

# What could be the way ahead in the European context?



ECSEL JU ANNUAL REPORT 2016



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# TOOLS



Aeneas

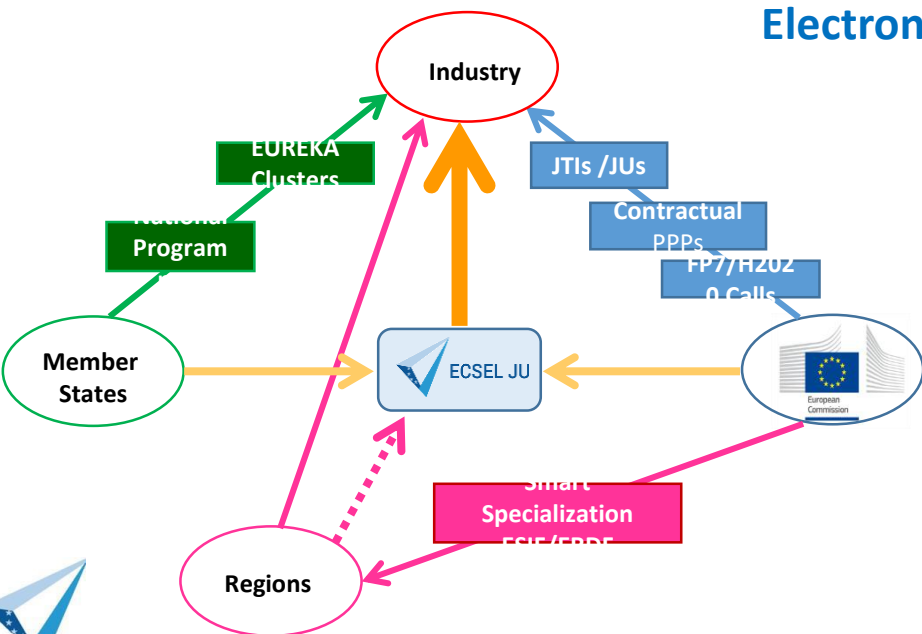


**EPOSS**  
European Technology Platform  
on Smart Systems Integration

ENIAC JU + ARTEMIS JU + EPOSS TP

# ECSEL JU

Electronic Component and Systems for European Leadership Joint Undertaking



2008 to 2016:

- 157 projects
- 43500 personyears of efforts
- 5870 M€ project cost
- 2400M€ in funding (EU + National)
- 4000 participations, 1800 entities



# ARRROWHEAD

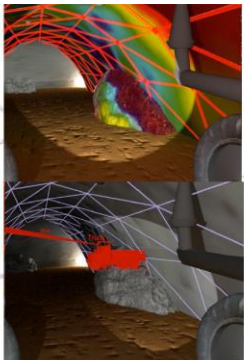
## Arrowhead Grand Challenges

- Enabling the interoperability of services by almost any device
- Enabling the integrability of services provided by almost any device

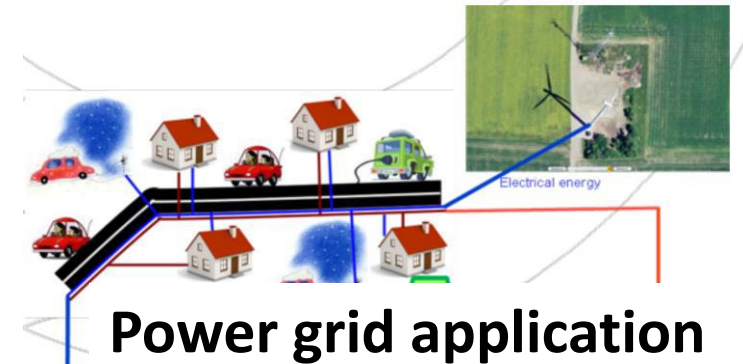
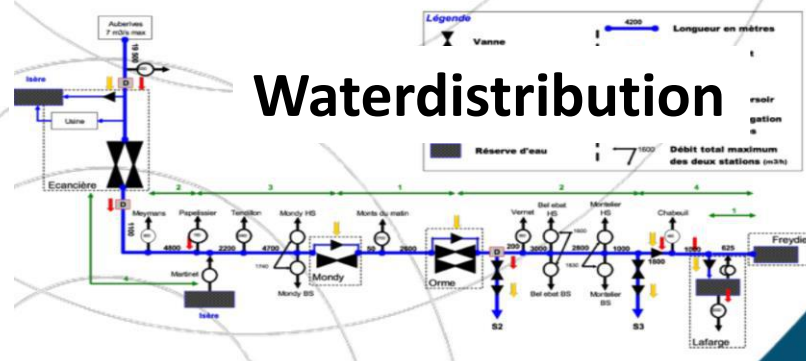
## Arrowhead framework

- 15 products incorporate AH
- 4 start-ups

## Heterogenous devices and service collaboration in mining and transportation



- 3D localization in mines
- Smart services in engine business
- Condition monitoring of transportation systems
- Collaborative Engineering for Assembly Automation
- Intelligent urban lighting
- Virtual Control Rooms for Energy Efficiency
- Longer terms recharging infrastructure
- Optimising operation of co-generation energy plants





## Top ten large (as per number of beneficiaries) projects in ECSEL, ARTEMISIA and ENIAC.

Project	Beneficiaries	Year	Programme
Productive4.0	109	2016	ECSEL
EMC2	98	2013	ARTEMIS
Arrowhead	77	2012	ARTEMIS
ENABLE-S3	74	2015	ECSEL
CRYSTAL	71	2012	ARTEMIS
DEWI	58	2013	ARTEMIS
AutoDrive	58	2016	ECSEL
SCOTT	57	2016	ECSEL
CESAR	55	2008	ARTEMIS

## LIGHTHOUSES

### INDUSTRY4.E

Tools for INDUSTRY4.0  
cPPP FoF

...

### MOBILITY.E



63% LE+SME 37% OTHER

Representing 5000 PY (approx 10% of Portfolio)