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# ECSEL CALLS 2017

YVES GIGASE



**ECSEL Joint Undertaking**

Electronic Components and Systems for European Leadership

# RESULTS OF CALLS



Calls	Beneficiaries	H2020 costs	EU Funding	National Funding	ESIF
2017-1-IA	183	469,322,749	110,067,691	105,233,389	3,687,541
2017-2-RIA	268	215,680,946	63,124,661	57,395,061	2,815,585
<b>TOTAL</b>	451	685,003,695	173,192,352	162,628,450	6,503,127

National Funding / EU Funding = 0.94  
Total Funding / H2020 Cost = 50%  
Success Rate = 32%

# SELECTED IA PROJECTS



Proposal Acronym	Proposal Title
<b>iDev40</b>	Integrated Development 4.0
<b>OCEAN12</b>	Opportunity to Carry European Autonomous driving further with FDSOI technology up to 12nm node
<b>POSITION-II</b>	A pilot line for the next generation of smart catheters and implants
<b>REACTION</b>	first and euROPEAn siC eigTh Inches pilOt liNe
<b>TAPES3</b>	Technology Advances for Pilotline of Enhanced Semiconductors for 3nm
<b>WAKeMeUP</b>	Wafers for Automotive and other Key applications using Memories, embedded in Ulsi Processors

# SELECTED IA PROJECTS



Proposal	Coordinator Legal Name	EPS	H2020 Cost	EU Funding
<b>iDev40</b>	INFINEON TECHNOLOGIES AUSTRIA AG	AT	47,069,170.00	10,896,693.95
<b>OCEAN12</b>	SOITEC SA	FR	103,656,287.50	25,056,447.45
<b>POSITION-II</b>	PHILIPS ELECTRONICS NEDERLAND B.V.	NL	41,297,920.00	10,547,414.23
<b>REACTION</b>	STMICROELECTRONICS SRL	IT	48,655,792.50	10,929,861.06
<b>TAPES3</b>	ASML NETHERLANDS B.V.	NL	131,954,106.25	28,196,296.23
<b>WAKeMeUP</b>	STMICROELECTRONICS CROLLES 2 SAS	FR	96,689,472.50	24,440,978.13
<b>TOTAL</b>			469,322,748.75	110,067,691.05

# SELECTED RIA PROJECTS



Proposal Acronym	Proposal Title
<b>5G_GaN2</b>	Advanced RF Transceivers for 5G base stations based on GaN Technology.
<b>AFarCloud</b>	Aggregate Farming in the Cloud
<b>FITOPTIVIS</b>	From the cloud to the edge - smart Integration and OPTimization Technologies for highly efficient Image and Video processing Systems
<b>HiPERFORM</b>	High performant Wide Band Gap Power Electronics for Reliable, energy eEfficient drivetrains and Optimization thRough Multi-physics simulation
<b>PRYSTINE</b>	Programmable Systems for Intelligence in Automobiles
<b>SECRETAS</b>	Cyber Security for Cross Domain Reliable Dependable Automated Systems

# SELECTED RIA PROJECTS



Proposal	Coordinator Legal Name	EPS	H2020 Cost	EU Funding
<b>5G_GaN2</b>	UNITED MONOLITHIC SEMICONDUCTORS SAS	FR	21,572,291.25	6,274,801.02
<b>AFarCloud</b>	UNIVERSIDAD POLITECNICA DE MADRID	ES	28,098,802.50	8,747,215.29
<b>FITOPTIVIS</b>	PHILIPS MEDICAL SYSTEMS NEDERLAND BV	NL	22,469,913.75	6,726,016.18
<b>HiPERFORM</b>	AVL LIST GMBH	AT	41,215,043.75	11,811,417.57
<b>PRYSTINE</b>	INFINEON TECHNOLOGIES AG	DE	51,238,115.00	14,690,494.03
<b>SECRETAS</b>	NXP SEMICONDUCTORS NETHERLANDS BV	NL	51,086,780.00	14,874,716.73
<b>TOTAL</b>			215,680,946.25	63,124,660.82

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# GRAND CHALLENGES



- The Grand Challenges addressed in the MAPS2018 are derived from the SRA



# PLANNING



- Call 2018-1 Innovation Action
- Call 2018-2 Research and Innovation action
  - Part A: All Grand Challenges except “***Implementing AI and machine learning, to detect anomalies or similarities and to optimize parameters***”
  - Part B: Grand Challenge “***Implementing AI and machine learning, to detect anomalies or similarities and to optimize parameters***”
- Call 2018-3 Coordination and Support Action for the Lighthouse Initiative **Industry4.E**
- Call 2018-4 Coordination and Support Action for the Lighthouse Initiative **Mobility.E**
- **Two procurement studies**

# CALL 2018-1 INNOVATION ACTION



- Similar to call 2017-1
- Weight Innovation/Impact/Implementation: 1.0 / 1.5 / 0.7
- Funding rates LE / SME / OTHER: 20% / 25% / 35%
- Capping: EU contribution per project capped at 30M€ and maximum contribution per partner in a project is limited to 50% of the total EU funding for the project.
- EU Budget: 110M€
- Scope: Proposals on all MASP2018 Grand Challenges EXCEPT “**Implementing AI and machine learning, to detect anomalies or similarities and to optimize parameters**” (Chapter 4.b)
- Page limit Innovation/Impact/Implementation: 60 / 60 / 60
- Strive for a National funding to EU funding of 1.2

# CALL 2018-2 RESEARCH AND INNOVATION ACTION PART A



- Similar to call 2017-2
- Weight Innovation/Impact/Implementation: 1 / 1 / 0.7
- Funding rates LE / SME / OTHER: 25% / 30% / 35%
- Capping: The EU contribution per project is capped at 15M€ and the maximum contribution per partner in a project is limited to 40% of the total EU funding for the project.
- EU Budget: 53.33M€
- Scope: Proposals on all MASP2018 Grand Challenges **EXCEPT “Implementing AI and machine learning, to detect anomalies or similarities and to optimize parameters”** (Chapter 4.b)
- Page limit Innovation/Impact/Implementation: 60 / 60 / 60
- Strive for a National funding to EU funding of 1.2

# CALL 2018-2 RESEARCH AND INNOVATION ACTION PART B



- Differences with call 2017-2
- Weight Innovation/Impact/Implementation: 1.3 / 1 / 0.7
- Funding rates LE / SME / OTHER: 25% / 30% / 35%
- Capping: maximum EU contribution per partner in a project is limited to 10% of the total EU funding for the project.
- EU Budget: 10M€ ONLY one project selected
- Scope: Proposals only on Grand Challenge “**Implementing AI and machine learning, to detect anomalies or similarities and to optimize parameters**” (Chapter 4.b)
- Page limit Innovation/Impact/Implementation: 60 / 60 / 60
- Strive for a National funding to EU funding of 1.2

# CALL 2018-2 RESEARCH AND INNOVATION ACTION PART B



- The proposals should focus on applications that use the relevant technologies developed by the partners and the applications should be demonstrated under conditions as close as possible to real-life.
- Execution by a consortium consisting of leading European enterprises and research organizations in the field of the topic complemented with end-users.
- The objectives next to the developed applications is to establish roadmaps, exploitation studies, business cases for those technologies;
- A deployment plan showing how to develop and valorise the technology in a European context by European participants.

# CALL 2018-3 AND 2018-4 COORDINATION AND SUPPORT ACTIONS

- One action per Lighthouse Initiative : Industry4.E and Mobility.E
- EU-Funding: 100%
- Duration: 3 years
- Budget per call: 500k€
- Scope: support to the Lighthouse Initiative
- Page limit Innovation/Impact/Implementation: 60 / 60 / 60

# PROCUREMENTS



- Procurement A: Benchmarking of public financial support mechanisms and organisation to R&I activities in the ECS sector in other parts of the world (Budget 200k€)
- Procurement B: ECS technology impact study on societal challenges, creating economic growth and employment related to and derived from the 3 programs (ENIAC, ARTEMIS, ECSEL) (Budget 400k€)