

Smart Mug

Presentation 1: Concept

Albert-Ludwigs-Universität Freiburg



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Motivation



- I don't want to wait for the waiter/waitress to order new beer!



- Beer level sensing
 - By weight, by capacitive sensing, ...
- Connect mug with smartphone
 - Bluetooth LE
 - Barcode, RFID
- Order by app and color of mug
- Live data for bar keeper
- Interactive drinking games

- Measure beer level
 - By weight, by capacitive sensing, ...
- Connect mug with smartphone
 - Bluetooth LE
 - Entering mug ID into app
- Order by color of mug

Plan C



- Connect mug with smartphone
 - Bluetooth LE
 - Entering mug ID into app
- Order by color of mug

Plan D – Worst case



If neither wireless communication nor measurement works ...



Next steps / work plan



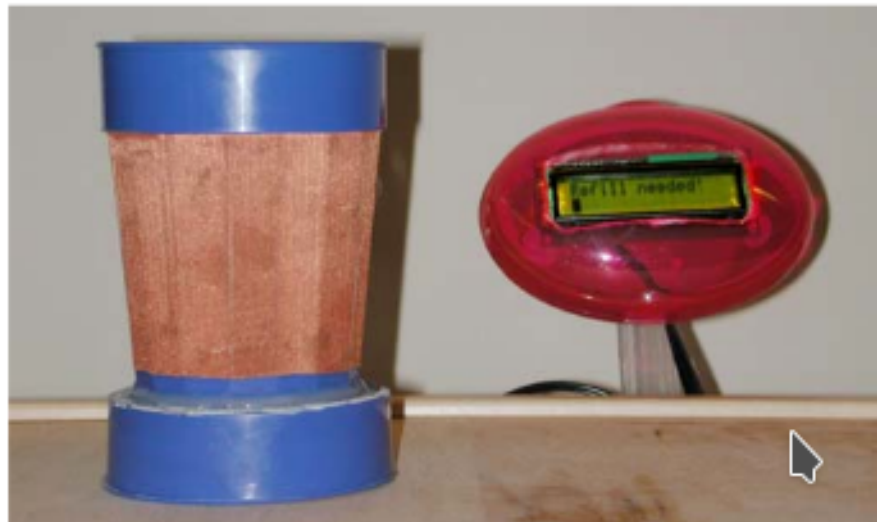
15.11.	Present (initial) selection of HW: <ul style="list-style-type: none">- Sensor(s)- Bluetooth module
22.11.	Start SW implementation sensor reading, BLE connection Start HW schematic, layout
29.11.	Continue ...
6.12.	Prepare for mid-term presentation: SW: sensor reading, BLE connection HW: schematic, layout ready

Next steps / work plan

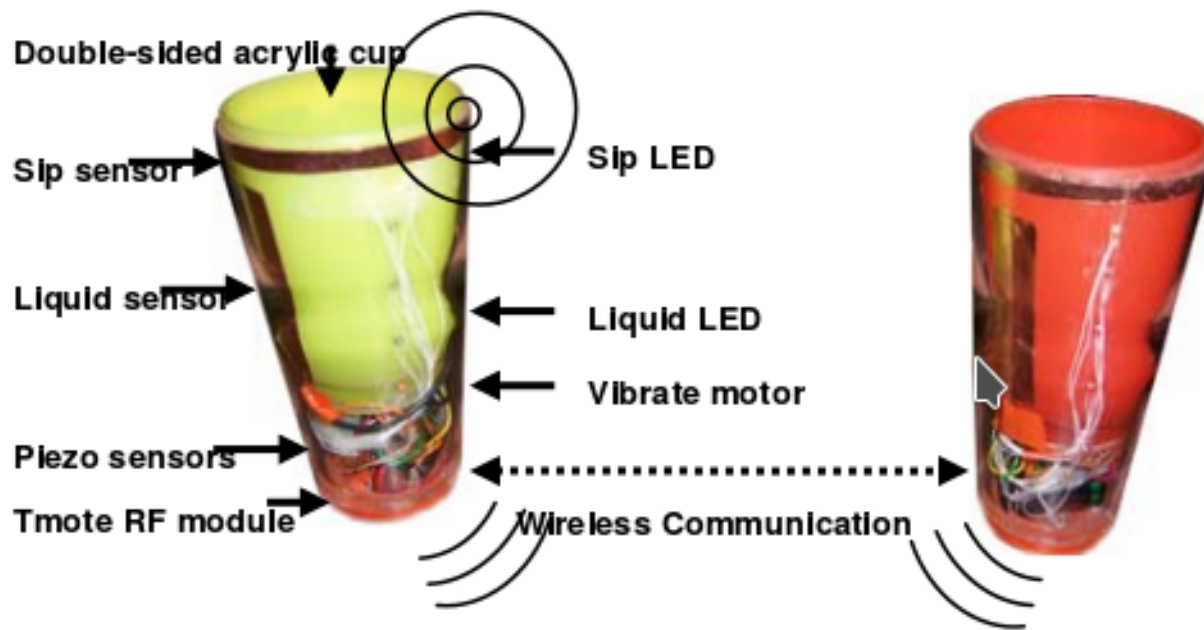


20.12.	First HW prototype ready
10.01.	Extend SW parts: order by app
17.01.	Extend SW parts: Connect to bar tender, display filling level
24.01.	Debugging / bug fixing
31.01.	Finalize debugging / bug fixing Report / Poster
07.02.	Project finalization

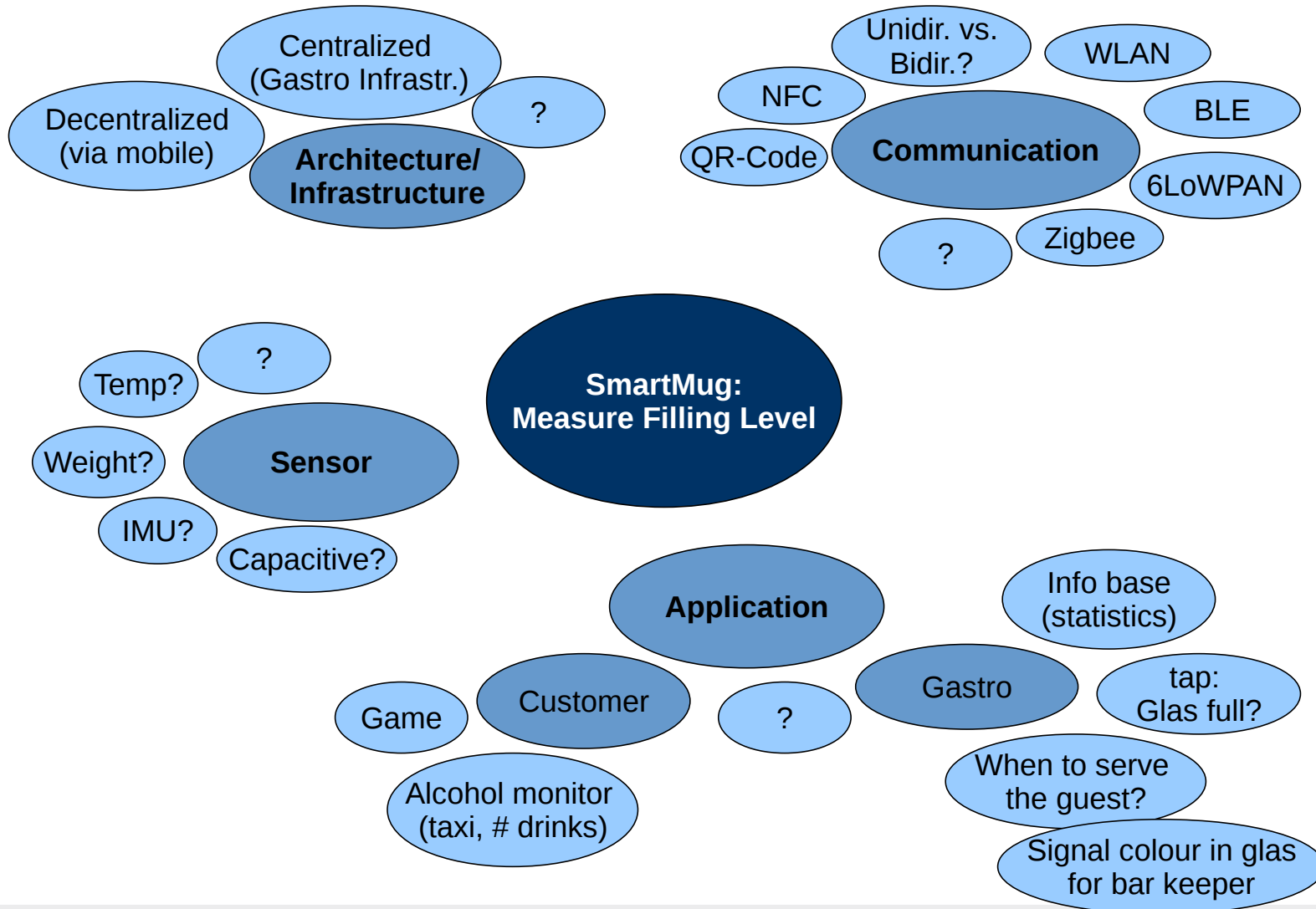
- Wireless Liquid Level Sensing for Restaurant Applications (iGlassware)



- Lover's Cups: Drinking Interfaces as New Communication Channels



Appendix



Dieses Folienlayout bitte nur verwenden, um großformatige Abbildungen wie in diesem Beispiel zu zeigen.

Es ist nicht für Texte etc. vorgesehen.