

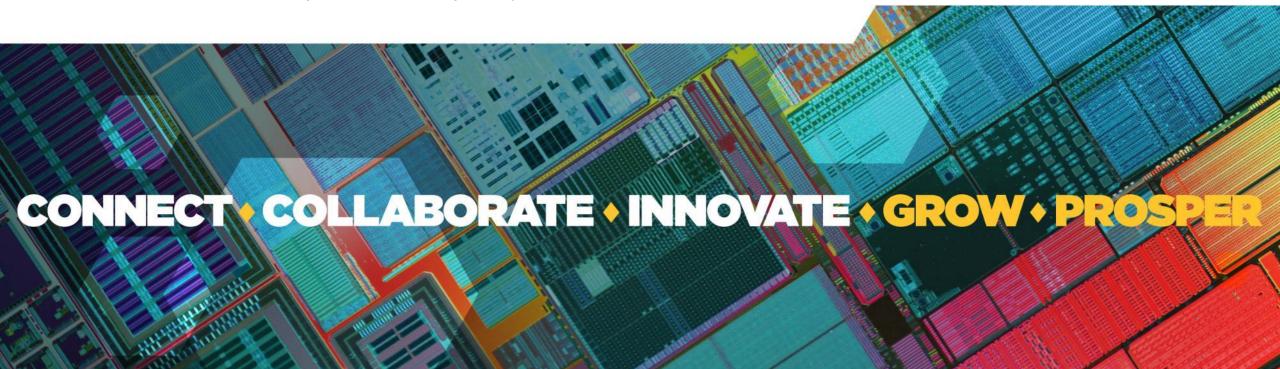




## METIS: MicroElectronics Training, Industry and Skills

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### METIS Partnership



**XIALFVG** 

The ICT Talent Pipeline



**Sector Skills Alliance** 

**Building Blocks** 

Market research

& intelligence

DECISION



**Partners** 





















Erasmus+

covers the microelectronics ecosystem; multiple stakeholders; and all education levels (from high school to professional courses)



## METIS Partnership: a multi-stakeholder initiative



#### Industry

- SEMI
- Bosch
- Infineon
- X-FAB
- Graphene
- Silicon Saxony
- Summa
   Semiconductor
- Arcelik

#### Education

- imec.academy
- Dresden Chip Academy
- Tech Uni Graz
- Tech Uni Sofia
- Tech Uni Budapest
- IAL
- FIT
- Uni of SE Norway

## Strategy & Consulting

DECISION

#### **Civil Society**

- European
   Association of Women in Tech
- European
   Association of
   Career
   Guidance in
   STE(A)M

#### Public

 CIMEA (Certification Body)



## METIS key goals



Programme co-funded by the European Union

Establish an EU Microelectronics Observatory & monitor key trends (technical, social, political...) and their impact on businesses' skills needs

Provide education institutions with industry feedback on the needs of next generation microelectronics training

Innovative Learning: Develop innovative curriculum & mechanisms of delivery (blended education: modular, work-based + online learning)

Embed sustainability & social responsibility policy principles at work

Support cross-border labour / student mobility in Europe



## **METIS KPIs**



Programme co-funded by the European Union

#	KPI	Quantification
1	Skills Strategy	1
2	Best practices of training	20
3	Monitoring Methodology	1
4	Yearly Monitoring Reports	3
5	Occupational Profiles	3
6	METIS Curriculum	1
7	Training Modules	43
8	Learners involved in validation	900
9	MoU signed for recognition/certification	100
10	Learners using the Open Education Platform	2,000
11	Education providers adapting METIS curriculum	200
12	Long Term Action Plan	1
13	Microelectronics Observatory & Skills Council	1
14	Stakeholders participating in Observatory & Skills	150
	Council	



## METIS: focused on key technologies & skills development



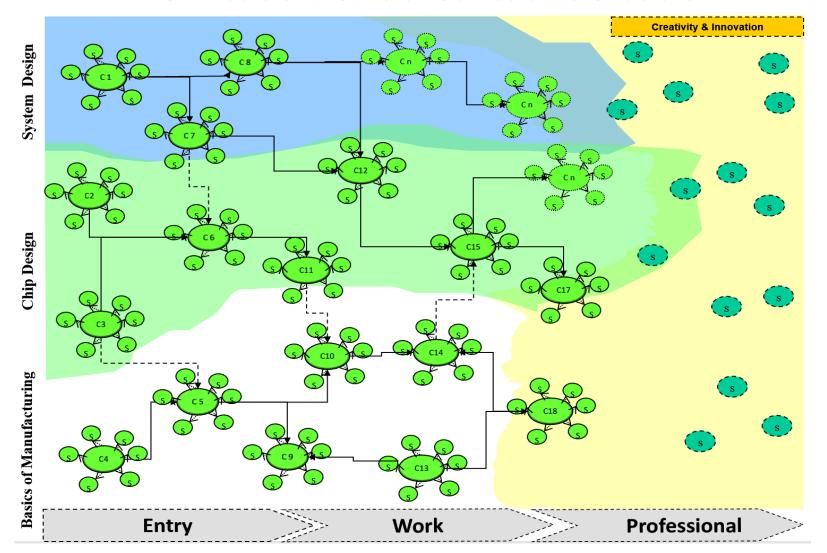
Area	Total Teaching Hours	# of Modules	EQF levels (4: technician – 7:engineer)
1. Component Design	300	10	4 to 6
2. System Design	400	13	4 to 6
3. Basics of manufacturing	300	10	4 to 6
4. Key Competences & Innovative Thinking	100	10	5 to 7

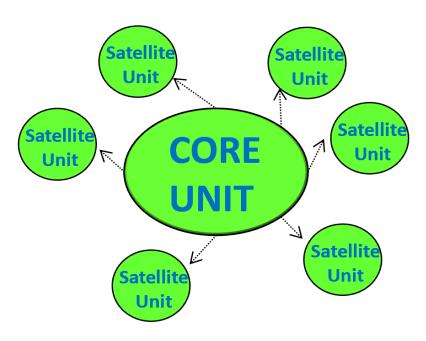


## METIS approach: Modular & Innovative



METIS Module and Units & Curriculum's Structure





#### **METIS Governance**



#### **Education & Training**

- Skills Catalogue
- Occupational Profiles
- Training content
- Mobility mechanisms
- Placement

#### **Policy Formulation**

- Strategic vision for the sector
- Identification of priority areas
- Input to evidence-based policy making
- Opinion papers
- Evidence filtering and amplification

#### Provides tools and solutions to VET Systems & informs policy making

#### SKILLS COUNCIL

Technical consultations, scenario setting and input provision

**Vertical Working Groups** 

## Observatory Skills Council

#### **ASSEMBLY**

Composed of stakeholders oversees and steers the Observatory and Skills Council

# Cross-Sectoral Working Youth & Gender Groups Green Industry Digitalisation ARTIFICIAL INTEL MATERIALS Digitalisation

Globalisation

#### OBSERVATORY

Monitoring, foresight and strategy setting

#### **SECRETARIAT**

Management, coordination, operational continuity and financial sustainability



## Branding:

## METIS: MicroElectronics Training, Industry and Skills



METIS embodies strong European values and representation: the logo represents the European Flag stylised as a microprocessor component, with the stars as elements of the circuitry

METIS was inspired by Greek Mythology: **Metis** was the **goddess of wisdom, prudence and deep thought, good counsel and cunning**. The Acronym reflects the ambition of the proposal that aims at becoming the source of:

- "wisdom" for the employees current and prospective of the microelectronics sector through the innovative METIS curriculum and training tools;
- "good counsel" for the policy makers, by informing the evidence-based policy formulation through the Skills Strategy, the Long-Term Action Plan and the Observatory & Skills Council
- "cunning" for the industry to regain and maintain global leadership in this critical sector









## Thank you! Questions?

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