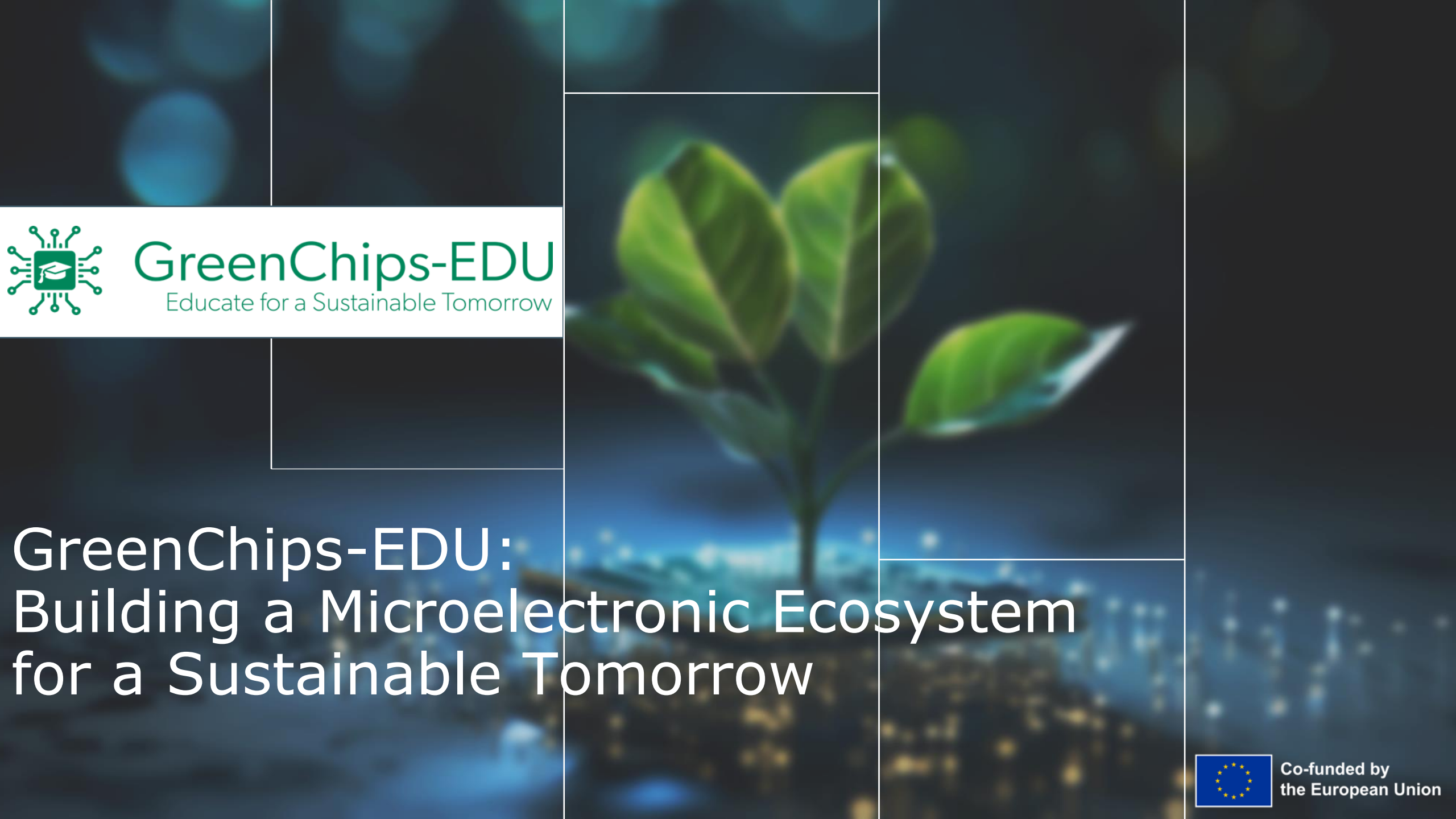


GreenChips-EDU
Educate for a Sustainable Tomorrow

GreenChips-EDU: Building a Microelectronic Ecosystem for a Sustainable Tomorrow

Co-funded by the European Union

About Us

Bernd Deutschmann
Professor

Dominik Zupan
PostDoc

Nikolaus Schaffer
PostDoc

Institute of Electronics, Graz University of Technology
Graz, Austria
bernd.deutschmann@tugraz.at; dominik.zupan@tugraz.at; czepl@tugraz.at

The Project at a Glance

- **Project Name: GreenChips-EDU**
  Building a Digitally-Supported Education Ecosystem for Next Generation Microelectronics Experts in Sustainable Chips and Applications for a Green and Circular Economy

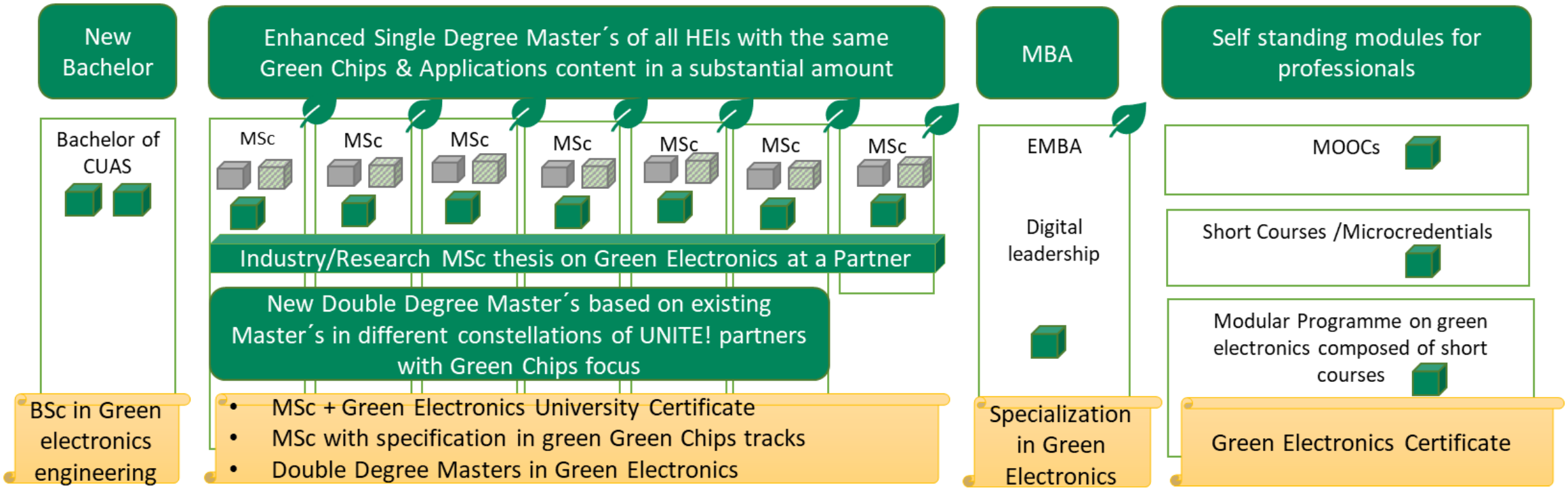
- **EU Programme:** Digital Europe Programme (DIGITAL)
- **Call:** DIGITAL-2022-SKILLS-03-SPECIALISED-EDU
- **Duration:** 48 months
- **Total budget:** 14 339 172€ **EU Funding:** 50%
- **15 key players** from **7 EU countries**,
- **6 Unite! Partners**

Motivation

- Need of **experts in green chip development**, shortage of microelectronics talent in Europe
- **Increased interest in sustainability** topics among students
- The GreenChips-EDU project addresses challenges by offering **education in both green and digital microelectronics technologies**
- Project aims at **developing expertise aligned with industry needs**

Goal: Building a digitally supported education ecosystem for microelectronics.

GreenChips-EDU Education Ecosystem



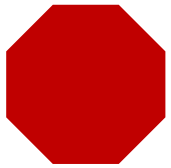
Lessons Learned

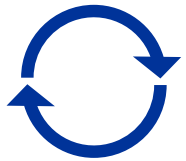
GreenChips-EDU
Educate for a Sustainable Tomorrow

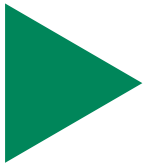
EUROPEAN CHIPS SKILLS ACADEMY

AT-C³

METIS

STOP 

CONTINUE 

START 

Lessons Learned

STOP

- Focus on rigid curricula
- Introduce static double degrees
- Focus only on technical topics

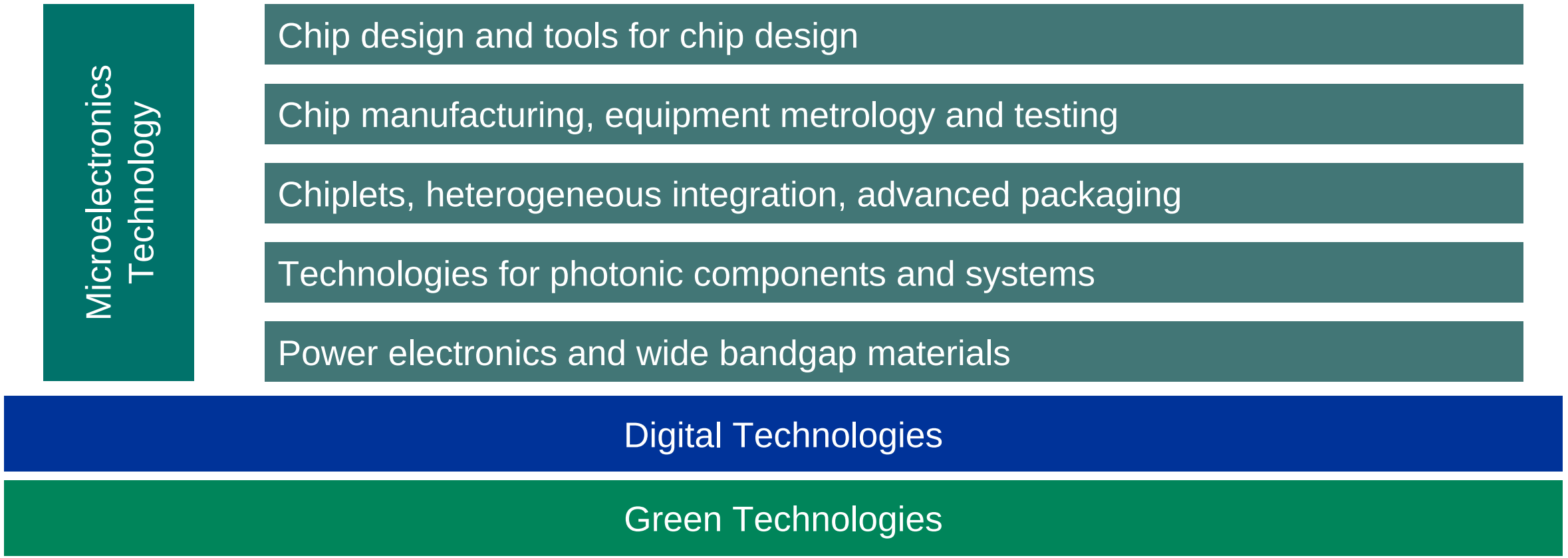
CONTINUE

- Exploit synergies on European level
- Develop shared, reusable OERs
- Focus on green transition
- Support digital literacy
- Promote an EU-wide understanding of „green microelectronics“

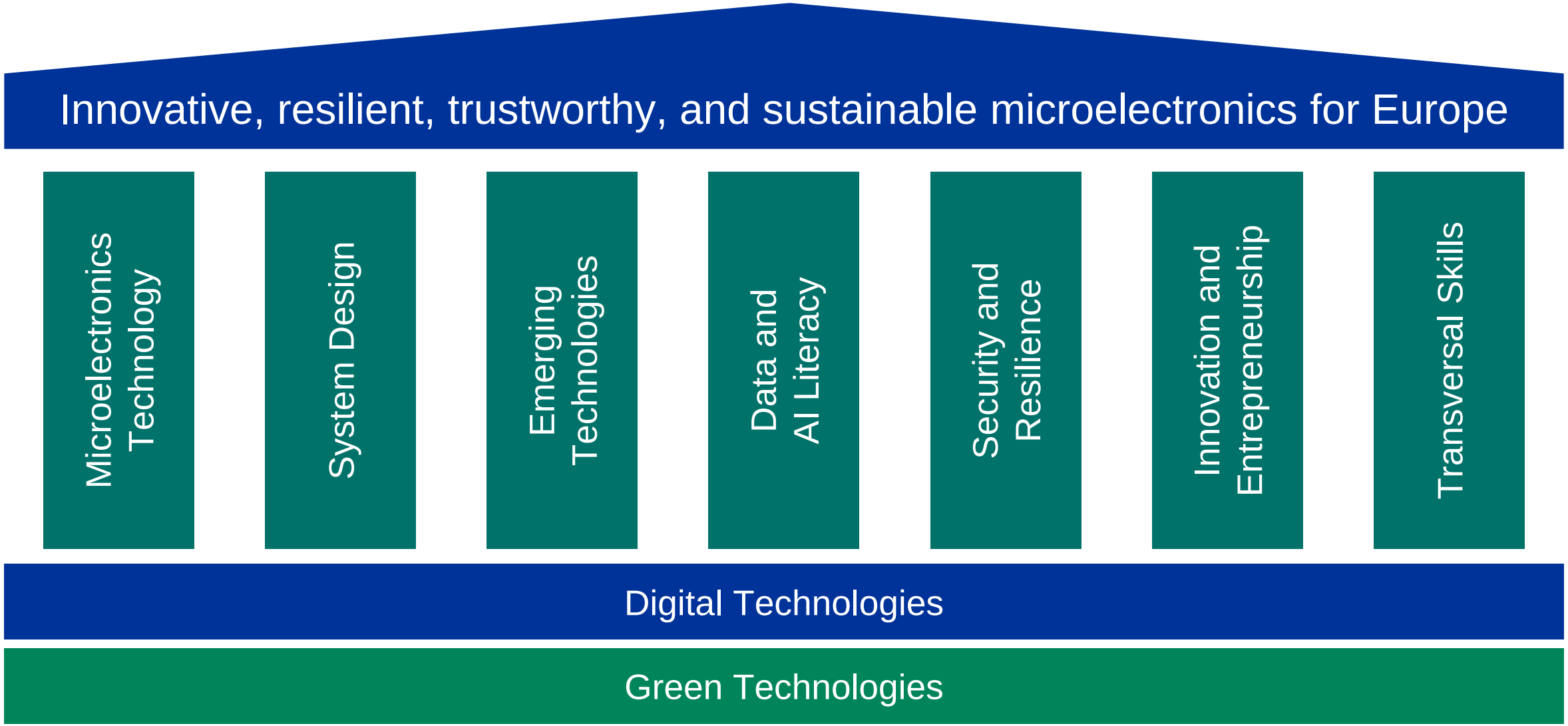
START

- Focus on emerging technologies
- Introduce innovation and business-related competences
- Introduce AI-related competences
- Define competence-based curricula
- Develop modular and accessible learning and recognition
- Treat OERs as long-term infrastructure
- Reduce fragmentation

Future of Microelectronics Education?



Future of Microelectronics Education?



Contact and Further Information

GreenChips-EDU
Educate for a Sustainable Tomorrow

https://www.greenchips-edu.eu/

AT-C3

https://atc3.at/

EUROPEAN CHIPS SKILLS ACADEMY

https://chipsacademy.eu/
ecsa.ife@tugraz.at

Bernd Deutschmann bernd.deutschmann@tugraz.at
Dominik Zupan dominik.zupan@tugraz.at
Nikolaus Schaffer czepl@tugraz.at