Venture Services Seeheim

20.05.2017
Dr. Gunter Kuechler (CEO)
Patrick Gottschaemmer (CTO)

about

- founded in 2014 (by Dr. Gunter Kuechler)

- team of 5 people

- intelligent ~~smart~~ home engineering for assisted living

- b2b and b2c solutions for germany and austria (2017)

- bring institutional research in AAL software / hardware to the markets

- integrate IT off-the-shelf products (where possible)

- focus on functionality and core application; utilize modern platforms

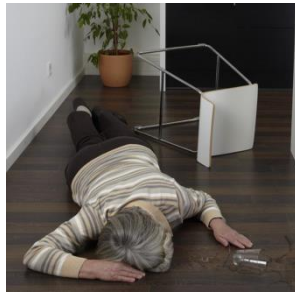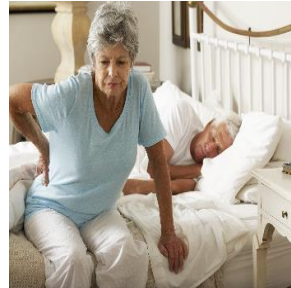- proud member of **openHAB** FOUNDATION

motivational aspects

1.

homes should take care for their people – very much as a car today does for his driver

motivational aspects

critical situations

Quelle: igd.fraunhofer.de

Quelle: pflegeleuchtturm.de

Quelle: busch-jaeger.de

apartment

Quelle: schnurloses.net

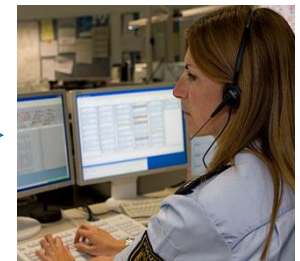neighbourhood

Quelle: herzberatung.de

family

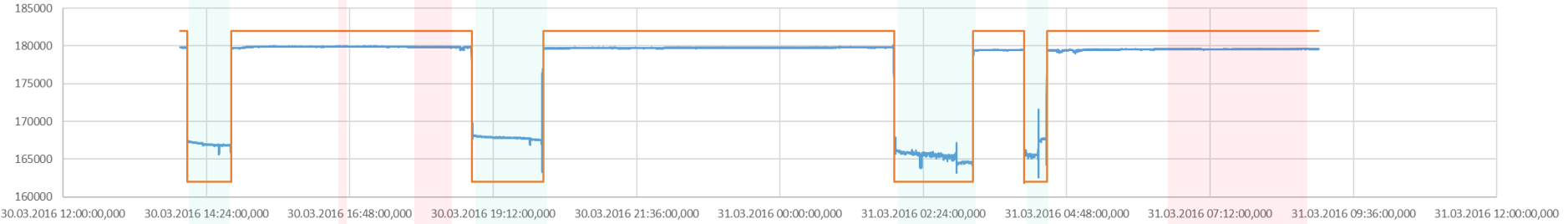Quelle: assistedhome.de

concierge
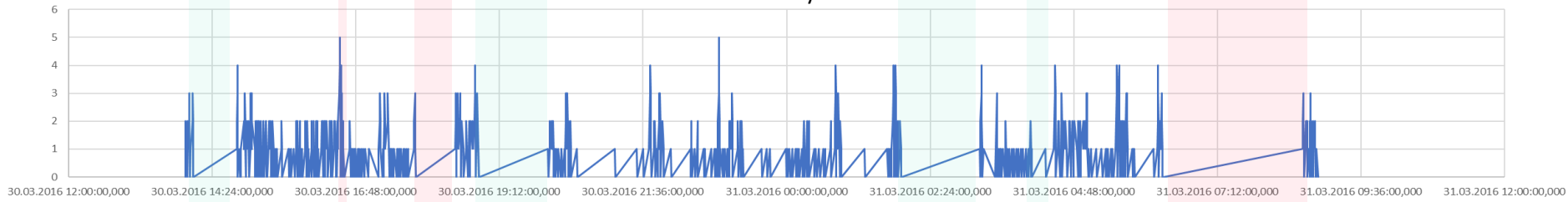

Quelle: savoy-sharm.com

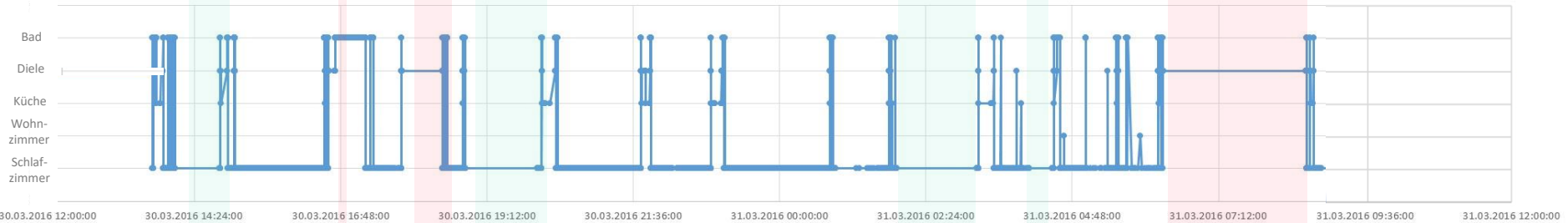call center

Quelle: baden-wuerttemberg.de

Bed Occupation

Activity

Door Contact
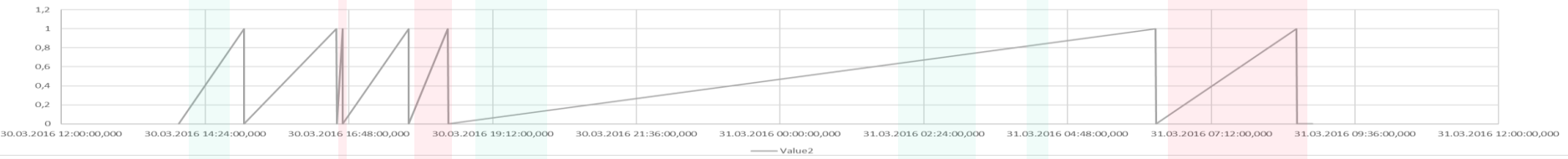
Motions

motivational aspects

2.

my home is my castle – privacy is mandatory

motivational aspects

motivational aspects
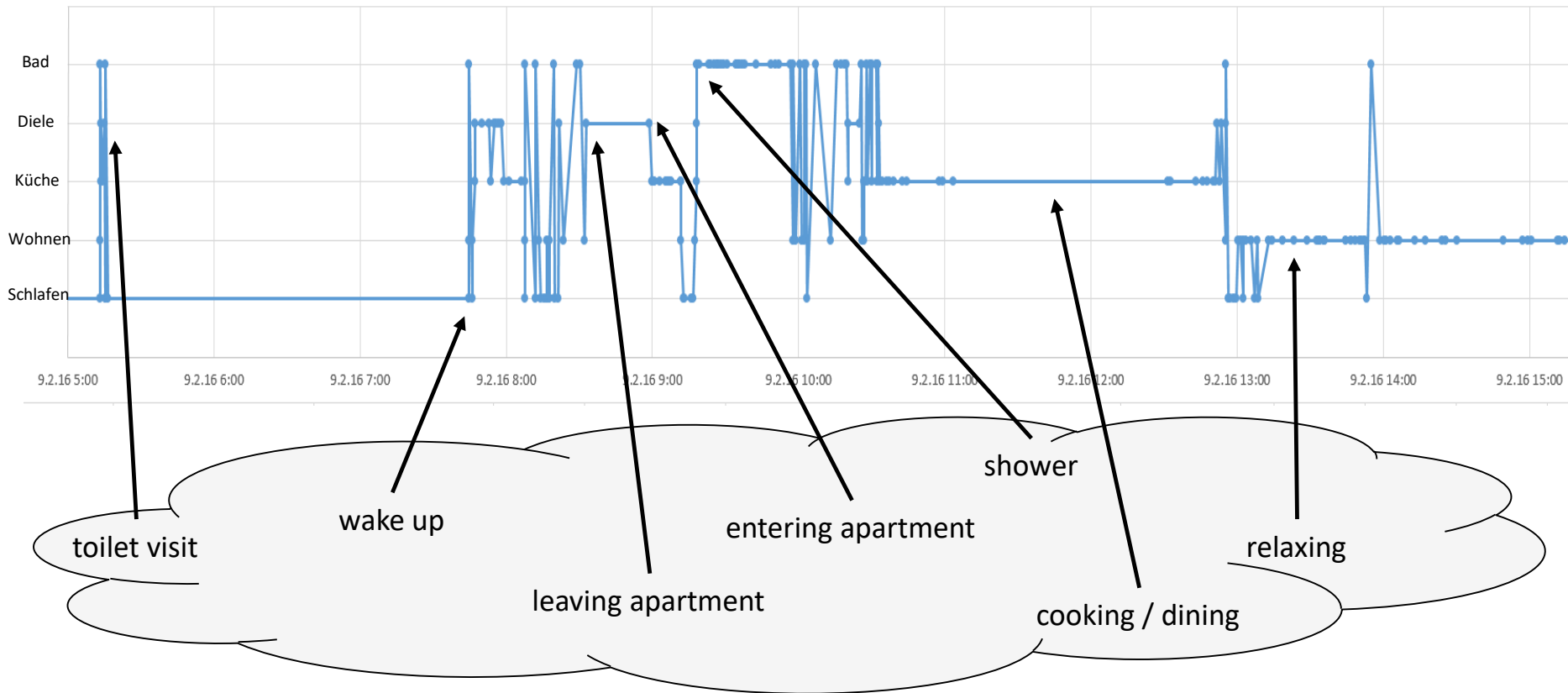
companions

Assisted Home Solutions

- sales & marketing
- project planning & monitoring

Fraunhofer IGD Darmstadt

- research in AAL systems & platforms
- collaboration in capacitive and eps sensors

MartinMajewski.net

- 3d printing specialist
- housing for custom sensor solutions

current projects

Johanniter-Quartier Rodgau

- assisted living for elderly persons
- 50 apartments with aal instances
- based on OH2 / ESH

Wohn- und Quartierzentrum Weiterstadt

- fully equipped AAL pioneer building
  (including an intelligent touch sensitive floor)

- heterogeneous IT infrastructure
  (universAAL, OH2, WAGO SPS, SIP)

future topics for openhab2 – SIP binding

- ip telephones become more and more important
  → DTAG is replacing analogue connections with voip

- asterisk / freeswitch / fritzbox bindings already exist
  however: only status of calls and light switching is supported

- idea:
  use openhab as a ip telephone (maybe over asterisk?)

- good luck finding a powerful open-source SIP library (or s.th. similar)

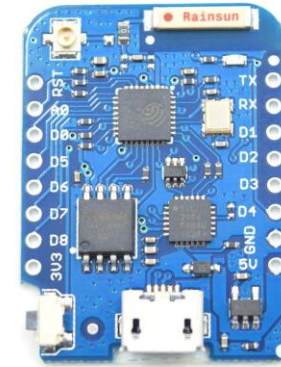# future topics for openhab2 – esp8266 binding

- esp8266 is a cheap iot wifi chip
  → get wifi on your sensors/actors for 5$!

- programmable in arduino C
  (amongst others)

- different frameworks / libs available,
  e.g. „Homie"
  https://github.com/marvinroger/homie-esp8266
  https://community.openhab.org/t/framework-homie-for-esp8266/8674

- but: based on mqtt, no support for pairing / discovery

- idea:
  provide an esp8266 binding with WPS push button support for inclusion

- shortly in development by master student Jan Troester

WEMOS D1 Mini Pro

future topics for openhab2 – ui for „weekly planning"

- oh2 has different UIs for individual tasks:
  - PaperUI for setup / thing parameters
  - Basic UI for controlling (sitemap concept)
  - HABmin for z-wave networks and charts
  - HABPanel dashboard interface with integrated designer

- no UI (concept) for week plans?
  - heating thermostats
  - rollershutters
  - various household appliances

- at the moment:
  - managed by sub-system
    → (partly) ugly, not consistent

  - oh2 rules
    → not applicable for „normal users"
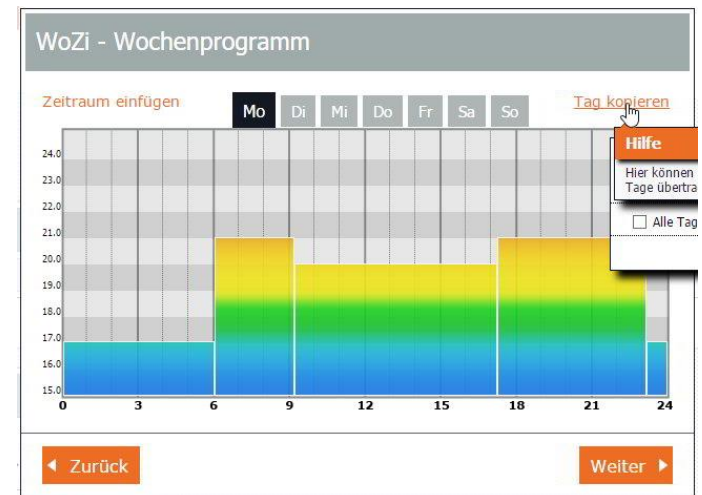
Thank You!

info@assistedhome.de
www.assistedhome.de