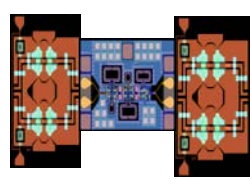




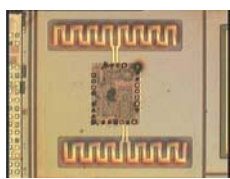
RESEARCH ON INTEGRATED WIRELESS INTERFACE FOR SMART SYSTEMS

EU funded projects: e-CUBES, ADOSE, ULTRA, AMICOM, RF-Platform, HiMission. Nordic funded: MOSART, NAME

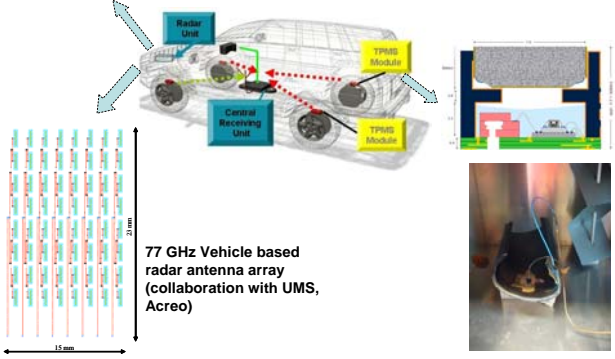
Automotive applications



RF MEMS reconfigurable 24 GHz SiGe radar front-end (RF Platform)

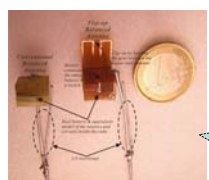


24 GHz Antenna integrated radar on micromachined low-ohmic silicon (AMICOM)

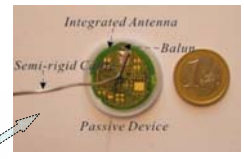


Antenna integrated tire pressure sensor (collaboration with Infineon)

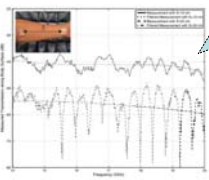
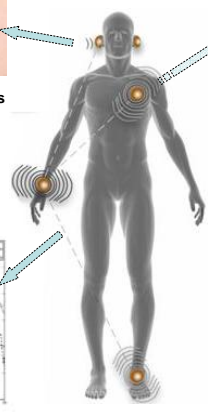
Body area network and biomedical applications



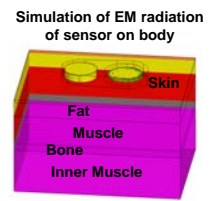
Flip-up antenna for sensors (e-CUBES)



Antenna integrated health and fitness sensors (collaboration with Philips)



Measurements of on body propagation at 17 GHz

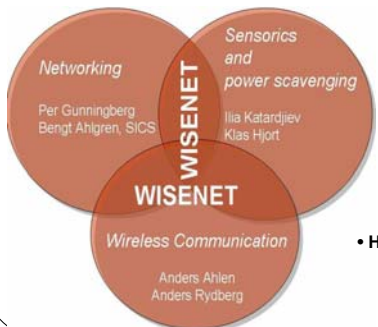


Simulation of EM radiation of sensor on body

Uppsala Center in Wireless Sensor Networks (WISENET)



Competencies



Applications

- Marine monitoring
- Transport Railroad
- Health & medical care



Example on development of wireless interface for hostile environments: Body Area Networks (BAN)

