

AP 5: Demonstrator

Wanted features (additions to the proposed ones):

- Easy to communicate in media
(Text, Pics, Vids, Web, Print, ...)
- Wide scalable in difficulty
(Security by design)
- Relates to something well known
- Presentable / Assessable at the Event

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Task:

DOOR LOCK:
Build a microchip in a
door lock

Difficulty:

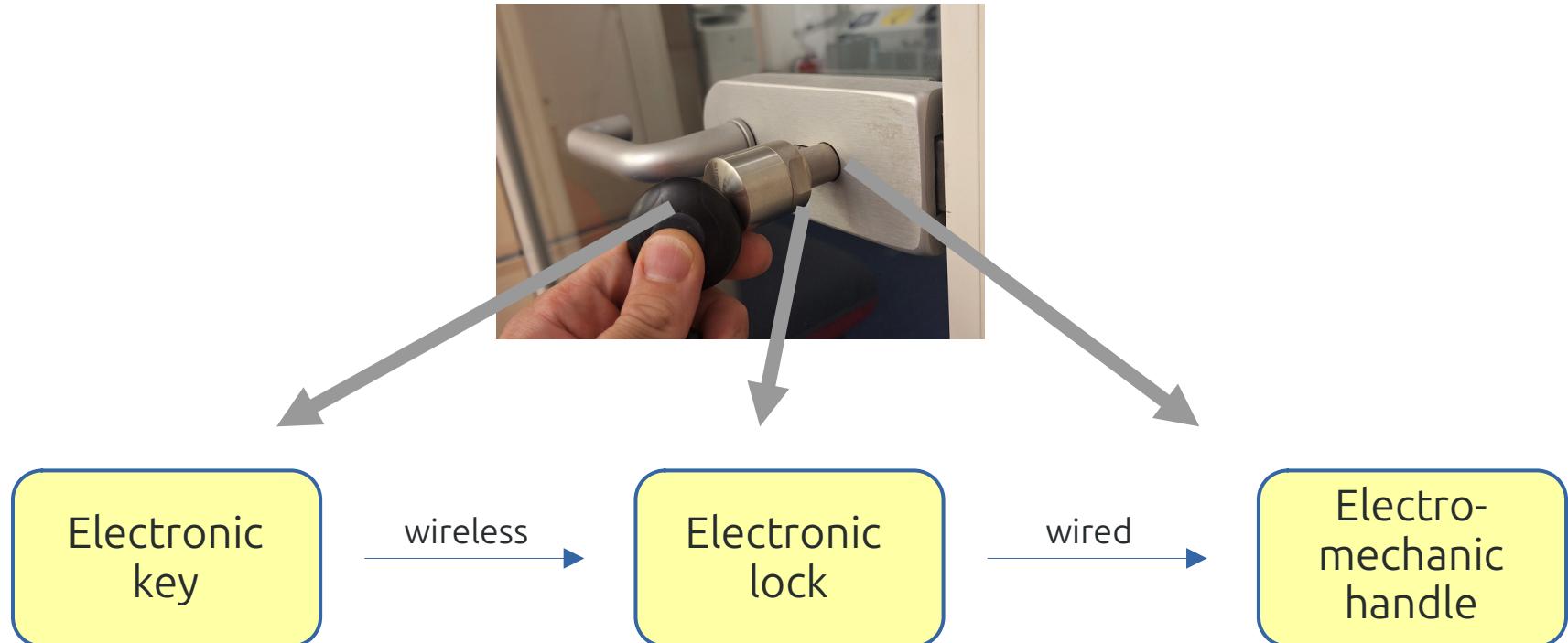
Security by design



Pics: T.Knoll, CC 4.0 by-sa

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Door lock schematic:

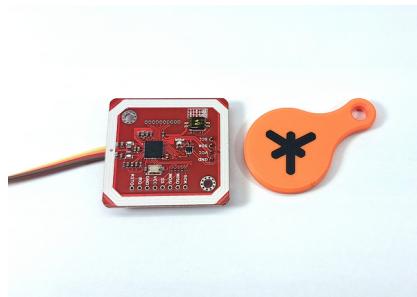


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Team-Kits:



NFC / RFID
keys

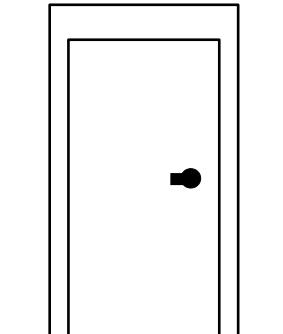


NFC / RFID
reader

During design:
FPGA



In competition:
Microchip



Door:
t.b.d.

Electronic
key

wireless →

Electronic
lock

wired →

Electro-
mechanic
handle

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Security by design

During design:
FPGA



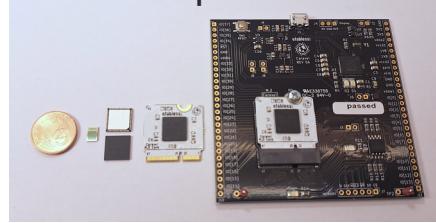
In competition:
Microchip



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Build a microchip

In competition:
Microchip



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Some topics to define / discuss for AP5 (Workshop?):

Urgent:

- + Timeline: Hardware (HW) AP5
- + Team-Task: precise definition of the task
- + Teams: Handout of the HW
- + Interface: Team-Kit $\leftarrow \rightarrow$ Security by design
- + Interface: Team-Kit Docs $\leftarrow \rightarrow$ TtT Docs
- + Interface: Team-Kit Code $\leftarrow \rightarrow$ Verification
- + Production: Packaging, Carrier boards, physical Interface (M.2?)

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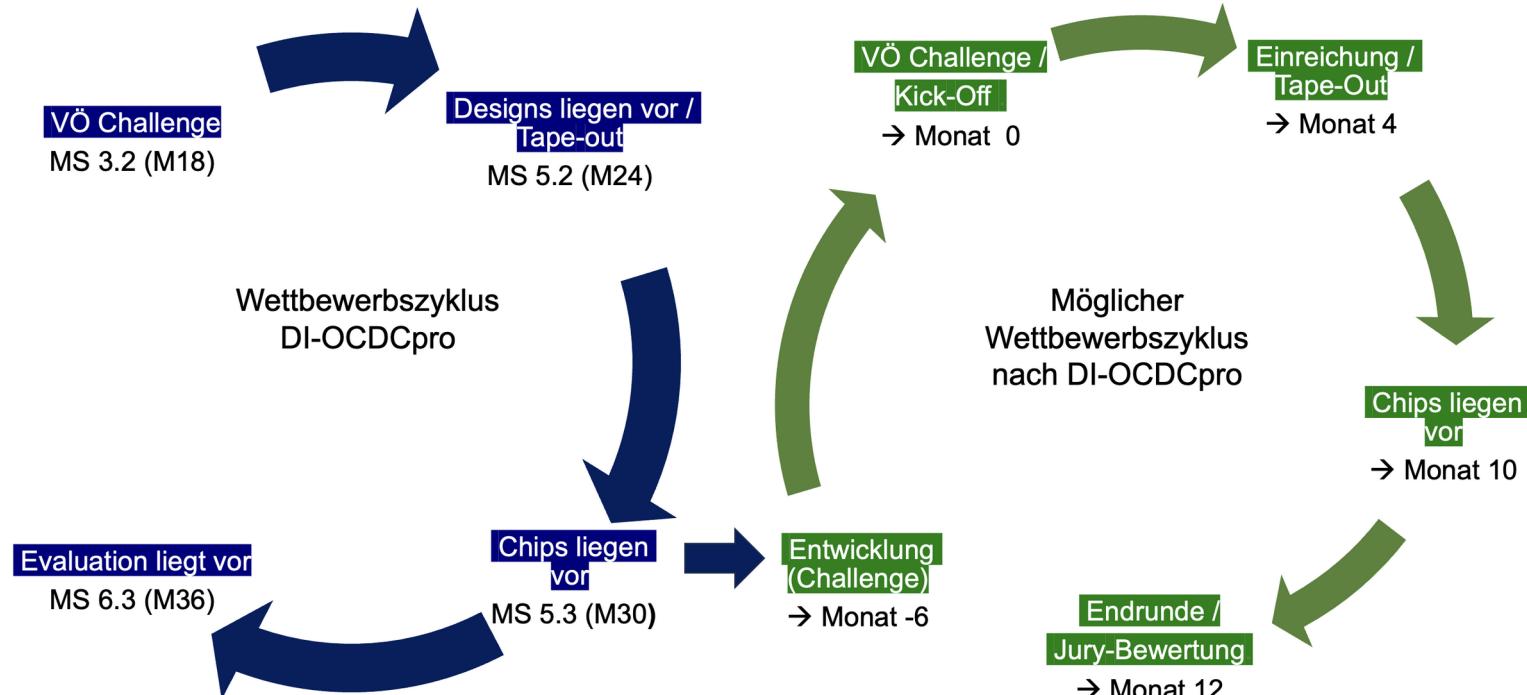
Some topics to define / discuss for AP5 (Workshop?):

Not that urgent:

- + Judges / Judging criteria
- + Team presentations
- + Next years challenge voting?

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Some topics to define / discuss for OCDopro (Workshop?):



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Some topics to define / discuss for OCDopro (Workshop?):

+ Design of the complete Challenge:

- * Name, Timeline, Media
- * Before chip production
- * After chip production
- * Concluding event?, judging, prices
- * Network invitations and participations
- *