International Brokerage Event Istanbul 30/11/2016



MCS Data Labs GmbH Simon HOHBERG simon.hohberg@mcs-datalabs.com

This presentation is for

☐ Workshop	1	Big	Data
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- ☐ **Workshop 3** Photonics and Micro-and-Nanoelectronics
- ☐ Workshop 2 Robotics
- ☑ Workshop 4 internet of Things

Description of MCS Data Labs





MCS Datalabs was incorporated as a limited company in 2012 under German law.

Research and innovation driven: VoIP, emergency communications, IoT (sensors and apps), (Big Data Analytics)

WiBack

EMYNOS

SmarKo

(Big Data)

Located in Berlin (Germany), 9 staff

Consortium member of H2020 EMYNOS project (nExt generation eMergency communications

MCS research interests



Research Interests

Big Data, eHealth/ environment, next generation 112, internet in remote areas, IoT (smart wearables),

Research Team

Emilio CUBA		
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Simon Hohberg

Prof. Dr. Karl JONAS

Kai KRUSCHEL

Prof. Dr. rer. nat. Adrian PASCHKE

Prof. Dr. Raúl ROJAS

Prof. Dr. rer. nat. habil. Bernd-Holger SCHLINGLOFF

Web & backend development

Next generation 112, Big Data, Deep Learning

Information Technology/ Multimedia Communications Hochschule Bonn-Rhein-Sieg, St. Augustin (Germany)

> Embedded software development Smart wearable devices

Mathematics Freie Universität Berlin (Germany)

Computer Sciences (Articifial Intelligence)
Freie Universität Berlin (Germany)

Information Technology
Humboldt-Universität Berlin (Germany)

EMYNOS

Next generation emergency communications



- Goal: design and implementation of a Next Generation 122 (NG112) platform
- Next generation: all-IP calling
- New opportunities like video calling, instant messaging and transmission of sensor data → next generation eCall
- Next generation eCall
 - · Sending of arbitrary sensor data
 - · Live streaming of sensor data
 - Misc. end-devices (IoT)





SmarKo Health

Smart Wearable & eHealth Platform



- MCS´ SmarKo is a wearable device that allows to collect vital data (heart rate, body temperature, blood oxygen saturation)
- The SmarKo platform connects patients and doctors (vital data and RTC)

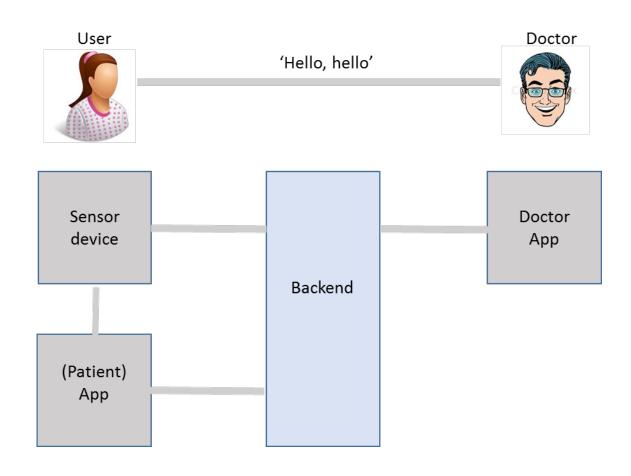




SmarKo Health

- Smart Wearable & eHealth Platform





IoT-03-2017 (RIA) R&I on IoT integration ... Common eHealth platform for medical devices



- Objectives:
 - To further develop MCS' SmarKo platform using sensor data for smart behaviour/ integrate actuators using the sensor data
 - Implement high security/ data privacy standards
- Expected results
 - Usage of sensor data for smart behavior
 - End-to-end encryption of sensor data

Consortium - required partners



No	Expertise	Type	Country	Role in the project
01	Big Data Analytics	RTD		Performing Data Analytics
02	Legal advisors, consulting firms	SME		Legislative environment/ data security
03	Health care providers	IND		Needs' assessment
04	Medical experts/ experts of other sectors			Needs' assessment; content provision; testing
05	Patient and Professionals' research			Test market readiness
06	Hardware developers			Sensor data technology
07				
08				



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