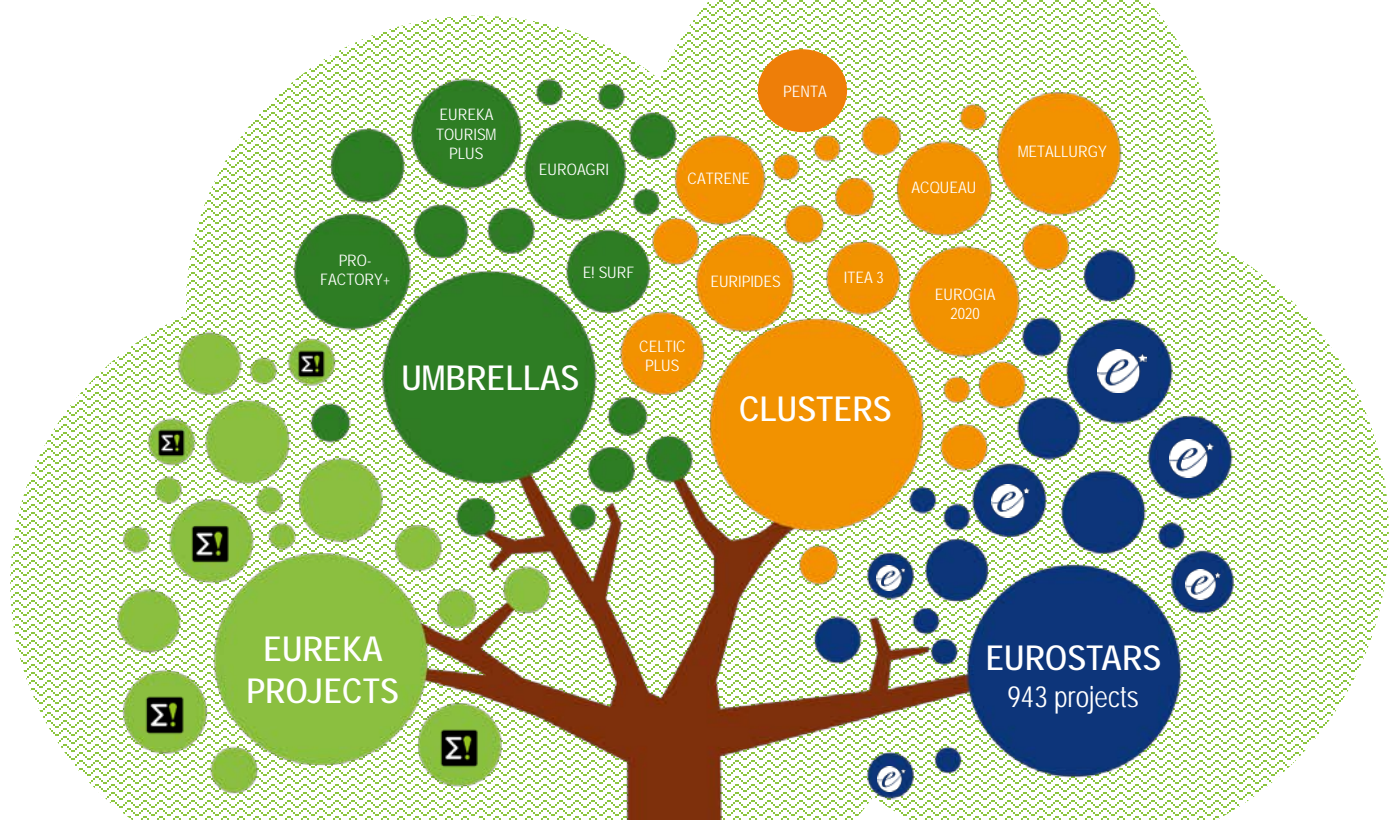




EUREKA CLUSTERS

November 2017





EUREKA instruments

Over
40 countries





Micro and nano electronics

(Last Call in 2015 but projects will continue until 2018)



ICT and telecommunications



Smart electronic systems



Low carbon energy technologies



Software intensive systems and services



Advanced materials and manufacturing



Micro & nanoelectronics enabled systems and applications



Advanced manufacturing

What is a EUREKA Cluster Project?



An Industry-led Initiative

- Focus on strategically significant areas
- International ecosystem of R,D & I participants
- Executed through public-private partnerships



Flexible number of participants

- With partners all along the value chain
- From major European industries, SMEs and Academia
- With large SME participation (30–50% of partners)



Fostering European competitiveness

- By developing new technologies & applications
- That address economic and societal challenges
- And help form new relationships along the value chain
- Supporting the development of business relationships not only in the EU, but worldwide

European Innovation Landscape

EUREKA Σ !
innovation across borders

Innovation
Programmes
following
**European
Strategy**



EUROPEAN

Develop &
Maintain
**Critical Mass &
Differentiation**



NATIONAL

Trans-National
Programmes
following
**National
Priorities**



EUREKA

EUREKA Clusters offer:

- ✓ The opportunity for funding **trans-national** R&D consortia in a **fast and efficient** way
- ✓ Support to projects **initiated by industry and in alignment with national priorities**
- ✓ The opportunity to bring together the **best companies and knowledge institutes** that can be found in participating countries
- ✓ Options to integrate along the **whole value chain**, from technology to applications, involving **labs, startups, SMEs and large companies**
- ✓ Expert **support** during the elaboration, submission and monitoring phases of their projects to ensure **relevance** and **quality**

- ✓ Cycle time and risk reduction in innovative projects
- ✓ Economic impact through creating new products and services in Global markets
- ✓ Societal impact through employment, education and addressing societal challenges
- ✓ Innovation impact through new IP, standards and pushing the State-of-the-Art
- ✓ Ecosystem impact through the development of new partnerships, supply chains and opportunities for growth



Clusters' Basic Info



Focus Area

Communications technology and its applications (especially the 5G technology), for individuals, communities and businesses; Celtic-Plus focusses on an end-to-end system approach in the development of future communications-related solutions

Celtic-Plus Scope and Research Areas

Examples of Cluster Projects

- ✓ SIGMONA: First SDN (Software Defined Network) solutions for 4 and 5G mobile networks
- ✓ SASER: Secure Communications for Europe
- ✓ CoMoSeF: Co-operative Mobility Services of the Future
- ✓ 4GBB-Gold-G.fast: by the end of 2020, 10 million premises will be connected





Board Members

- ✓ ATOS Research, British Telecom, Deutsche Telekom, Ericsson, Eurescom, Orange-Labs, Gemalto, INDRA, imec, Italtel, NETAS, Nokia, RAD Data Communications, Siemens Convergence Creators, Telefónica I+D, Telenor, Thales, Turkcell, Türk Telekom

Project Call Process

- ✓ [Call information](#)

Project Call Dates

- ✓ [Spring Call, May 2018](#)

Events

- ✓ [Celtic Plus Proposers Day](#), Luxembourg, 13 December 2017
- ✓ Celtic-Plus Event, collocated with the EUREKA Innovation Week, Helsinki, 22-25 May 2018

Focus Area

Smart electronic systems and smart systems integration; industrialization and manufacturability of systems in application areas like transport & mobility; health & well-being; manufacturing; smart interconnection system; energy; aerospace; IoT

Example of Cluster Projects

- ✓ EDDEMA: Embedded Die Design Environment & Methodology for Automotive Applications
- ✓ ASES: High Efficiency Alternative Solar Energy Source
- ✓ INGENISENSE: INtegrated Big Data Platform with Machine Learning for infrastructure manaGEment and provisioNIng with multi SENSor Environments
- ✓ ICAPE: Innovative Composites and Architectures for Power Electronics Packaging
- ✓ ADORAS: Advanced Onboard Data Recording and Analysis System
- ✓ ADVANTEX: ADVANced functional blocks and technologies for smart TEXtile products



Board Members

- ✓ ACAMP, RISE-ACREO, AIRBUS Defense and Space, AT&S, BIC Ostrava, C2MI, CEA-LETI, CONTINENTAL Automotive, CSEM, EOLANE, EPoSS, ETRI, Fraunhofer IZM, IMEC, INFINEON, KENTKART, MURATA Oy, NOVAPACK, RADIALL, SAFRAN Electrical & Power, SAVRONIK, SOMFY, STMicroelectronics, THALES Airborne Systems, VERMON, VOLVO AB, VTT

Project Call Process

- ✓ Detailed information on [EURIPIDES² Project Calls](#)

Project Call Dates

- ✓ [Calls calendar](#)

Events

- ✓ [EPoSS Forum](#), Graz, 19-20 October 2017
- ✓ [EF ECS](#), Brussels, 5-7 December 2017
- ✓ EUREKA Innovation Week, Helsinki, 22-24 May 2018

Focus Area

EUROGIA2020 is the EUREKA Cluster for low carbon energy technologies. It supports and promotes innovative energy technology projects with the aim of mitigating climate change

Examples of Cluster Projects

- ✓ Windfarm vessels: offshore installation of wind turbines
- ✓ RENERSTA: electricity at isolated places

Board Members

- ✓ Acciona Energy, Air Liquide, Bureau Veritas, Cardtek (2017-2018 Chair), DCNS, ENGIE, ENERJISA, GE Oil and Gas, Green Power Labs, Leading Enterprise, MERIC, SAFT

Project Call Process

- ✓ 4 project cut off dates per year
 - Next cut off dates: 23 February 2018, 25 May 2018
 - [Online project submission tool](#)
- ✓ Templates are provided for project applicants via EUROGIA2020 website
 - [Project Outline Template](#)
 - [Full Project Proposal Template](#)
 - [Project Cooperation Agreement](#)
- ✓ EUREKA NFBs have access to projects generated from their countries through the [EUROGIA2020 Project extranet](#)

Promotion

- ✓ Social Media Presence
 - [Twitter](#), LinkedIn and [YouTube Channel](#)
- ✓ EUROGIA2020 Activities
 - [EUROGIA2020 News](#) and [Press Releases](#)



Focus Area

- ✓ Software-intensive Systems and Services
- ✓ Digital transformation

Examples of Cluster Projects

- ✓ SEAS: Smart Energy Aware Systems
- ✓ AVANTI: Test methodology for virtual commissioning of production systems
- ✓ ADAX: Cyber Attack Detection And Countermeasures Simulation
- ✓ SORTS: Productivity and effectiveness in cancer treatment

Board Members

- ✓ Airbus, ATOS/Bull, Barco, Bosch, Ericsson, Indra, KocSistem, Nokia, Philips, Siemens, Technicolor, Telefonica, Thales, Turkcell



Project Call Process

- ✓ Annual two-stage Call with PO and FPP
 - <https://itea3.org/call-process.html>
 - <https://itea3.org/call-documents.html>
 - <https://itea3.org/getting-started.html>
 - <https://itea3.org/living-roadmap-challenges.html>

Project Call Dates (ITEA 3 Call 4)

- ✓ PO submission deadline: 2 November 2017
- ✓ FPP submission deadline: 15 February 2018

Events

- ✓ EUREKA Innovation Week, Helsinki, 22-24 May 2018
- ✓ PO Days ITEA 3 Call 5, Stockholm, 4-5 September 2018



Focus Area

New innovative applications with an industrial focus in the area of Advanced Materials and Manufacturing

Examples of Cluster Projects

17 Project proposals in Call 1 worth ca. 200 Mio. Euro (October 2015)

Currently two projects:

- ✓ Andromeda: Additive manufacturing of very large AM metallic structures (1-5 m range)
- ✓ Phoenix: Multi-component alloys - Focus on metallic high entropy alloys (MHEA) for extreme industrial applications to generate knowledge on manufacturing, microstructure and properties
- ✓ (Orion: Search for funding in Germany)



Board Members

- ✓ ArcelorMittal, COMTES FHT, Coşkunöz Holding, Culham Centre for Fusion Energy, ESI Group, European Powder Metallurgy Association, Tata Steel

Project Call Process

- ✓ Two-stage Call process: <http://metallurgy-europe.eu/call-process/>
- ✓ Second Call launched 18 December 2017

Events

- ✓ ME Cluster meeting in context with the VI World Materials Summit, Strasbourg 20-21 November 2017

Focus Area

Micro and nanoelectronic enabled systems and applications along the Electronic Components & Systems (ECS) value chain



Example of Cluster Projects

- ✓ CosmoDU: Compact, highly smart, modular drive control unit directly integrated in the electrical motors
- ✓ DISPERSE: Electronics for spatially distributed sensors and transducer arrays
- ✓ HADES: Hierarchy-Aware embedded test infrastructure for Dependability & performance Enhancement of Systems
- ✓ Hyb-Man: Hybrid 3D Manufacturing of Smart Systems
- ✓ MIRS: Midget IR based Sensing Systems
- ✓ SERENE_IoT: Secured & EneRgy Efficient health-carE solutions for IoT market



Board Members (AENEAS Supervisory Board)

- ✓ ASML, Airbus, AlphaSiP, Audi, Bosch, CEA-LETI, Fraunhofer Institute, Gemalto, IBS, IMEC, Infineon, NXP, Philips, RECIF, Soitec, STMicroelectronics, Technolution, Thales, University of Bologna, Zeiss

Project Call Process

- ✓ [Annual Call information](#)
- ✓ Detailed information is available in the [PENTA Project Zone](#)

Project Call Dates

- ✓ PO submission deadline: 13 February 2018
- ✓ FPP submission deadline: 22 May 2018
- ✓ More information on [Call 2018](#)

Events

- ✓ [EF ECS](#), Brussels, 5-7 December 2017
- ✓ EUREKA Innovation Week, Helsinki, 22-24 May 2018

Focus Area

Advanced Manufacturing Technologies focused on discrete manufacturing sectors and the following R&D&I domains: Advanced manufacturing processes, Intelligent and adaptive manufacturing systems, Digital, virtual and efficient industries, Person-machine collaboration, Sustainable manufacturing, Customer based production (value chain)

Example of Cluster Projects

- ✓ ASTRACOMP: Advanced surface and thermal treatments for increasing the durability of railway components and tools
- ✓ CONSTRUMATIC4.0: Intelligent Productive System Based on Flexible Robotic Systems and 4.0 Industry Applied to the Construction Industry
- ✓ WorthTruck: Improved crashworthiness for heavy truck components manufactured by press hardening through advanced process simulation
- ✓ TOOLS: New technologies for manufacturing optimized and more intelligent tools
- ✓ HS-LBL: High Speed Laser Blanking Line
- ✓ CPSCBM: Cyber Physical Systems for Condition Based Maintenance

Board Members

- ✓ SMART Core Group: Airbus Operations, GKN Aerospace, Grupo Antolín, IK4 Research Alliance, Irish Manufacturing Research (IMR), MONDRAGON Corporation, S.V.U.M, Royo Group, SWEREA, TOFAS

Project Call Process

- ✓ Annual two-stage Call with PO and FPP
 - [Call process](#)
 - [Call documents](#)

Project Call Dates (Call 1)

- ✓ PO submission deadline: 9 March 2018
- ✓ FPP submission deadline: 11 June 2018

Events

- ✓ International Proposers' Day: 12 December 2017, EUREKA Secretariat, Brussels



Thank you

