

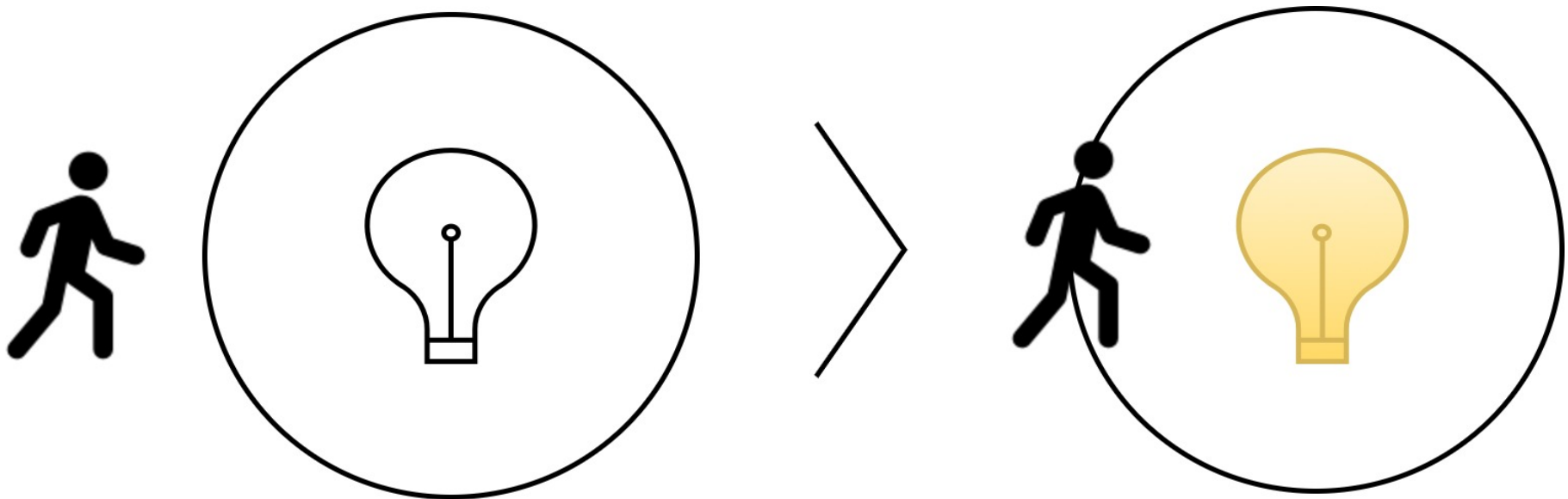
Team Number: 6

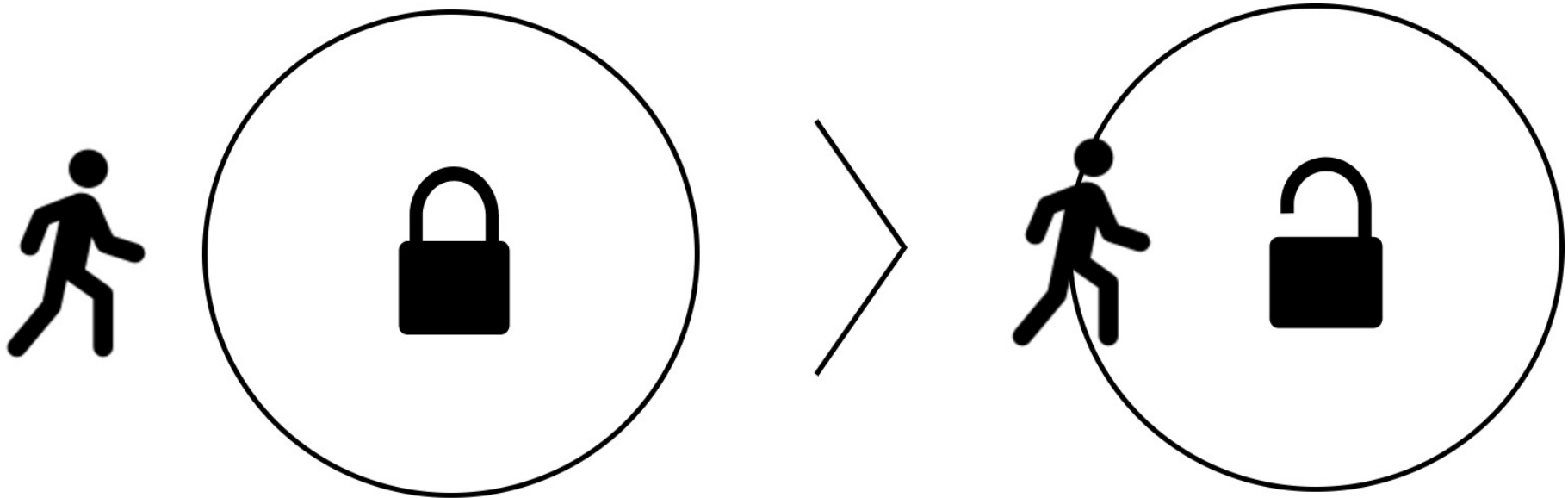
Distance Based Application Trigger

Mehdi Yosofie & Philipp Schlieker, 21.12.2018

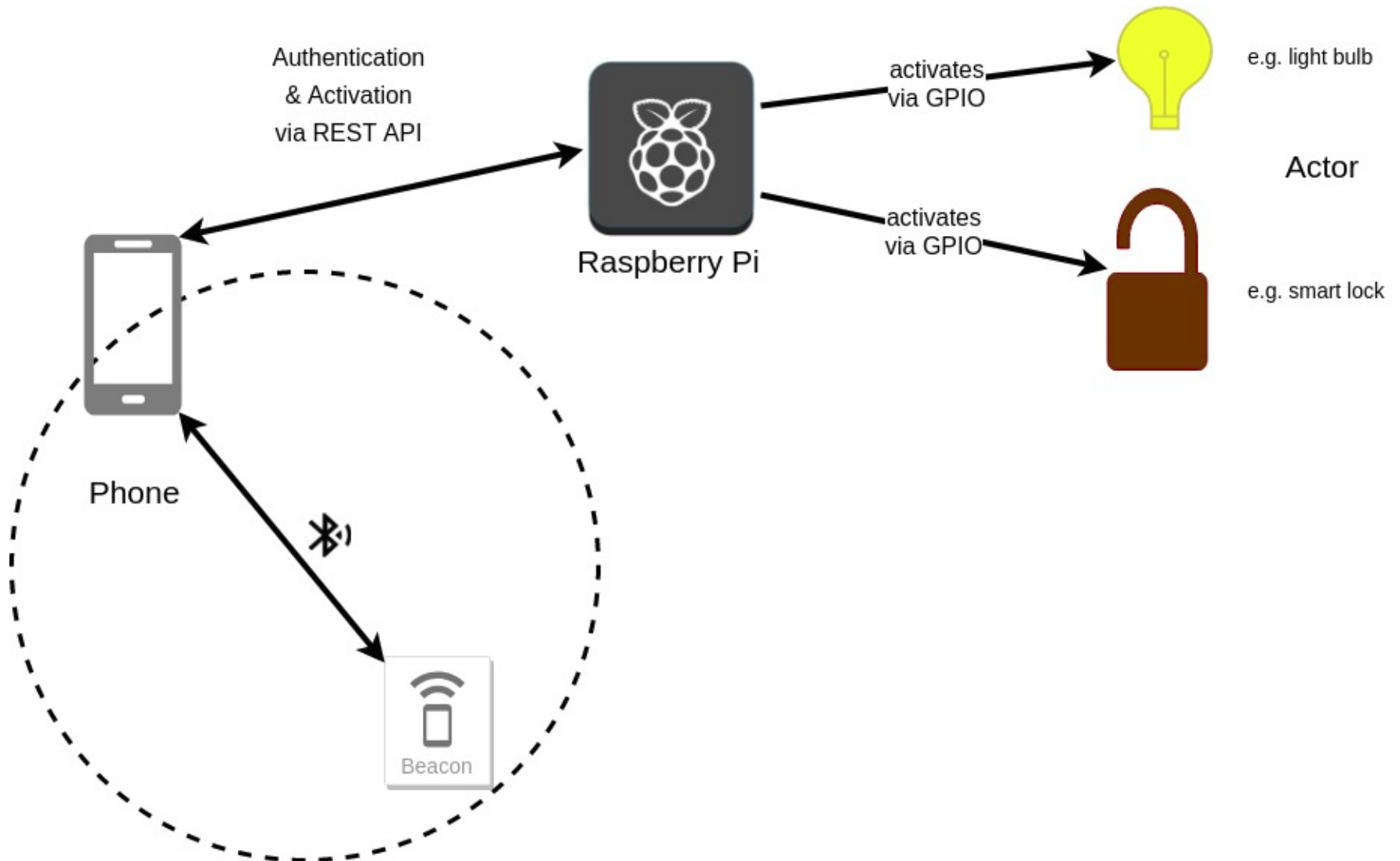
Software- and Systems Engineering Research Group
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Conceptual approach





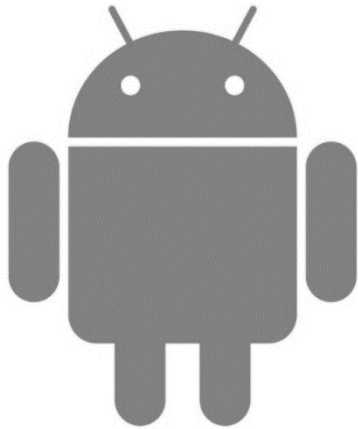
Bluetooth Low Energy (BLE)



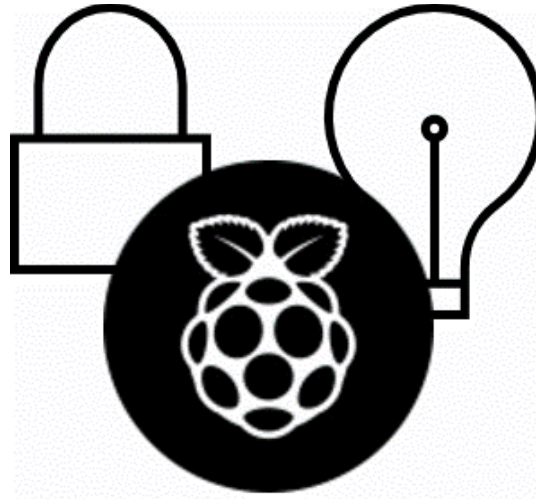
Beacons

- Accuracy of position estimates
- Response time for detection of beacons in the background
- Compatibility of different beacons
- Compatibility of BLE libraries between Android versions

How would the prototype function?



Android App
using AltBeacon
Framework



API
using Raspberry Pi
or Sonoff Smart
Switch



Beacon
using Raspberry Pi,
Laptop or dedicated
Beacon