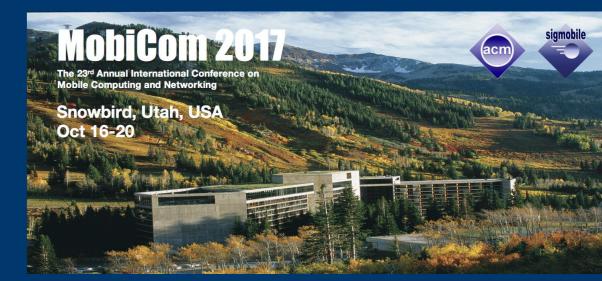
## Location-based Wi-Fi Services (LoWS) Mobicom 2017 Conference Program Information Service



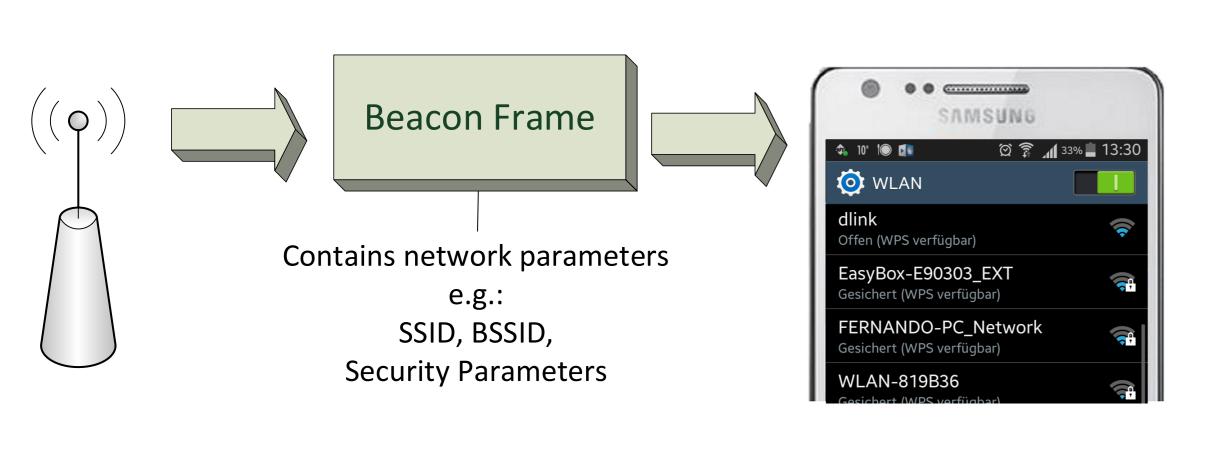
How does it work?



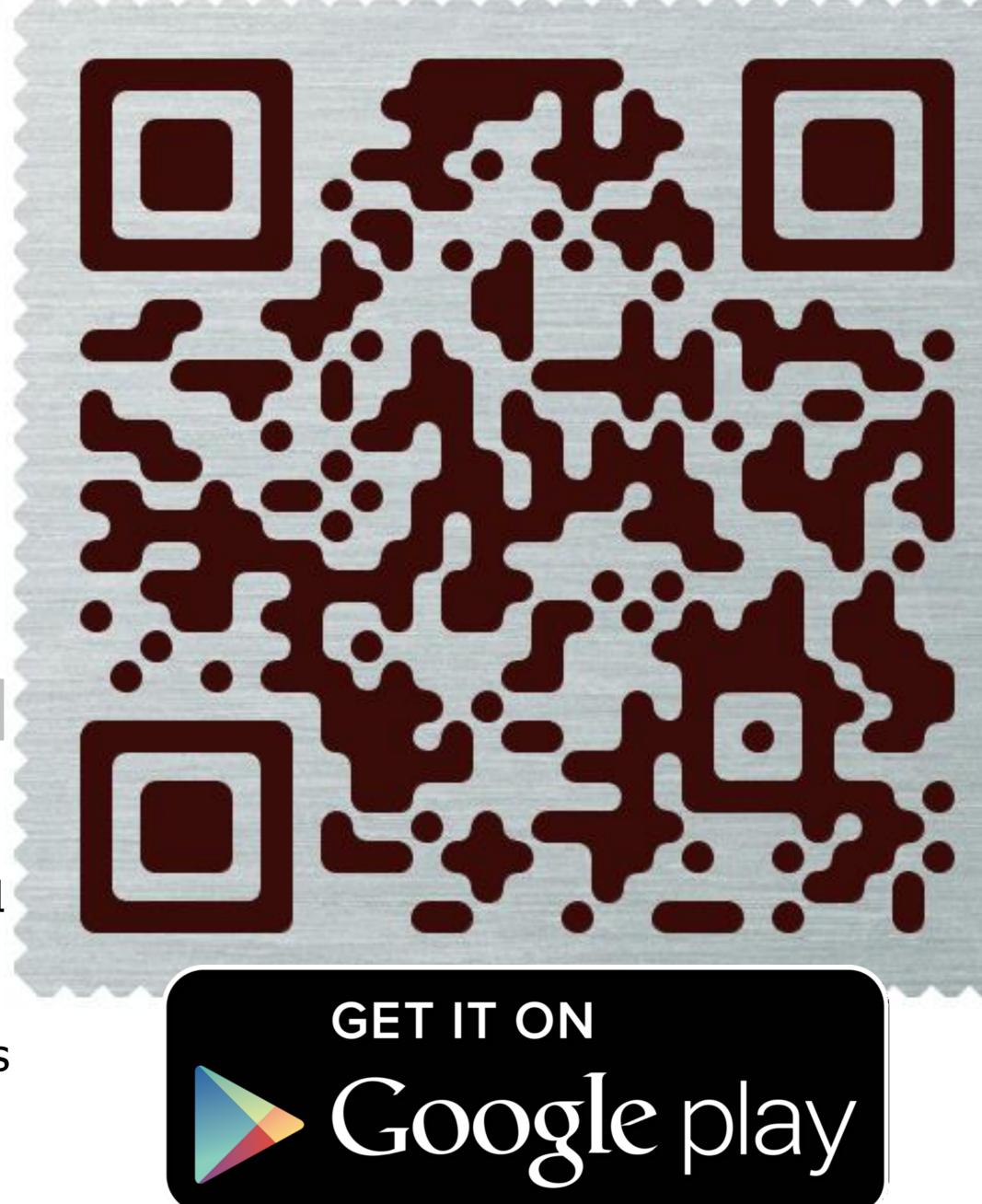
Sven Zehl, Anatolij Zubow and Adam Wolisz {zehl, zubow, wolisz}@tkn.tu-berlin.de Department of Telecommunication Systems, Technische Universität Berlin



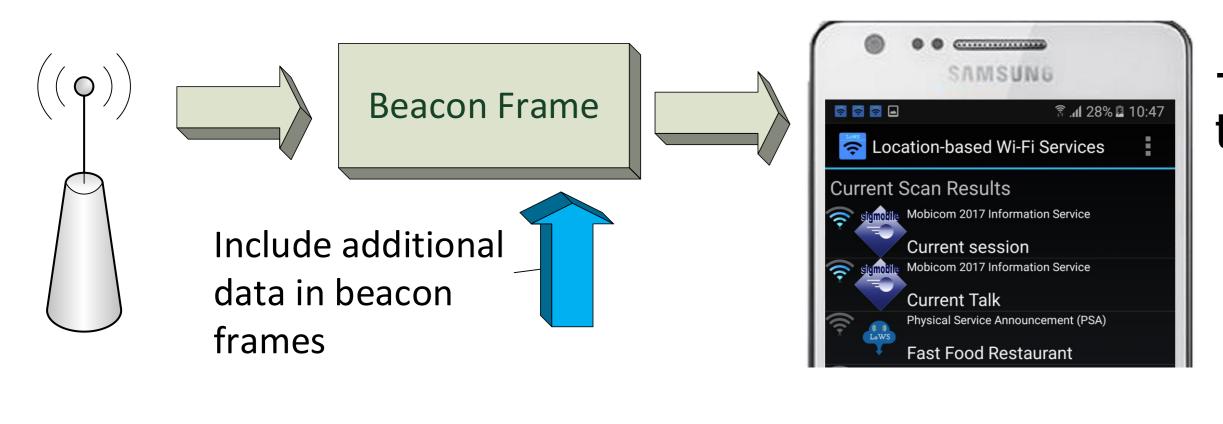
## Download our Location-based Wi-Fi Service (LoWS) app and receive the Mobicom 2017 conference program live over-the-air without Internet connection!



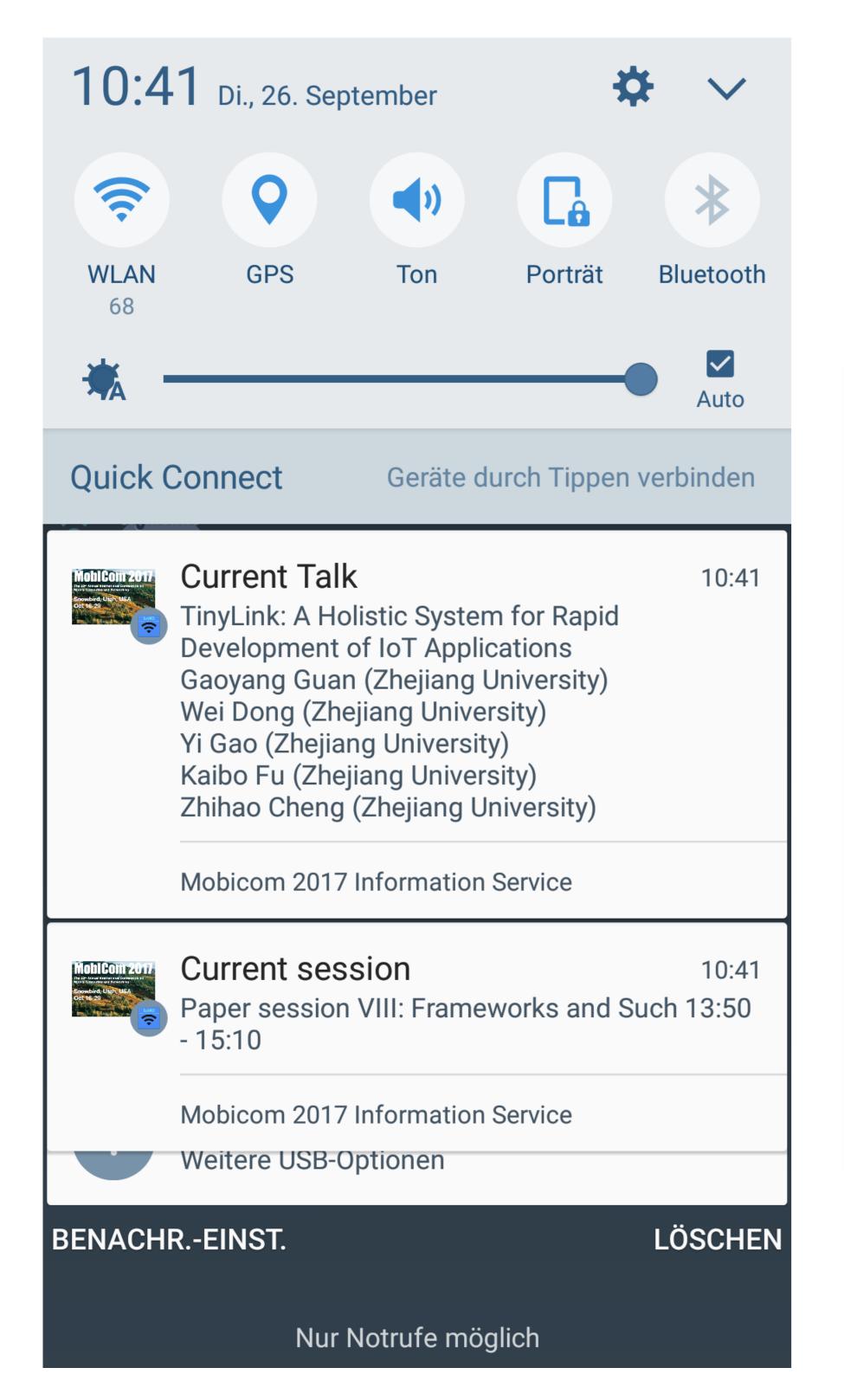
- To enable Wi-Fi clients to discover Wi-Fi APs in their vicinity, IEEE 802.11 APs are announcing their presence by broadcasting beacon frames.
- Client devices receive beacon frames through automatically triggered background scans.



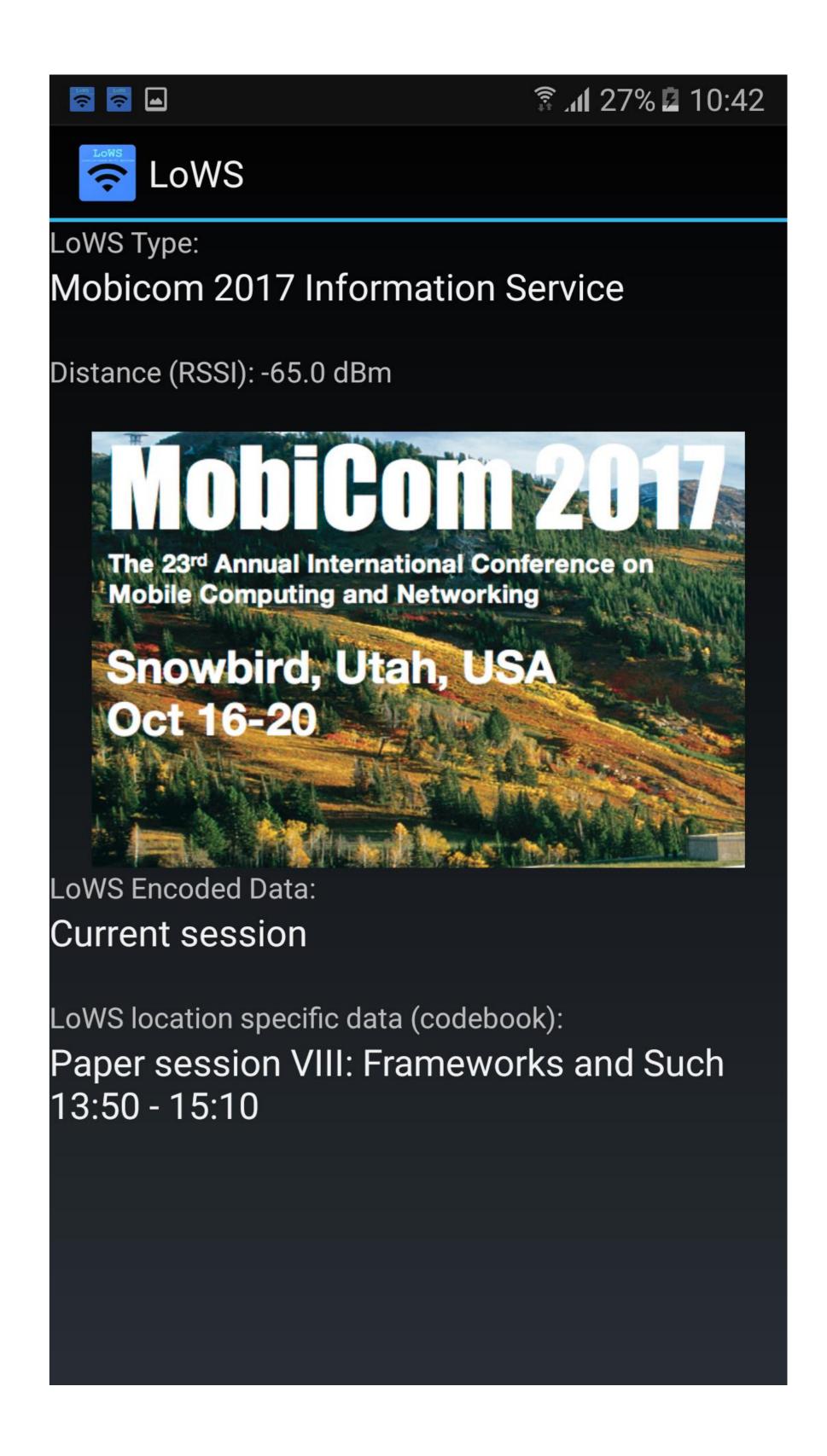
Wi-Fi Beacon Stuffing: Exploit Beacon Frames to transport Location-based Service Data!



- Using Wi-Fi beacon stuffing enables to transmit location-based information from Wi-Fi AP to Wi-Fi client without the requirement of:
  - Clients to associate
  - Clients to have Internet access
  - Clients sharing their location information
  - Any additional hardware or software for clients and APs!







Don't miss our **interactive LoWS demonstration** (Fire Emergency, Over the air advertisements, etc.) on **Tuesday October 17, 5:35pm, Primose Room, Level C!**