CELTIC-EUROGIA
Proposers Day
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Pitch of the Project Proposal
AI on the edge for people

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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

AI on the edge for people, Jesús Alonso
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’s and environmental 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
In combination with partners we propose developing devices on top of DSPG SoC to be used in IoT, SmartHome and eHealth 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
Consortium

Project leader DSPG (Israel)

- DSPG: Wide expertise in AI applied to voice command, SoC, ULE
- Companies from Turkey, Spain have expressed their interest in the proposal
- Target: to develop the next generation SoC with more advance AI on the edge technologies:
  - less power consumption AI
  - support imaging AI

Partners searched profile:
- Integrators of our System on Chip (SoC): wearables, IoT, medical devices...
- Service providers in the domains of IoT, eHealth, smarthome...

AI on the edge for people, Jesús Alonso
The meeting will take place via WebEx on

Wednesday, February 5, 2020
10:00 am | Europe Time (Berlin, GMT+01:00) | 30 mins

WebEx link:
https://eurescom-meetings.webex.com/eurescom-meetings/j.php?
MTID=m658aba0afb1cd488d0da75f265e77b3f
For more information and for interest to participate please contact:

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Presentation available via:
DSP Group
(est. 1986)
Leading global provider of voice AI and IoT technologies

>1B Products w/DSP Group Inside

1994 Publicly traded

#1 position in VoIP for Office and Enterprise

>200 patents filed/granted

10 locations

350 employees
SmartVoice Key Verticals and Market trends

**Tablets & PCs**
VUI (Voice User Interface) becomes interface of choice in tablets. Used to control smart home and entertainment applications.

**Cameras**
Voice is undergoing an change in terms of enhancing voice and audio user experience from Standard Definition to High Definition, from limited interface to VUI and a need for a natural, robust far field & two-way voice covering both indoor and outdoor conditions.

**TV/entertainment**
Voice activated TVs, RCU, OTT streamers and STB are gradually evolving from basic push to talk VUI, to a rich far field, always on and handsfree experience, supporting mid to far field voice activation. Low power VUI is becoming increasingly important for stand by devices like set top boxes and TVs to comply with Energy Star requirements

**Hearables**
The burgeoning market of smart wearables such as wireless earbuds with active noise canceling augmented hearing, and increased control over ambient sounds is propelling the demand for edge AI and active noise cancelling headphones.

**Smartphone**
VUI is integral part of smartphones, what started mainly in high end models has now become mainstream in mid-low end devices.
DSP Group: Products integrating SmartVoice Solutions

> 30 Vendors
> 70 products
> 80Mu shipped
Smart Home

### Market Trends

- The millions of homes where voice control has gained a foothold for smart home adoption will be a fertile ground for the wider adoption of a growing range of additional smart home devices.
- Security SPs need a reliable solution for 2-Way Voice to turn the home security system into a communications control center, covering the entire home with intercom and a direct audio channel.

### Winning Factors for ULE

- Interference free spectrum
- Superior range
- Natural two-way voice, minimal latency and guaranteed QOS
- Enhanced security