



SmartAnythingEverywhere



European Initiative  
**Smart Anything Everywhere**



**S4E2 Cluster Collaboration Meeting**  
Monday 17.05.2021, online



# **SAE Collaboration and Lessons Learnt**

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# SAE Capability for experimentation



SmartAnythingEverywhere



APPLICATION EXPERIMENTS DATA: SmartEEs / SmartEEs2 / EuroCPS / FED4SAE / DIH4CPS / Smarter-SI / DIATOMIC / DigiFed / SMART4ALL / BOWI / GATEONE



## Sectors of application

Product's functionalities

	(AERO)SPACE	BUILDING / CONSTRUCTION	CONSUMER ELECTRONICS	DIGITAL MANUFACTURING	ENERGY	ENVIRONMENT	FOOD & AGRICULTURE	IoT/SMART	MEDICAL / PHARMACEUTICALS	NATURAL RESOURCES	PACKAGING / LOGISTICS	SAFETY / SECURITY	TRANSPORT / MOBILITY / AUTOMOTIVE	OTHER(S)	Total
ACTUATING	0	1	0	4	0	0	4	2	7	1	1	1	1	0	22
COMMUNICATING	2	3	4	10	4	5	5	13	13	2	7	2	8	3	81
COMPUTING / PROCESSING / DATA STORAGE	4	8	3	19	7	10	16	17	31	2	7	8	12	14	158
ENERGY HARVESTING / CONVERSION / STORAGE	0	2	0	1	3	0	1	0	3	0	1	0	1	1	13
SENSING	2	10	3	14	3	8	21	16	32	2	3	8	6	9	137
SIGNALLING (OPTICAL IMAGING, LIGHTING)	0	5	2	4	0	2	4	2	14	0	4	0	5	2	44
OTHER(S)	2	1	0	5	3	0	0	3	3	0	0	0	4	9	30
<b>Total</b>	<b>10</b>	<b>30</b>	<b>12</b>	<b>57</b>	<b>20</b>	<b>25</b>	<b>51</b>	<b>53</b>	<b>103</b>	<b>7</b>	<b>23</b>	<b>19</b>	<b>37</b>	<b>38</b>	

PHASE 1 inputs: Gateone; Smart-SI; EuroCPS  
 PHASE 2 inputs: DIATOMIC; FED4SAE; SmartEEs;  
 PHASE 3 inputs: SMART4ALL; DIGIFED; DIH4CPS; SmartEEs2; BOWI

- Data collected from 235 Application Experiments
- Mapping of product functionality vs. sector of application
- Hot spots = high demand for digitization and opportunity for business replication



# SAE Capability by technology area



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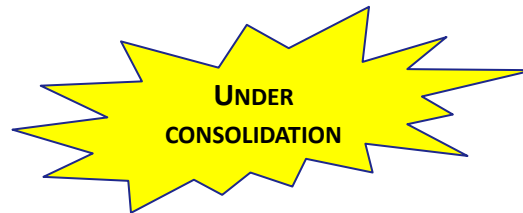
APPLICATION EXPERIMENTS DATA : SmartEEs / SmartEEs2 / EuroCPS / FED4SAE / DIH4CPS / Smarter-SI / DIATOMIC / DigiFed / SMART4ALL / BOWI / GATEONE

## CPS & CLEC

	/AERO/SPACE	BUILDING / CONSTRUCTION	CONSUMER ELECTRONICS	DIGITAL MANUFACTURING	ENERGY	ENVIRONMENT	FOOD & AGRICULTURE	IOT/SMART CONNECTED OBJECTS	MEDICAL / PHARMACEUTICALS	NATURAL RESOURCES	PACKAGING / LOGISTICS	SAFETY / SECURITY	TRANSPORT / MOBILITY / AUTOMOTIVE	OTHER(S)	Total
ACTUATING	0	1	0	3	0	0	2	1	2	0	1	0	0	0	10
COMMUNICATING	0	1	1	4	1	3	3	11	5	0	2	0	6	2	39
COMPUTING / PROCESSING / DATA STORAGE	2	1	2	9	6	5	9	9	13	0	2	1	10	12	81
ENERGY HARVESTING / CONVERSION / STORAGE	0	0	0	0	3	0	1	0	0	0	0	0	1	0	5
SENSING	0	3	0	7	1	6	9	6	7	0	0	1	4	1	45
SIGNALLING (OPTICAL IMAGING, LIGHTING)	0	1	1	2	0	0	4	2	4	0	0	0	3	0	17
OTHER(S)	2	1	0	2	3	0	0	2	1	0	0	0	4	8	23
<b>Total</b>	<b>4</b>	<b>8</b>	<b>4</b>	<b>27</b>	<b>14</b>	<b>14</b>	<b>28</b>	<b>31</b>	<b>32</b>	<b>0</b>	<b>5</b>	<b>2</b>	<b>28</b>	<b>23</b>	

## SSI

	/AERO/SPACE	BUILDING / CONSTRUCTION	CONSUMER ELECTRONICS	DIGITAL MANUFACTURING	ENERGY	ENVIRONMENT	FOOD & AGRICULTURE	IOT/SMART CONNECTED OBJECTS	MEDICAL / PHARMACEUTICALS	NATURAL RESOURCES	PACKAGING / LOGISTICS	SAFETY / SECURITY	TRANSPORT / MOBILITY / AUTOMOTIVE	OTHER(S)	Total
ACTUATING	0	0	0	1	0	0	2	1	3	1	0	1	0	0	9
COMMUNICATING	2	2	1	6	1	2	2	2	3	2	2	2	1	0	28
COMPUTING / PROCESSING / DATA STORAGE	2	2	1	6	1	2	7	8	8	2	2	2	1	0	44
ENERGY HARVESTING / CONVERSION / STORAGE	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
SENSING	2	3	1	6	2	2	11	10	8	2	2	2	1	0	52
SIGNALLING (OPTICAL IMAGING, LIGHTING)	0	0	0	1	0	0	0	0	2	0	0	0	0	0	3
OTHER(S)	0	0	0	3	0	0	0	1	1	0	0	0	0	1	6
<b>Total</b>	<b>6</b>	<b>7</b>	<b>3</b>	<b>24</b>	<b>4</b>	<b>6</b>	<b>22</b>	<b>22</b>	<b>25</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>3</b>	<b>1</b>	



## OLAE/FWE

	/AERO/SPACE	BUILDING / CONSTRUCTION	CONSUMER ELECTRONICS	DIGITAL MANUFACTURING	ENERGY	ENVIRONMENT	FOOD & AGRICULTURE	IOT/SMART CONNECTED OBJECTS	MEDICAL / PHARMACEUTICALS	NATURAL RESOURCES	PACKAGING / LOGISTICS	SAFETY / SECURITY	TRANSPORT / MOBILITY / AUTOMOTIVE	OTHER(S)	Total
ACTUATING	0	0	0	0	0	0	0	0	2	0	0	0	1	0	3
COMMUNICATING	0	0	2	0	0	0	0	0	4	0	3	0	0	1	10
COMPUTING / PROCESSING / DATA STORAGE	0	0	0	0	0	0	0	0	3	0	1	0	0	0	4
ENERGY HARVESTING / CONVERSION / STORAGE	0	2	0	0	0	0	0	0	3	0	1	0	0	1	7
SENSING	0	1	1	0	0	0	1	0	13	0	1	1	0	8	26
SIGNALLING (OPTICAL IMAGING, LIGHTING)	0	3	1	0	0	0	0	0	6	0	2	0	2	2	16
OTHER(S)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>3</b>	<b>12</b>	

Product functionality depends on technology area

Cross-sectoriality varies with technology area



# Network of Hubs



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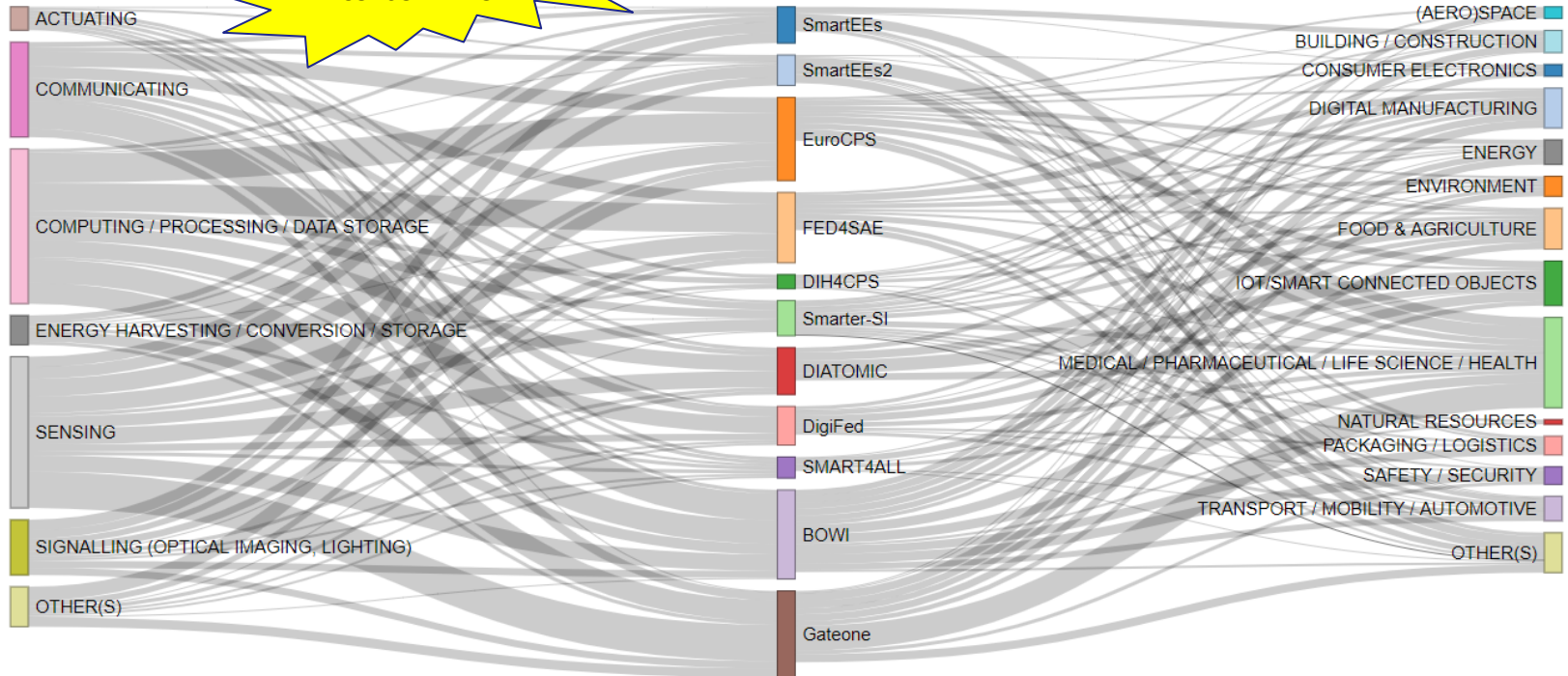
Product's functionalities

**UNDER CONSOLIDATION**

IAs

Sectors of Application

Application Experiments data



- Different technologies
- Different ecosystems
- Complementary/competitive solutions for product & application innovation



# SAE Third Party beneficiaries

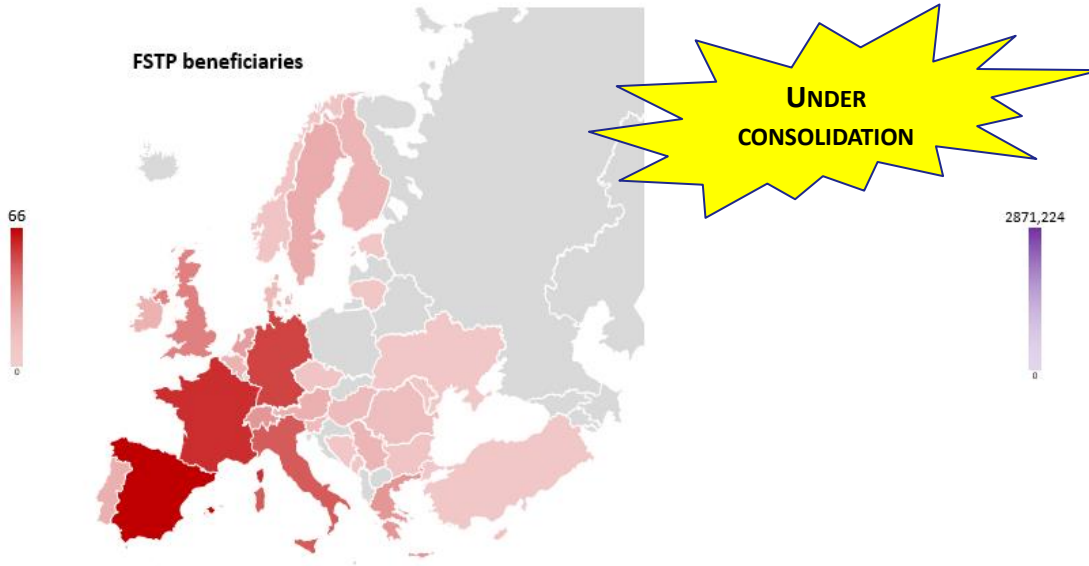


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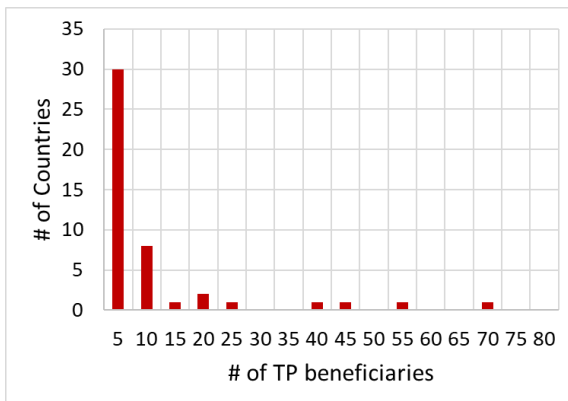
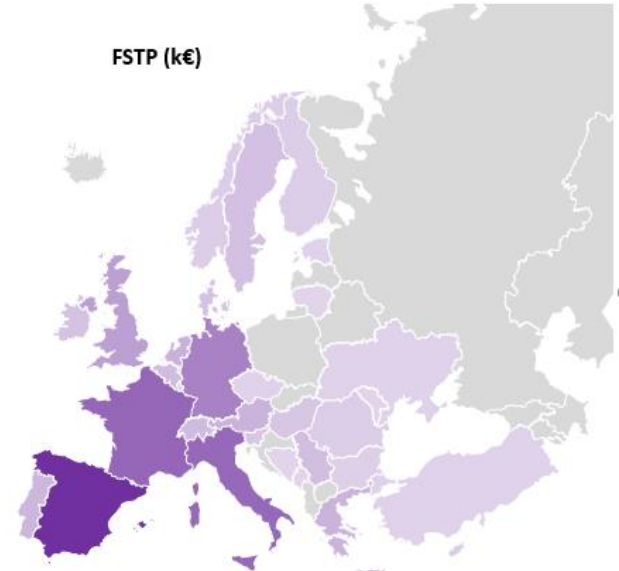


APPLICATION EXPERIMENTS DATA : Smarter-SI / EuroCPS / CPSE-Labs / Gateone / DIATOMIC / FED4SAE / SmartEEs / DIGIFED / SmartEEs2 / SMART4ALL / DIH4CPS

FSTP beneficiaries



FSTP (k€)



- 13 (EU14) Countries
- 8 (EU13) Countries
- 8 Associated Countries
- 4-5 main Country beneficiaries

