



Funded by the  
Erasmus+ Programme  
of the European Union

Blueprint “New Skills Agenda Steel”:  
Industry-driven sustainable European Steel Skills Agenda and Strategy (ESSA)

## ESSA Online Mid-term Conference

### Skills and Jobs in the Future-Proven Steel Industry

27/28<sup>th</sup> of May 2021



27 May 2021 - First Day (1pm to 5pm // 13:00-17:00 CET)	
Sectoral Blueprint ESSA: How to define and adjust skills and jobs for a future proven Steel Industry?	
Moderation by Scott Chubbs (worldsteel)	
13:00-13:15	<b>Welcome and Agenda</b> Antonius Schröder, Project Leader ESSA (TU Dortmund University) Klaus Peters, Secretary General of ESTEP
13:15-13:35	<b>Welcome Notes European Commission:</b> <ul style="list-style-type: none"> <li>Gabriele Morgante (DG Internal Market, Industry, Entrepreneurship and SMEs)</li> <li>Felix Rohn (DG Employment, Social Affairs and Inclusion)</li> </ul>
Day 1	<b>ESSA - On the road to clean, green and smart steelmaking and its impact on future skills and high-value Jobs</b>
13:35-14:35	<b>ESSA Blueprint in a Nutshell - First Tools and Measures</b> <ul style="list-style-type: none"> <li>Overview of the Project - Blueprint Outline (Antonius Schröder, TU Dortmund)</li> <li>Online Skills Ecosystem - Pilot Training Course (Jorge Muract, worldsteel)</li> <li>Image and Recruiting - Steel Sector Careers Campaign (Phillip Babalis, Intrasoft)</li> </ul> Moderator: Scott Chubbs (worldsteel)
14:35-14:45	Erasmus+: Sector Skill Alliances: <b>Greening Technical VET (GT VET)</b> (Video) Veit Echterhoff (thyssenkrupp Steel Europe)
14:45-15:00	Break
15:00-15:45	<b>ESSA findings - Bringing Technology and Skills together (parallel Break-Out Sessions)</b> Moderator: Scott Chubbs (worldsteel)
Session 1	<b>Technological and Economic Development</b> in Steel Industry Moderation: Maria Murri (Rina/CSM), Valentina Colla (SSSA)
Session 2	<b>Industry Skills Requirements</b> for a future-proven Steel Industry Moderation: Felix Bayon / Aitor Goti / Tugce Akyazi (Sidenor)
Session 3	<b>VET Systems Requirements</b> to meet New Skills and Training Demands Moderation: Dean Stroud / Martin Weinel / Luca Antonazzo (Cardiff University)
15:45-16:50	<b>Future Skills - Other Findings and Perspectives</b> <ul style="list-style-type: none"> <li>Sectoral Blueprint: Automotive, Jakub Stolf (DRIVES)</li> <li>Clean Steel Partnership, Klaus Peters (ESTEP)</li> <li>Green Steel Project, Milan Elkerbout (CEPS)</li> <li>BEYOND4.0, Michael Kohlgrüber (TU Dortmund University)</li> </ul> Moderation: Antonius Schröder (TU Dortmund University)
16:50-17:00	<b>Wrap-up Day 1 - Introducing Day 2</b> Dean Stroud (Cardiff University) / Antonius Schröder (TU Dortmund University)

**28 May 2021 - Second Day (1:00 pm to 4:30pm // 13:00-16:30 CET)**

**Bringing the Blueprint to Life - Implementation and Rollout**

**Moderation by Scott Chubbs (worldsteel)**

<b>12:30</b>	<b>Time for Networking, Impressions and Feedback &amp; Pulse Check</b> Moderator: Clara Behrend / Mathias Cuypers (TU Dortmund University)
<b>13:00-13:10</b>	<b>Welcome and Topics of Day 2: Implementation and Rollout of the European Blueprint</b> Scott Chubbs (worldsteel) / Antonius Schröder (TU Dortmund University)
<b>13:10-14:15</b>	<b>Step into Action: Implementation and Rollout of the European Blueprint - Shaping the Future Steel Transformation together</b> Panel: Gabriele Morgante (DG Grow), Martin Kunkel (CIELFFA), Angels Orduna (A.SPIRE), Axel Eggert (EUROFER), Klaus Peters (ESTEP), Elspeth Hathaway (industriALL) Moderator: Miikka Nieminen (EUROFER)
<b>14:15-14:30</b>	<b>Break</b>
<b>14:30-16:00</b>	<b>Skills and Jobs in the Future Steel Industry</b> (parallel Break-Out Sessions) – Moderator: Scott Chubbs (worldsteel)
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<b>Session 3</b>	<b>The Regional Perspective: Regional Strategies for Future Skills in the Steel Industry</b> <ul style="list-style-type: none"><li>• Regional Ecosystem TataSteel (Joanne Kuipers)</li><li>• Clusters of Interest for the rollout:<ul style="list-style-type: none"><li>– SIDEREX, Felix Bayon (Sidenor) / Asier San Millán (SIDEREX)</li><li>– Polo del Acero, Daniel Fernandez (Polo del Acero) / Juan José Arias Alvarez (Arcelor Mittal Spain)</li><li>– Sustainable Steel Region North Middle Sweden, Larz Ignberg</li></ul></li></ul> Moderator: Joanne Kuipers (TataSteel)
<b>16:00-16:15</b>	<b>Future Funding Possibilities by Erasmus+</b> Urška Primec (The Education, Audiovisual and Culture Executive Agency EACEA)
<b>16:15-16:30</b>	Wrap Up, Next Steps and Farewell





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## ESSA Online Mid-term Conference Skills and Jobs in the Future-Proven Steel Industry

*Overview of the Project - Blueprint Outline*

Antonius Schröder  
TU Dortmund University



# Erasmus+: Sectoral Blueprints (Skills Alliances)

## 2018

- Automotive
- Maritime Technology
- Space - Geo Information
- Textile
- Tourism

## 2019

- Additive manufacturing
- Construction
- Maritime Shipping
- **Steel Industry**

## 2020

- **Industrial Symbiosis**
- Digitalisation of Energy
- Batteries
- Defence
- Bio-Economy
- MicroElectronics

## 2021

- Blockchain
- Cultural heritage
- Cybersecurity
- Rail supply and transport industries
- Work integration social enterprises
- Software services

# European Steel Skills Alliance



Blueprint "New Skills Agenda Steel":  
Industry-driven sustainable European Steel Skills Agenda and Strategy (ESSA)

EU Programme: ERASMUS+ "New Skills Agenda"  
Duration: January 2019 – December 2022  
Funding: 4 Mio. Euro  
24 Partners + 16 associated partners

Co-funded by the  
Erasmus+ Programme  
of the European Union





# Objectives

## Expected results:

- **Adjusting the workforce proactive**, to deploy and implement new technologies aiming at an optimisation of the production process
- **Monitoring and shorten the implementation of industry relevant qualifications and training**
- **Political support** measures by mobilising and integrating stakeholders and policy makers of the EU and national level;
- Successful cross-sectoral **upskilling schemes** and efficient management of knowledge;
- More **attractiveness of the industries** and careers for talented people (recruitment and retention)

## ➤ Our mission:

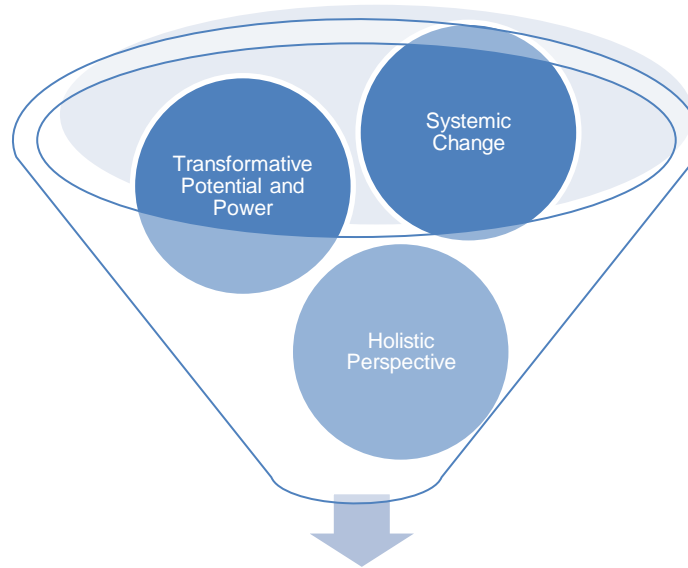
**Industry driven proactive adjustment of future skills  
with the industry and for the industry**

# ESSA:

## Programmatic orientation and main challenges

### Main challenge:

- Broad range of
  - Relevant new technologies
  - Concerned job profiles
  - Affected production areas (including maintenance)
- What kind of skills adjustment strategy is needed?



***New social practices***  
(based on new infrastructures, cultures, behaviour, mindsets, routines)

***New Alliances***  
(new constellations; roles, tasks and responsibilities; reciprocal interplay)



# ESSA Partners: A European Steel Community Involvement

**tu** technische universität dortmund

**CARDIFF UNIVERSITY**  
PRIFYSGOL CARDIFF

**INSTITUTE OF COMMUNICATION, INFORMATION AND PERCEPTION TECHNOLOGIES**  
**Sant'Anna**  
School of Advanced Studies - Pisa

**sidenor**

**SALZGITTERAG**  
Stahl und Technologie

**Łukasiewicz**  
Instytut Metalurgii Żelaza

**UNESID** **RIA**

**CIELFFA**

**VISIONARY ANALYTICS**

**thyssenkrupp**

**worldsteel**  
ASSOCIATION

**Deusto**  
University of Deusto

**KO**  
CORROSION & STEEL

**Technology Industries of Finland**

**CELISA GROUP**

**Federacciai**

**GSV**  
Belgian Steel Federation

**EUROFER**  
The European Steel Association

**TATA**

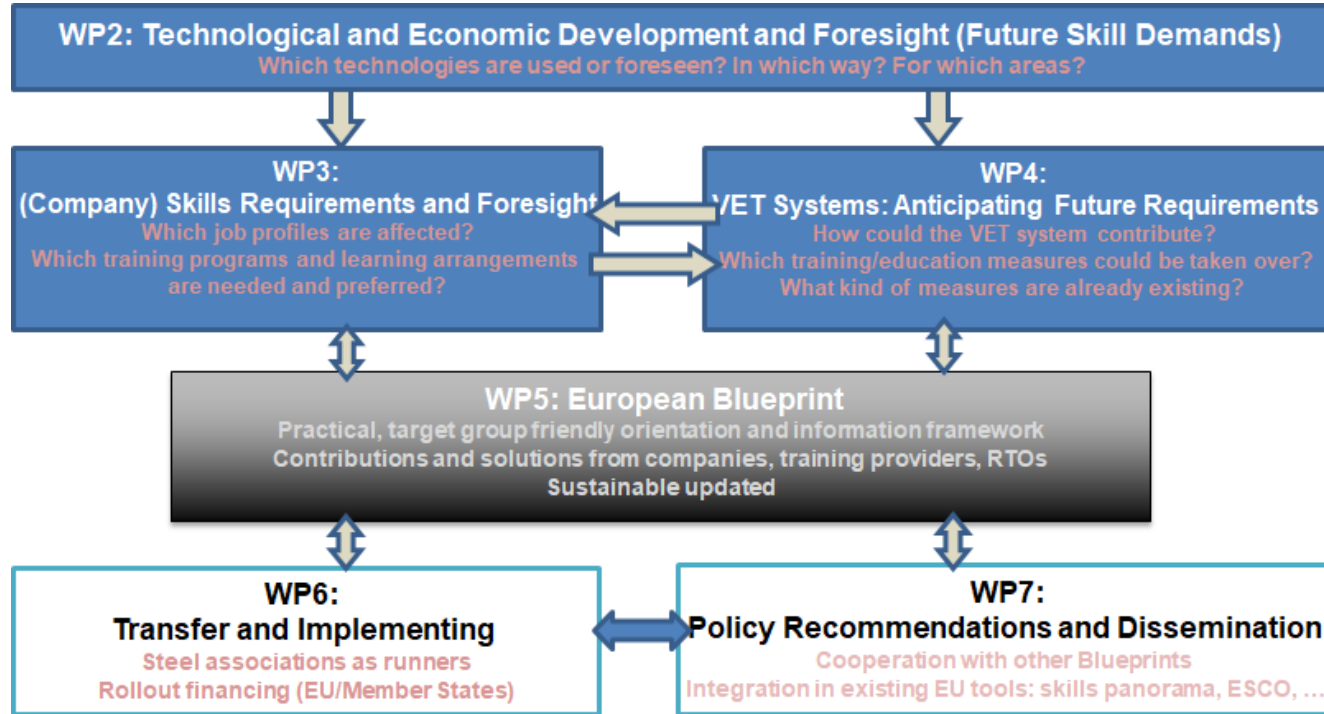
**Stahl** | Wirtschaftsvereinigung Stahl

**Stahl**

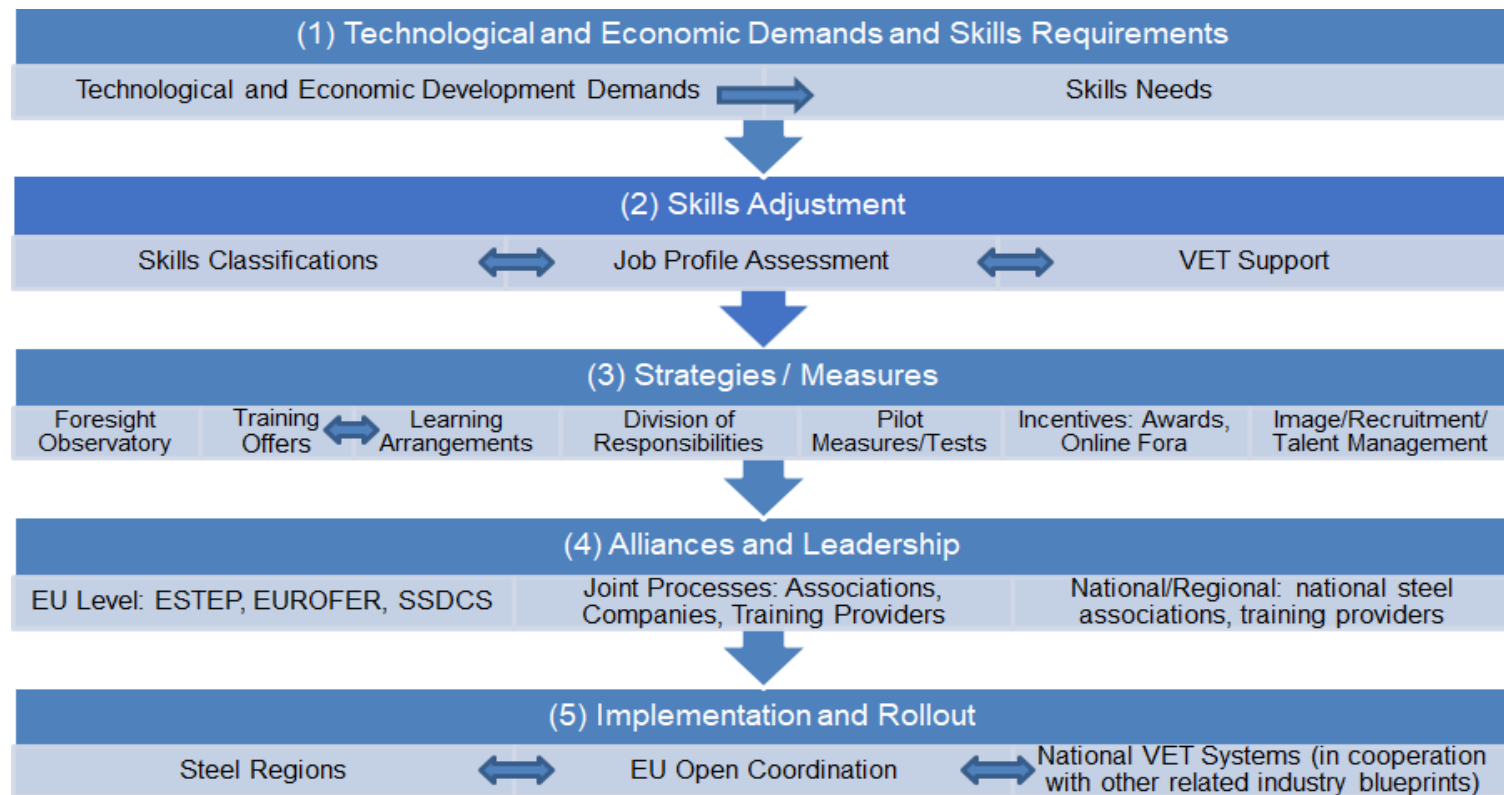
**ArcelorMittal**  
AM Poland SA  
AM Spain Holding

**ESSA**  
EUROPEAN STEEL SKILLS AGENCY

# Approach (Work Packages)



# ESSA Blueprint Prototype



## (1) Technological and Economic Demands and Skills Requirements

### Technology Development and Demands

- All recent Industry 4.0 technologies are in place
- Integration of all production systems

### Skills Needs

- Incremental up-skilling of existing job profiles:
- Buy-in of missing digital competences
- Recruiting talented people with digital skills

## (2) Skills Adjustments

### Skills Classifications



### Job Profiles



### VET Occupations

- 26 Family Trees with more than 200 Job Profiles
- 9 selected Pilot Job Profiles
- T-shaped skills (technical/professional, transversal)

- Combining job profiles with ESCO Occupations
- 5 different VET systems analysis (DE, ES, IT, PL, UK)

## (3) Strategies / Measures

### Foresight Observatory

### Training Offers



### Learning Arrangements

### Division of Responsibilities

### Pilot Measures and Tests

### Incentives: Awards, Online Fora

### Image/Recruitment/Talent Management

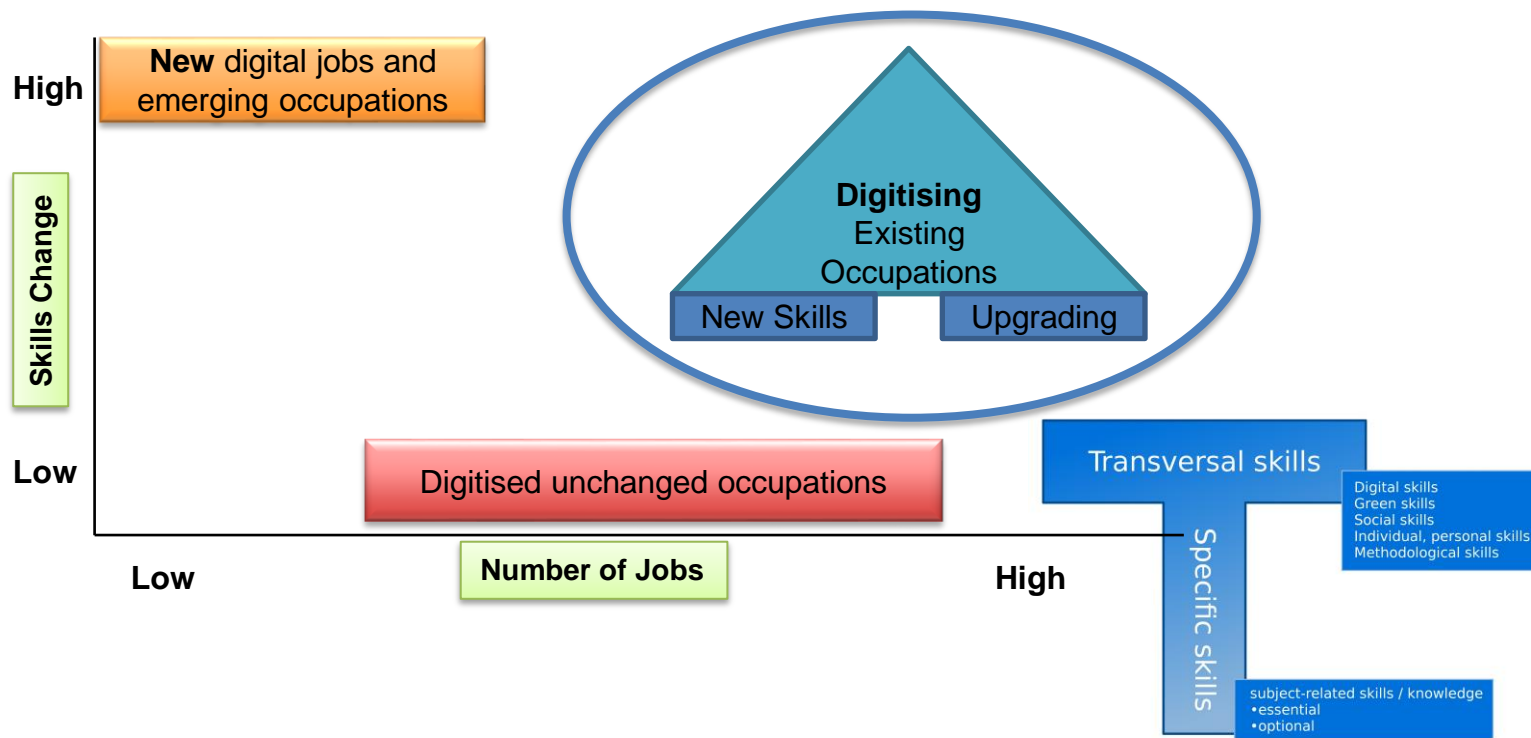
- European Technology and Skills Foresight Observatory (ESSA ETF)
- European Technology and Skills Foresight Panel (ESSA ETP)

### Connected Training Eco-systems:

- European Online Training Eco-system: steelHub (ESSA OTS)
- Regional Training Systems (ESSA RTS)

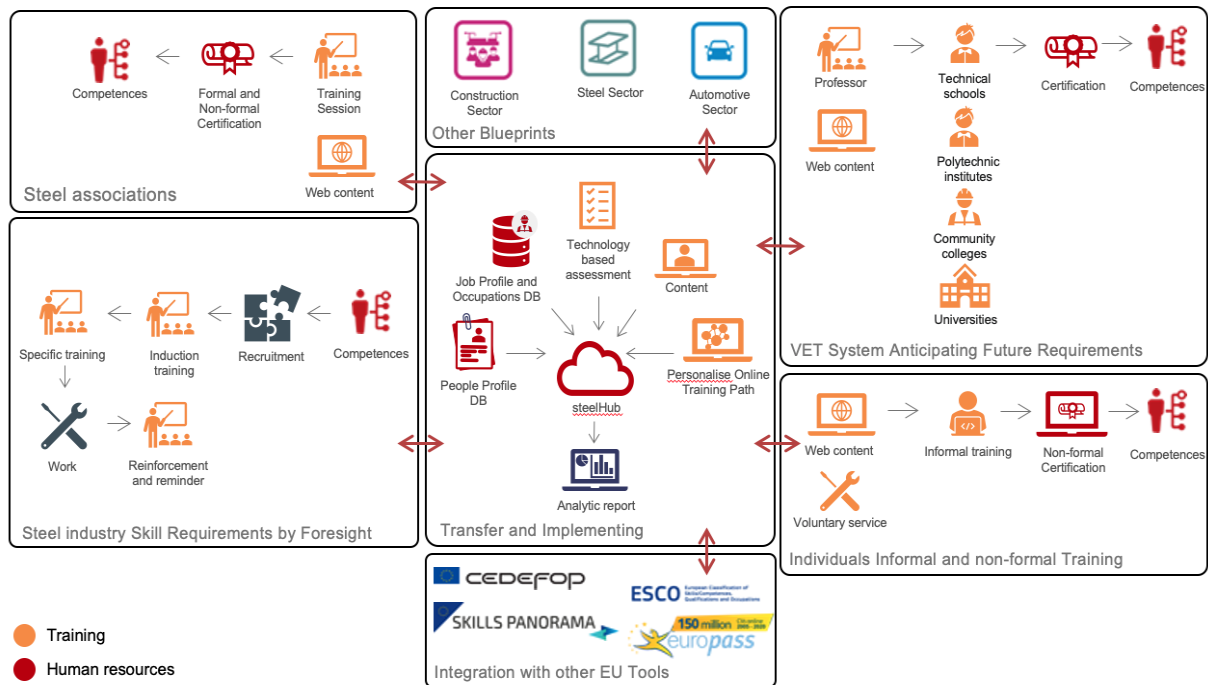


# Scenario of Digital Skills Development



Based on Schmid, CEDEFOP, World Congress on TVET, 13-16  
May 2012

# ESSA Online Training Ecosystem (ESSA OTS)



# European Steel Technology and Skills Foresight Observatory (ESSA ETF)

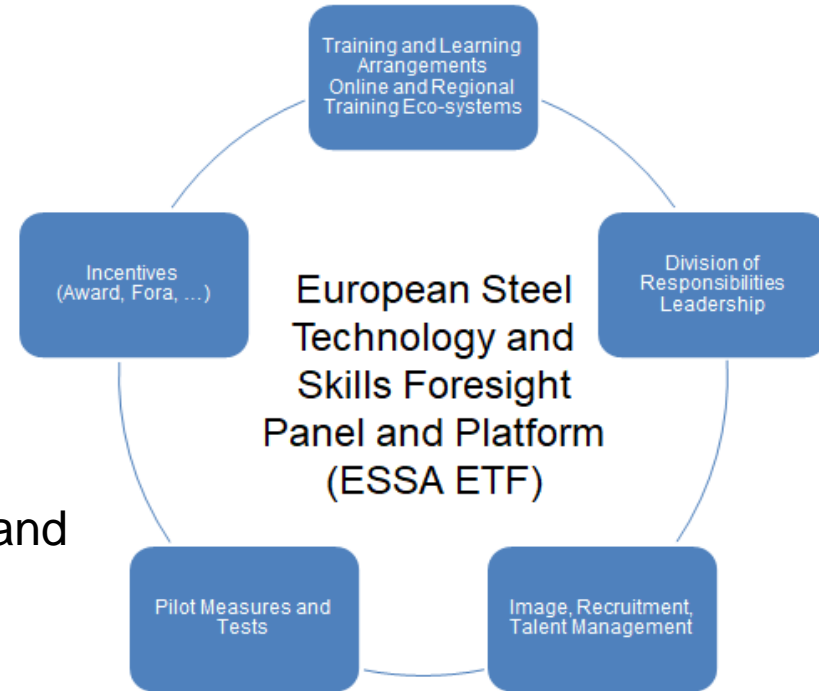
**Monitor and evaluate** regularly:

- Technological and Economic Development
- Industry Skills Requirements
- VET Systems Anticipation and Support of Future Skills

ESSA European Steel Technology and Skills Foresight Panel (**ESSA ETP**)

Online and Regional Training Eco-Systems connection and support

Train the trainer programs



# ESSA ETF Observatory Roadmap

Monitoring and adjustment of **skills (demand side)** and to organise **education and training (supply side)**

**Monitor and anticipate** new skills demands of the EU steel industry via the Foresight Panel (ESSA ETP)

Provide and promote training in **T-shaped skills** of the main job profiles concerned

Set-up and support the **Online and Regional Training Eco-Systems:**

- new learning arrangements, digital and on-the-job training, importance of lifelong learning, promote **(reverse) mentorship** as a way of knowledge transfer

Improve the **image** of the sector and careers within it

- EU-wide communication campaigns, advertise and promote job opportunities and good working conditions, image and awareness-raising campaigns (including underrepresented groups, such as women and migrants)
- Document and award best practices (of skills adjustments)



#### (4) Alliances and Leadership

EU Level: ESTEP, EUROFER, SSDCS

Joint Processes: Associations, Companies,  
Training Providers

National/Regional: national steel  
associations, training providers



- Implementation strategy for gaining political support, mobilizing human resources and engaging stakeholders for Blueprint and Skills Alliance
- Blueprint implementation, operation and monitoring
- ...

- Common platforms: Foresight Observatory, Training Eco-systems
- Specific collaborations
- ...

- Implementation and transfer plan elaborated with the national steel associations
- Skills Committees – mainly incorporated in existing committees
- ...

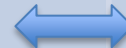
Integration of ESSA measures (ETF, ETP, OTS, RTS) in  
existing European – national - regional infrastructures

#### (5) Rollout

Steel Regions



EU Open Coordination



National VET Systems (in cooperation with  
other related industry blueprints)

- Main steel regions in Europe
- Combining ESSA with national/regional skills approaches
- Integration of social partners (esp. unions) at the regional level
- ...

- General ESSA framework (EU level) as an orientation
- Support for national regional adjustments
- Co-financing of ESF/EFRE and national/regional funds
- ...

- Common strategy to integrate the Blueprint results / demands in the national VET systems
- Joint process of industry related Blueprints: Construction, Automotive, Manufacturing, Textile, Industrial Symbiosis, ...
- ...

## (5) Implementation and Rollout

Steel Regions



EU Open Coordination



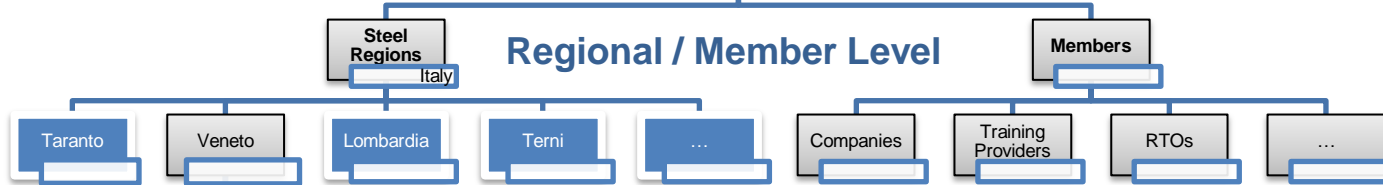
National VET Systems (in cooperation with other related industry blueprints)

### European Level



### National Steel Organisations

### Regional / Member Level



Economy Policy Research and Education Civil Society

### Regional Skills Eco-systems

# ESSA Regional Training Ecosystem (ESSA RTS)

# Overview of steel regions so far

## Overview of already mapped regions:

### Italian Steel Regions

Friuli Venezia Giulia – Puglia – Toscana – Veneto – Umbria - Lombardia - Valle D'Aosta – Liguria – Piemonte - Emilia-Romagna - Basilicata

### Polish Steel Regions

Silesia – Malopolska - Opolskie Province – Mazowsze - Świętokrzyskie Province - Podkarpackie Province

### German Steel Regions

Western Germany /Rhein-Ruhr Area - Southern Germany /Saar Area - Northern Germany - Eastern Germany

### Belgian Steel Regions

Flemish Region - Walloon Region

### Bulgarian Steel Regions

Pernik – Burgas – Ruse - Montana

### Additional Steel Regions

- Coming: Austria, Spain, Finland
- Requested: Czech Republic, Greece, Hungary, France, Slovakia, Netherlands, Sweden, Romania, Slovenia

# Regional Training Eco-systems (Example Poland)

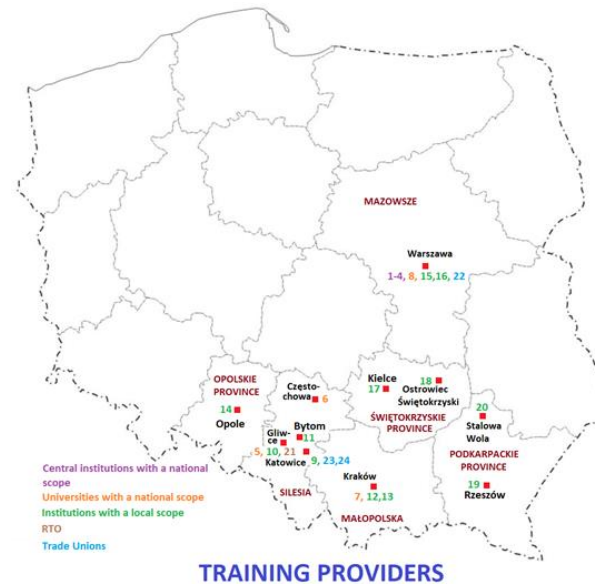
## Regional Training Eco-systems

Economy

Policy

Research and  
Education

Civil  
Society



Central institutions with a national scope  
Universities with a national scope  
Institutions with a local scope  
RTO  
Trade Unions



# ESSA RTS:

## Collaboration with existing platforms

- European **Centres of Vocational Excellence** (CoVEs)
- European **Smart Specialisation** Platform
- European **Cluster Collaboration** Platform



**SIDEREX BASQUE  
STEEL CLUSTER**  
(Basque Country, Spain)



**Steel Innovation Cluster  
/ Polo del Acero**  
(Aviles, Spain)



**Triple Steelix /  
Jernkontoret**  
(Norra Mellansverige, Sweden)



**Sustainable Steel Region  
North Middle Sweden**



# Steel Region Example: Western Germany Rhein-Ruhr Area

## Regional Training Eco-systems

Economy

Policy

Research and  
Education

Civil  
Society

### Economy/Companies

- Thyssenkrupp Steel Europe AG, HKM Hüttenwerke Krupp Mannesmann GmbH, Arcelor Mittal Duisburg GmbH, Benteler Steel / Tube GmbH, BGH Edelstahl Siegen GmbH, Böllinghaus Steel GmbH, Thyssenkrupp Rasselstein GmbH, VDM Metals GmbH, WW-K Warmwalzwerk Königswinter GmbH, Schmolz und Bickenbach Deutschland GmbH, Thyssenkrupp Electrical Steel GmbH, Thyssenkrupp Hohenlimburg GmbH, R. Kind GmbH, Karl Diederichs KG, Mannstaedt GmbH, Outokumpu Nirosta GmbH, EZM Edelstahlzieherei Mark GmbH, Deutsche Edelstahlwerke GmbH, DK Recycling und Roheisen GmbH, ERAMET Alloys GmbH, Walzen Irlé GmbH, Walzwerke Einsal GmbH, (SMS Group)

### Trade Unions (national scope)

- IG Metall

### Trade Unions (local scope)

- IG Metall regional branch
- IG Metall NRW
- IG Metall Duisburg-Dinslaken

### Training Providers (national scope)

- Stahl-Akademie (VDEH Institut)
- RWTH University Aachen (Lehrstuhl für Metallurgie von Eisen und Stahl am Institut für Eisenhüttenkunde (IEHK))
- TU Clausthal (Institut für Metallurgie)
- Universität Duisburg-Essen - Institut für Metallurgie (Metallurgy and Metal Forming (B.Sc./M. Sc.))
- Institut für Eisenkunde und Stahltechnologien IEST, Freiberg

### Training Providers (local scope)

- Niederrheinische IHK
- Duisburg · Wesel · Kleve

### Research Institutions (national scope)

- Stahlinstitut VDEh
- VDEh-Betriebsforschungsinstitut GmbH (BFI)
- Max-Planck-Institut für Eisenforschung GmbH

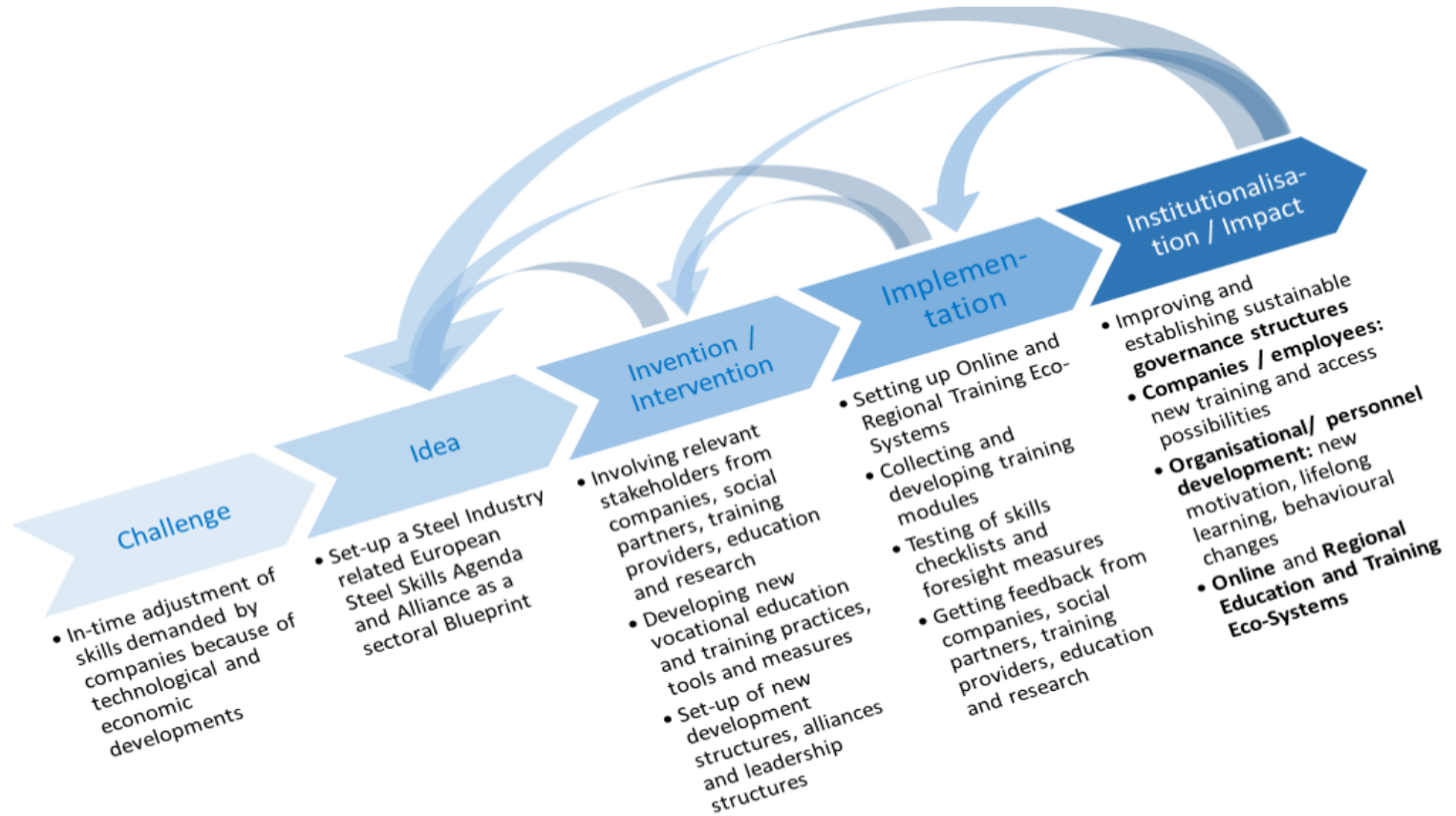
### Research Institutions (local scope)

- Niederrheinische IHK
- Duisburg · Wesel · Kleve
- (e.g. Verfahrensmechaniker/-in der Hütten- und Halbzeugindustrie, Industriemeister Hüttentechnik)

# Next Steps of Implementation and Transfer: Blueprint Prototype Testing and Improving

- **European Steel Technology and Skills Foresight Observatory (ESSA ETF)**
- **ESSA European Steel Technology and Skills Foresight Panel (ESSA ETP):**  
combining technological development and skills (job profile) assessment
- **Testing and further development:**
  - **Online and Training Eco-System “steelHub” (ESSA OTS):**  
Integration of new trainings, business model, connection with ESSA RTS
  - **Regional Training Eco-Systems (ESSA RTS):**  
Selection of regions, establishing frameworks, partnerships and development processes
- **Integration of stakeholders:**
  - **Associations / Social Partners:** Structure and Leadership
  - **VET system** institutions: Pathways for skills supply, integration of ESSA trainings
  - **Companies:** Training offers and usage
  - **Training Providers:** Collecting training and train the trainer offers
  - **Civil Society:** Integration of social innovations in education and employment, social integration

# Blueprint Development as Social Innovation Process





## Further ESSA Results

15:00-15:45	ESSA findings - Bringing Technology and Skills together (parallel Break-Out Sessions) Moderation: Scott Chubbs (worldsteel)
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Thanks for your attention

ESSA website: <https://www.estep.eu/essa>

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# Break Back at 15.00







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Steel Industry

Day 2:  
Implementation and Rollout of the European  
Blueprint

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# ESSA Blueprint

## Implementation and Rollout Strategy

### ➤ **General:**

- Integration in existing governance and coordination structures
- Alignment with other steel industry related Blueprints (automotive, construction, industrial symbiosis, additive manufacturing, ...)

### ➤ **European Level:**

- Open Coordination in close cooperation with ESTEP, EUROFER, industriALL, Sectoral Social Dialog Committee
- European Steel Technology and Skills Foresight Observatory (ESSA ETF)
- Online and Training Eco-Systems (ESSA OTS)

### ➤ **Member State Level:**

- National Steel Associations as connection points
- Trade Unions
- VET System Institutions

### ➤ **Regional Level:**

- Regional Training Eco-Systems (ESSA RTS):  
establishing regional skills frameworks, partnerships and development processes

### ➤ **Integration of Stakeholders:**

- Associations / Social Partners: Structure and Leadership
- VET system institutions: Pathways for skills supply, integration of ESSA trainings
- Companies: Skills requirements, training offers and usage
- Research and Education: Research, education and training
- Civil Society: Integration of social innovations in education and employment, social integration



## ESSA Implementation and Rollout

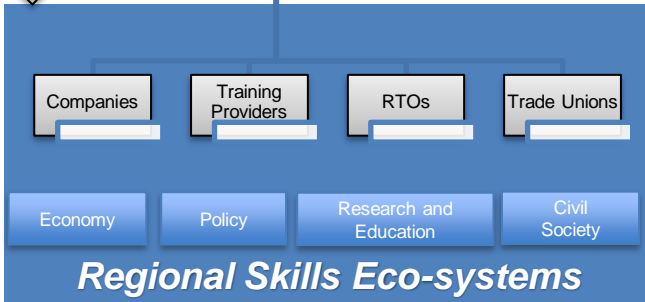
Steel Regions



EU Open Coordination

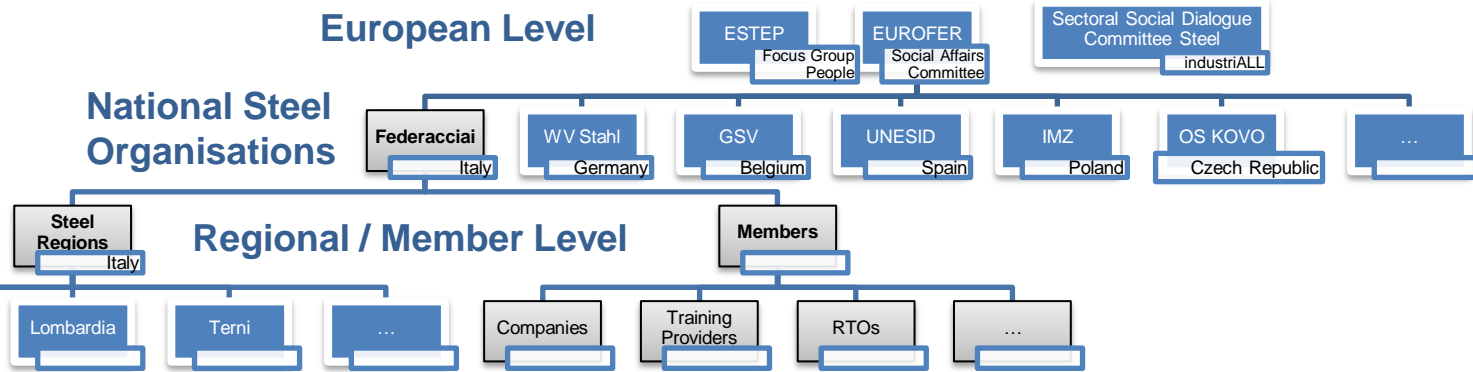


National VET Systems (in cooperation with other related industry blueprints)



### European Level

#### National Steel Organisations



# Break Back at 14.30







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