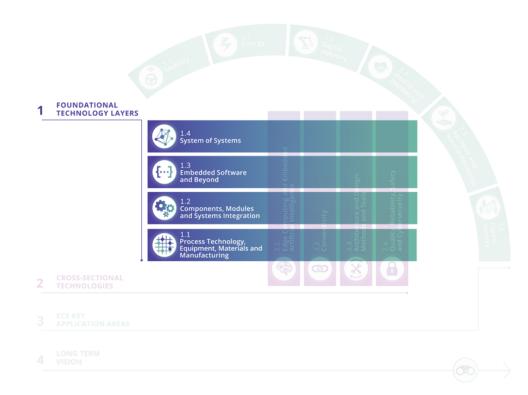# Part 1
Foundational Technology Layers

Foundational technologies

- The Foundational Technology Layers cover the technology stack of a typical digitalization solution based on ECS.

- The chapters have hierarchical dependencies, due to the inherent nature of ECS and the way they compose and integrate in complex entities.

- "Foundational" because are essential for creating the main components of a digitalization solution.

- Represent a very fertile ground where new interdisciplinary technologies, products and solutions can grow.

Part 1 Chapters

- 1.1 – Process Technology, Equipment, Materials And Manufacturing
  - Arco Krijgsman, ASML
- 1.2 – Components, Modules and Systems Integration
  - Matthias Kühnel, Robert Bosch
- 1.3 – Embedded Software and Beyond
  - Jasmin Jahic, University of Cambridge
- 1.4 – System of Systems
  - Jerker Delsing, Lulea University of Technology