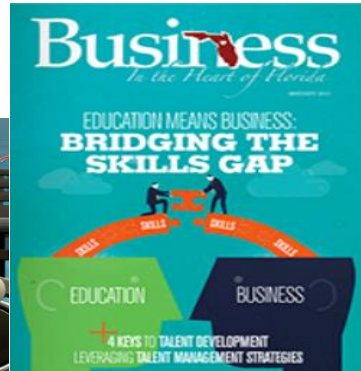


# European initiatives to support skills



**Ana-Maria Grigore**  
DG RTD  
Industrial Technologies  
D.1 – Strategy

# How does the future look like?



# Challenges and future trends



## The 2020 Workplace

- Networked
- Flexible
- Integrated
- Open
- Innovative

## Critical skills for the workforce

- Social Intelligence
- Novel and adaptive thinking
- Cross-cultural competency
- Computational thinking
- Transdisciplinary
- Virtual collaboration

## Skills demand in 2020

- Complex problem solving
- Critical thinking
- Creativity
- People management
- Co-ordinating with others
- Emotional intelligence
- Judgment and decision-making
- Service orientation
- Negotiation

# Digitisation is transforming the economy

## Today's hospital doctors need digital skills



digital translation software  
electronic medical records  
patient monitoring, diagnosis & treatment systems

**Benefits:**

- facilitates communication between doctors & patients
- improves access to medical information
- allows doctors to save time and to treat more patients

#EUSkillsAgenda

## Today's industrial machine operators need digital skills



computer-aided design  
manufacturing & machining  
calculating software

**Benefits:**

- faster manufacturing & reduced errors
- less hard, manual, repetitive tasks
- manufacturing processes more sustainable.

#EUSkillsAgenda

## Today's VET teachers need digital skills



• Learning management systems  
• Virtual learning platforms  
• Digital simulation technologies

INTERACTIVE WHITE BOARD

**Benefits:**

- improved communication between teachers & students
- improved quality of learning
- increased safety

#EUSkillsAgenda

## Today's farmers need digital skills

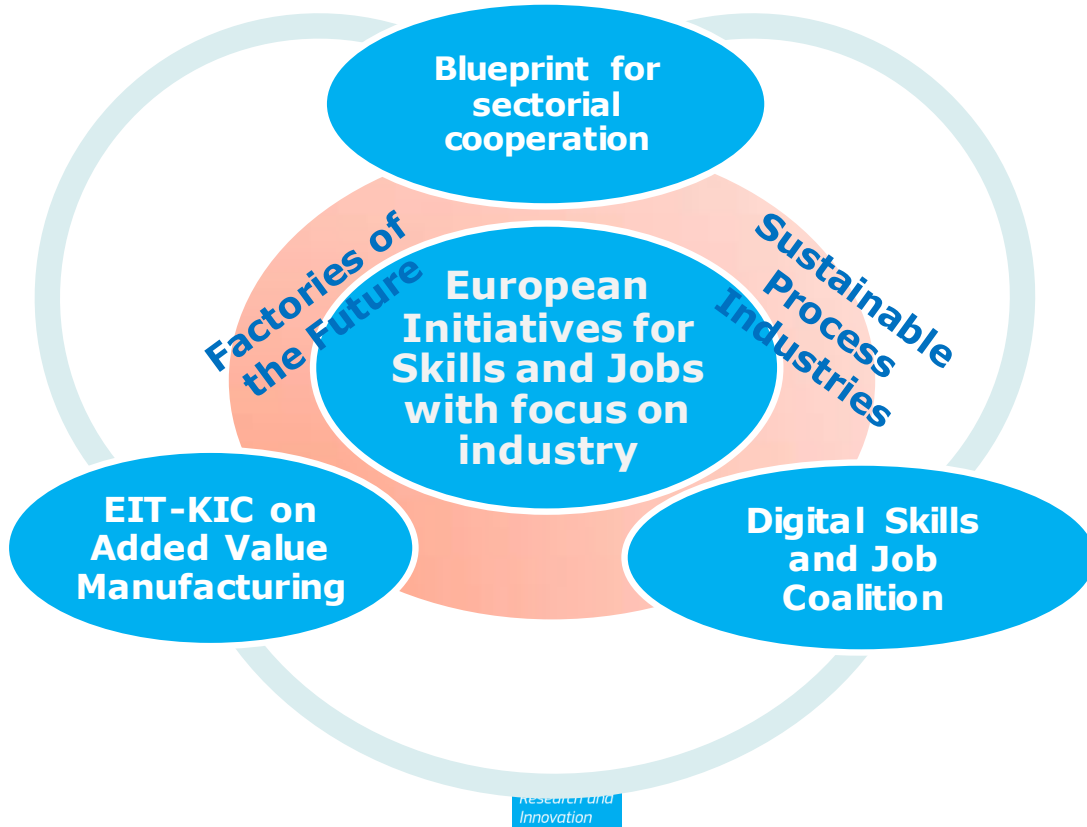


Herd vaccination  
Automated Irrigation  
Crop monitoring  
Farm management

**Benefits:**

- improved decision making
- less repetitive & physically demanding tasks
- increased flexibility, productivity & animal health

#EUSkillsAgenda



# Blueprint as part of the European Skills Agenda

*10 actions on training and skills...*

## Skills formation

- Upskilling pathways
- Key Competences Framework
- Vocational Education and Training (VET)
- Digital Skills and Jobs coalition

## Visibility and comparability

- European Qualifications Framework (EQF)
- Skills Profile Tool Kit for Third-Country Nationals

## Skills intelligence

- Europass
- Blueprint for Sectoral Cooperation on Skills
- Brain drain
- Graduate tracking

## Blueprint for Sectoral Cooperation on Skills



Framework for strategic cooperation between key stakeholders. To increase the **talent pool** and deliver **sector-specific skills** solutions

Funded under ERASMUS+



	<b>2017 sectors</b> Start date: Jan 2018	<b>2018 sectors</b> Start date: Jan2019	<b>2019 sectors</b> Application deadline: end-Feb 2019  Start dates: Nov 2019, Dec 2019, Jan 2020
Automotive	Additive manufacturing	Bio-economy, new technologies and innovation in agriculture	
Maritime technology	Construction	Batteries for electro-mobility	
Textile-clothing-leather-footwear	Maritime shipping	Defence technologies	
Space (earth observation)	Steel	Energy value chain – digitalisation	
Tourism		Energy-intensive industries/industrial symbiosis	
		Microelectronic manufacturing & design	

# Digital Skills and Jobs Coalition

Network that brings together Member States, companies, social partners, non-profit organisations and education providers.

## Priority areas for action



**Innovative learning & education, including "coding"**



**Awareness raising**

**ICT training**



**Mobility**



**Certification**



# European Institute of Innovation & Technology - Existing KICs

EIT Climate-KIC



EIT Raw Materials



EIT Digital



EIT Health



EIT InnoEnergy



EIT Food



## New KICs

Decision December  
2018



2018 Call for Proposals



**EIT Urban Mobility\***  
Smart, green and  
integrated transport



**EIT Manufacturing\***  
Added-value  
manufacturing

## CEDEOP work on exploring skill needs anticipation activities- no regional focus:

- Guides to skills anticipation and matching: developed six relevant guides on: [Using labour market information](#); [Developing skills foresights, scenarios and forecasts](#); [Working at sectoral level](#); [The role of employment service providers](#); [Developing and running an establishment skills survey](#); and [Carrying out tracer studies](#)
- [Assisting EU countries in skills matching](#): Database on skills anticipation and matching instruments - available online by December 2018.
- [Big data analysis from online vacancies](#): Preliminary results will be presented on the [Skills Panorama](#) in March 2019.

## Further information

**Horizon 2020:** [http://ec.europa.eu/research/horizon2020/index\\_en.cfm](http://ec.europa.eu/research/horizon2020/index_en.cfm)

**Key Enabling Technologies, R&I website :**

[http://ec.europa.eu/research/industrial\\_technologies/index\\_en.cfm](http://ec.europa.eu/research/industrial_technologies/index_en.cfm)

**Participant Portal** - Funding Opportunities and support services :

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

**National Contact Points in your country (NMP)**

[http://ec.europa.eu/research/participants/portal/desktop/en/support/national\\_contact\\_points.html#c.contact=country/sbg//1/1/0&+person.last\\_name/desc](http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html#c.contact=country/sbg//1/1/0&+person.last_name/desc)

**Research Enquiry Service:** <http://ec.europa.eu/research/index.cfm?pg=enquiries>

**CORDIS database with EU funded research projects :**

[http://cordis.europa.eu/projects/home\\_en.html](http://cordis.europa.eu/projects/home_en.html)

**European Institute of Innovation & technology:**

[www.eit.europa.eu](http://www.eit.europa.eu)

**Blueprint for sectorial cooperation:**

[http://ec.europa.eu/growth/content/new-skills-agenda-blueprint-sectorial-cooperation-skills-1\\_en](http://ec.europa.eu/growth/content/new-skills-agenda-blueprint-sectorial-cooperation-skills-1_en)

**Blueprint call for proposal- October 2018:** [https://ec.europa.eu/programmes/erasmus-plus/sites/erasmusplus2/files/erasmus-plus-programme-guide-2019\\_en.pdf](https://ec.europa.eu/programmes/erasmus-plus/sites/erasmusplus2/files/erasmus-plus-programme-guide-2019_en.pdf) p. 153

**CEDEFOP:** <http://www.cedefop.europa.eu/el>

**Digital Skills and Jobs Coalition:** <https://ec.europa.eu/digital-single-market/en/digital-skills-jobs-coalition>