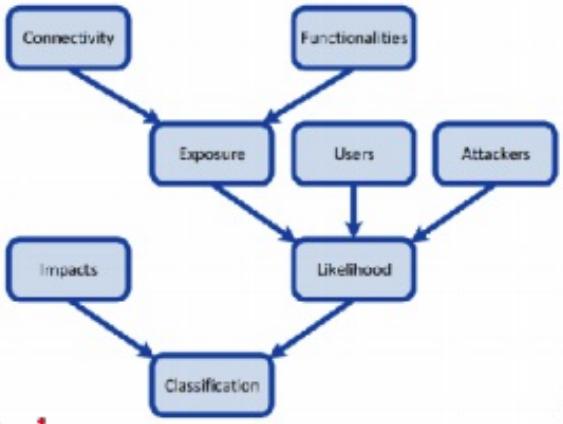
SWRL

SQWRL



MANISH PhD

- Security Classification/Levels
  - ↳ Exposure + Impact
  - ↳ Build on ANSI standard
  - ↳ CVSS calculator + Soc. Functionalities + Multi Metrics



NIST Calculator

ANSSI

- Redefine for Smart Grid

ELAHE PhD

① Survey Paper on Sec. Functionality
↳ Reading related Surveys

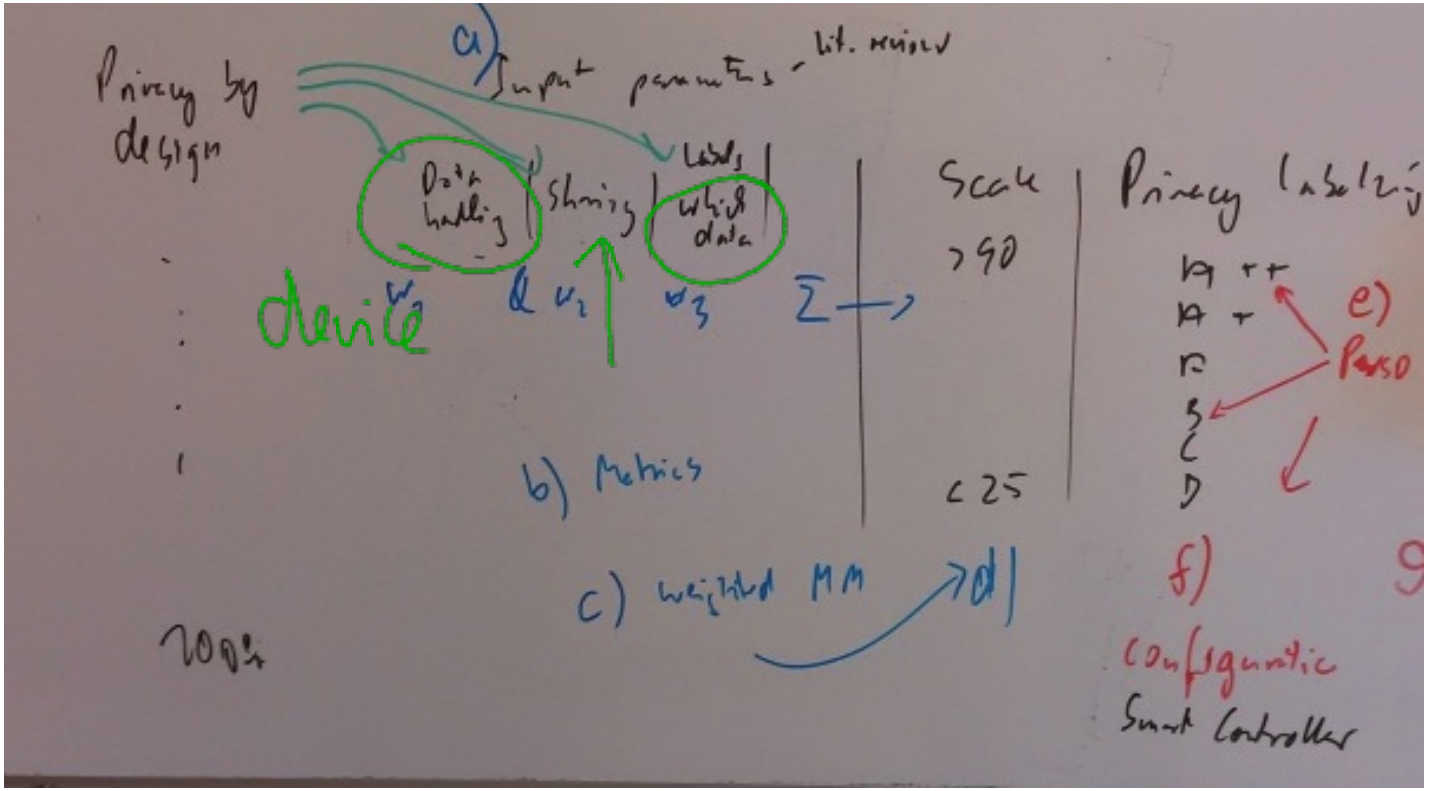
② Privacy Labeling ← principle/Methodology

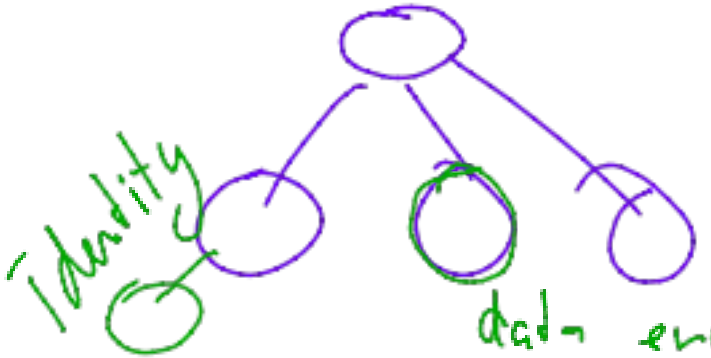
③ Case Study with Manish (contact Kamstrup from Jozef)
co-author

④ Privacy Cube (A, B, C, D...) mean services — devices

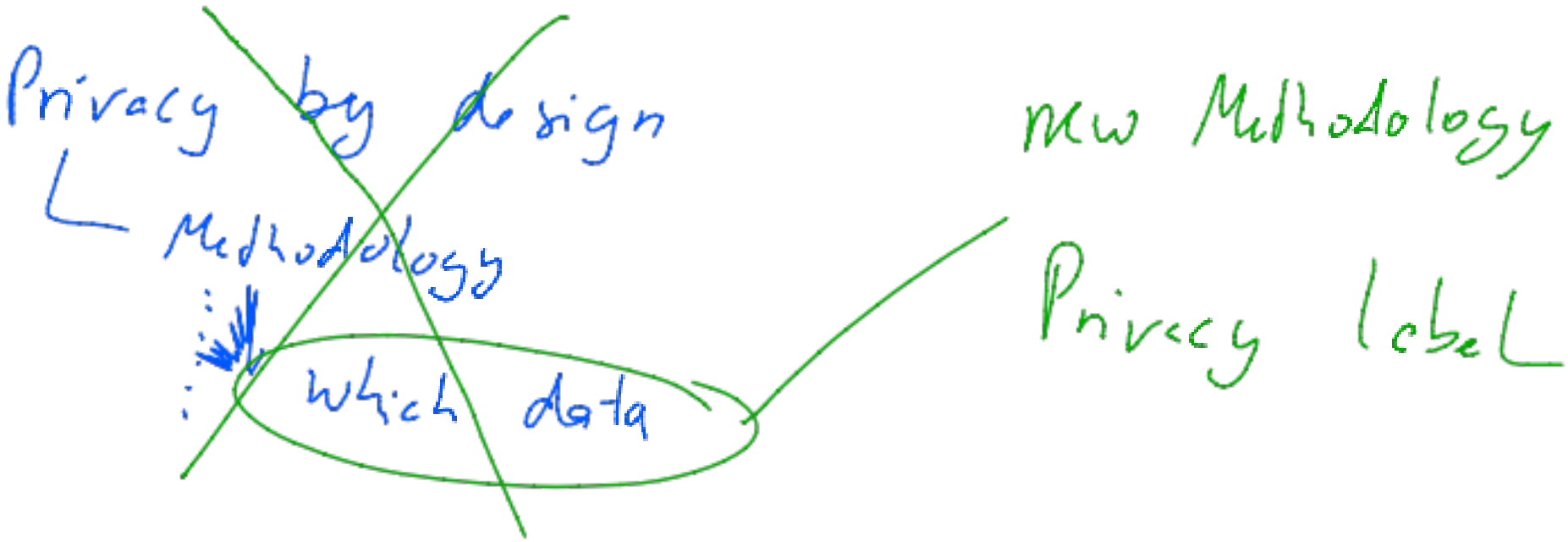
⑤ Apply PL to

Detailed plans for work





Sec. & Priv Functionality


Privacy by design
Methodology
which data
new Methodology
Privacy label