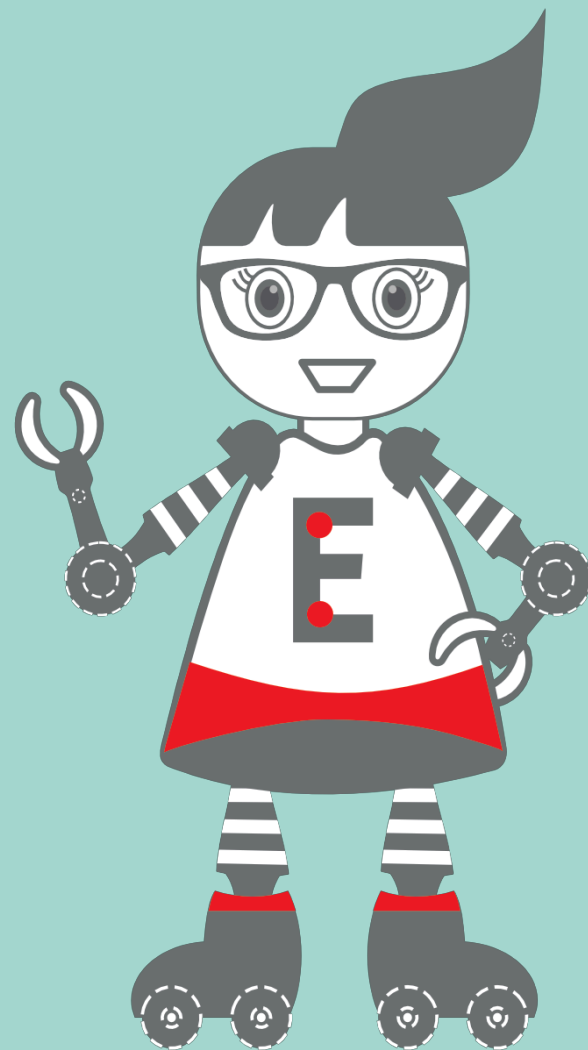
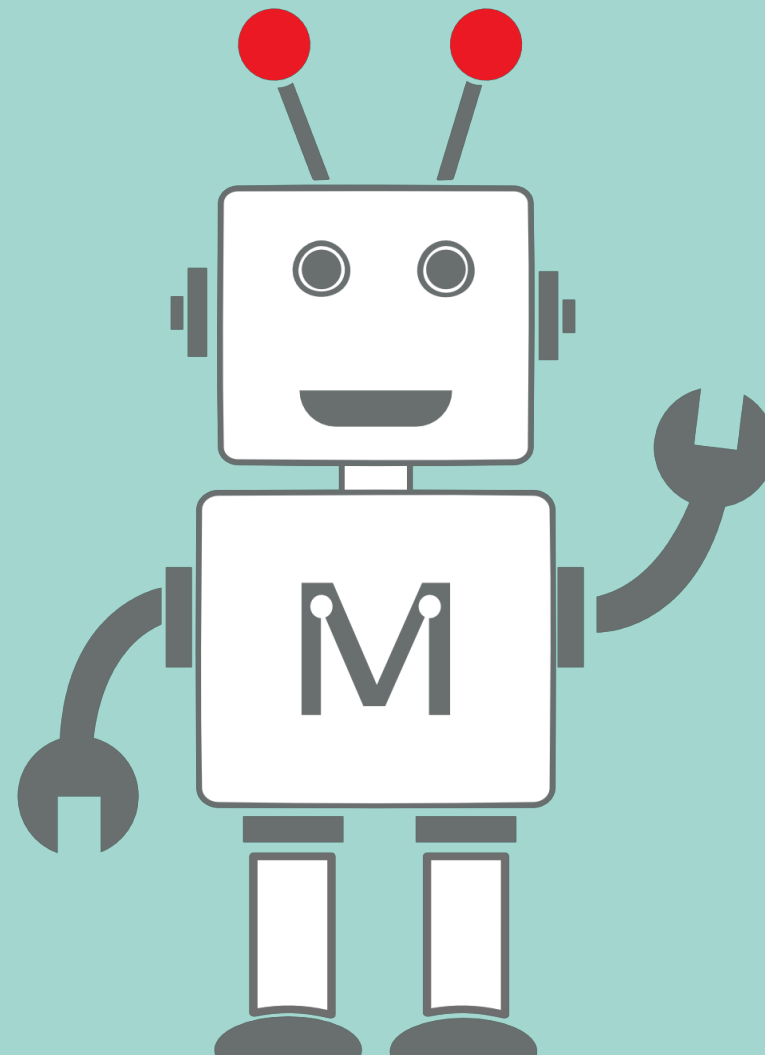


Neuro:pil

Secure Interaction for Things



ELIZA



MARVIN

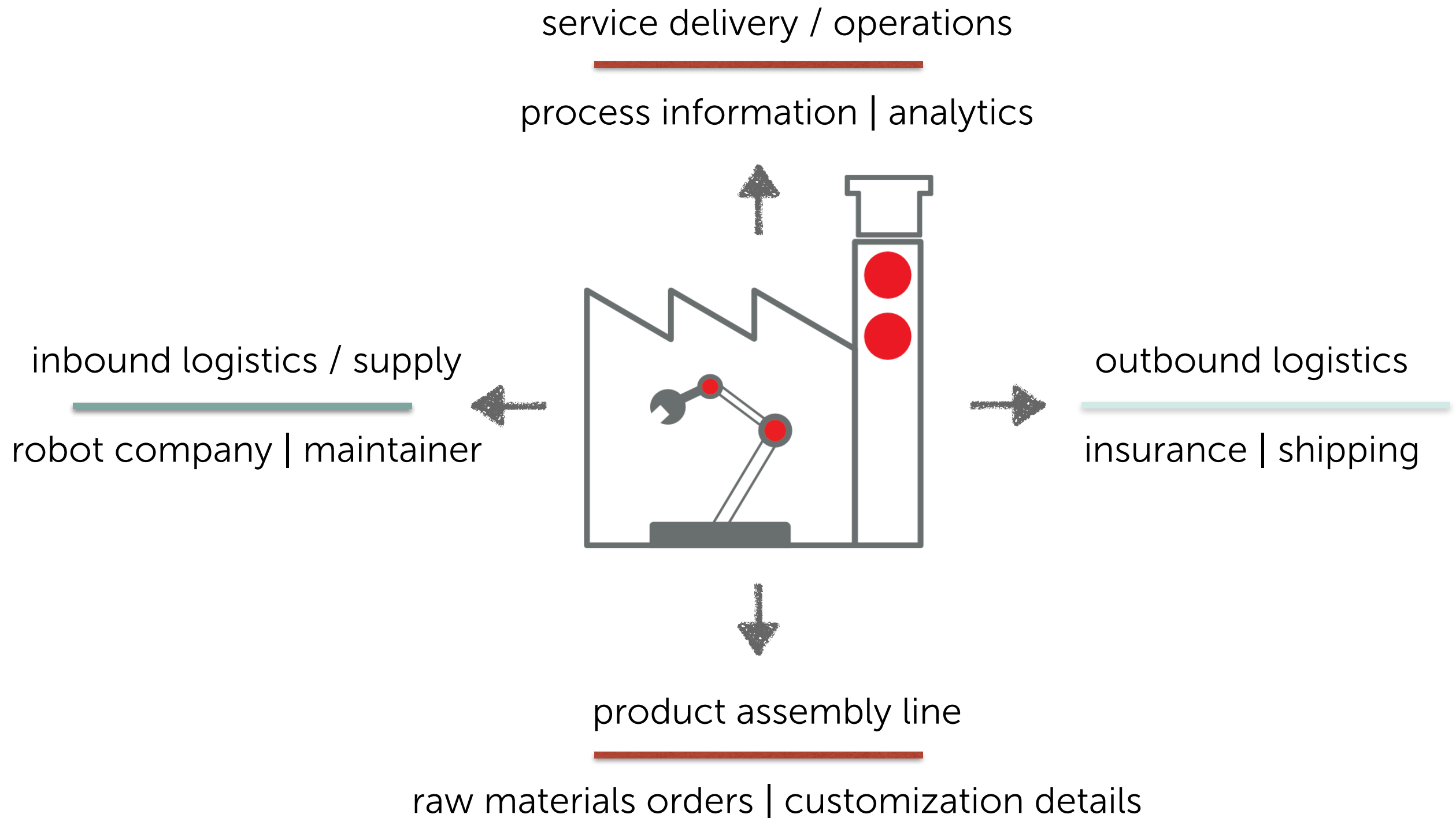
presented by: STEPHAN SCHWICHTENBERG @ FOSDEM 2019



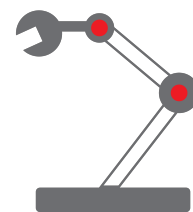
FIRST DE-CENTRALIZED IoT MESSAGING FRAMEWORK

- IoT / M2M messaging library (C99)
- small, scalable, secure
- decentralized
- security and privacy first and by design

N INTERACTION / FACTORY SETTING



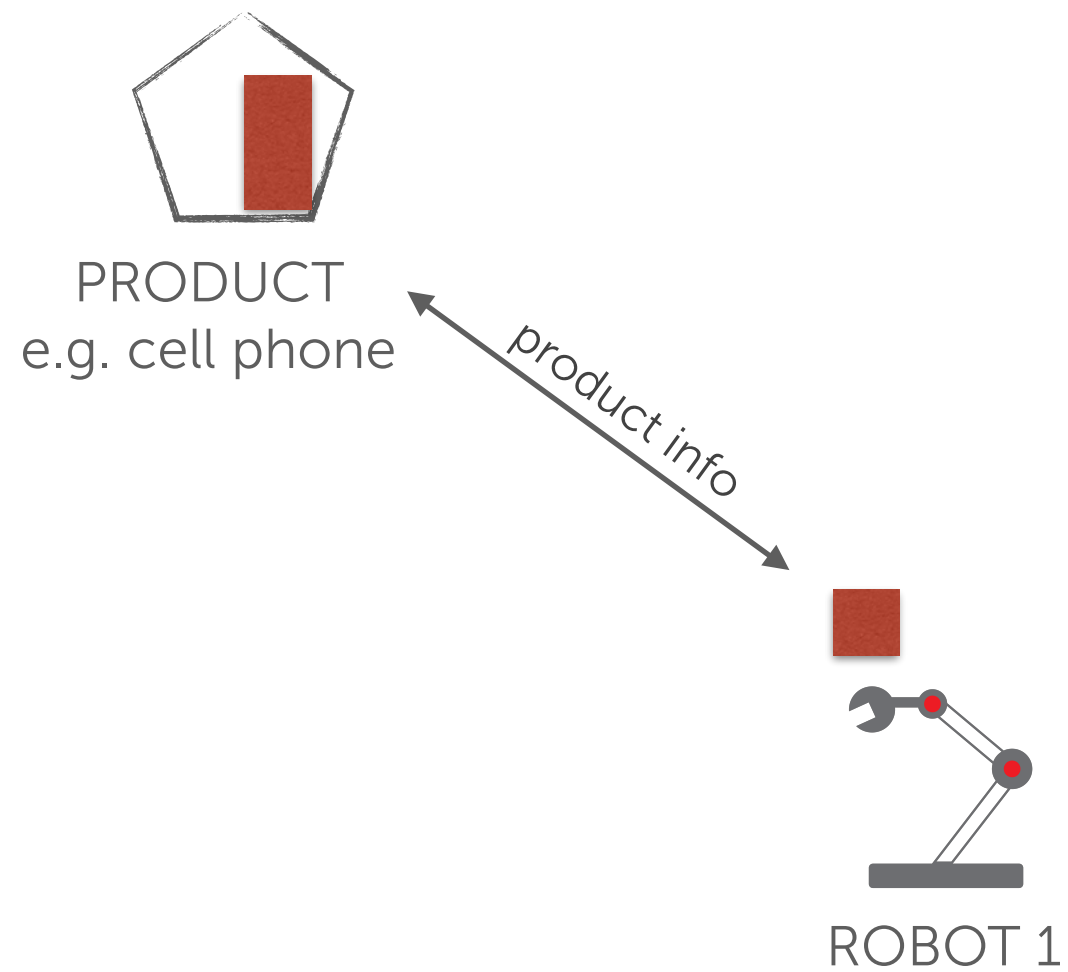
N MULTI DATA OWNERS PER DEVICE



ROBOT 1

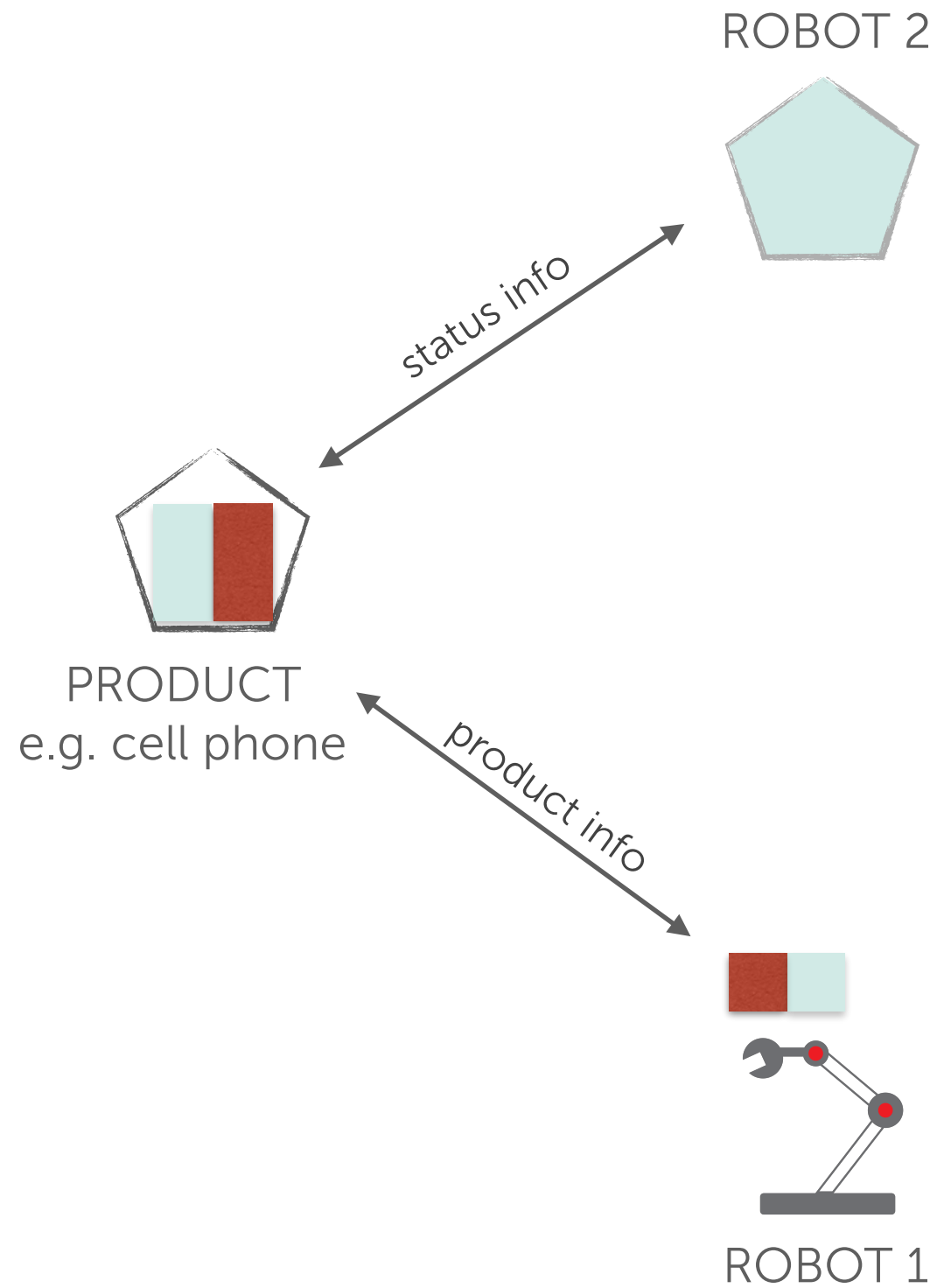


MULTI DATA OWNERS PER DEVICE



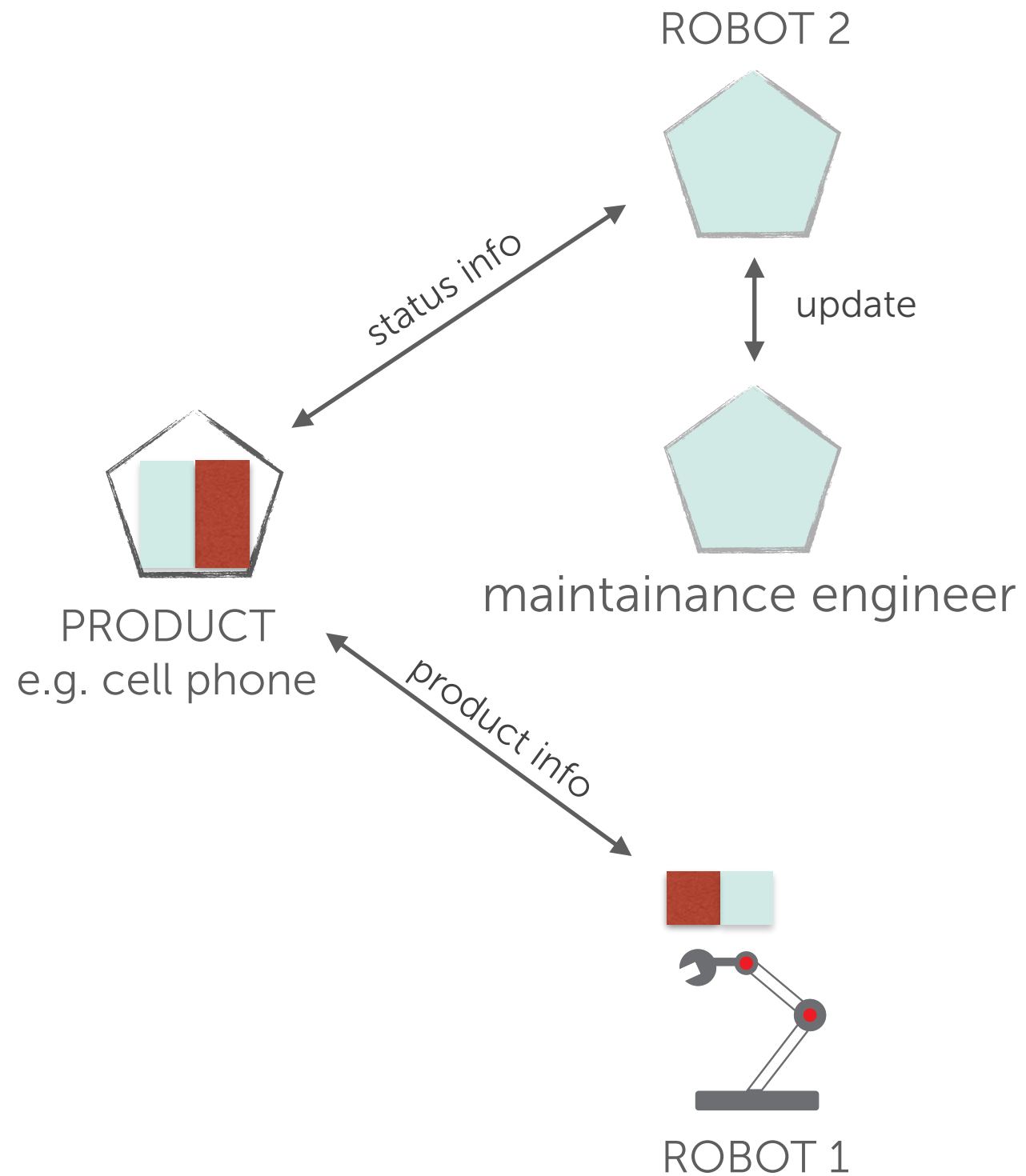


MULTI DATA OWNERS PER DEVICE



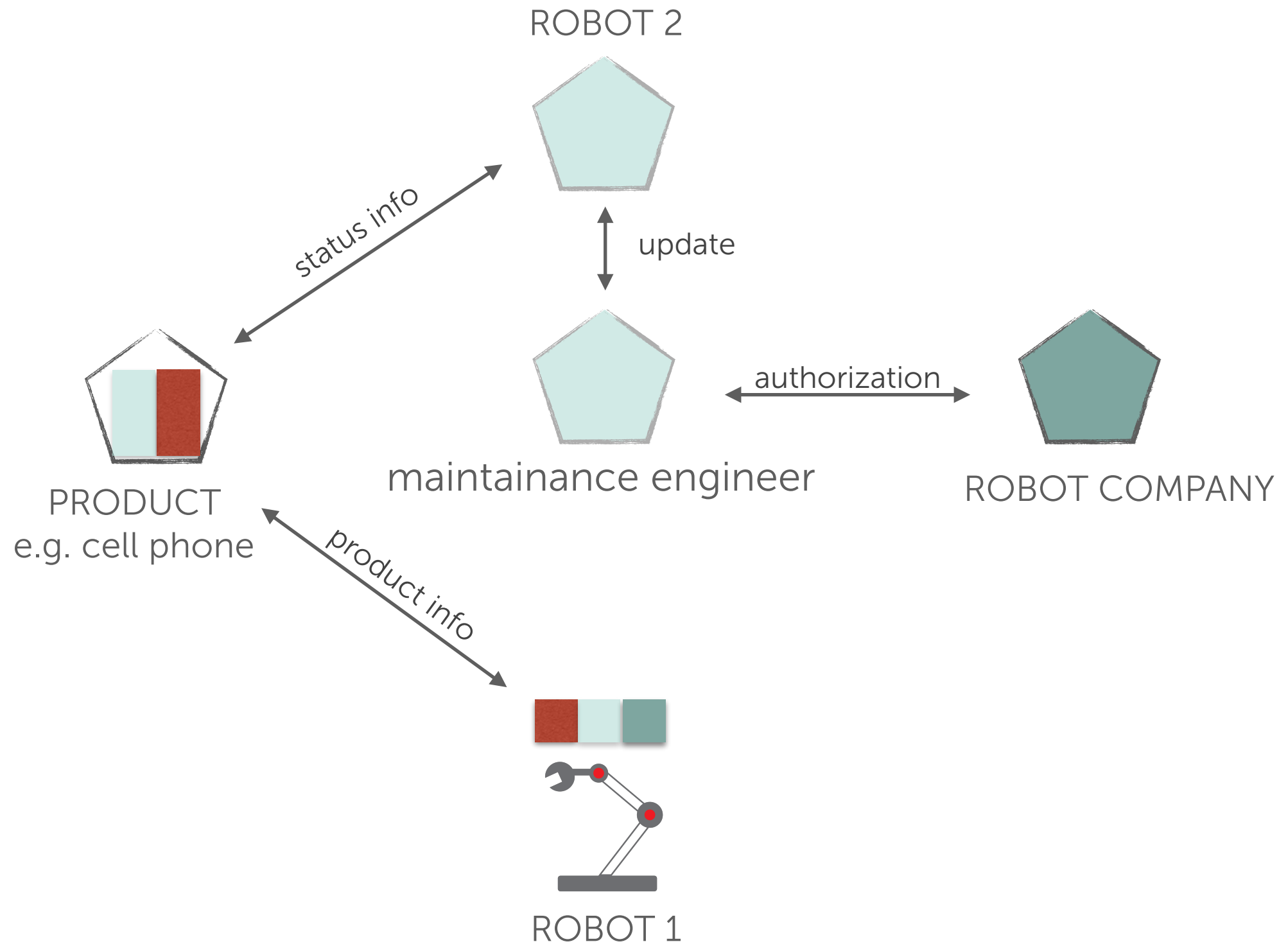


MULTI DATA OWNERS PER DEVICE



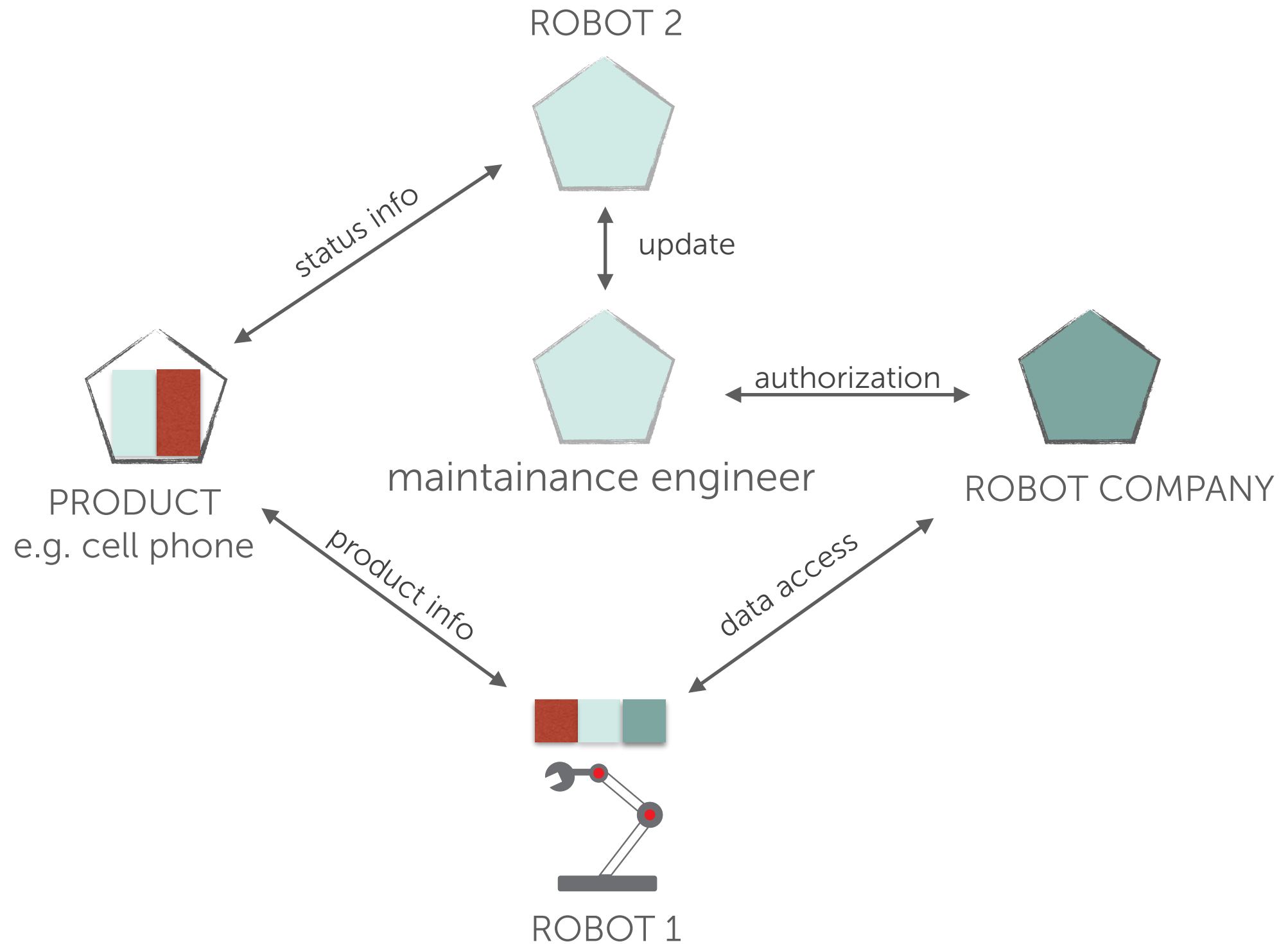


MULTI DATA OWNERS PER DEVICE



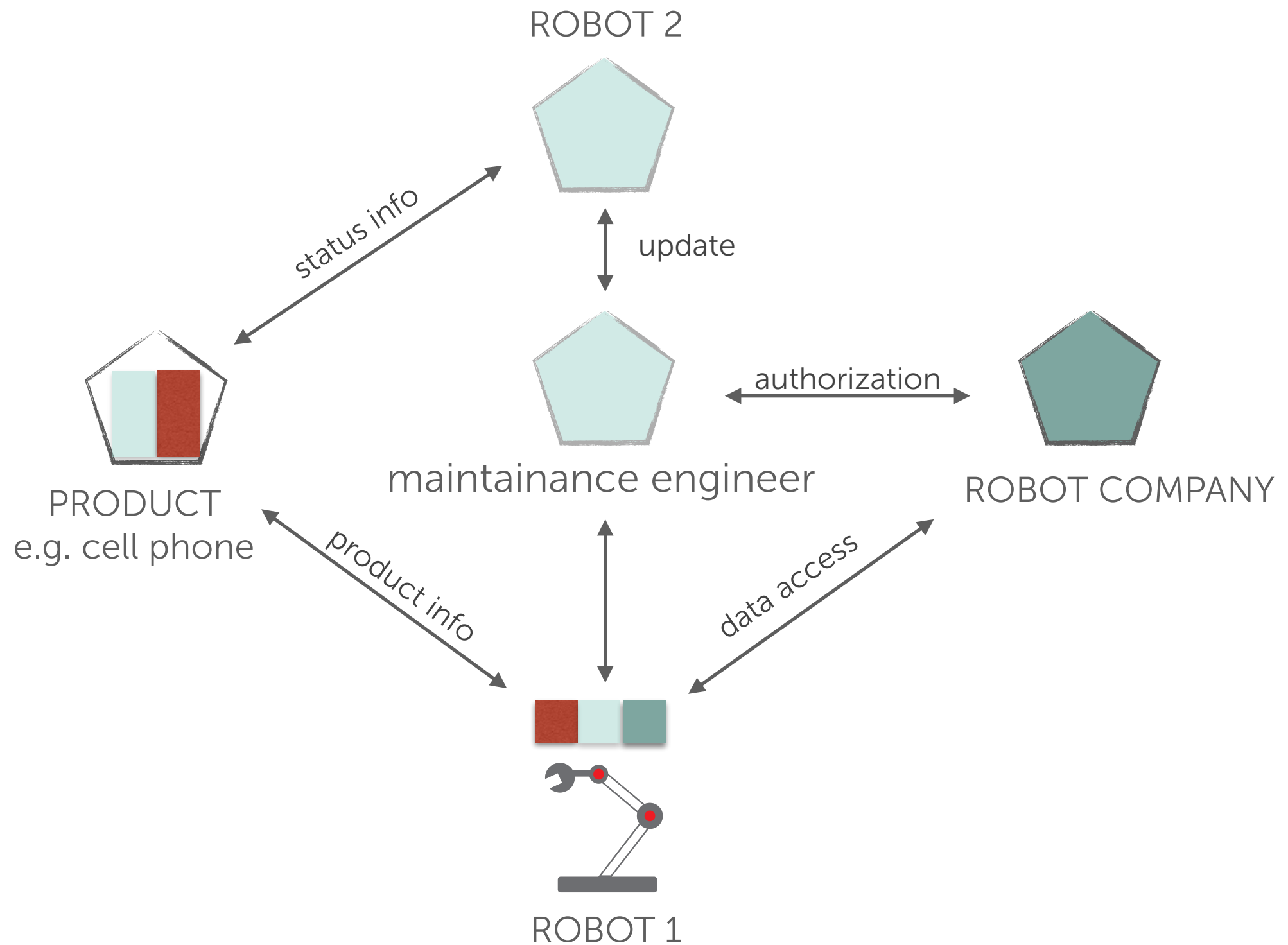


MULTI DATA OWNERS PER DEVICE



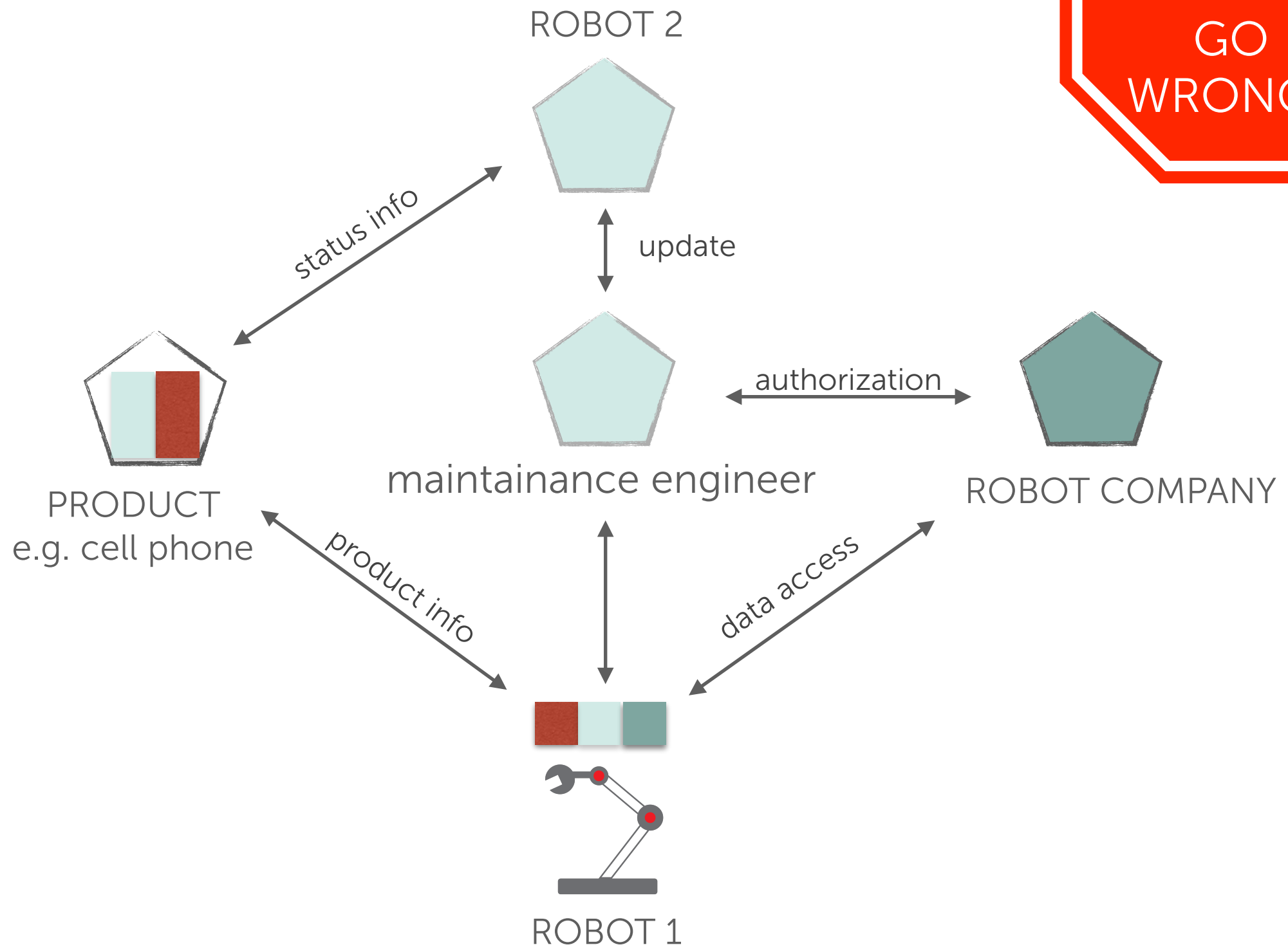


MULTI DATA OWNERS PER DEVICE

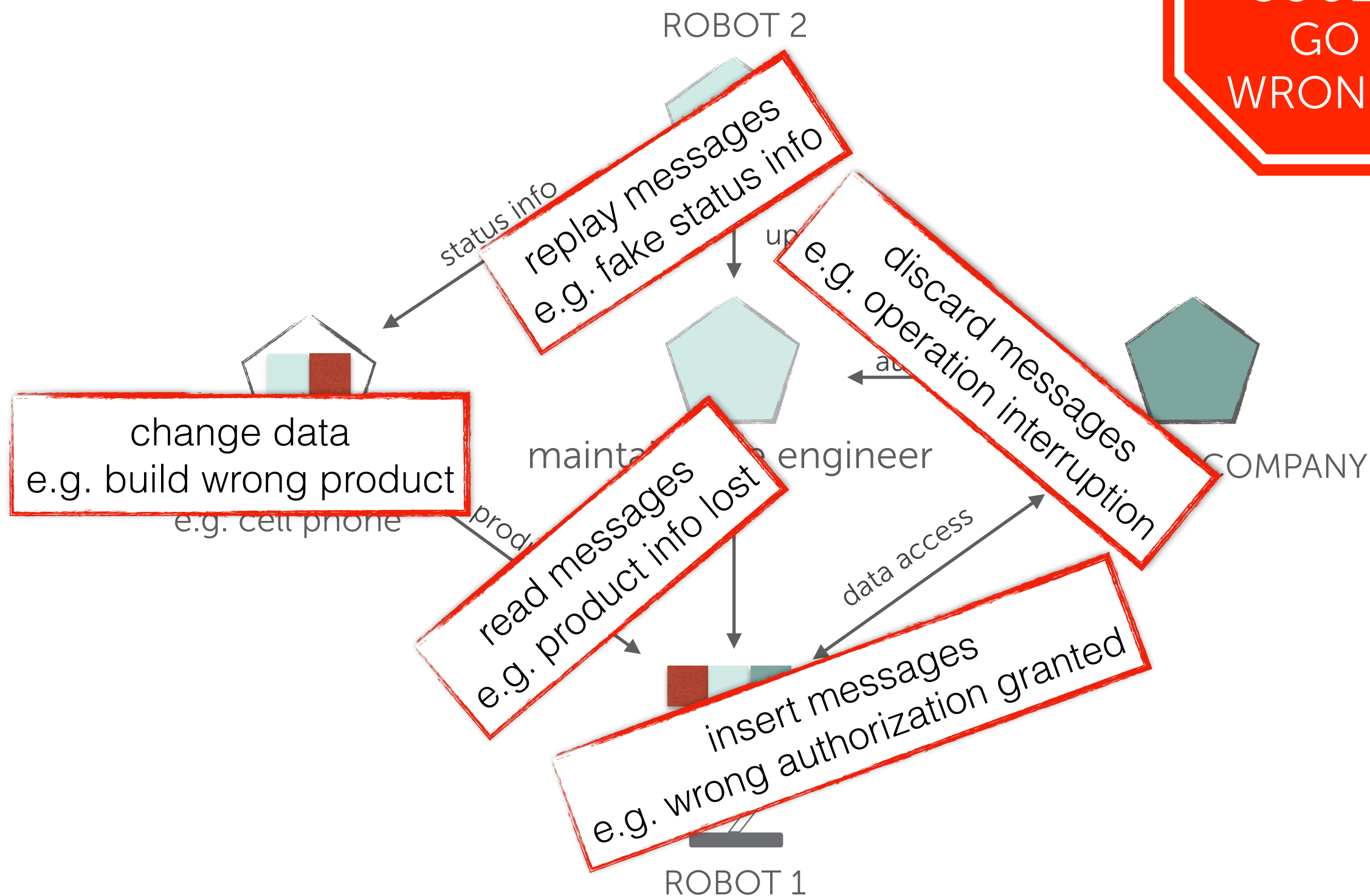




MULTI DATA OWNERS PER DEVICE



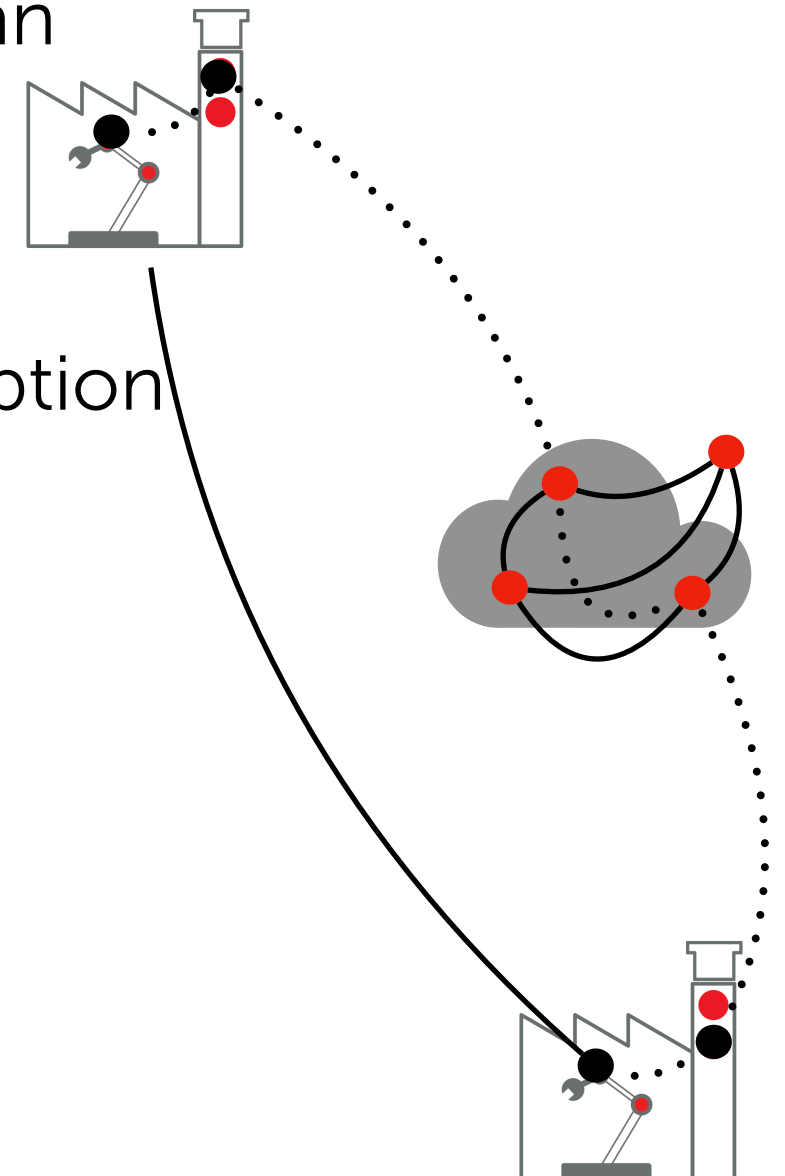
N MULTI DATA OWNERS PER DEVICE





FIRST DE-CENTRALIZED IoT MESSAGING FRAMEWORK

- digital identities
- attribute based distributed security and filtering
- decentralized machine interactions, human governance
- obfuscation of protocol metadata
- group encryption and payload data encryption
- at-most-once delivery / non-repudiation
- no single point of failure / attack
- multiple routes to target (based on DHT)
- ... and more ...



N REACHING THE NEXT LEVEL

Release 0.9, is newly available on GitHub. What we're working on:

- growing open-source community
- cooperations, ie.: use cases, pilots projects
- candid feedback, questions

Let's get together and have a chat now or contact us:

Stephan Schwichtenberg

<https://github.com/pi-lar/neuropil>

neuropil@pi-lar.net

www.neuropil.org

Neuro:pil
Secure Interaction for Things

