

Platform Circuit Technology Underlying Heterogeneous Nano and Tera Systems Q. Huang (PI), C. Dehollain (CoPI), Ch. Enz (CoPI)

PlaCiTUS



Internet of Things

Collection of physical devices talking to one another without human intervention - introduced into networked systems

Placitus Sensor Network Example



RTD 2010

- Data link on different frequency

- Short distance wireless link for data transfer to central network node



CSEM: Short Range 2.4GHz Radio Demonstrator

- First complete MEMS-based radio transmitter
- Combined with CSEM icycom digital baseband SOC
- Very fast wake-up and turn-around time



ETHZ: Wireless ECG Data Acquisition Demonstrator

- Using low power versatile biomedical front-end IC of ETHZ
- Digital signal processing and conditioning for data reduction
- Bluetooth or cellular link for wireless communications



