



2020



CELTIC-EUROGIA

Proposers Day

29th January 2020, at Nokia Premises in Madrid

Pitch of the Project Proposal

AI on the edge for people



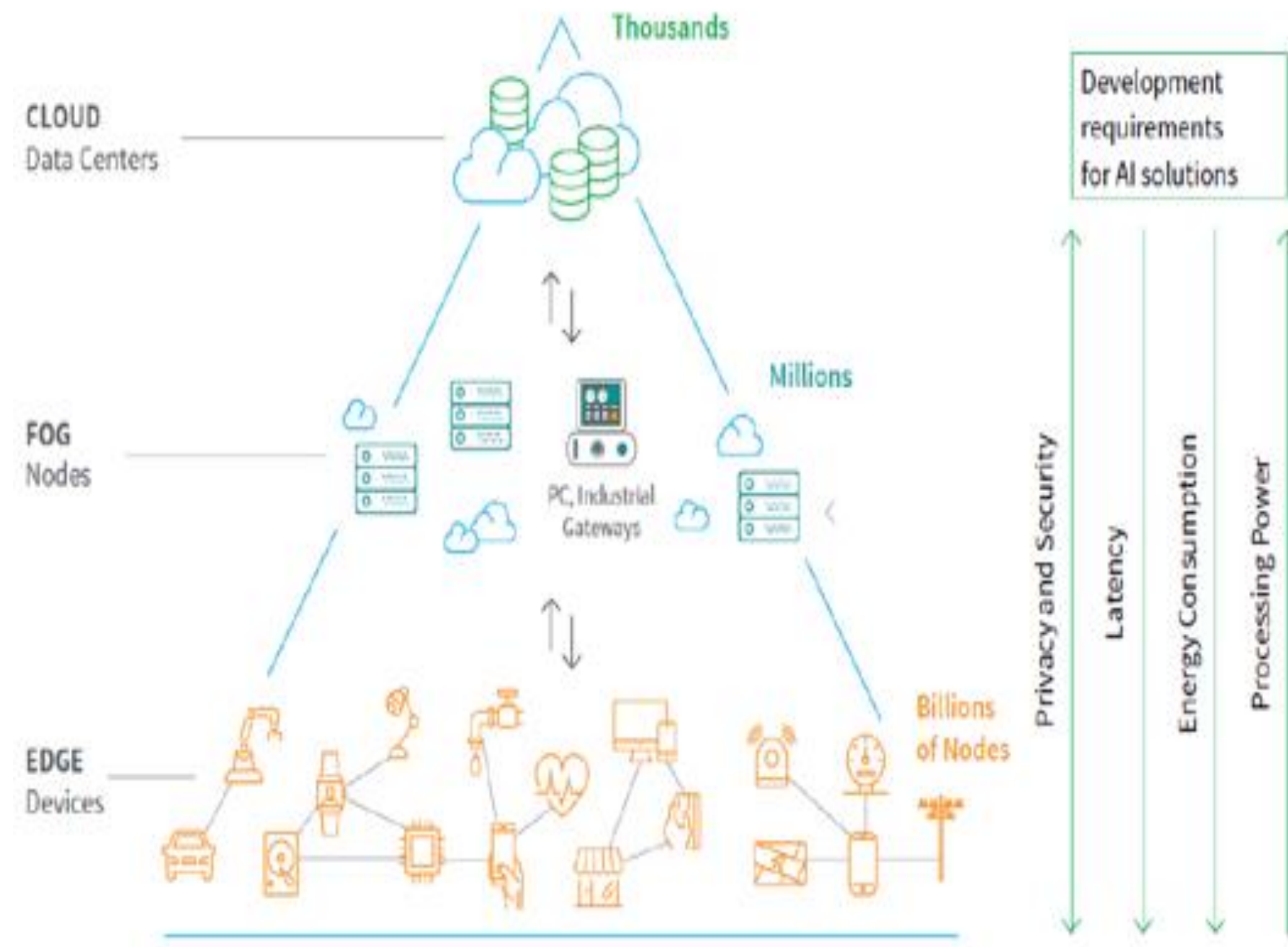
Jesus Alonso, Researcher
jesus.alonso.viana@gmail.com



DSPG smart AI on the edge

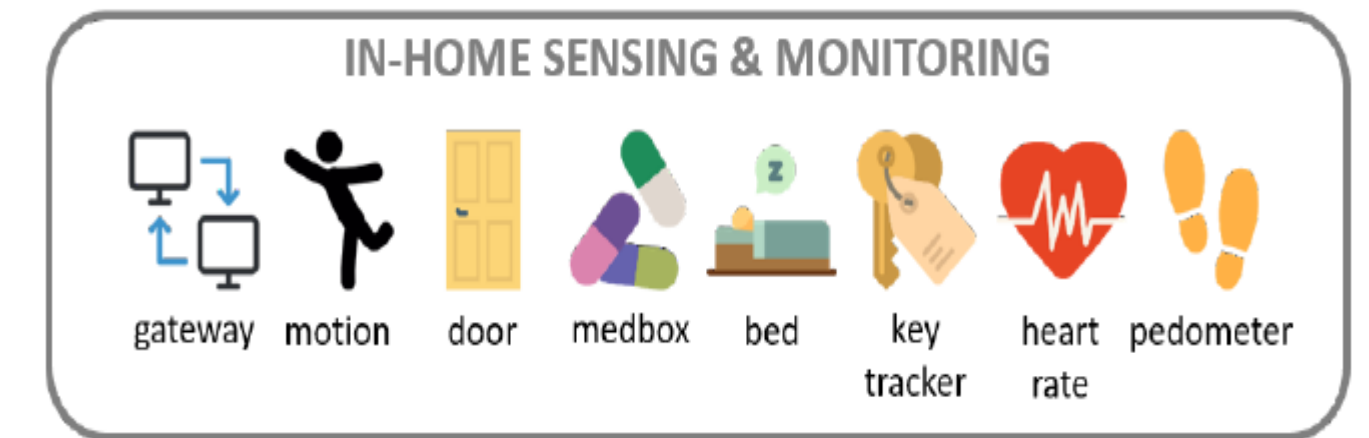
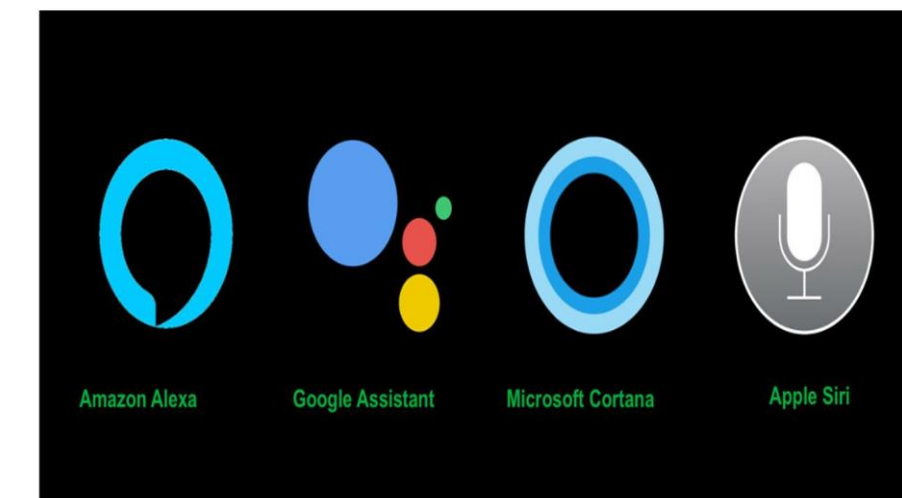


AI on Cloud, Fog and Edge



Wearable/Hearable and IoT Device AI on the edge Plan , advance services for people

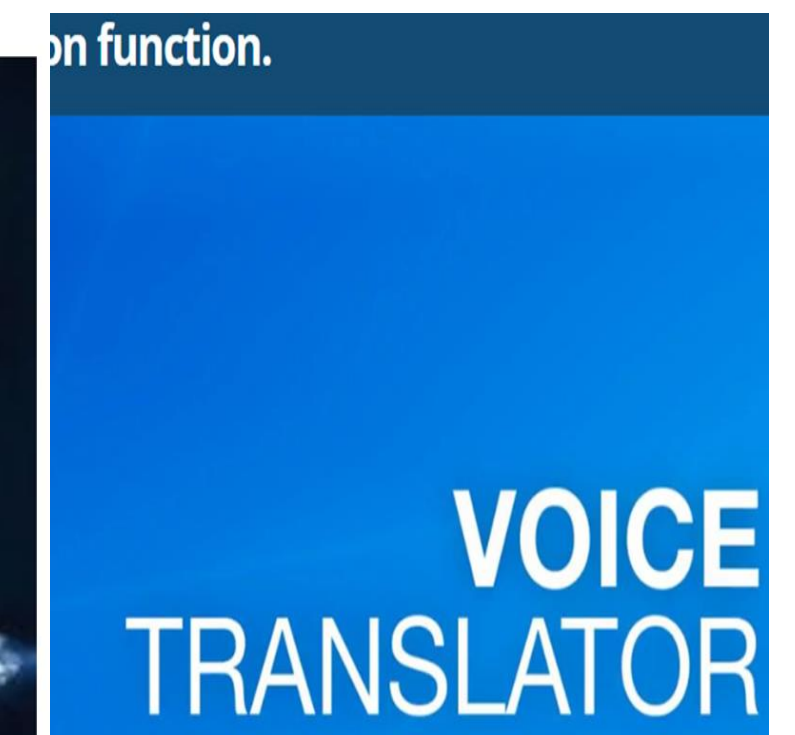
#5 Trends: Ai-Voice assistant always on.



#7 Trends: Biometrics and Health



#9 Trends: Voice Biometrics Authentication.



DSP Group

DSP Group®[®], Inc. (NASDAQ: DSPG) is a leading global provider of wireless chipset solutions for converged communications. Delivering semiconductor system solutions with software and hardware reference designs, DSP Group enables OEMs/ODMs, consumer electronics (CE) manufacturers and service providers to cost-effectively develop new revenue-generating products with fast time to market.

Better people and environment services

Smart SoC with low power AI on edge focus on people services

- **Enables end-users to use their devices** (Smartphones, Tablets, PCs, Smartspeakers, Smarthome, Wearables and IoT) **always & anywhere** with **outstanding user-experience**
 - AI / ML algorithms
 - **Voice control, Voice call, Awareness Detection** (Proximity, Gesture, Sound Type Detection, Sensor Fusion) and **Seamless communication via sound**
 - **Low power** from the battery even in always-on modes

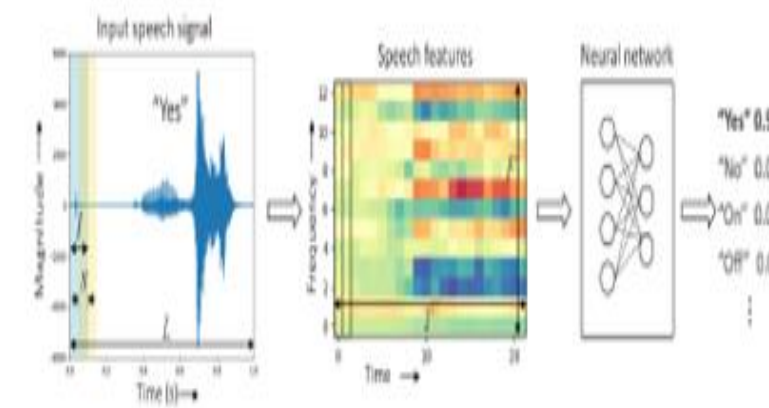
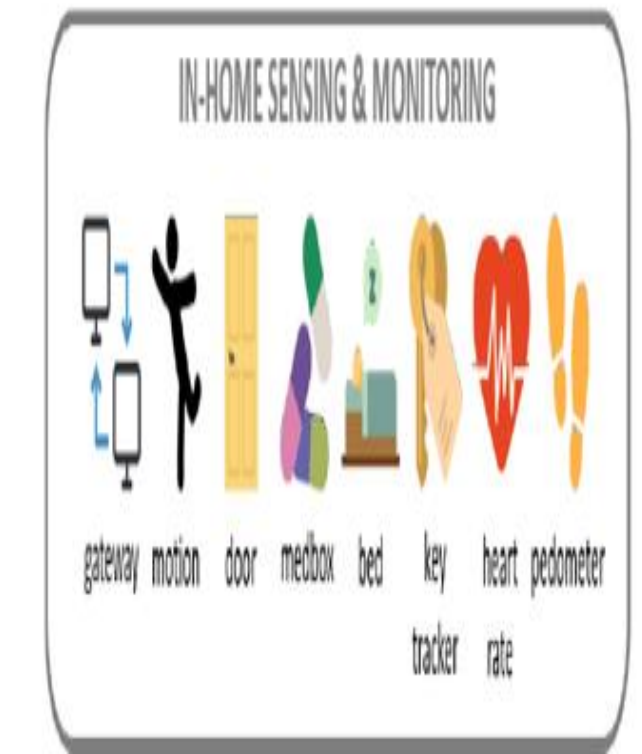


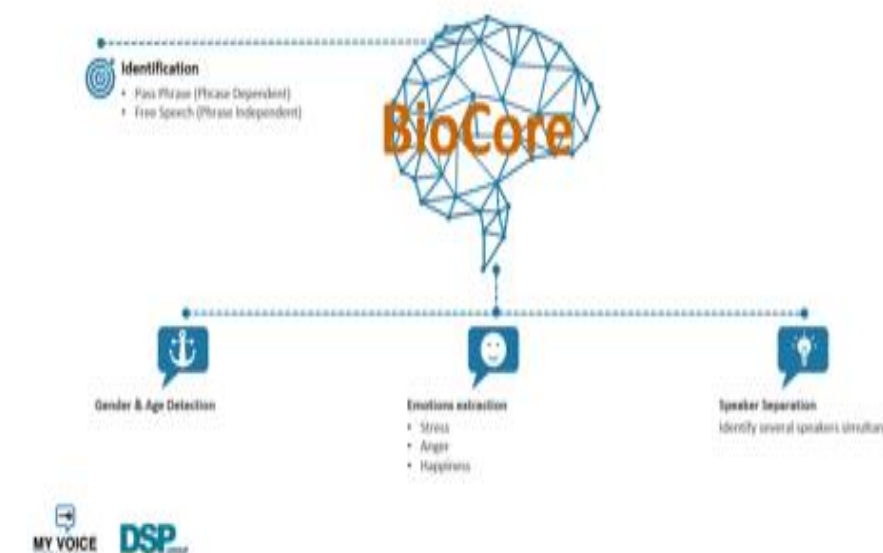
Figure 1: Keyword spotting pipeline.

Voice local commands

Sound classification



Voice authentication



Ultrasound proximity and Gesture

Main Principle

- Ultrasonic signal is transmitted from the earpiece (20 kHz – 24 kHz).
- The microphones receive the signal.
- Due to reflections, the recorded signal changes when an object is close.



DSP Group Confidential and Internal Information



Proposal Introduction



In combination with partners we will develop devices that included DSPG SoC to be used in IoT, eHealth and sport advanced services.

The project will impact the people's interaction with machines that improve health and day to day activities ,

Schedule of the project : 36 months

Partners

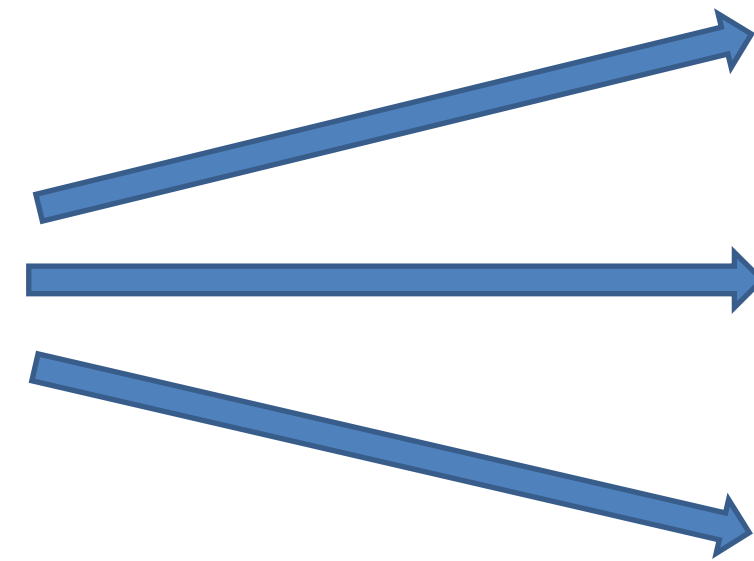


Project leader DSPG (Israel)

We are looking for:

- Integrators of our System on Chip (SoC): wearables, IoT, medical devices
- Service providers in the domains of IoT, eHealth, sports

Please choose :



Join the follow-up Telco

5 February 10-10:30 CET

Meeting number :142 230 308

Meeting password: NqDMBtPj739

Link to join:

<https://eurescom-meetings.webex.com/eurescom-meetings/j.php?MTID=m658aba0afb1cd488d0da75f265e77b3f>

Join by phone

[**+49-6925511-4400**](tel:+49-6925511-4400) Germany toll

[Global call-in numbers](#)

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Contact Info



For more information and for interest to participate please contact:

Jesús Alonso, Researcher
jesus.alonso.viana@gmail.com
+34.640.510.812
Postal Address
www.dspg.com



Presentation available via:

