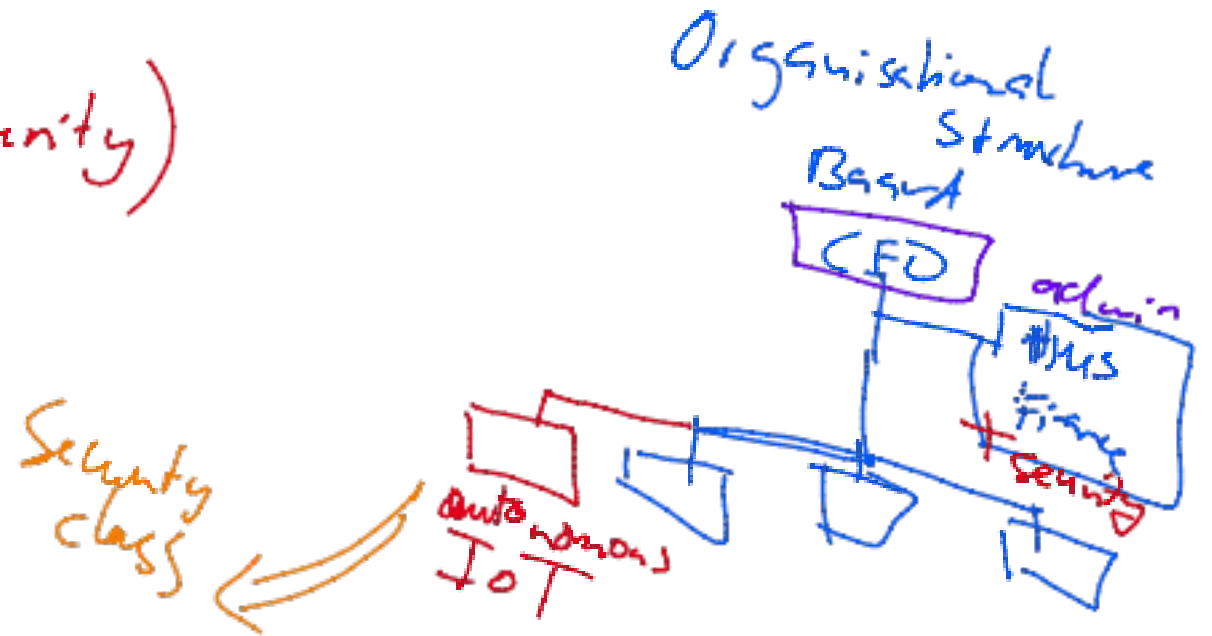


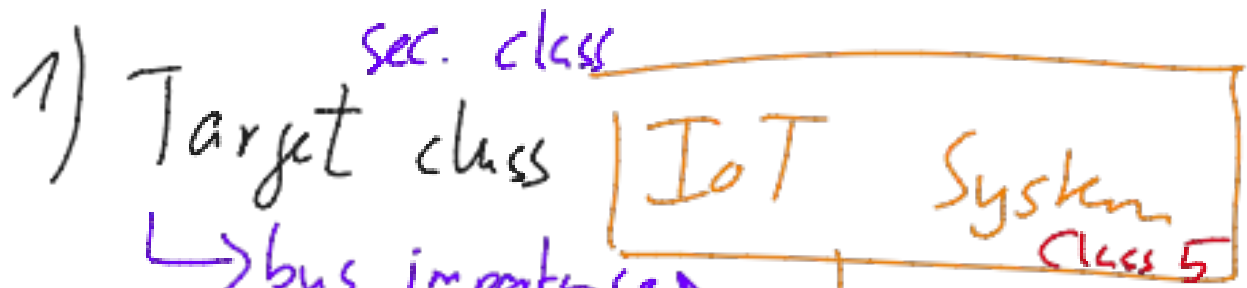
HMS = Environmental Health and Safety

IOTsec

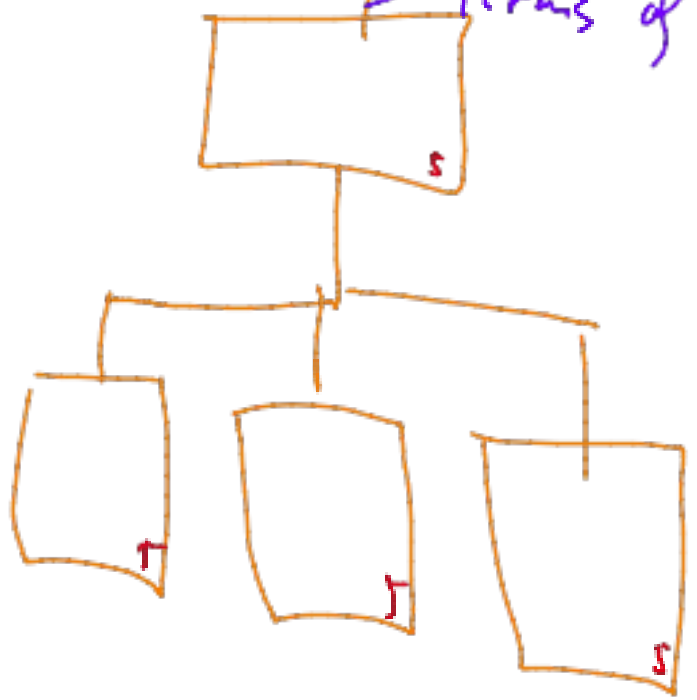
+ Security
(IoT & IT Security)
+ access rights



1. Risk analysis
2. Sec. Classification



2) System eval



RFI
 invite for Tender = RFQ
 "Terms of reference"

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-...

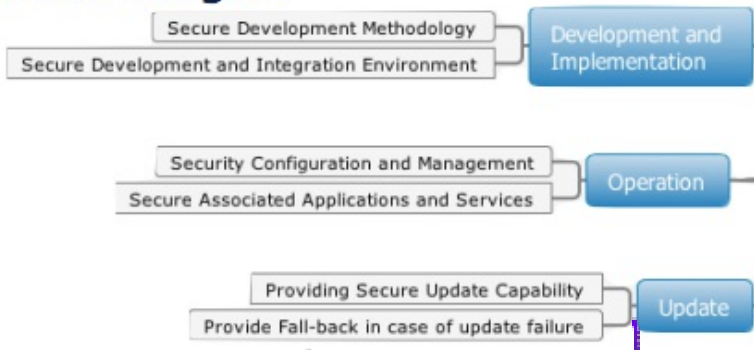
Add a Presentation

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

Monitoring
Physical Access
Security Technologies

Supporting aspects

Life Cycle



IoT Security and Privacy Functionality

Security Technology

- Transport Encryption
- Communications and Connectivity Protection
- Securing Software/Firmware
- Hardware-based Security Controls
- Securing Network Services
- Cryptography Techniques
- Protecting Interfaces/APIs

Human factor

Usability

- Security Model and policy
- Establishing Privacy Protections
- Secure Authentication/Authorization/Access Control
- Identity Framework and Platform Security Features
- Physical Security

Physical Security

Monitoring

- Perform Security Reviews
- Providing Logging Mechanisms
- Security Monitoring and Analysis

Management

operation
Life cycle

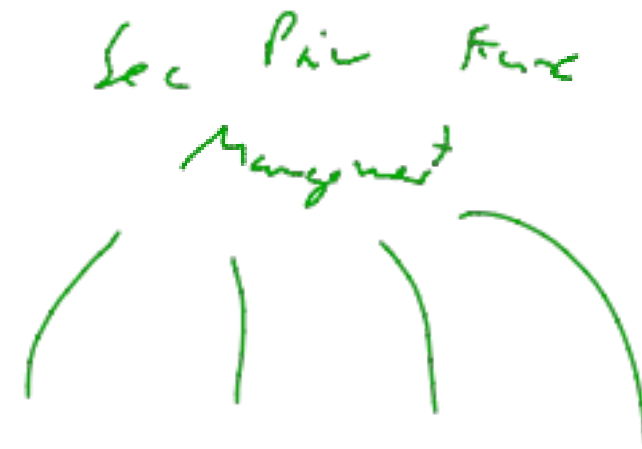
action.

decommissioning

end-of life time

Security Management

Sec Priv Funct
life cycle



Dev. & Impl

Operation

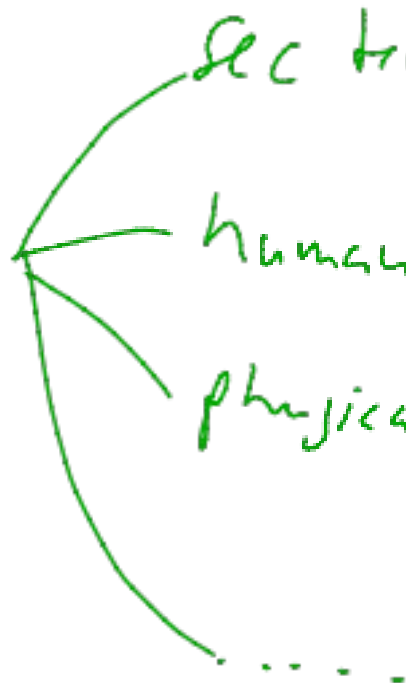
update

end of life

security

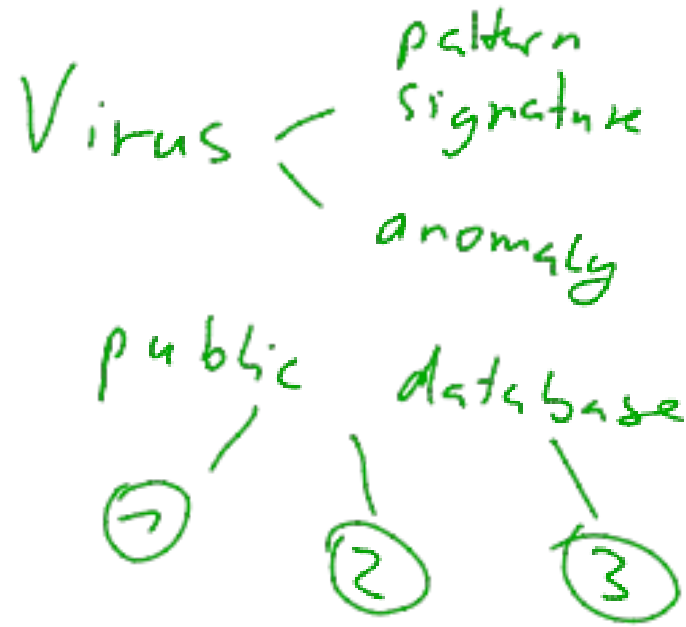
human factors

physical/IT access

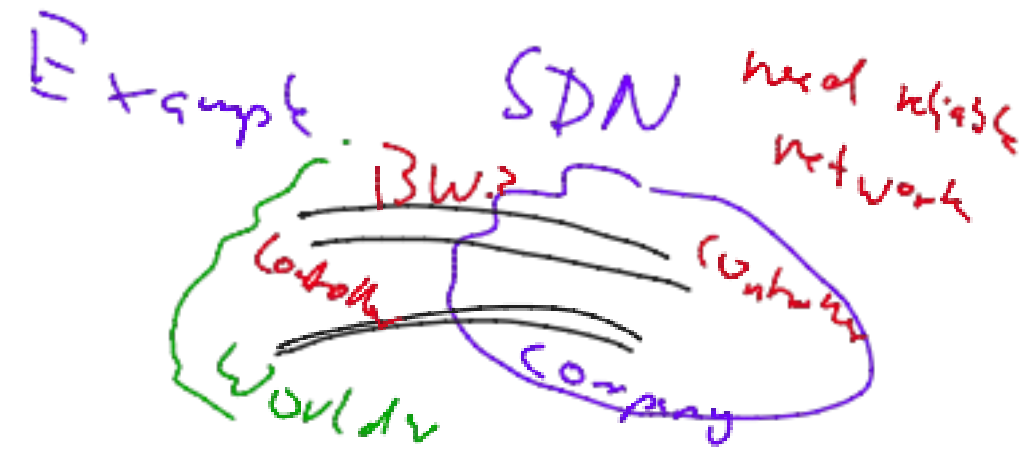


Digital Society

- ③ Apps
 - ② IoT
 - ports
 - firewall
- upcoming



- ⑦ Wireless comm
 - signature
 - operating
 - physical protection
 - EM shield
- UWB



#WIFI4EU

(A)

0% Free Information for all

30% App (FON.com)

90% Network ID — EDUROAM + FEIDE

The slide features the European Commission logo at the top left. The main title reads "Creating a Digital Single Market Bringing down barriers to unlock online opportunities". On the right side, it says "STATE OF THE UNION 2016". Below the title, a purple banner contains the text "WIFI4EU - FREE WI-FI FOR EUROPEANS" with a Wi-Fi symbol. The main body of text states: "Internet is a public good to which everybody should have access. The EU is bringing Wi-Fi to you, in parks, squares, libraries, public buildings." A box on the right lists statistics: "€120 million of EU investment", "at least 6000 to 8000 local communities", and "40-50 million connections per day".

@JosefNoll

5G

Network Slicing for

- Orange

(B)

Basic 4 ALL

↑
societal impact

H2020

5G

- MBroadband

- Trn. IOT

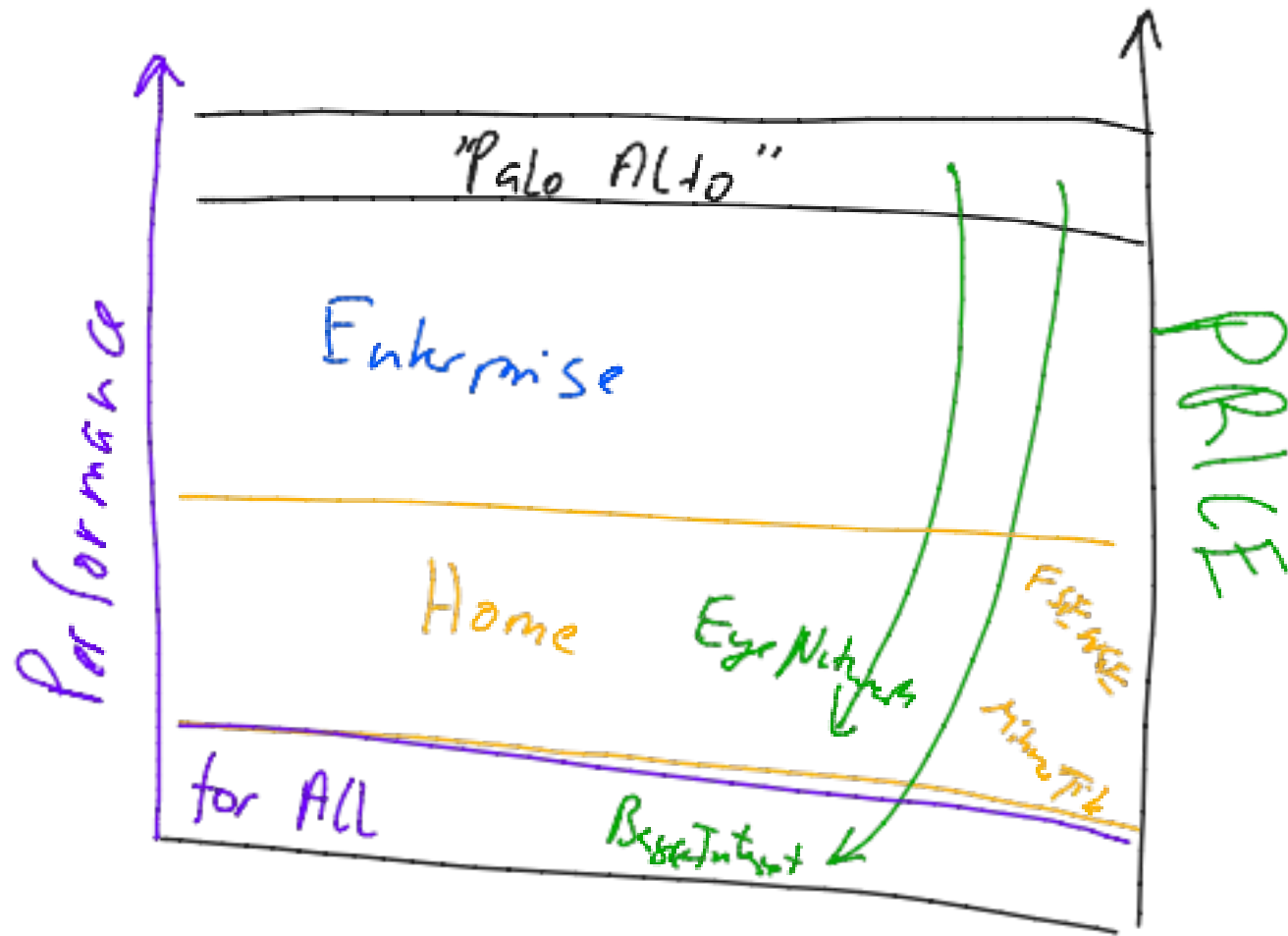
- reliable &
ultra low latency

SR

| Agenda 2030
| SDG

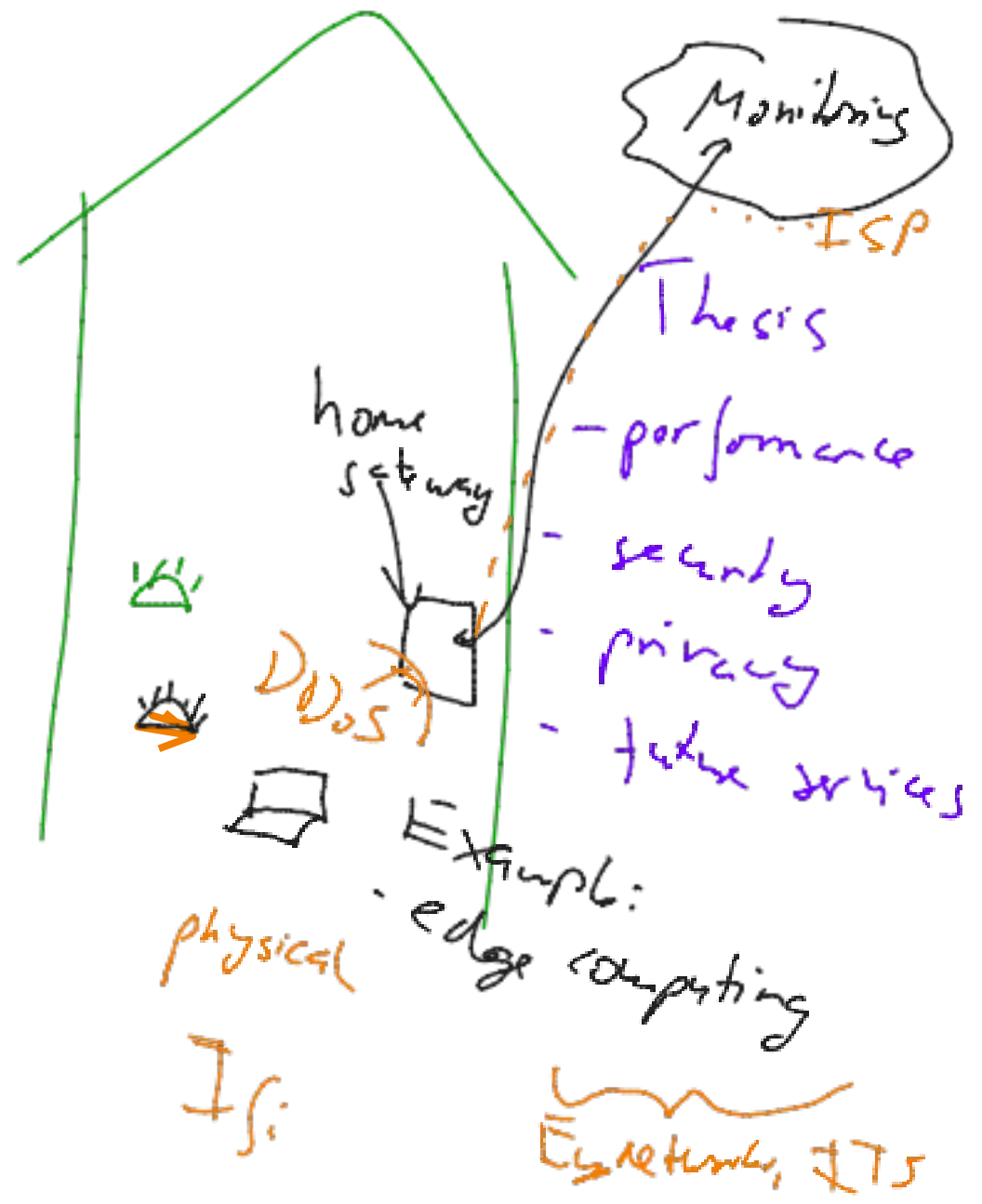
Sustainable Infrastructures

- GW
- Wi-Fi
- IoT



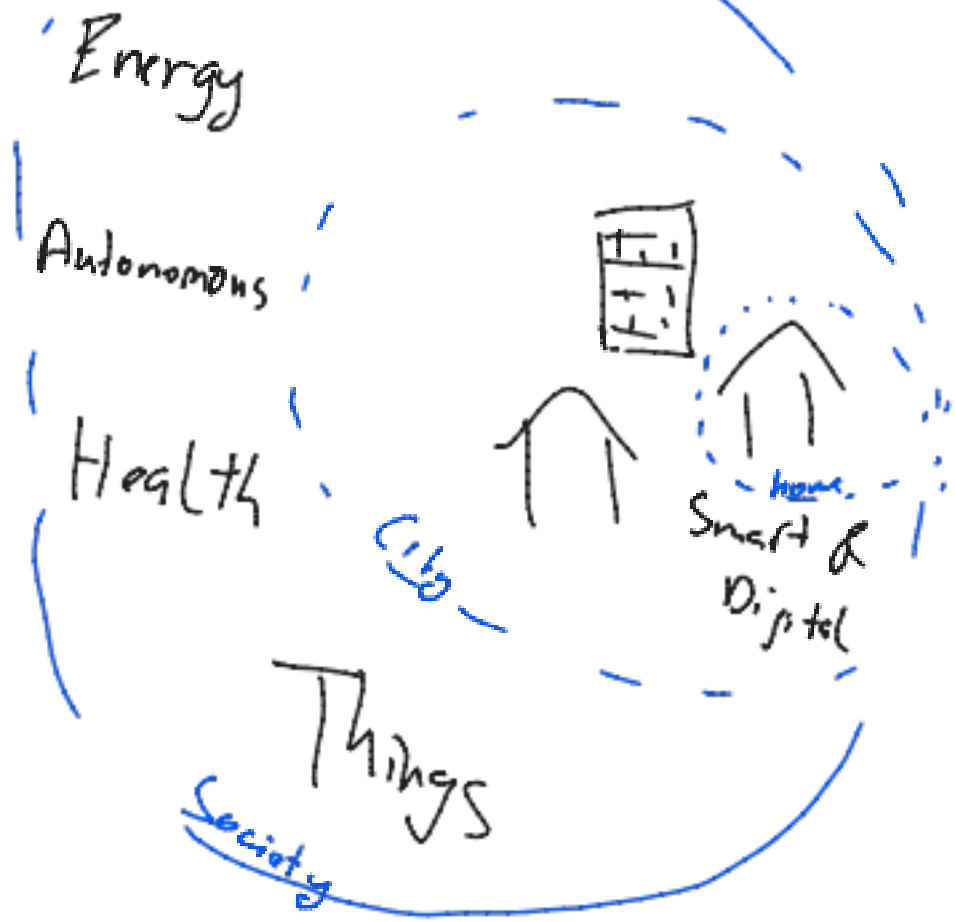
CPS Lab

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



ISI

PriST



Digital Society

- People
- Things
- Society ← Sustainability

Nor

Paul (Halley (?)) → Digital



International

Digital

eSmart

Bjarne

Digital Norway

Telenor

Android 7 / iOS / mac OS



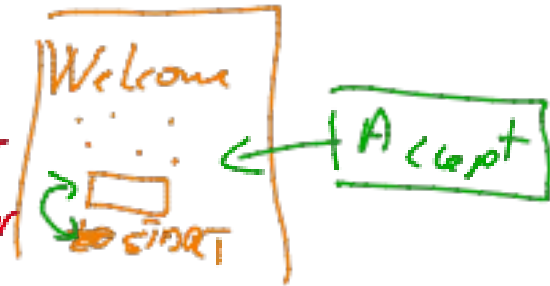
Select Wi-Fi: "InfernoInferno"

"Only window"

"in build - window - mac OS"

VLAN extended - iOS - Android

no other browser



closed after 70s

erdorf ein drahtloses Netz, über dass Zugang zum Internet gewährt sind frei zugänglich, sowie ausgesuchte Adressen im Ausland. Ausç Adressen die von der Kripo in Deutschland gesperrt sind.

Freier Zugang zu u.a.:

[Kinderdorf, Caritas-Bottrop.de](http://Kinderdorf.de)
ard.de, zdf.de, wdr.de, wetter.de, [Stadt Bottrop](http://StadtBottrop.de)
google.de, bing.de, facebook.com, YouTube.com

Zugangscode für andere Webseiten:



1. Wi-Fi

2. Auth ✓

3. Internet access

Days →

SCOTT U:O importance

- 1) Meas Security
 - Security classes/levels ^{Manish}
 - Methodology ^{MM ✓}
 - Framework ^{↓. Sevaj)}
- 2) S-ABAC
 - Domains
 - medical
 - home
 - IoT lifecycle access
 - Example: use case
 - SWRL implementation (Gjorgy)
- 3) Privacy Label
- 4) Managed Wireless IoT

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

SCOTT

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

Meas. Security

Help ⇒ implementation

S-ABAC

WP11 Medical

WP07 Air Quality

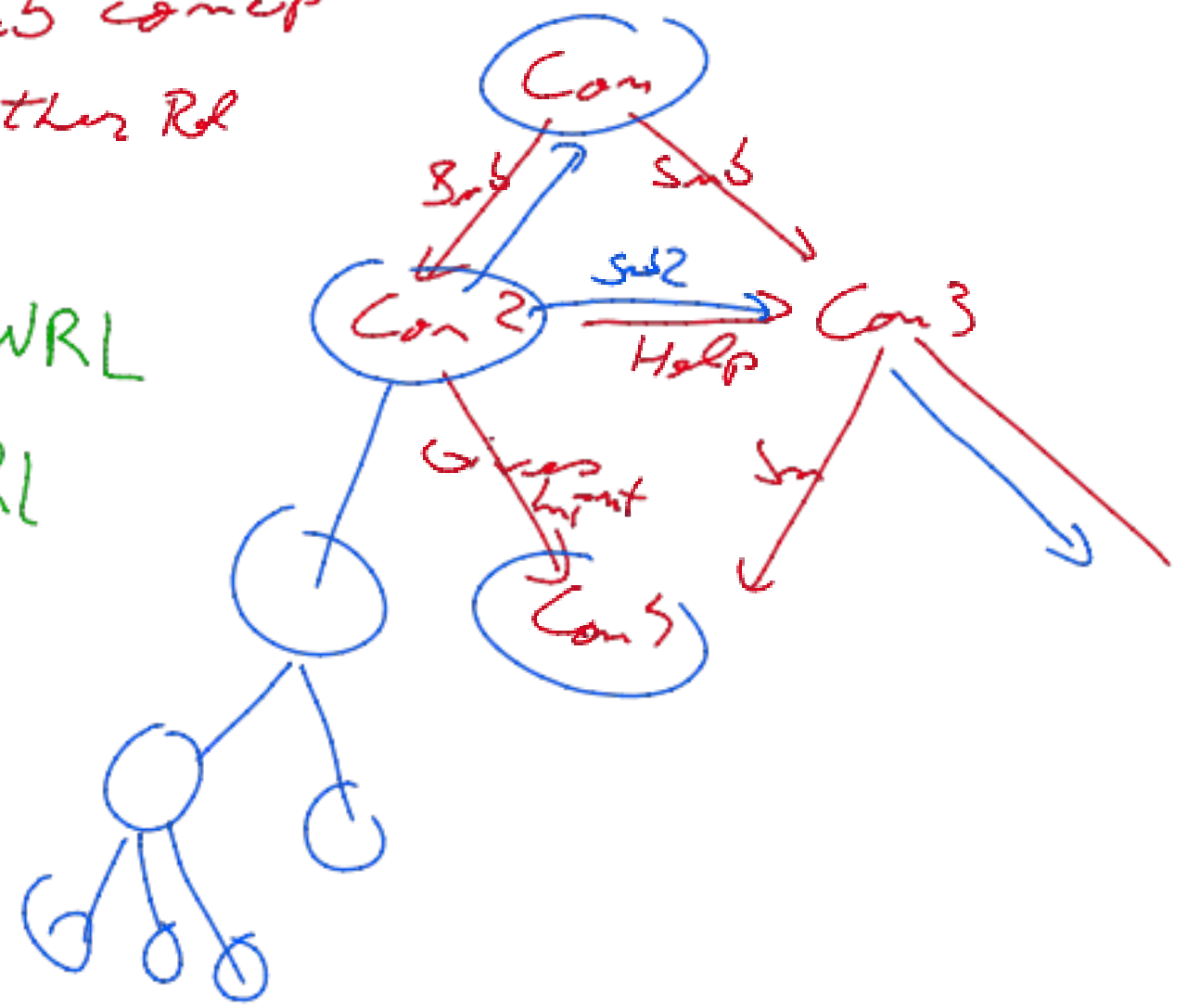
WP18 Manage Wireless

↳ new services

Ontology

- Rel
 - Concepts
- Sub concept
Other Rel

SWRL
w
SQRL



MANISH PHD

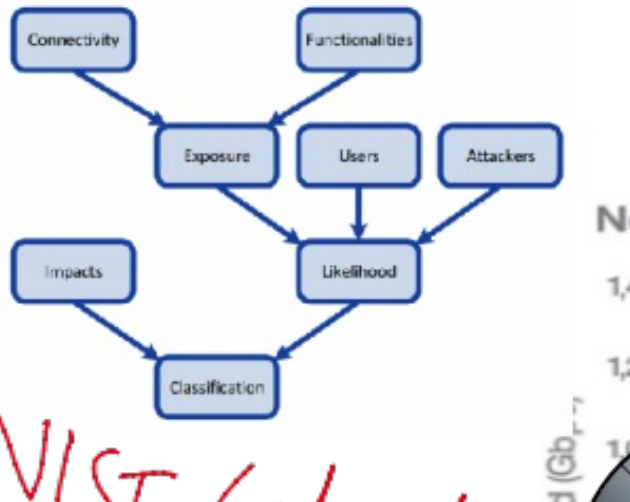
- Security Classification/Levels

↳ Exposure + Impact

↳ Build on ANSI standard

↳ CVSS calculator

+ Sec. Functionalities
+ Multi Metrics



ANSI

- Redefine for Smart Grid

NIST Calculator

ELAHE PHD

① Survey Paper on Sec. Functionality

↳ Reading related Surveys

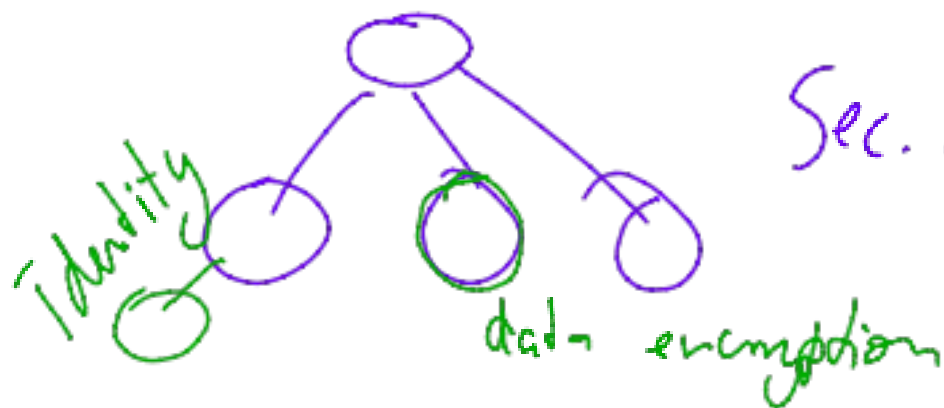
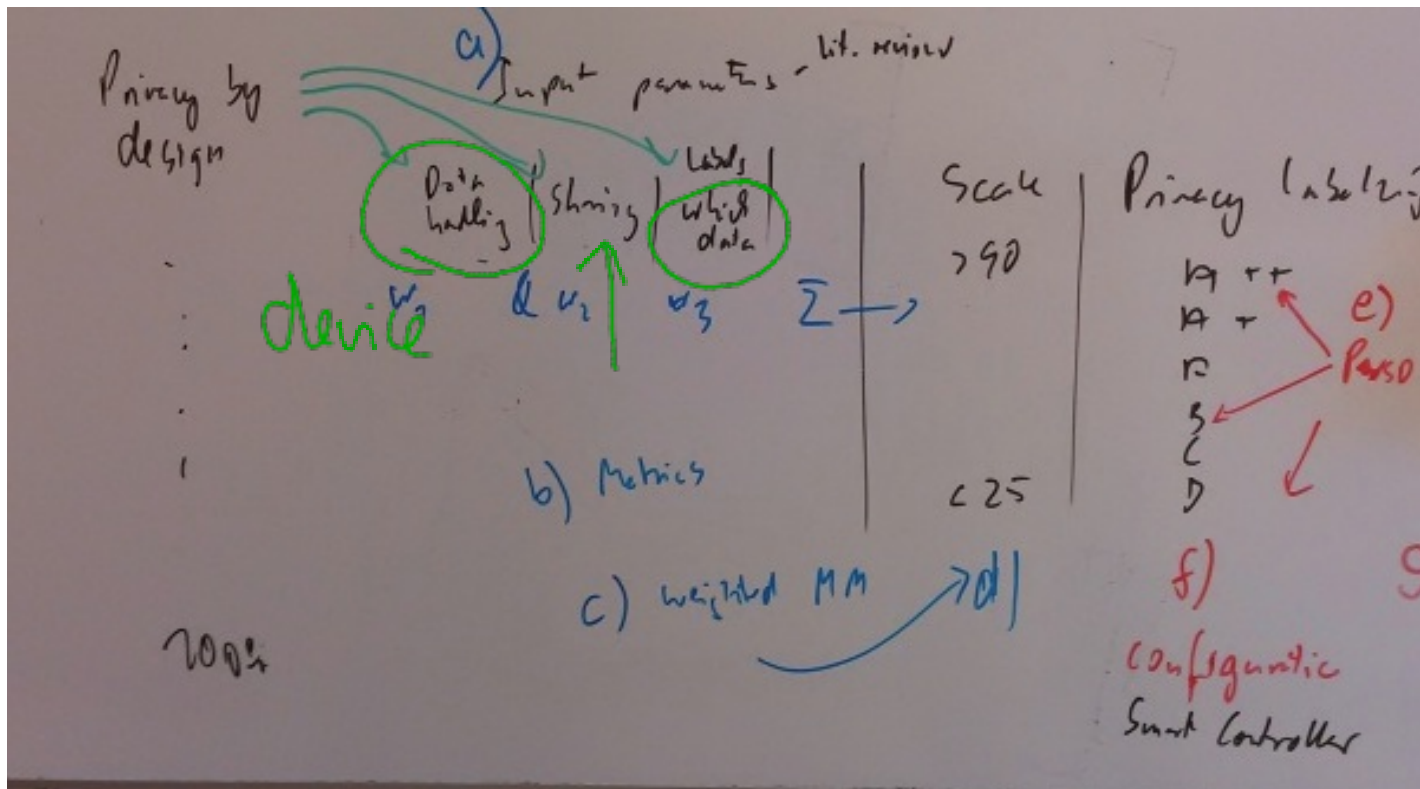
Detailed plans for work

② Privacy Labeling ← Principle/Methodology

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

④ Privacy Labels (A, B, C, D...) mean
Services ————— devices

⑤ → Apply PL to



Sec. & Priv Functionality

~~Privacy by design~~

~~↳ Methodology~~

~~∴ which data~~

new Methodology

Privacy label