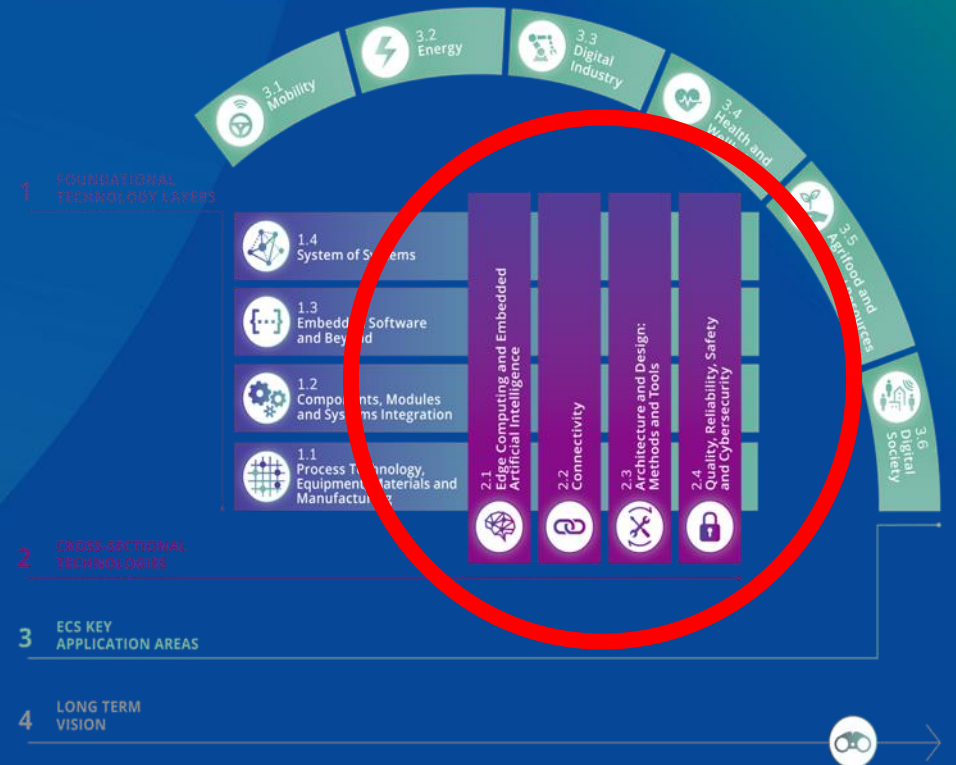


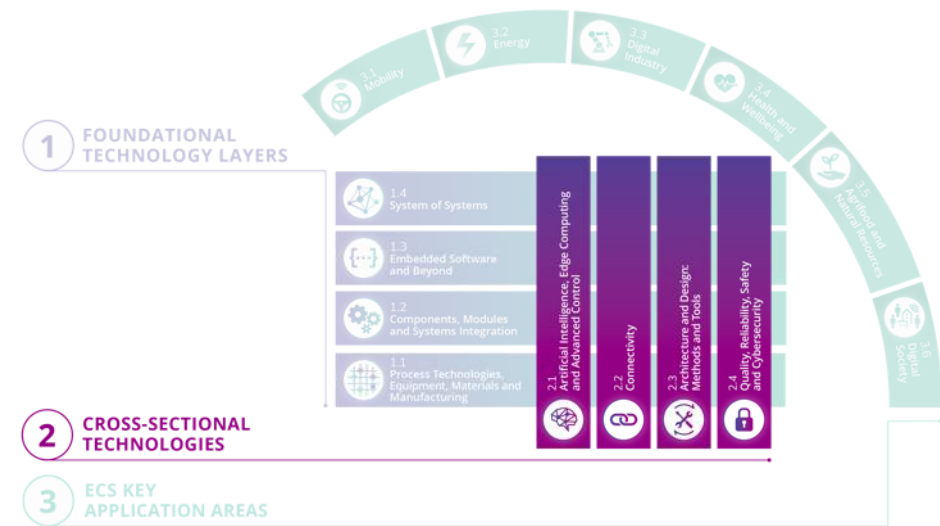
Part 2

Cross Sectional Technologies



Cross sectional technologies

- Four Cross-Sectional Technology chapters focus on transversal areas, where innovative results emerge from the interdisciplinary contribution of the foundational layers: they potentially contribute to/depend on all the layers of the technology stack.
- E.g.: embedded intelligence on the edge requires
 - new integrated circuits
 - to develop innovative electronic components
 - that can be used to develop smarter and more connected components, modules and entire systems,
 - running smart software that will offer new functionalities and capabilities
 - that will allow these systems to interact, cooperate and merge in larger Systems of Systems.
- The innovation generated by cross-sectional technologies influences foundational layers and amplifies the effect of innovation also in the application domains.



Part 2 Chapters

- 2.1 – Edge computing and embedded Artificial Intelligence
 - Marc Duranton, CEA
- 2.2 – Connectivity
 - Jerker Delsing, Lulea University of Technology
- 2.3 – Architecture and Design: Method And Tools
 - Jürgen Niehaus, SafeTRANS
- 2.4 – Quality, Reliability, Safety And Cybersecurity
 - Daniela Cancila, CEA