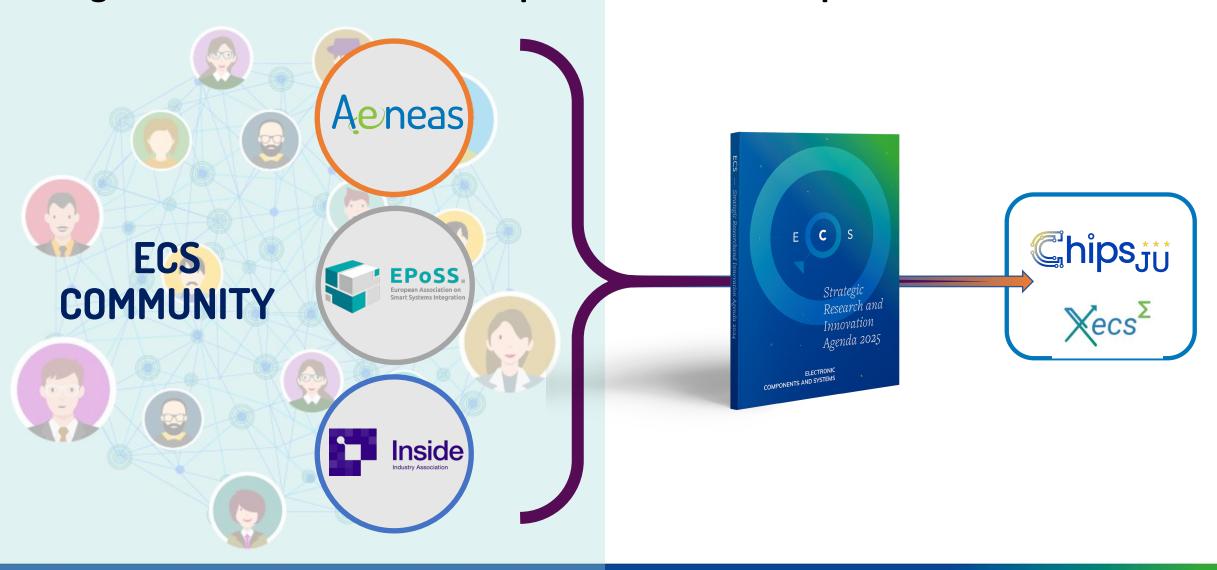


## 2025 ECS SRIA Motivation and overview

Patrick Cogez, AENEAS Technical Director, 2025 ECS SRIA Chair

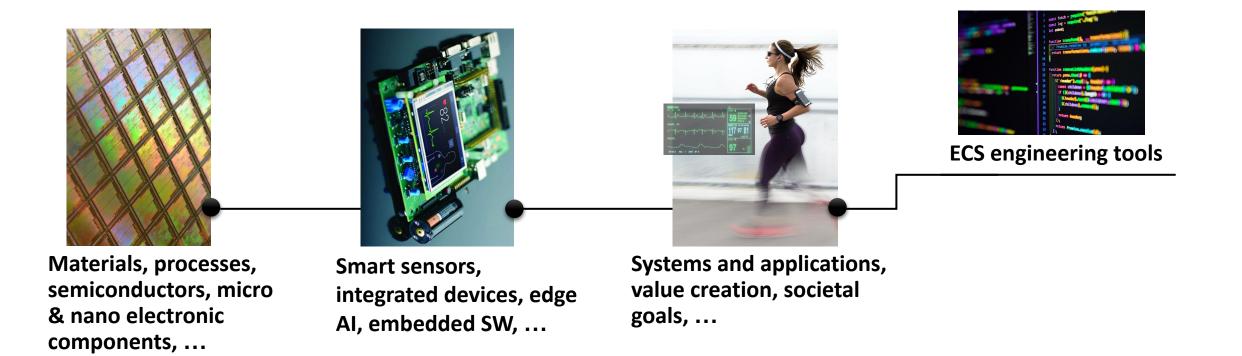
February 18, 2025

## The 2025 ECS SRIA 2025 - Why? Align and coordinate research policies across Europe



#### The 2025 ECS SRIA – What?

- Presenting research topics to be investigated over next 15 years
- To foster and accelerate our European digital transformation reflecting European values
- Covering the whole value chain of Electronic Components & Systems (ECS)





Patrick Cogez **AENEAS** Chairman



Matthias Küntzel **EPoSS** Co-chairman

#### The 2025 ECS SRIA – Who?

#### **Core Team**

- Arco Krijgsman ASML
- Christophe Wyon CEA
- Jerker Delsing Lulea University of Technology
- Jürgen Niehaus SafeTRANS
- Patrick Pype NXP
- Sven Rzepka Fraunhofer
- Wolfgang Dettmann Infineon Technologies AG

#### More than 280 European experts

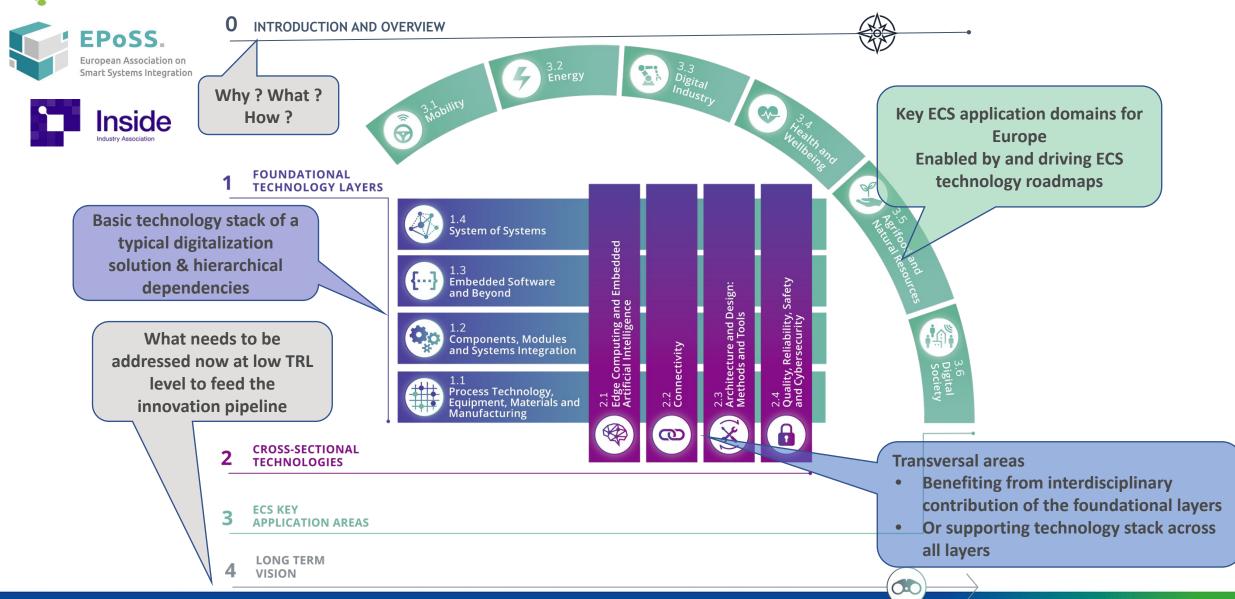
- Interdisciplinary
- Across the whole ECS value chain
- Representing industry, RTO and academia
- 24 countries

#### Complemented by an open consultation

- Written procedure, Oct 11<sup>th</sup> 24<sup>th</sup>, 2024
- Advisory Stakeholder Forum, Oct 17<sup>th</sup> 217 attendees

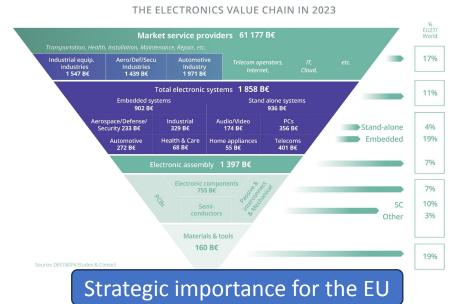


#### **ECS-SRIA** structure



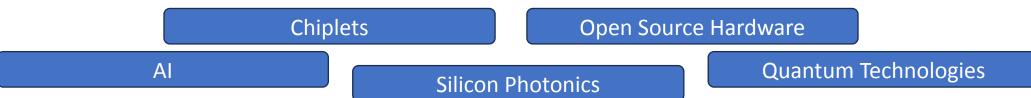
#### **Introductory Chapter- Restructured in Why / What / How**

Why ECS matter





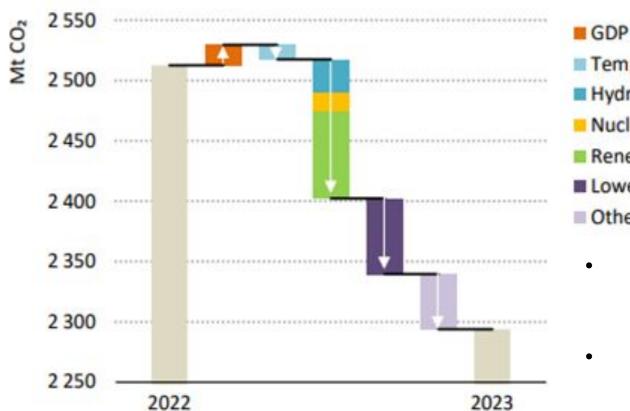
What? SRIA content, including new and/or expanded cross-cutting themes



- How to make it happen
  - Link with new funding instruments of Chips Act Pillar 1 : Pilot Lines and the Design Platform

### **Societal Impact of ECS Illustration from Energy Chapter**

Change in total CO<sub>2</sub> emissions from combustion in the European Union by Figure 9: driver, 2022-2023



- Temperatures
- Hydro recovery
- Nuclear partial recovery
- Renewable electricity deployment
- Lower emissions in industry
- Other
  - Over 130 Mt CO<sub>2</sub> emission avoided thanks to renewable energy deployment and lower emissions in industry
- ECS major contributor on more than half of the additional savings

IEA. CC BY 4.0.

IEA (2024), CO2 Emissions in 2023, IEA, Paris https://www.iea.org/reports/co2-emissions-in-2023, Licence: CC BY 4.0

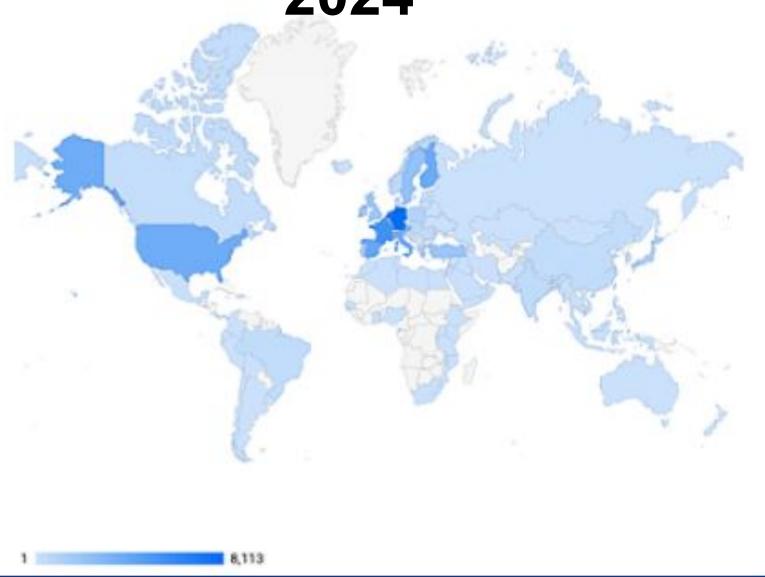
#### 2005 ECS SRIA Edition available online



- Native indexing and analytics
- More advanced functionalities for:
  - Topics search
  - Selective reading
- Increased visibility and accessibility
  - Attract new talents and experts

- https://ecssria.eu/
- Pdf version downloadable at that address
  - Navigation via bookmarks

Visits by Country in 2024

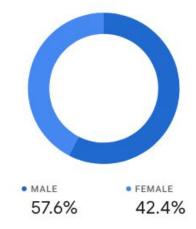


Country		Views
1	Germany	8113
	The	
2	Netherlands	6551
3		5476
4	Spain	4023
5	Finland	3875
6	Italy	3714
7	United States	3680
8	Austria	3601
9	Belgium	3026
10	Sweden	2291
11	Türkiye	2008
	United	
12		1812
13	Ireland	1789
14	Portugal	1247
15	Japan	1244
16	Greece	1214
17	Poland	992
18	Switzerland	780
19	Taïwan	721
20	Norway	554
21	India	498
22	Hungary	461
23	Latvia	444

### Accesses and user number in 2024

Page		Visits		
Website Home	8307			
ECS-SRIA Home	12003			
Introduction	5974			
Outline	2392			
1.1 Process Technology, Equipment, Materials and Manufacturing	3505	Coundation of		
1.2 Components, Modules and Systems Integration	2724 1523	Foundational	0010	
1.3 Embedded Software and Beyond		Technology	9019	
1.4 System of Systems	1268	Layers		
2.1 Edge Computing and Embedded Artificial Intelligence	3141	Cross- Sectional		
2.2 Connectivity	874		<i>-</i>	
2.3 Architecture and Design: Methods and Tools	1384		6773	
2.4 Quality, Reliability, Safety and Cybersecurity	1374	Technologies		
3.1 Mobility	1214			
3.2 Energy	988	ECS Key Application Areas		
3.3 Digital Industry	937		F704	
3.4 Health and Wellbeing	1098		5731	
3.5 Agrifood and Natural Resources	845			
3.6 Digital Society	649			
4. Long-Term Vision	909			

Total number of visits to the entire website: 58843 (up 22% vs. 2023)



### Main interests of users according to Google Analytics:

- Technology (51% of the users)
- Finance (38% of the users)
- Politics (32% of the users)
- Lifestyle (31%)
- Sport (28%)

## Key takeaways

- The ECS SRIA covers the R&I needs identified by the ECS industry
- It plays a major role in aligning R&I priorities within the ECS community with funding instruments
- It is a coordination and knowledge exchange instrument with other communities
- Moving to the Chips Act increases its relevance
- You can (and should) be part of it!

ECS BROKERAGE EVENT 2025

# Thank you!