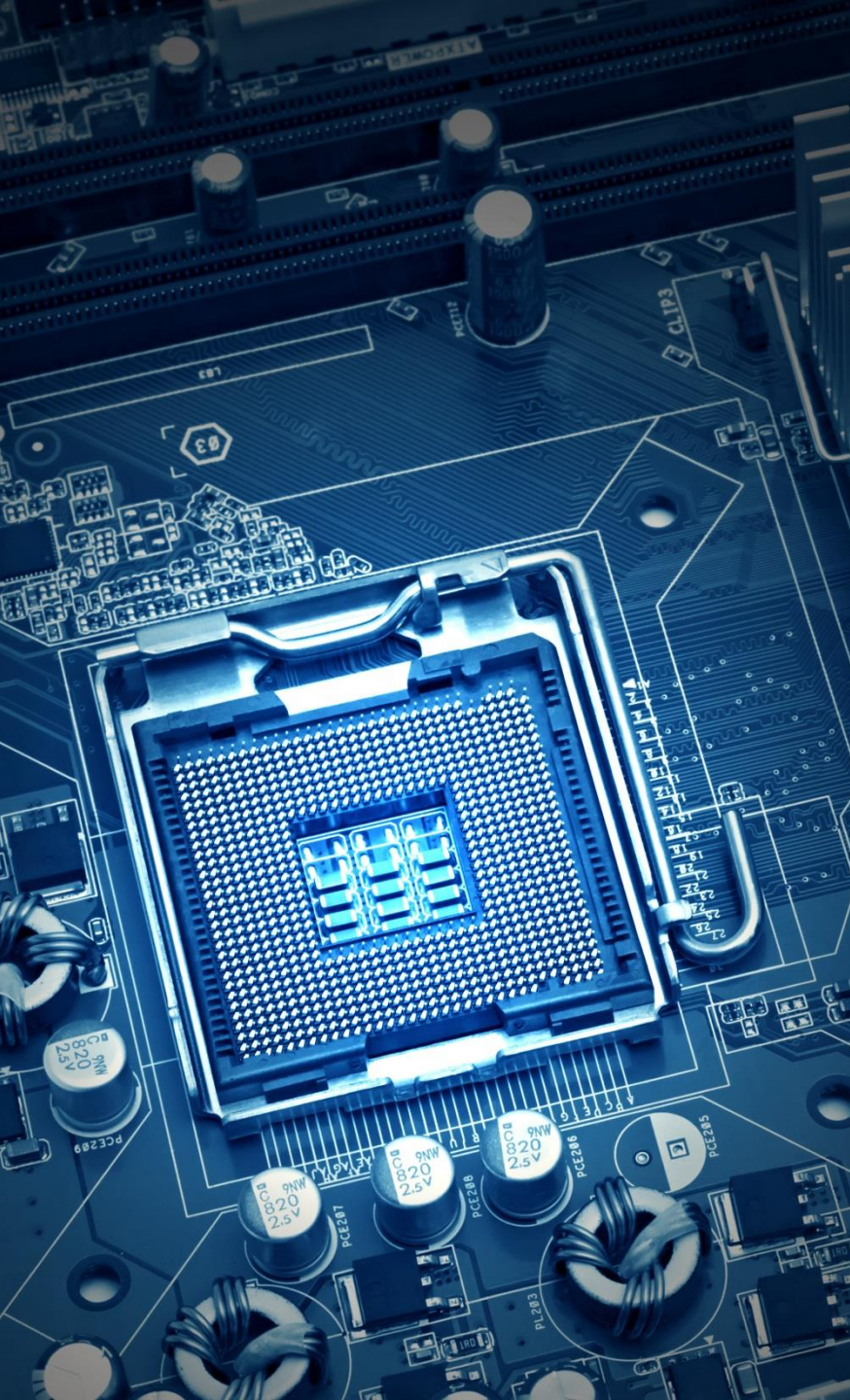


ECSEL – JU

Bert De Colvenaer
Executive Director





What is ECSEL?

Electronic Components and Systems for European Leadership

ECSEL

Joint Undertaking

a Public-Private Partnership
Keeping Europe at the Forefront
of Technology Development

Established by the Council Regulation (EU) No
561/2014

What is ECSEL? - Principles

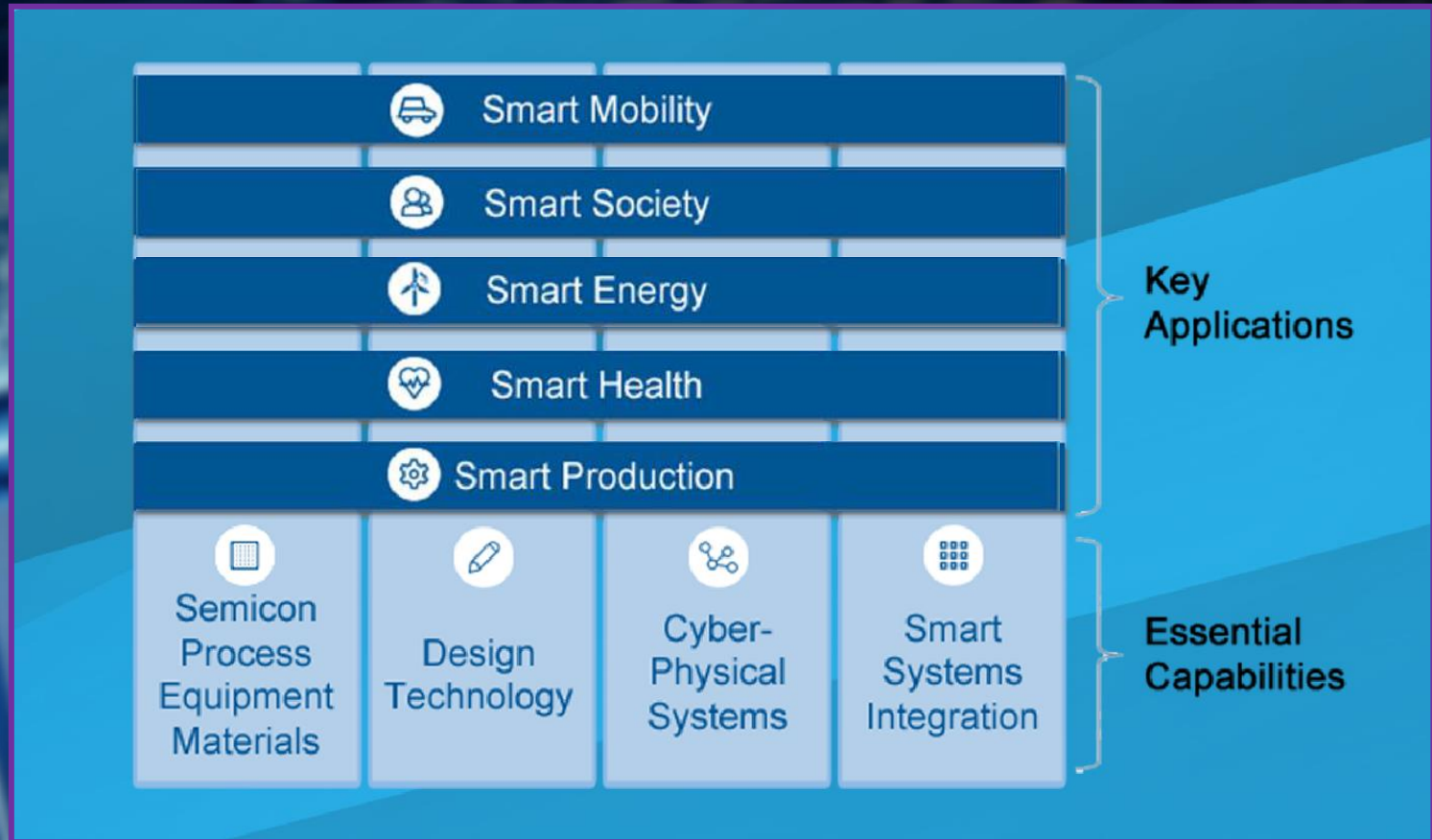
Implement Horizon 2020:

- Develop favourable conditions for investing in knowledge and innovation
- Achieve smart, sustainable and inclusive growth

PPP-model with 3-way funding:

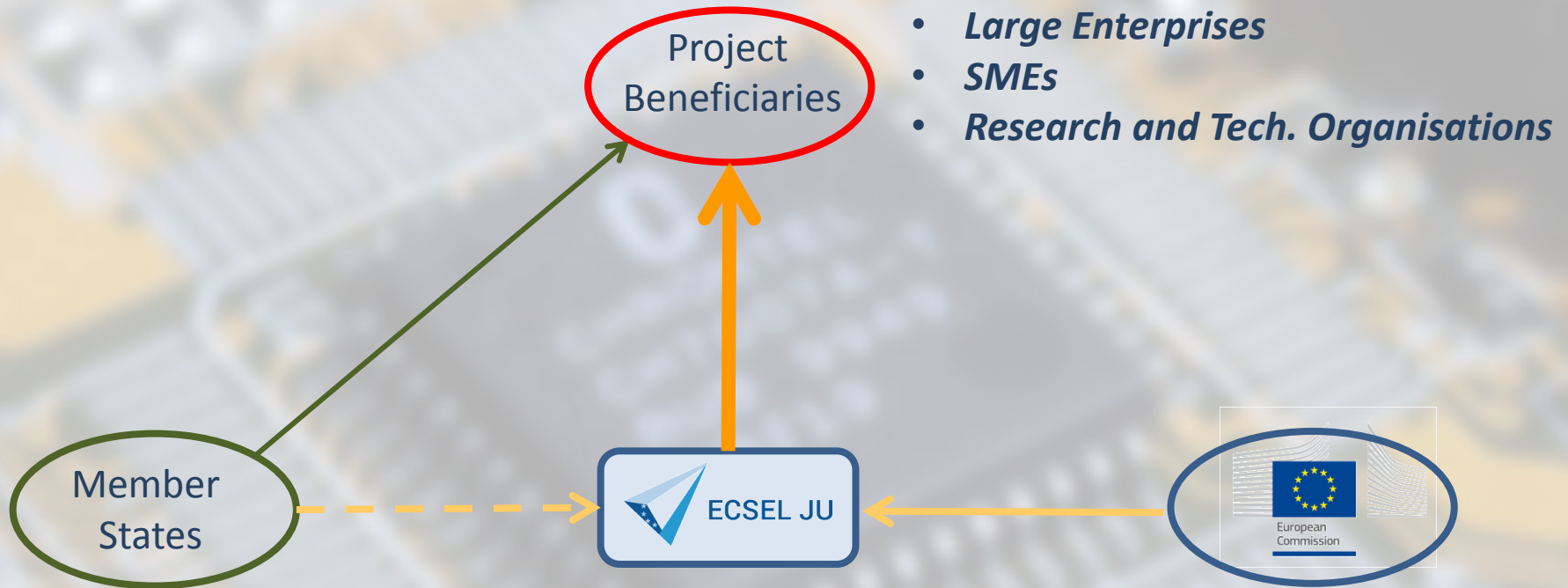
- The European Union (1.17B€, via EC/H2020)
- The ECSEL Participating States (>1.17B€)
- The Private Members (~ 5B€ minus grants)
- Build upon ARTEMIS/ENIAC JU experience and achievements

Why ECSEL ?

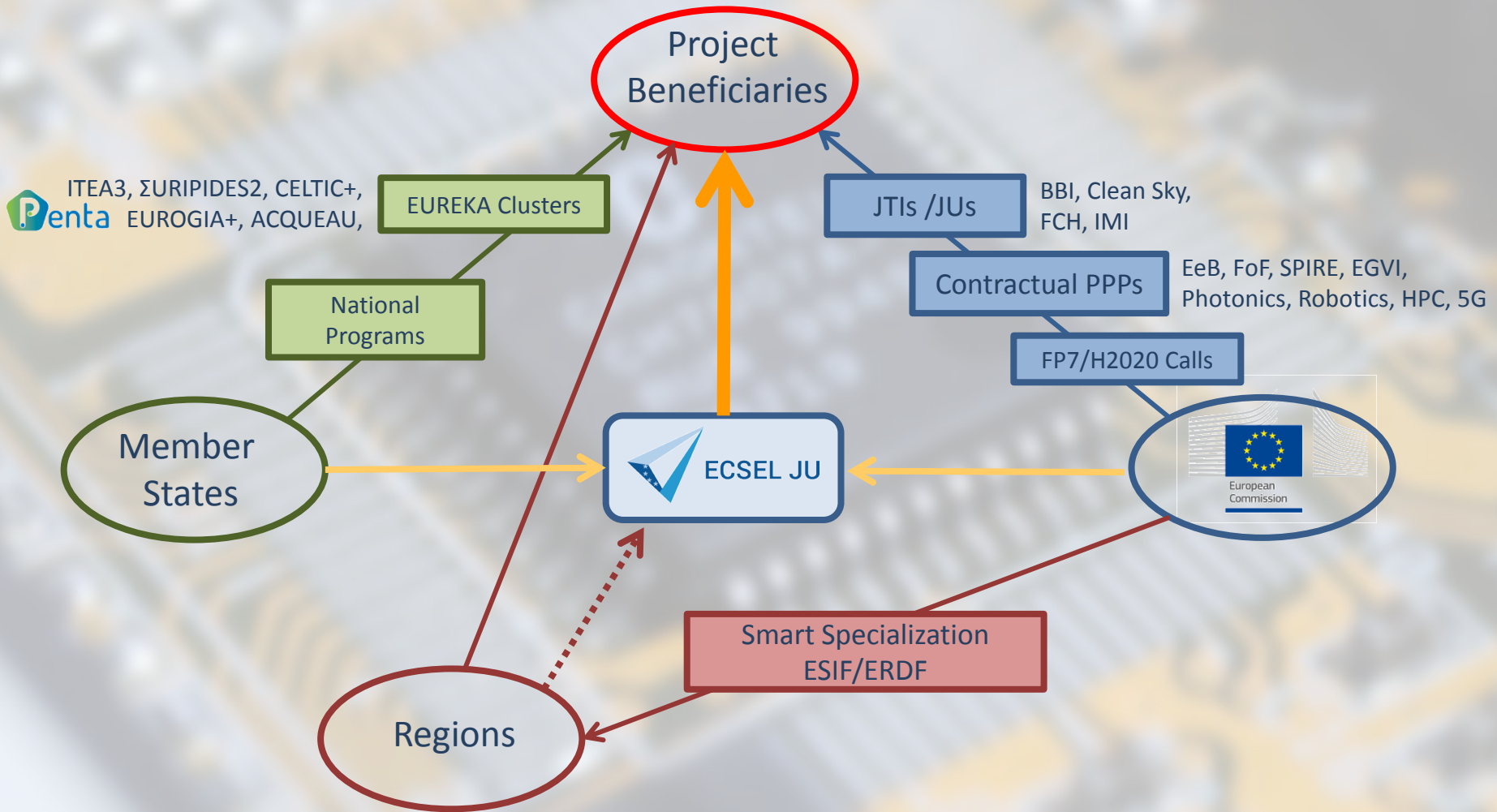


The ECSEL strategy

ECSEL JU funding: EU and National funding together



ECSEL JU funding: complementing other instruments



ECSEL funding rates (2016)

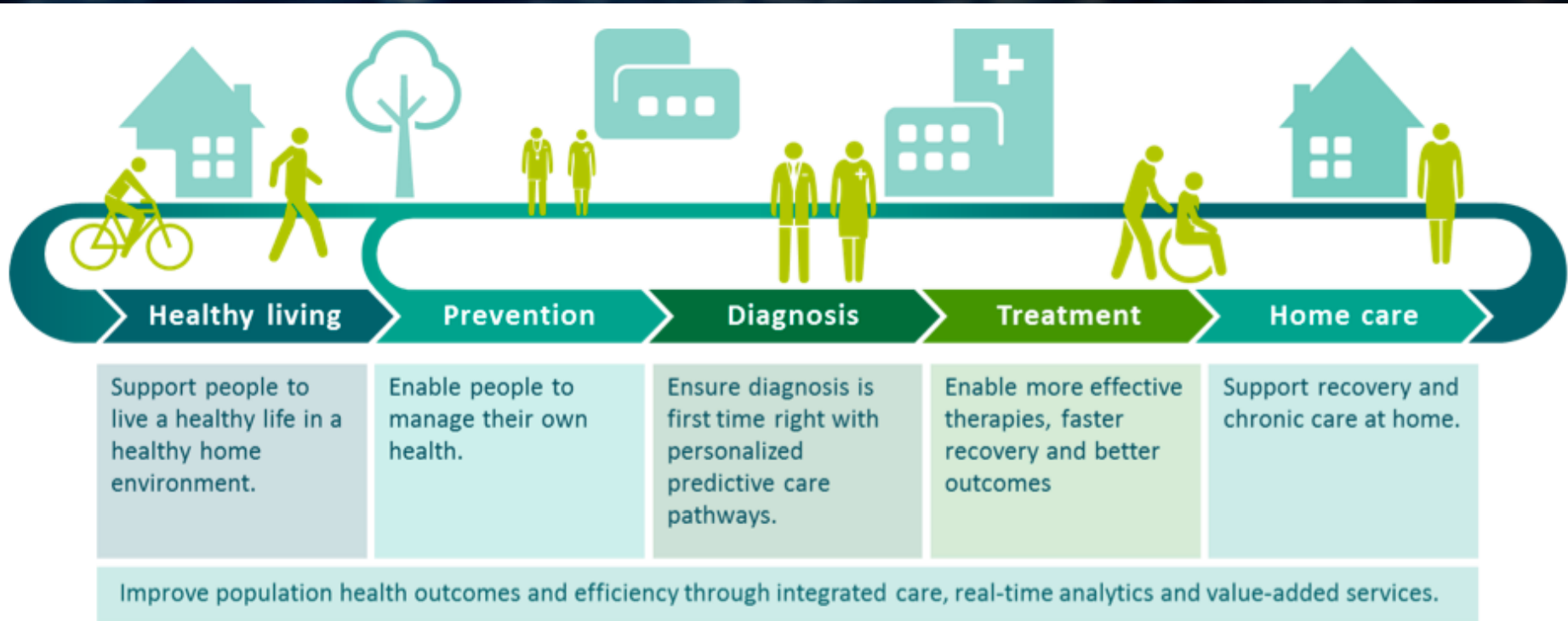
Type	RIA	IA
Large enterprises	25%	20%
SME	30%	25%
University/Other	35%	35%

EU Contribution as % of the eligible cost according to H2020 (beneficiaries may ask for a lower contribution)
National contributions: approximate the same amount

General IP arrangements

- According to Horizon 2020 rules
- Background: remains propriety
- Foreground: in project/WP shared “need to know”
- Results: for the IP creators
- Governed by the consortium agreement

ECSEL MASP 2016: Smart Health



- Mobile healthcare systems
- Open digital health platform ecosystem
- Minimal invasive surgery and imaging
- Healthy living conditions: food and environment

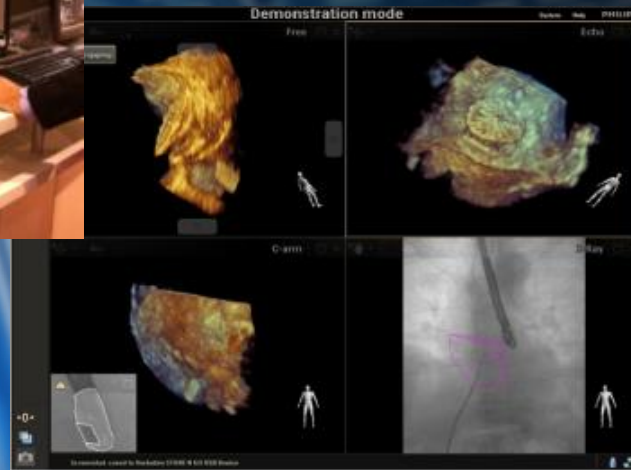
As per MASP 2016, <http://www.ecsel-ju.eu/web/documents/MASP%20and%20WP.php>

Overview ENIAC ARTEMIS ECSEL

Acronym	Cost (Eur)	EU Funding (Eur)	National Funding (Eur)	Partner count
ASTONISH	18,334,604	5,895,046	4,238,016	24
CAJAL4EU	21,942,225	3,664,351	7,350,528	28
CHIRON	17,952,022	2,849,000	6,350,523	27
CSI	14,641,993	2,445,213	4,330,194	15
DENECOR	19,905,452	2,985,820	6,655,178	22
HIGH PROFILE	17,121,958	2,859,367	5,053,221	16
INCITE	23,552,950	3,532,943	6,694,152	23
InForMed	48,052,186	11,349,422	11,108,481	39
MAS	26,815,185	4,478,136	9,855,935	29
Grand Total	208,318,575	40,059,298	61,636,227	223

More info per projects: http://www.ecsel-ju.eu/web/projects/local_index.php

CHIRON, ARTEMIS RIA, 2009



MediCal QAWeb Mobile
Visual calibration and QA for your tablet



by BT

Introducing the improvements of MediCal QAWeb Mobile. From our app store.

www.bti.com

Benefits:

- Improve your QAWeb quality images on your tablet
- Fast and simple calibration on your tablet
- High contrast calibration and learning a sequence of test patterns
- Quick logging and recovery of calibration patterns and QA measurements

Compatible with:

- Android 4.0 and 4.1 (minimum 1GB RAM)

Always image everywhere

MediCal QAWeb provides you with the best QAWeb images and a complete list of calibration. It is a software tool for visual calibration and quality assessment which can be easily integrated into any mobile device of medical images acquisition. MediCal QAWeb provides the best QAWeb images for mobile viewing applications.



CHIRON addressed the complete care cycle and design issues relating to patient monitoring and the timely detection of degenerative trends, diagnosis and assessment (through signal and image processing), and treatment and intervention (image-based procedures in cardiovascular intervention).

- 32 exploitable items, 4 products already in the market
- Technology used at the World Cup Ski Jumping Final, Slovenia (2012)

DeNeCor, ENIAC RIA, 2012



Figure 3 Invasive electromagnetic neuromodulation (in this example Deep Brain Stimulation)

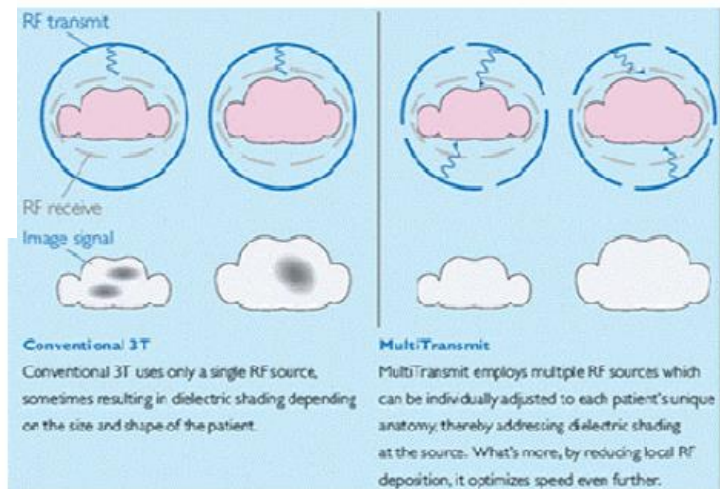
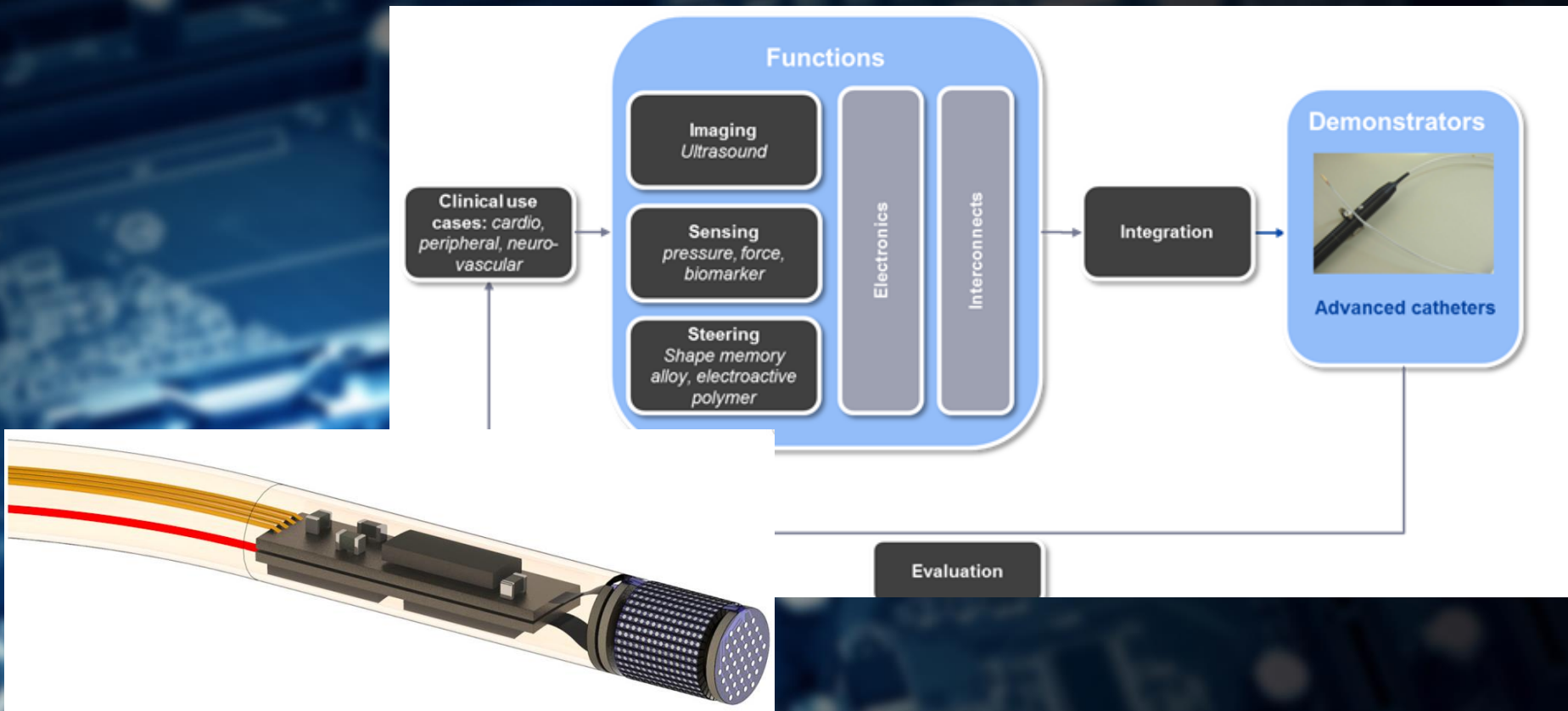


Figure 5 Implants distort the RF fields in MRI scanners thereby degrading image quality. Multi-transmit systems, as known from very high field systems can compensate these effects⁷, but are too expensive for routine clinical scanners. DeNeCoR targets to simplify the necessary technology and bring it in to commercial clinical use for implant optimized scanning

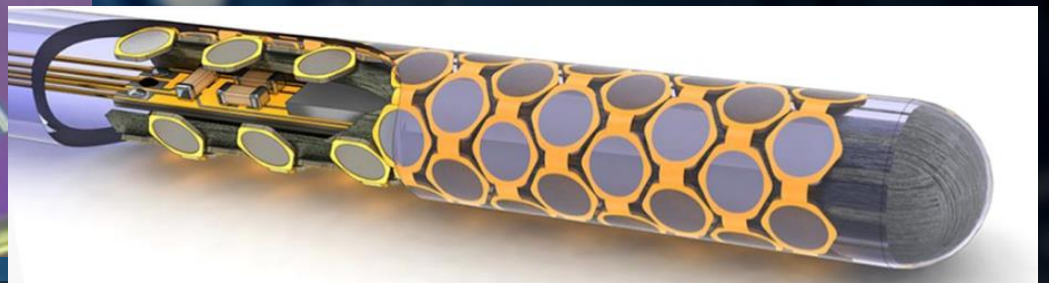
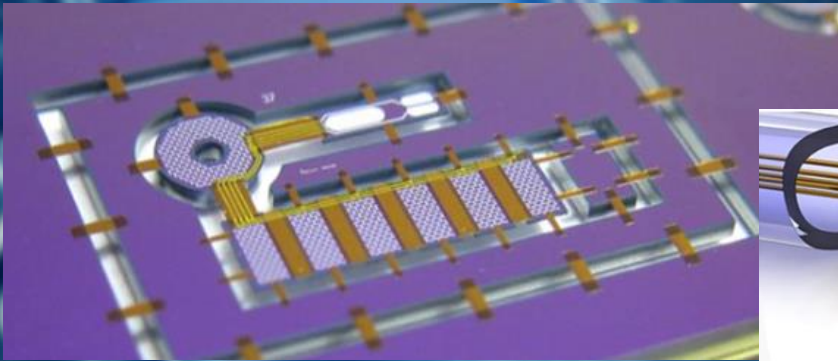
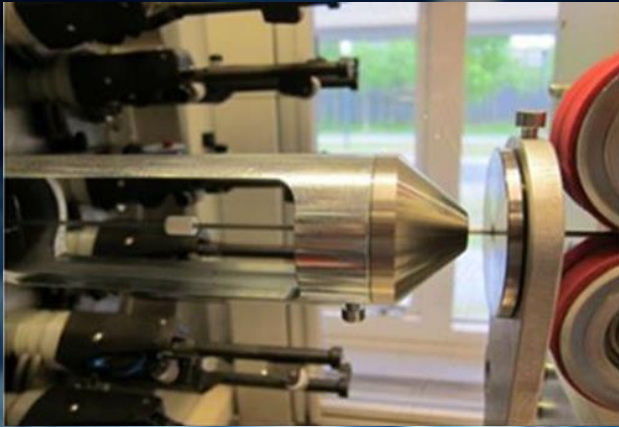
The DeNeCorR project is focussed on the development of electronic neuromodulation therapy equipment compatible with key neurological diagnostic systems

Incite, ENIAC RIA, 2013



INCITE (Intelligent Catheters in Advanced Systems for Interventions) is a research project focusing on the development of a technology platform that will enable advanced imaging, sensing (pressure, force, biomarker) and steering functions to be integrated into (sub)millimetre size in-body catheters and surgical instruments for emerging complex minimally invasive cardio-, neuro-, and peripheral vascular interventions.

Informed, ECSEL IA, 2014



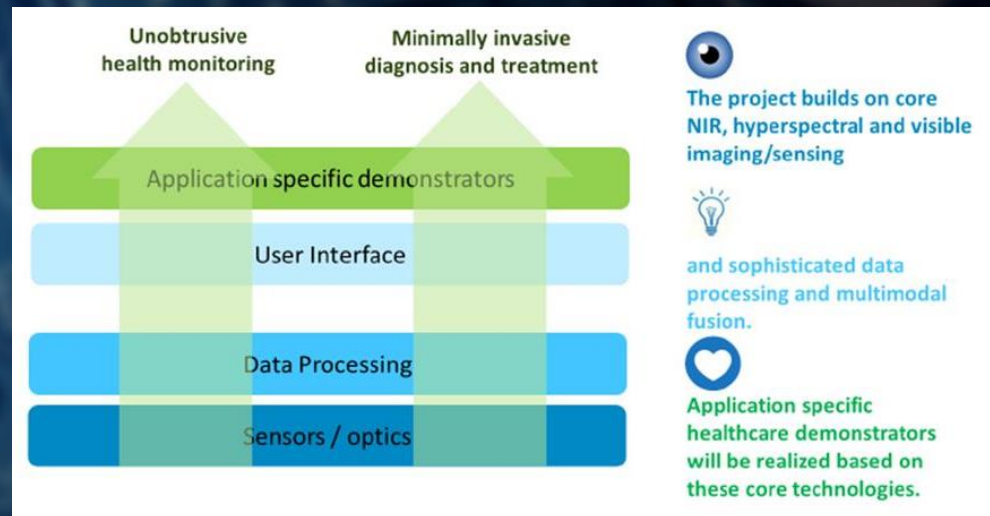
The InForMed project will establish an integrated pilot line for medical devices, covering the complete innovation chain from technology concept to system qualification, including micro-fabrication, assembly and even the fabrication of smart catheters.

Astonish, ECSEL RIA, 2015



The project covers the full value chain, from semiconductor manufacturing to clinical centres testing the final application. Smart algorithms, multimodal fusion techniques and biomedical signal processing will process the acquired data and advanced user interfaces will simplify the complex clinical tasks.

ASTONISH - by developing smart optical imaging technology for minimally invasive diagnosis and unobtrusive health monitoring embedded within the home and living environments - offers a set of solutions for simpler and more efficient diagnosis and low cost health monitoring that will allow patients to be comfortably treated at their homes for as long as possible.



ECSEL JU 2017 calls - provisional -

- MASP & WP: December '16
- Calls launch: begin of March '17

EU funding budget ~ 160M€, Total National budgets ~ the same

- Phase 1: Project outline: end of May '17
- Phase 2: Full Project Proposal: end of September
- Funding Decision: end November '17



ECSEL Stakeholder Forum 2016

[HOME](#)[ABOUT ECSEL JU](#)[CALLS FOR PROPOSALS](#)[PROJECTS & PARTNERS](#)[DOCUMENTS](#)[PUBLICATIONS](#)[EVENTS](#)[CONTACT](#)

EVENTS

> 2016 Events

> ECSEL Stakeholder Forum 2016

- > Programme
- > Registration
- > Location

> ECSEL Call Forum 2016

> Brokerage 2016

> 2016 past Events

- > 2015 Events
- > 2014 Events

ECSEL STAKEHOLDER FORUM 2016

Brussels, Belgium



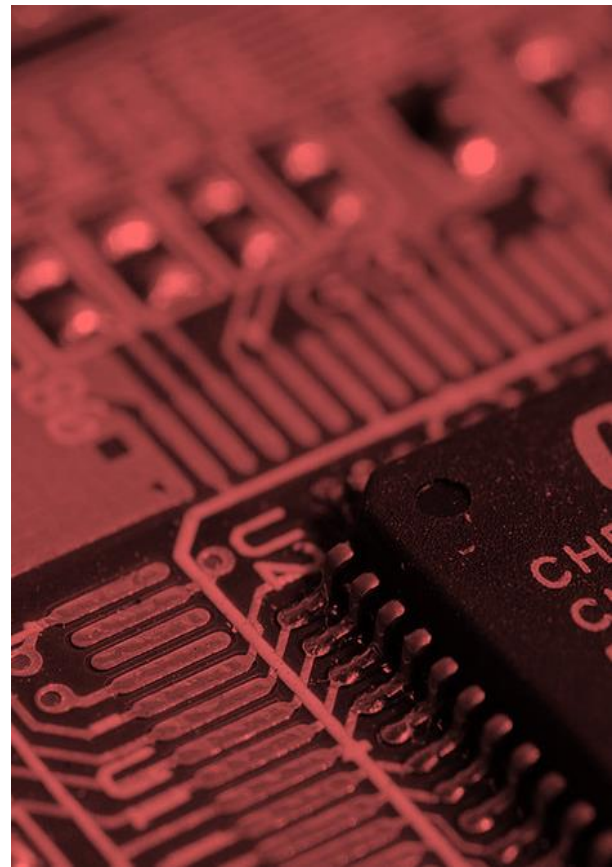
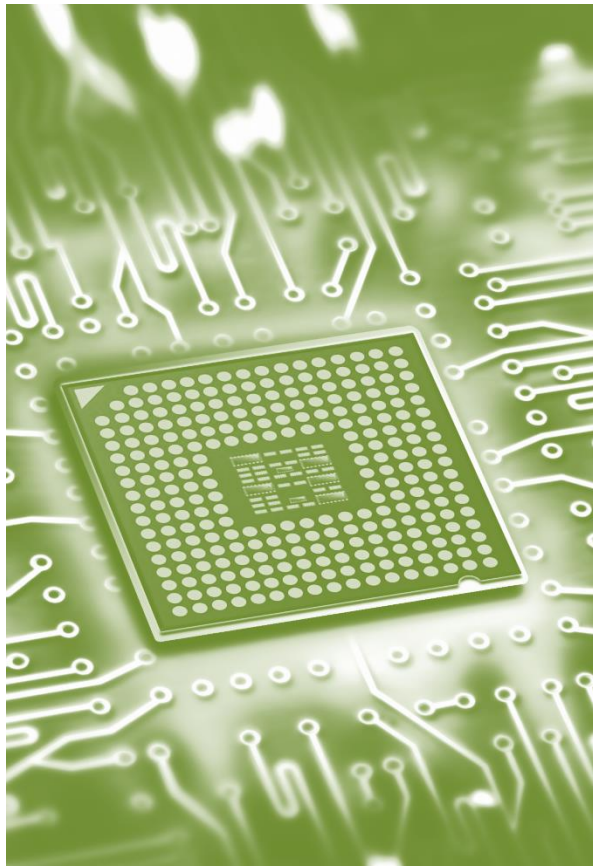
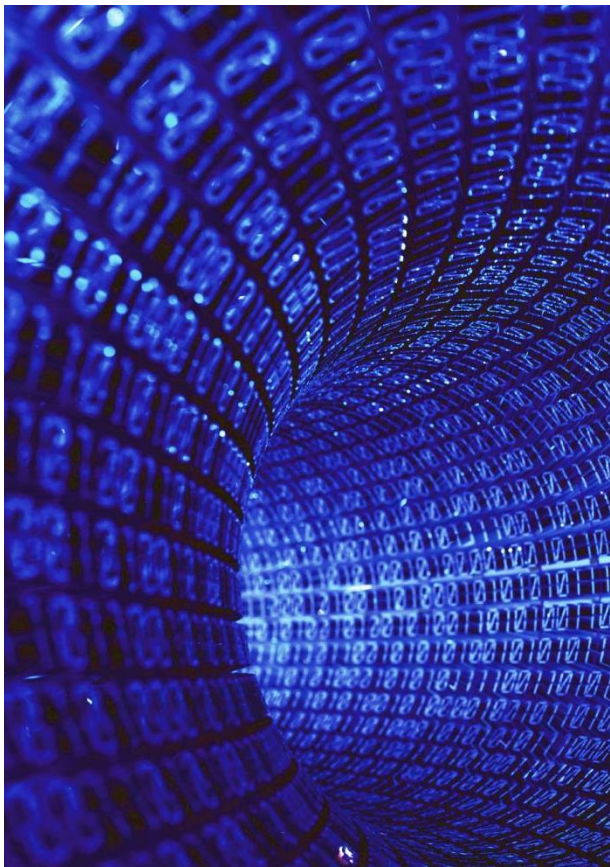
Wednesday October 19th (evening) and Thursday October 20th 2016

The ECSEL Private Members Board will organise the "ECSEL Stakeholders' Forum" in Brussels, Belgium. The event will take place at the Sheraton Brussels Hotel, in the city centre. [Details can be found here.](#)

Strategic guidelines for the ECSEL programme will be outlined and discussed, and time is available in parallel Working Groups to discuss and develop the various chapters of the Multi-Annual Strategic Research and Innovation Agenda (MASRIA).

Participation is free of charge but registration is mandatory. As available capacity is fixed, we recommend that you register early.

PROGRAMME: The event on October 19th will start at 18:00. The programme on October 20th starts at 9:00 and finishes at 16:00. [See details here.](#)



Thank you

