



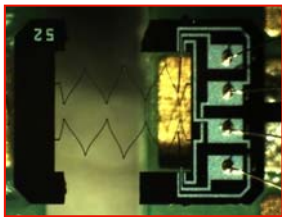
FP7 Coordination and Support Action to fund 50 technology transfer projects (TTP) in computing systems. This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement n° 609491.

Contactless smart MEMS-based piezo-resistive sensor (COSMOS)

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TTP Problem

MEMS sensor



Wired communication



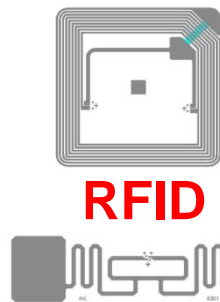
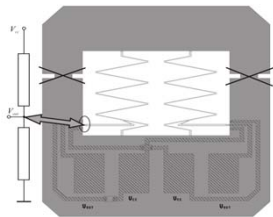
- NEEDS:**
- Bulky and space-demanding electric wiring
 - Power consuming components
- RESULTS IN:**
- No wireless communication
 - No energy harvesting
 - No identification/personalization
 - High materials consumption

TTP Solution

W

Radio-Frequency Identification

MEMS sensor

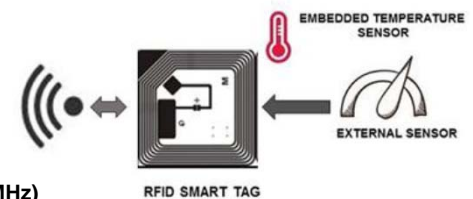


NFC (13.56MHz)

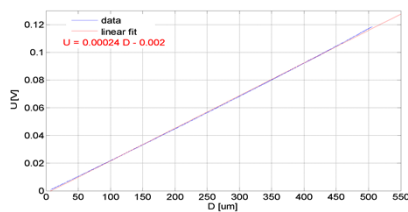
RFID

UHF (868/950MHz)

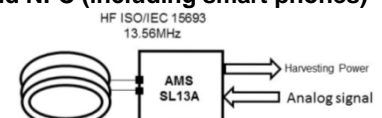
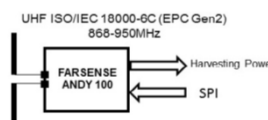
Smart RFID sensing



MEMS-based Load cell characteristic

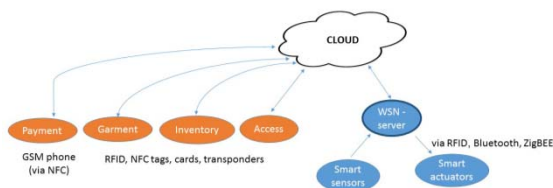


Reading units for UHF and NFC (including smart phones)

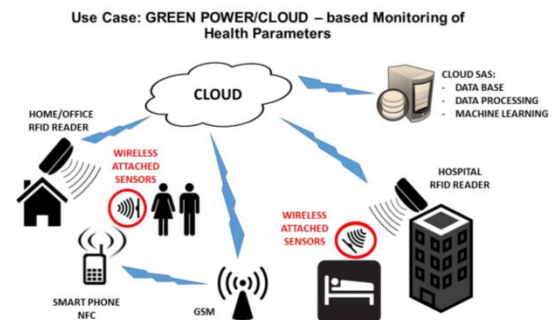


TTP Impact

Global System for Tag Management (GSTM)



IOT (Internet Of Things)



TTP Facts

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TETRACOM contribution: 13 000 EUR
Duration: 1/01/2016-031/06/2014

