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# PARTICIPATION OF SLOVAK PARTNERS IN ECSEL CALLS

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Public Authority Board of ECSEL in Slovakia



# SLOVAK PARTICIPATION IN ECSEL CALLS

- Previous involvement of Slovak institutions in ECSEL in over 25 projects with total budget >5 Meur
- Potential involvement of Slovak institutions in KDT particularly in following areas:
  - Electronic circuits and systems design and testing, complex characterization
  - Reliability testing, power electronics, Design and optimizing of IC's,
  - Close collaboration with most advanced semiconductor companies in Slovakia and abroad
  - Demonstrators in key digital technologies
- 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, calibration of electrophysical models
  - Effective international collaboration with leading EU semiconductor companies
  - Academia – industrial research contributes to education of new technical generation

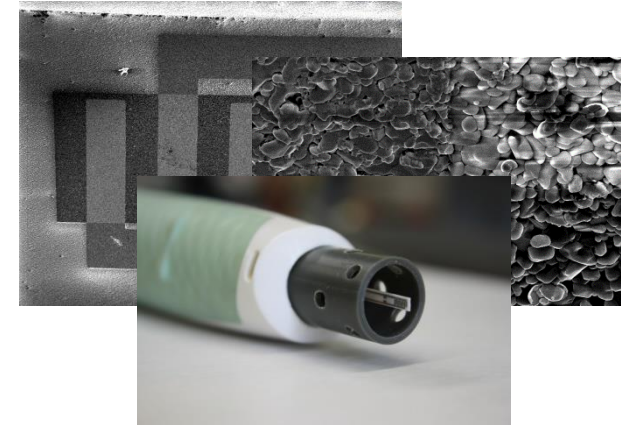


Smart devices for assisted healthcare and flexible probes (NanoDesign )

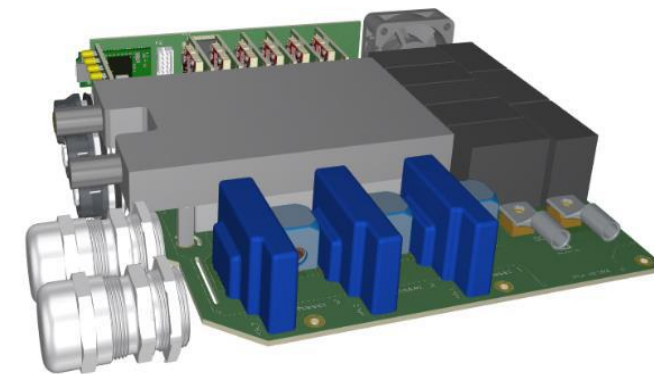


## PARTICIPATION AND IMPORTANCE OF ECSEL IN SLOVAKIA

- Slovakia is a worldwide leader in car production per capita and the government intensively supports transformation towards e-mobility
- ECSEL (AENEAS) is important for Slovakia for networking, international cooperation and development in KDT as well as in the participation in EU consortiums in KDT projects
- Partnership between Slovak Universities and SME's and EU industry is of high importance and strongly supported by Slovak government
- Slovak partners usually receive 100% of the requested funding as the government supports the KDT program with high priority



Gas sensing system with nano structured surface for NO<sub>2</sub> detection (STU BA)



Design of power inverter with hybrid power modules for electric sport car (STU BA)



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# Thank you for your attention

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