

ECSEL JU

Luciano GAUDIO
Stakeholder Relations
& Communication Officer



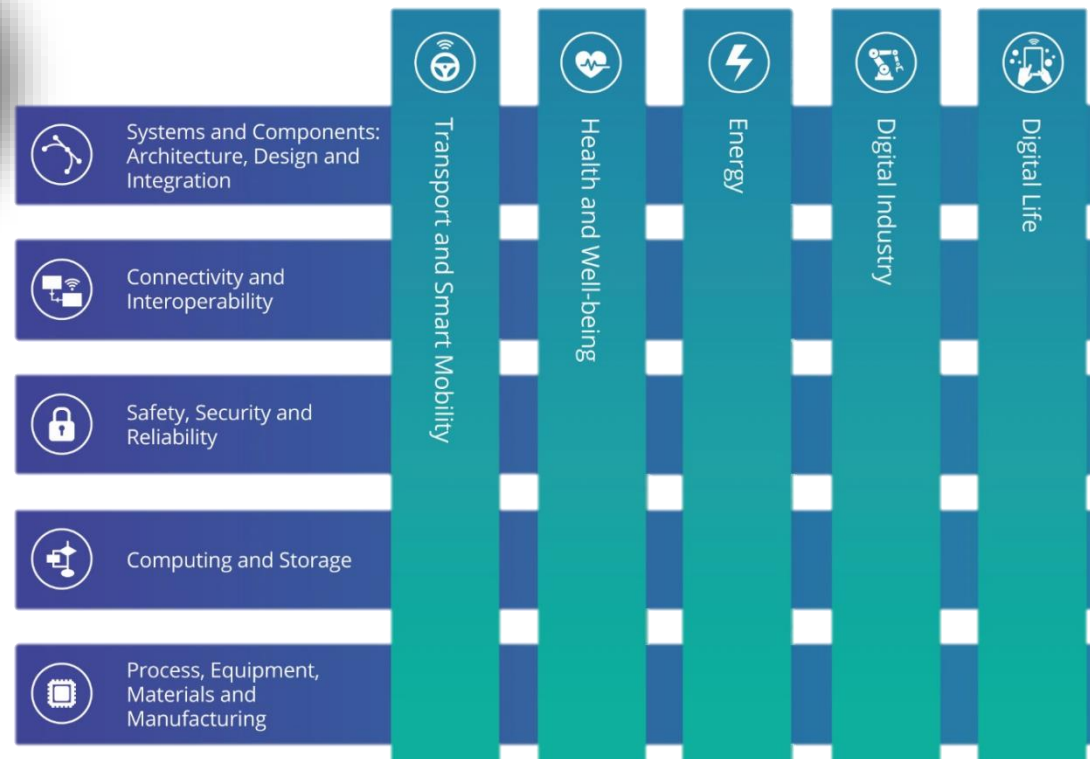
ECSEL JU structure



Focus areas

Members

- ✓ Covers Electronic Components and Systems (ECS)
- ✓ PPP: EU, participating States, Private Members
- ✓ Budget 1,2 B€ + 1,2 B€ + 2,4 B€
- ✓ Annual Call for proposals as Horizon 2020

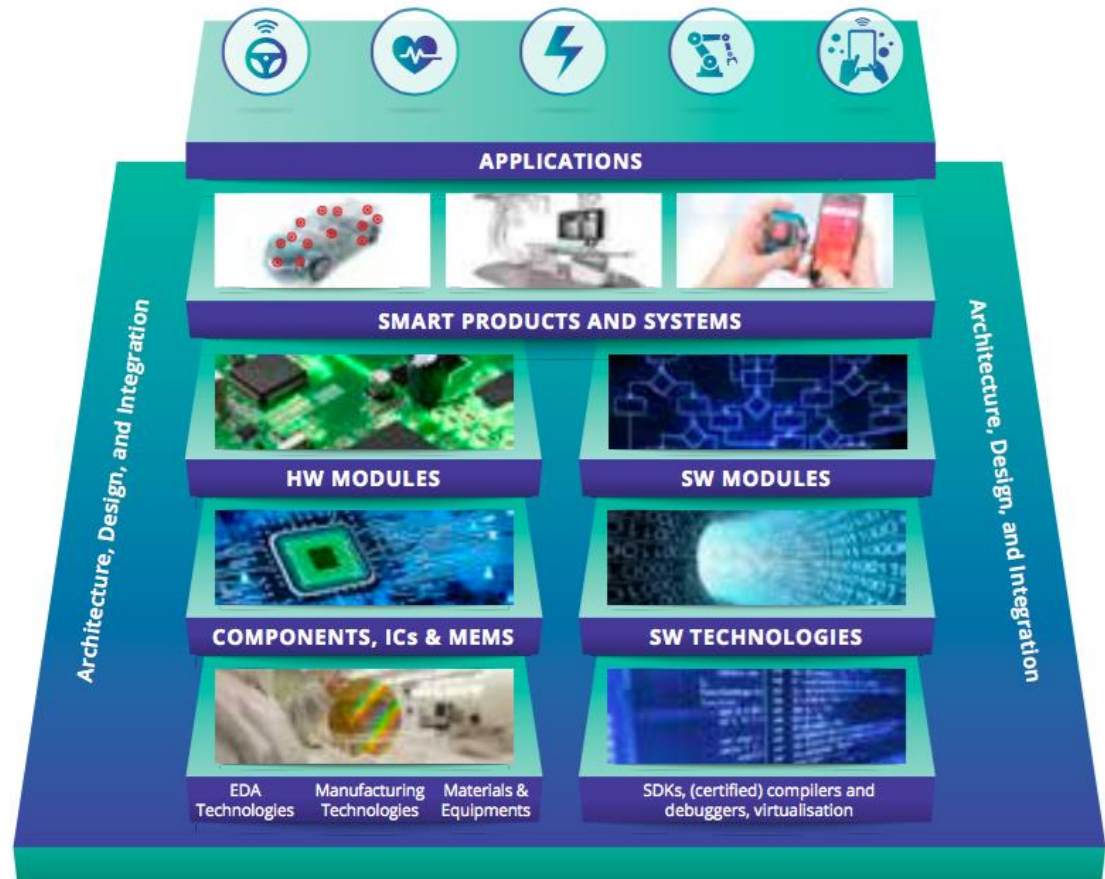


ECSEL JU model: thinking together

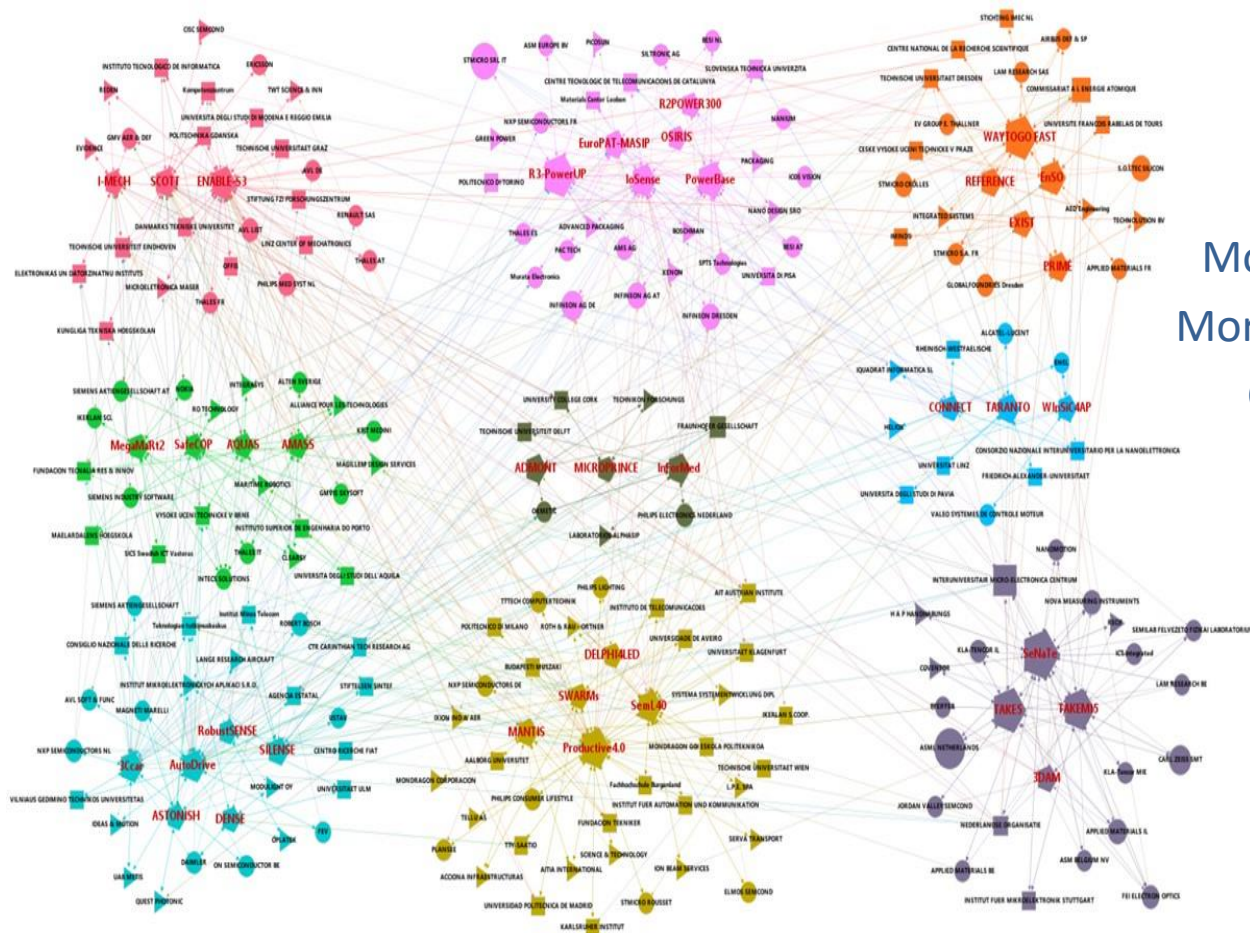


Strategic Research Agenda:

- ✓ setting strategic priorities and technical pathway to enable European industry to become stronger and more competitive.



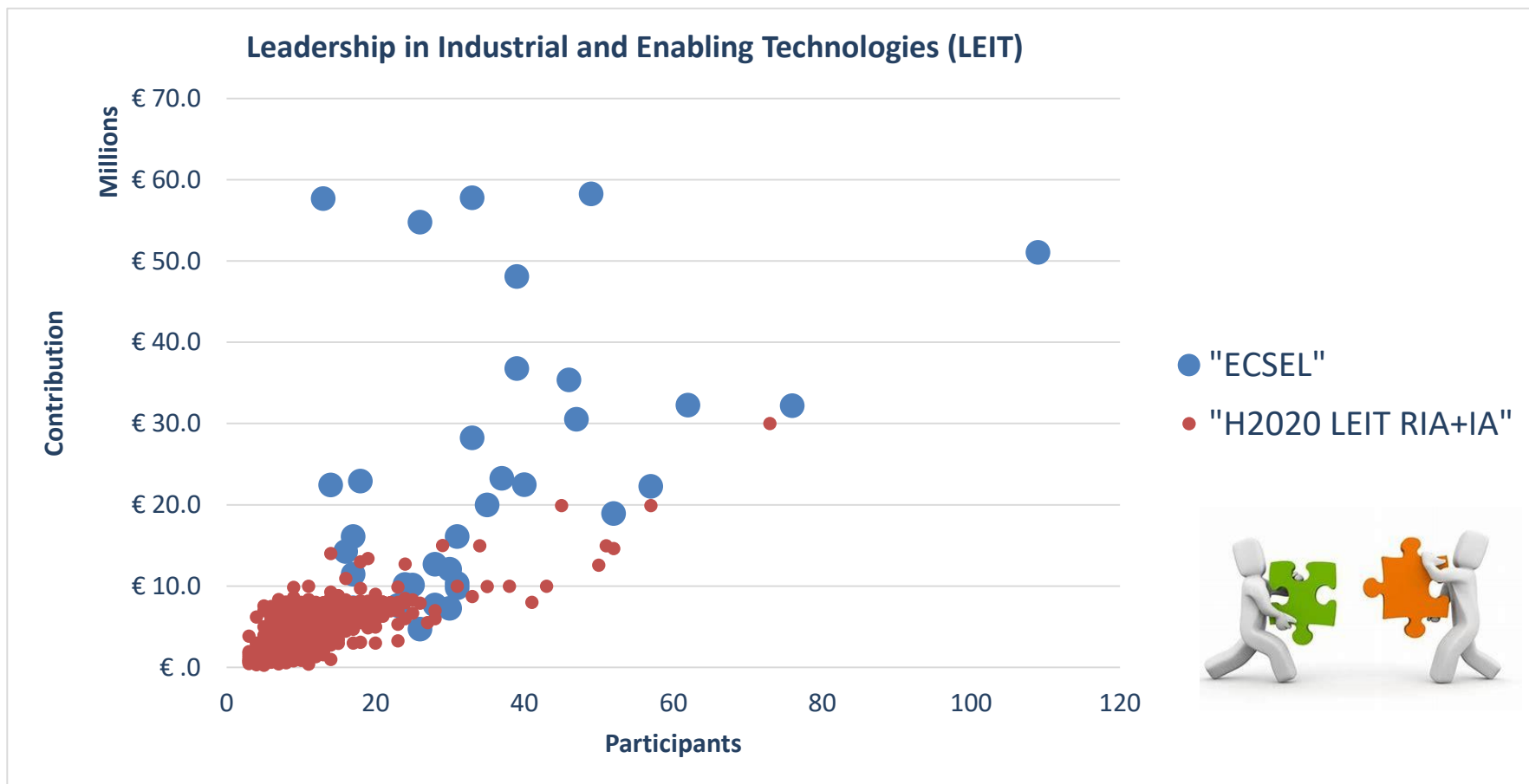
ECSEL JU model: working together



- FD-SOI for IoT
- More Moore Technology
- CPS with mixed HW/SW
- More than Moore IC-Technology
- More than Moore pilot lines for ISS
- CPS platform developments
- Integrated Smart Systems
- Digitalisation of Industry
- Other Components



ECSEL JU model: investing together



ECSEL JU in figures

- 10 Calls, 64 Projects
- More than 2100 participations
- 3.4 bn€ RDI costs
- 1.6 bn€ EU and National funding
- 1.8 bn€ industries own financing
- 3 Lighthouse Initiatives:
 - ✓ Industry4.E
 - ✓ Mobility.E
 - ✓ Health.E



Conclusion



THE ECSEL JOINT UNDERTAKING

- Is a PPP with an effective tripartite model (EU, PS and Private);
- Creates a strong ecosystem (LE, SME, RTOs, Universities);
- Secures a significant leverage effect;
- Is a strategic program.

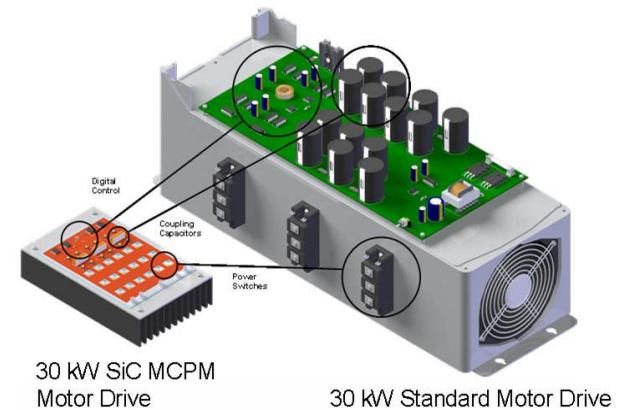
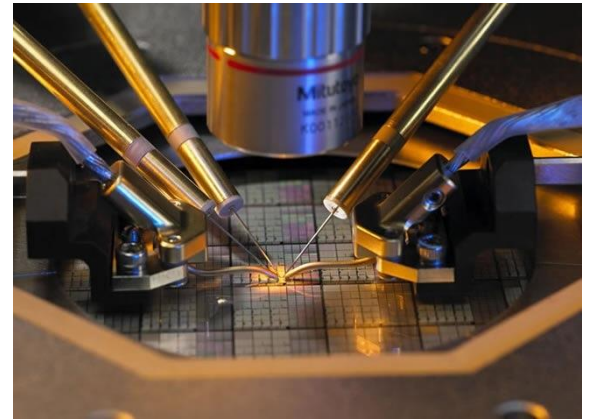
Thank you for your attention!

Luciano GAUDIO
Stakeholder Relations & Communication Officer
ECSEL Joint Undertaking
Avenue de la Toison d'Or 56-60,
B-1060 Brussels, Belgium
T: +32 (0)2 541 8405
E: Luciano.Gaudio@ecsel.europa.eu
W: www.ecsel.eu



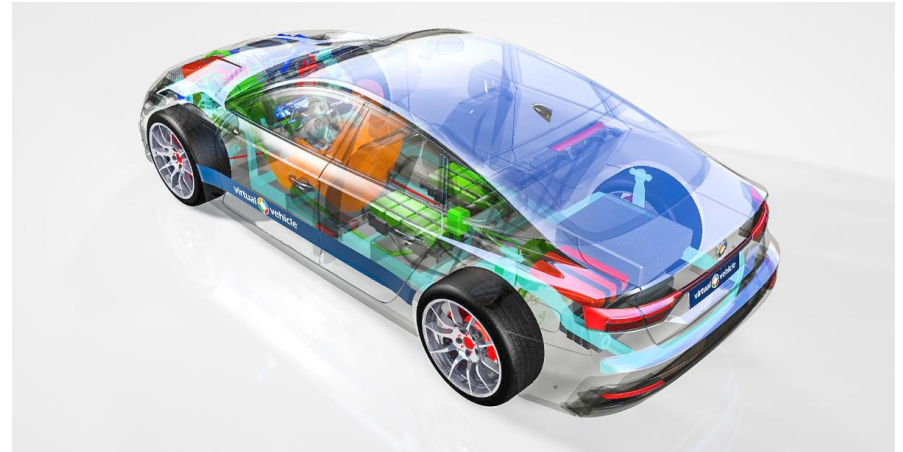
PARTICIPATION AND IMPORTANCE OF ECSEL IN SLOVAKIA

- ECSEL is chance to start cooperation in Europe in electronic components and systems R&D
- ECSEL is important for Slovakia for networking, international cooperation and development
- Partnership between universities and industry is of high importance
- ECSEL contributes to join projects with large number of EU partners (usually over 30)
- Slovak partners receive access to many high-tech areas which are then used for production innovations in various industrial branches.



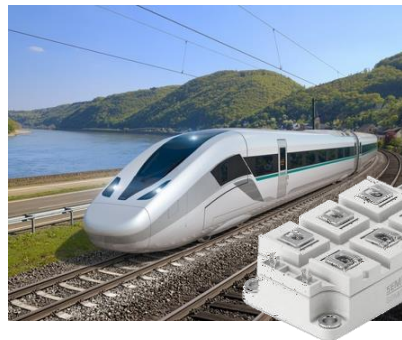
PARTICIPATION AND IMPORTANCE OF ECSEL IN SLOVAKIA

- Participation in ECSEL project provides great business challenges and opportunities
- ECSEL stimulates Slovak hardware research and production
- Each newly created HW position is multiplied to 7-9 new positions in SW
- The gained knowledge and experience considerably stimulates the research environment
- Academia – industrial research contributes to education of new technical generation



SLOVAK PARTNERS IN ECSEL CALLS

- Involvement of Slovak institutions in ECSEL
19 projects, 32 partners, 2 uni, 1 LE, total budget 15 MEur
 - Electronic circuits and systems design and testing
 - Reliability testing, power electronics
 - Design and optimizing of IC's, close collaboration with most advanced semiconductor companies
- Exploitable results
 - New designs for low efficient and decarbonized transportation and energy production
 - New testing procedures for energetic sustainability
 - Implementation of advanced technology into next R&D
 - Effective international collaboration with leading EU semiconductor companies



PARTICIPATION OF SLOVAK PARTNERS IN ECSEL CALLS

Thank you for your attention

Daniel Donoval

Slovak Public Authority Board of ECSEL

