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### Vinnova's calls in international ICT

Jonas Bjarne

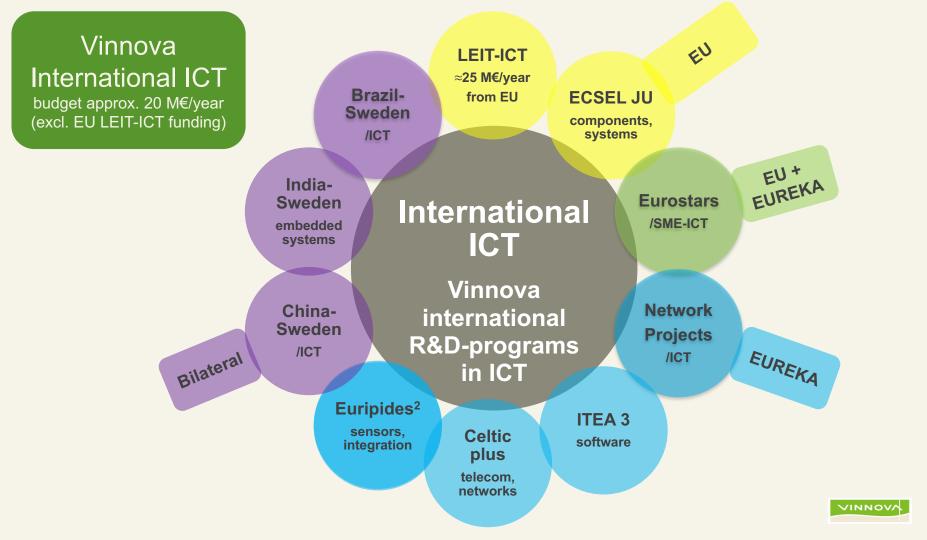
# What is international ICT at Vinnova?



# **International ICT at VINNOVA**

- All VINNOVA's international programs focusing on ICT R&D for digitalisation of many application areas
- >10 different EU, EUREKA and bilateral programs
- ≈20 MEUR/year from VINNOVA/EU
- Enabling an ICT project portfolio of >40 MEUR/year
- EU H2020 LEIT-ICT funding ≈25 MEUR/year to be added





# The EU ICT priorities and the LEIT-ICT and ECSEL JU programs



#### EU five "big tickets" for Information & Communication Technologies (they will affect "everything" ICT)

#### Artificial Intelligence (AI)

Digital Day 10 April: Sweden signs the AI Declaration

EU Communication on AI 25 April: AI-plans for H2020 (2 BEUR) and FP9 (X BEUR)

Cyber Security

Call SU-ICT-03-2018 on competence centra, 50 M€, closed 29 May, more...

#### High Performance Computing (euroHPC, exascale supercomputers)

Sweden considering joining EuroHPC Joint Undertaking, starting 1 Jan 2019

• Next Generation Internet (NGI: trust, privacy, intelligent, social innovation...)

NGI Node Sweden, https://www.sics.se/projects/the-next-generation-internet

• Microelectronics to software (the electronics value chain)

**ECSEL** Joint Undertaking

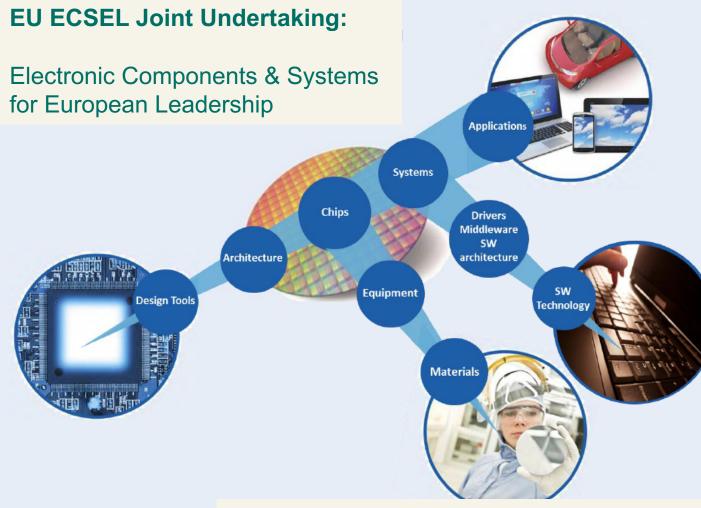


# LEIT-ICT WP2018-2020 budget: 2700 MEUR



HORIZON 2020

– Various Actions



Vinnova+EU funding for Swedish participation: 11 MEUR/year

Swedish historical success rate: approx. 30%

The Electronics Value-Chain, www.ecsel-ju.eu



# **ECSEL JU 2018 Multi-Annual Strategic Plan (MASP)**

#### • 5 essential capabilities:

- 1. Systems and components (architecture, design integration)
- 2. Connectivity and interoperability
- 3. Safety, security and reliability
- 4. Computing and storage
- 5. Process, equipment, materials and manufacturing

#### • 5 key application areas:

- 1. Transport and smart mobility
- 2. Health and well-being
- 3. Energy
- 4. Digital industry
- 5. Digital life



# **ICT-2018**

- Vienna, Austria, 4-6 December 2018
  - Digital research and innovation policies
  - Exhibition of EU-funded ICT research and innovation projects
  - Networking activities
  - Innovation and startups village
- <u>https://ec.europa.eu/digital-single-market/en/news/save-date-ict-2018-event-will-take-place-4-6-december-2018-vienna</u>

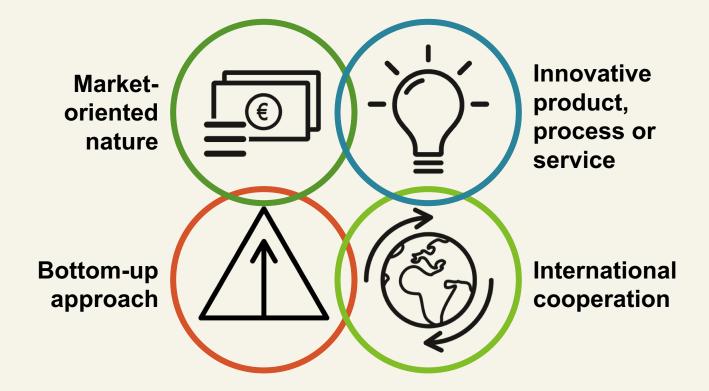




# EUREKA and the Eurostars and cluster programs



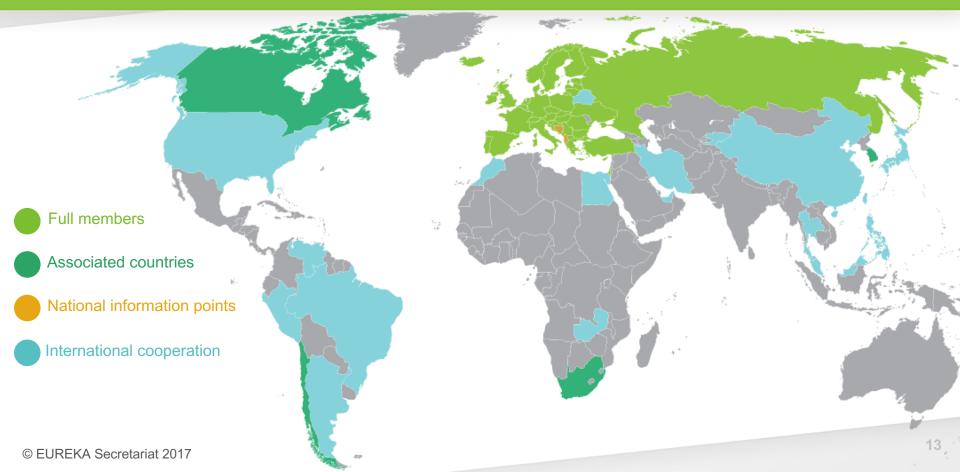
### **EUREKA** characteristics





### More than 40 EUREKA countries





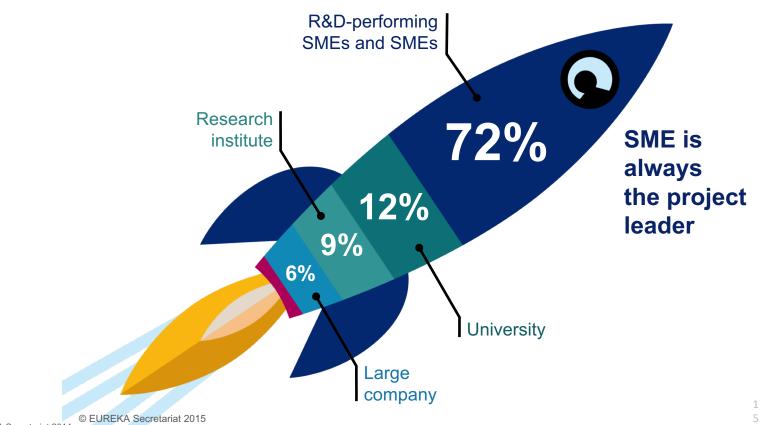
### **Three takeaways on EUREKA in Sweden**

EUREKA is quite unknown in Sweden 150 MSEK/year Vinnova budget (ICT 80 MSEK/y) Approx. 30% ICT success rate for Sweden





# SMEs in the driving seat



# EUREKA **S**! innovation across borders



https://www.celticplus.eu/

Jessica Svennebring jessica.svennebring@vinnova.se INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT
<u>https://itea3.org/</u>

Andreas Allström andreas.allstrom@vinnova.se



European Smart Electronic Systems

http://www.euripides-eureka.eu/

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# **Advantages of EUREKA Clusters:**

#### • Bottom-up

 Industry-driven and an opportunity for the participants to expand their network and entering new markets

#### • Simple

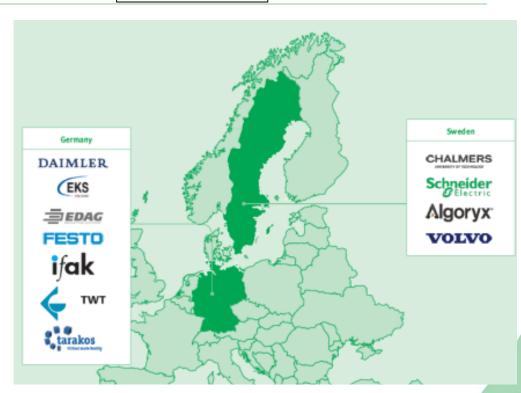
• The easy and simple administration increases the potential of getting both large companies and SME:s interested in joining.

#### Agile process

• To follow the rapid industrial development within ICT, the pragmatic approach and the easy change request processes is appreciated.



#### ENTOC Engineering Tool Chain for Efficient and Iterative Development of Smart Factories



Costs 8 M€

Effort 53 PY

ENTOC focuses on the engineering of smart factories as they are established in different domains with the goal of developing standardised modelling strategies and optimising the engineering tool chains used for complex production plants.

http://entoc.eu/



TEA3

#### Costs 22 M€ Effort 179 PY

**ITEA**3

Round-trip Engineering and Variability Management Platform and Process

REVaMP<sup>2</sup> aims to conceive, develop and evaluate the first comprehensive automation tool-chain and associated executable process to support round-trip engineering of SIS (Software-Intensive Systems and Services) Product Lines and thereby helping to profitably engineer mass customised products and services in virtually any economic sector.

http://revamp2-project.eu/





**REVaMP<sup>2</sup>** 

#### TESTOMAT The Next Level of Test Automation

#### Budget 18,3 M€ Effort 171 PY



The TESTOMAT project will support software teams to strike the right balance by increasing the development speed without sacrificing quality. The project will ultimately result in a Test Automation Improvement Model, which will define key improvement areas in test automation, with the focus on measurable improvement steps.

www.testomatproject.eu



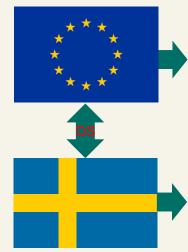


# Digital Sweden -Gateway to the International ICT arena





### **Vinnova supports Digital Sweden**



WWW.VIMOV8.58

#### Gateway to Swedish ICT collaboration

Help with finding the right Swedish project partners/organisations, ...

Gateway to the International ICT arena

Help finding your way among all the International ICT programs, ...

# What is Digital Sweden



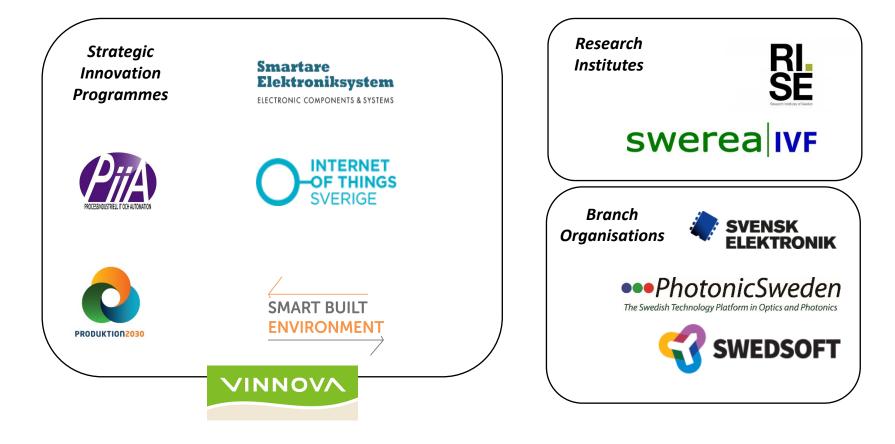
# Power gathering of Swedish ICT for advocacy in Brussels and increased cooperation in Sweden and abroad

#### Our goals:

- Streamline the Swedish influence on EU's ICT work programmes.
- Highlight and promote the Swedish ICT both nationally and internationally.
- Stimulate an increased cooperation between ICT areas in Sweden.
- Support and stimulate the Swedish participation in international RDI programmes, primarily within ICT.

# **Organisations behind DS**





# **International ICT events 2018**



### **European ICT calls closures 2018**

| Date             | Program                       | Focus                                      | Activity               |
|------------------|-------------------------------|--|------------------------|
| 31 January       | EU LEIT-ICT                   | Information and Communication Technologies | Several calls closes   |
| 13 February      | EUREKA PENTA                  | Micro and Nanoelectronics systems          | Annual PO call closes  |
| 1 March          | EUREKA Eurostars              | International SME R&D cooperation          | Spring call closes     |
| 12 March         | EUREKA EURIPIDES <sup>2</sup> | Smart electronic systems                   | Spring PO call closes  |
| 17 April         | EU LEIT-ICT                   | Information and Communication Technologies | Several calls closes   |
| 23 April         | EUREKA Celtic-Plus            | Smart connected world                      | Spring call closes     |
| Мау              | EU ECSEL JU                   | Electronic components and systems          | Annual PO call closes  |
| 7 June           | EUREKA EURIPIDES <sup>2</sup> | Smart electronic systems                   | Spring FPP call closes |
| 28 August        | EU LEIT-ICT                   | Information and Communication Technologies | Several calls closes   |
| 13 September     | EUREKA Eurostars              | International SME R&D cooperation          | Autumn call closes     |
| September        | EU ECSEL JU                   | Electronic components and systems          | Annual FPP call closes |
| 24 September     | EUREKA EURIPIDES <sup>2</sup> | Smart electronic systems                   | Autumn PO call closes  |
| 15 October       | EUREKA Celtic-Plus            | Smart connected world                      | Autumn call closes     |
| October/November | EUREKA ITEA 3                 | Software-intensive systems and services    | Annual PO call closes  |
| 14 November      | EU LEIT-ICT                   | Information and Communication Technologies | Several calls closes   |
| 3 December       | EUREKA EURIPIDES <sup>2</sup> | Smart electronic systems                   | Autumn FPP call closes |

#### **International ICT events 2018**

| Date       | Place                | Program  | Activity  | Comments  | Information  |
|------------|----------------------|--|---|---|--|
| 6-7 Feb    | Berlin,<br>Germany   | ECSEL-JU<br>Calls and<br>selected<br>H2020 Calls | ARTEMIS<br>brokerage event  | Brokerage event. Embedded Intelligence<br>(Embedded & Cyber-Physical Systems,<br>Internet of Things and Digital Platforms)  | https://artemis-ia.eu/brokerage-<br>2018.html  |
| 8 Feb      | Berlin,<br>Germany   | ECSEL-JU<br>Calls and<br>selected<br>H2020 Calls | EPoSS Proposer's<br>Day & inSSIght<br>Brokerage Event               | Brokerage event. Smart Systems Integration<br>and integrated Micro- and Nanosystems   | https://www.smart-systems-<br>integration.org/public/news-<br>events/events/eposs-<br>proposer2019s-day-inssight-<br>brokerage-event-2018/proposers-<br>day-2018 |
| 14 Feb     | Helsinki,<br>Finland | All  | Swe-Fin joint<br>ICT/Digitalisation<br>project planning<br>workshop | Workshop for identifying bilateral and<br>European projects to ECSEL, EUREKA,<br>ITEA3, Celtic Plus, Euripides2, PENTA,<br>H2020  | https://tapahtumat.tekes.fi/tapahtum<br>a/sweden_finland   |
| 22-23 Feb  | Brussels,<br>Belgium | All  | European Industry<br>day  | The event will give an update on the<br>Commission's strategic approach to industrial<br>policy and actions to further develop<br>industrial competitiveness in Europe. | https://ec.europa.eu/growth/content<br>/second-european-industry-day_en  |
| 6 March    | Warsaw,<br>Poland    | EU ECSEL-<br>JU                                  | ECSEL call forum  | EU ECSEL-JU brokerage event   | http://www.ecsel.eu/events   |
| 22-24 May  | Helsinki,<br>Finland | EUREKA   | Eureka Innovation<br>Days   | Focus on Smart mobility, Smart health,<br>Smart energy, Smart industry  | http://eurekainnovationdays.org/   |
| 18-22 June | Brussels,<br>Belgium | EU ECSEL-<br>JU                                  | ECSEL Symposium 2018  | ECSEL funded projects present their progress and results  | http://www.ecsel.eu/events   |
| 4-5 Sept   | Stockholm,<br>Sweden | EUREKA<br>ITEA3                                  | ITEA 3 Project<br>Outline<br>preparation days                       | Brokerage event ITEA 3. Software-intensive systems and services.  | https://itea3.org  |
| 20-22 Nov  | Lisbon,<br>Portugal  | EU ECSEL-<br>JU                                  | EFECS 2018  | The European Forum for Electronic<br>Components and Systems   | https://efecs.eu/  |
| 4-6 Dec    | Vienna,<br>Austria   | EU Horizon<br>2020                               | ICT 2018  | The key European ICT research and<br>innovation event organised by the European<br>Commission   | https://ec.europa.eu/digital-single-<br>market/en/news/save-date-ict-2018-<br>event-will-take-place-4-6-<br>december-2018-vienna                                 |

VINNOVA

#### **Sveriges innovationsmyndighet**



#### Vi stärker Sveriges innovationskraft för hållbar tillväxt och samhällsnytta

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