

## The Blueprint for Sectoral Cooperation on Skills in the Automotive Sector

## **Skills Intelligence in Automotive Sector**

RoadMap update WorkShop Best practices investigation

Christian Baio Spin360



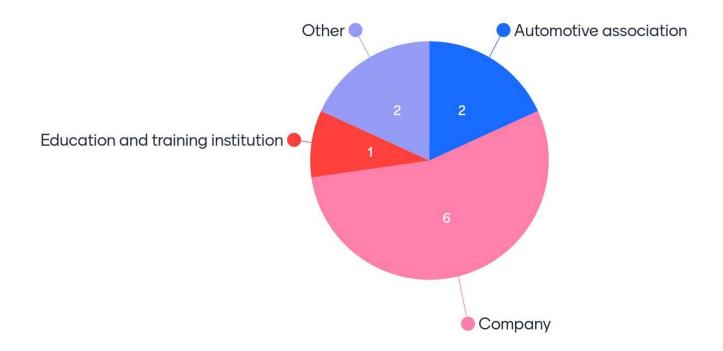
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Contact us:

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#### Mentimeter

## Who are you?





#### Mentimeter

## Where are you from?

italy brescia area

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## THE BLUEPRINT PROJECT FOR THE AUTOMOTIVE SECTOR



DRIVES: Development and Research on Innovative Vocational Education Skills



#### January 2018 to December 2021



Project assures cooperation between 24 full partners from 11 EU countries



**Steering Board** has extra 10 associated partners, chaired by **ACEA**, co-chaired by **CLEPA**, **ETRMA**, as full project partners



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## **OBJECTIVES**

#### **Sectoral Intelligence**

**Analyse key trends** in the automotive, covering the whole value chain

**Define the skills and job roles** needed in the future

**Analyse offer side** currently available for the trainings/upskilling

**Identify skills gaps** for foreseen changes

#### Recognition

Ensure **mutual recognition** of the skills and job roles **across the EU** 

Create an EU-wide framework that can be used throughout the EU and implemented in the EU regions – based on commonly used definitions

Regularly **deliver policy recommendations** reflecting the needs of the automotive sector to the European Commission

#### **Training Offer**

**Create trainings** for selected skills and job roles in the automotive sector

Provide as a pilot 1100 trainings across the EU and across the education and training institutions

Provide clear guidance for the education and training providers on skills needs of the automotive industry





## DEMAND AND OFFER STAKEHOLDERS



- Large enterprise
- · Technology centre
- · Sectoral/Industrial association
- Trade union
- · Labour market intelligence entity
- Public employment service
- · Private employment service
- · Public authority
- Chambers of Commerce
- Labour ministry
- National statistics office
- Professional School (secondary education, EQF 3-4)
- Higher Education (master & bachelors, EQF 5-8)
- Training and education provider
- Independent trainer

#### Survey - DEMAND

 To analyze the demand of the automotive sector and its skills needs



#### March 2019

#### Survey - OFFER

- Based on the demand, analyze the offer
- What skills are offering, what is in plan, what are the capacities of offered courses

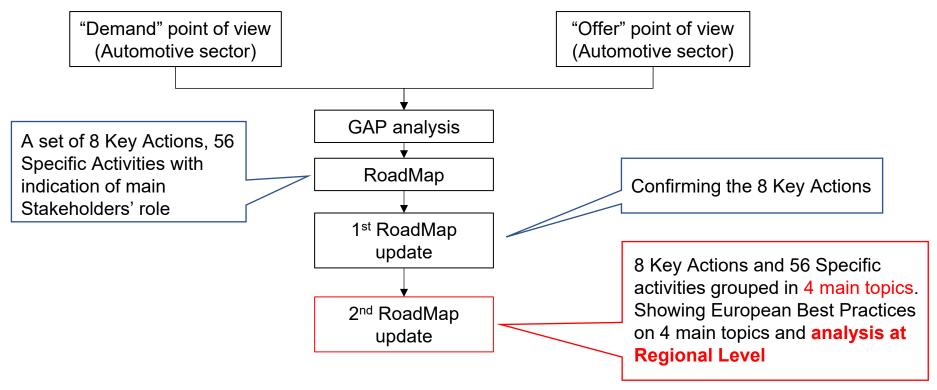


June/September 2019





## **TODAY'S WORKSHOP**





## THE PROCESS FOR THE ROADMAP

**DEMAND**Point of view

**INDUSTRY** 

Point of view

EDUCATION & TRAINING PROVIDERS

**OFFER** 



DRIVERS OF CHANGE, SKILLS & JOB ROLES

TRAINING PROVISION MECHANISMS

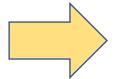
**RECOGNITION AND QUALIFICATION FRAMEWORKS** 

**ATTRACTIVENESS** 

**IDENTIFIED GAPS** 

**ROADMAP WITH 8 KEY ACTIONS AND 56 SPECIFIC ACTIONS** 

Validated by Automotive stakeholders





















## **DRIVERS OF CHANGE**

Drivers of Change are those factors which bring change in the industry

#### **2 DIMENSIONS OF ANALYSIS:**

- *IMPORTANCE* (0=not important, 5=most important)
- URGENCY (timeframe by 2020  $\rightarrow$  5, by 2025  $\rightarrow$  3 and 2030 and later  $\rightarrow$  1)

#### 5 CATEGORIES (and 23 specific Drivers):

- 1. NEW TECHNOLOGIES AND BUSINESS MODELS
- 2. CLIMATE GOALS, ENVIRONMENTAL AND HEALTH CHALLENGES
- 3. SOCIETAL CHANGES AND CHANGE IN THE WAY THAT CONSUMER ACCESS, PURCHASE AND USE THE CARS
- 4. STRUCTURAL CHANGES
- 5. GLOBALISATION AND RISE OF NEW PLAYERS



## **DRIVERS OF CHANGE: IMPORTANCE**





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## **DRIVERS OF CHANGE: URGENCY**



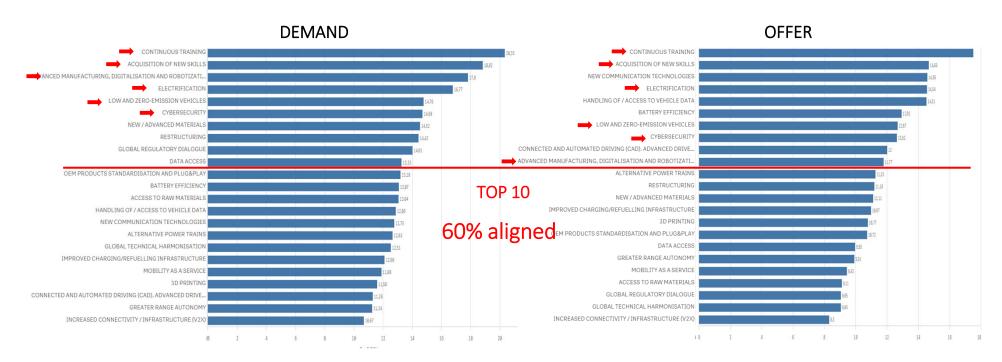


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## **DoC PRIORITY INDEX**

It is calculated by total number of available replies for importance and urgency with: IMPORTANCE x URGENCY





## **SKILLS**

50

100

#### **DEMAND**



150

200

250

300

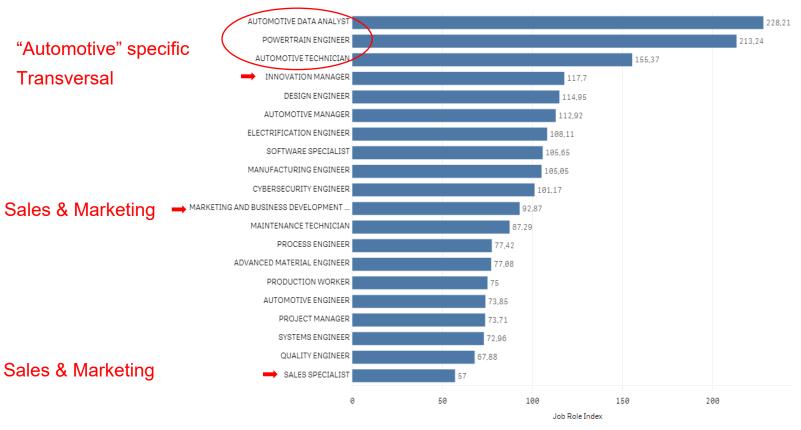
#### **OFFER**

- 1		
1 1	SKILLS	% GRADUATES
		(per year)
	CONTINUOUS IMPROVEMENT	9,45%
	TECHNICAL KNOWLEDGE	9,43%
	FOREIGN LANGUAGES	6,04%
	COMMUNICATION	5,65%
	LEARNABILITY	4,81%
	TEAMWORK	4,59%
$\rightarrow$	MATERIALS SCIENCES	4,20%
<b>†</b>	FUNCTIONAL SAFETY	3,88%
	PROCESS ENGINEERING	3,82%
	PRODUCT DEVELOPMENT	3,48%
	ADAPTABILITY/FLEXIBILITY	3,15%
	BEHAVIOURAL AGILITY	3,06%
	MECHANICAL	2,96%
	DIGITAL SKILLS	2,92%
	CREATIVITY	2,81%
	ELECTRICAL/ELECTRONIC	2,55%
	PROBLEM SOLVING	1,95%
	CRITICAL THINKING	1,93%
	IOT & CLOUD	1,91%
	ENTREPRENEURSHIP	1,89%
	MAINTENANCE	1,76%
<b>→</b>	MECHATRONICS	1,15%
	OPTIMIZE ACTIVITIES	1,08%

**TOP 20** 



## TOP 20 JOB ROLES (DEMAND)





### **SOME CONSIDERATIONS: GAPS**

This analysis illustrates and confirms that STRUCTURAL CHANGES (continuous training, acquisition of new skills) are considered as "very urgent" from the DEMAND, whereas they are "urgent" from the OFFER side.

Job Roles and Skills needs to be better evaluated between DEMAND and OFFER

The exchange of information between the main groups of stakeholders should be improved to better understand the real need of urgency

OFFER stakeholders should modify educational processes and content according to the needs of the DEMAND side with a continuous and planned exchange of information.

It is moreover important to provide reference definition of skills and job roles relevant for automotive-mobility ecosystem with an online database of available training courses

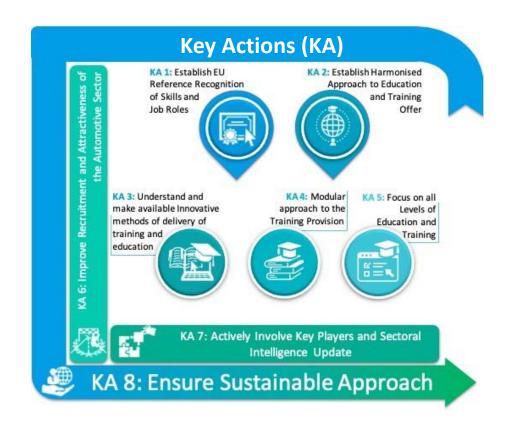




## AUTOMOTIVE SKILLS AGENDA – STRATEGY & ROADMAP



- The analysis led to the strategy and roadmap for the Automotive sectoral skills agenda
- First release May 2020
- Updates in December 2020 and December 2021





### **ROADMAP 8 KEY ACTIONS**



#### **KEY ACTION 1:**

ESTABLISH EU REFERENCE RECOGNITION OF SKILLS AND JOB ROLES



#### **KEY ACTION 2:**

ESTABLISH HARMONISED APPROACH TO EDUCATION AND TRAINING OFFER



#### **KEY ACTION 3:**

UNDERSTAND AND MAKE AVAILABLE INNOVATIVE METHODS OF DELIVERY OF TRAINING AND EDUCATION



#### **KEY ACTION 4:**

MODULAR APPROACH TO THE TRAINING PROVISION



#### **KEY ACTION 5:**

FOCUS ON ALL LEVELS OF EDUCATION AND TRAINING



#### **KEY ACTION 6:**

IMPROVE RECRUITMENT AND ATTRACTIVENESS OF THE AUTOMOTIVE SECTOR



#### **KEY ACTION 7:**

ACTIVELY INVOLVE KEY PLAYERS AND SECTORAL INTELLIGENCE UPDATE



#### **KEY ACTION 8:**

**ENSURE SUSTAINABLE APPROACH** 



## DRIVES ROADMAP 56 SPECIFIC ACTIVITIES

CODE	SPECIFIC SPECIFIC	
KA 1-1.1	1.1. Define the importance of national/regional standards definitions and the rules for their recognition within EU ontology	
KA 1-1.2	1.2. Define and assure coherence with ESCO definition	
KA 1-2.1	2.1. Establish a common methodology to the harmonisation of skills ontology in order to facilitate identification and description of skills	
KA 1-2.2	2.2. Establish a common methodology to the harmonisation of job roles ontology in order to facilitate identification and description of job roles	
KA 1-4	4. Adoption of the reference framework by the key stakeholders, including large, medium and small industry	
KA 1-2.3	2.3. Establish framework that functions as intermediary body facilitating encounters between different stakeholders	
KA 1-3.2	3.2. Establish or connect with skills domain groups of industry experts tasked with updating new and emerging job roles	
KA 7-7.1	7.1. Create "skills domains working groups" among (as minimum) VET providers and industry representatives to focus on the analysis of drivers of change and their consequences on VET evolution	
KA 7-7.2	7.2. Promote discussion within the "domains working groups" on the evolution of job roles and its consequences on VET and training, VET provision mechanisms and their effectiveness for industrial stakeholders, skills recognition	
KA 7-7.3	7.3. Promote discussion within the "domains working groups" on the evolution of the sector, its technologies and drivers of change	
KA 7-8.2	8.2. Ensure the feasibility of the activities listed in this Roadmap through the involvement of regional, national and EU institutions – this support should include also financial means.	
KA 8-1	1. Establish Automotive Skills Alliance	
KA 1-3.4	3.4. Work with research think tanks and data collection agencies	
	3.5. Utilise existing automotive employer groups	

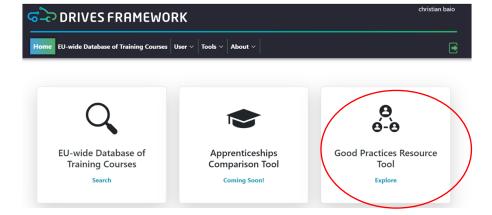


### 56 SPECIFIC ACTIVITIES GROUPED

Based on the gap highlighted between «Demand» and «Offer» it is possible to group the 56 specific activities into 4

main common topics:

- 1. STANDARD DEFINITION
- 2. FACILITATING ENCOUNTERS BETWEEN DIFFERENT
  STAKEHOLDERS
- 3. INTELLIGENCE
- 4. TRAINING PROGRAMMES



...and using project DRIVES outcomes to match them with the Good Practices already on going in Europe



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## **WORKSHOP ACTIVITY**

For each of the 4 main common topics, we are going to show existing practices already in place in the automotive sector across Europe. The workshop next activities will be an occasion also to see if such best practices are:

- Already successfully in place in your region;
- Not implemented in your region but potentially interesting;
- Not relevant for your region and if so, if there are other themes that shall be addressed.

PLEASE GO TO <u>WWW.MENTI.COM</u>

INSERT THE CODE: 46 87 15 37



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## **WORKSHOP ACTIVITY**

PLEASE GO TO <u>WWW.MENTI.COM</u> INSERT THE CODE: 46 87 15 37

• Already successfully in place in your region;

#### YES

Not implemented in your region but potentially interesting;
 NO but they are potentially interesting to be implemented in the future

Not relevant for your region – and if so, if there are other themes that shall be addressed.
 NO, they are not very relevant for the region (if so, why?)





## STANDARD DEFINITION

- Providing a **reference definition** of skills and job roles relevant for automotive-mobility ecosystem
- Establish a **common methodology** to the harmonisation of skills ontology in order to facilitate identification and description of skills
- Providing unified and harmonized databases and information resources of skills and job roles to allow easy comparison
- Adopting the reference framework by the key stakeholders



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### STANDARD DEFINITION: GOOD PRACTICES

#### Cedefop European Database on Apprenticeship Schemes

**Brief description**: apprenticeship information resource developed by CEDEFOP. This database enables different EU countries apprenticeships to be compared. As a result of the range of information collected and its broad focus the comparisons can be made on a country level or a scheme level

#### Benefits:

- <u>Country fiches</u>: navigation and understanding of apprenticeships from a national context.
- <u>Scheme fiches</u>: this focuses on specific country schemes identifying their features. As some countries have more than one scheme it separates them so that individual schemes and their characteristics can be examined
- <u>Comparison tables</u>: comparison of countries and schemes. It can help identify countries with similar schemes and characteristics
- Map: visual representation of the number of apprenticeship schemes within a country
- Advanced search: this feature provides indicators which can be selected based on interest



### STANDARD DEFINITION: GOOD PRACTICES

#### German/Spanish dual certificate

Brief description: The German Chamber of Commerce in Spain worked in partnership with Volkswagen to create the first German/Spanish dual certificate. The programme was developed by a group of experts who analysed the competences covered in both countries as a basis for the development of a three-year curriculum for Volkswagen incorporating best practices from both countries. Programmes were developed covering five different job roles. SEAT is also now fully involved in the Dual Certification programme.

#### Benefits:

- Each student completing the exam is awarded both the German and Spanish certificate
- It increases talent development locally and supports the development, presence, and strength of participating German companies internationally
- It creates good vocational opportunities and opens alternative pathways for students

#### Challenges:

- Engage with the relevant local authorities
- Ensure the quality of the programme by making sure personnel across the whole company understand what Dual Training comprises and tutors are properly informed/trained



### STANDARD DEFINITION: GOOD PRACTICES

#### Basque Industry 4.0 Strategy

Brief description: a regional response to recent changes and market developments by adopting a co-ordinated approach to tackling the skills and other challenges posed by and capitalising on the potential opportunities created by Industry 4.0 in the manufacturing sector. This regional strategy includes technology transfer measures, subsidies for experimental and innovative projects, and has emphasised the need for adaptive, highly skilled employees in the future. The strategy has emphasised the need for VET qualifications to be reactive, focusing on competences such as analytical skills, creativity and soft skills

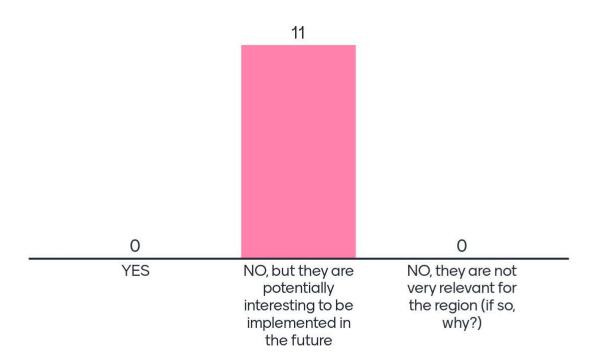
#### Benefits:

- upskilling and reskilling of the workforce in line with future requirements
- ensuring that the workforce is digitally and technologically competent
- focus on technological transformation
- drop in absenteeism

**Challenges**: how to highlight that these technologies will supplement short-term competitiveness, and how they can be useful for SME's.

#### Mentimeter

## 1. STANDARD DEFINITION: do you already implement related best practices in your region?







## FACILITATING ENCOUNTERS BETWEEN DIFFERENT STAKEHOLDERS

- Establishing or connecting with skills domain groups of industry experts tasked with updating new and emerging job roles and skills
- Consolidating an active automotive community focused on skills with relevant participation of stakeholders, with particular reference to companies, national associations and VET providers
- Organising events aimed at facilitating exchange between key stakeholders

Sustainable and pragmatic collaboration in **Automotive Skills Alliance** on European as well as regional level: different WorkingGroups established and inclusive approach to others



## **FACILITATING ENCOUNTERS: GOOD PRACTICES**

#### z.l.ö. - zukunft.lehre.österreich – Austria

Brief description: To strengthen the image of apprenticeship, z.l.ö. - zukunft.lehre.österreich., which is an independent, non-profit and cross-sector initiative (largest apprenticeship initiative in Austria with more than 130 member companies) aims at highlight the advantages, possibilities and opportunities of an apprenticeship and permanently improving the reputation of dual training in Austria. This is achieved through a wide range of promotional, networking and other activities.

#### Benefits:

- Additional value for its member companies: collaborative initiatives with skilled professional providers
- Tackle skill shortages
- Identify demands from different stakeholders

#### Challenges:

- Effective marketing campaign
- Synergies among the different stakeholders
- Finding positive testimonials for the future generation of apprentices



### FACILITATING ENCOUNTERS: GOOD PRACTICES

#### Junior Automotive Apprenticeship Advisory Board (JA3B)

Brief description: an initiative led by Gestamp - multinational company involved in the global automotive industry, in collaboration with the Universidad de Mondragon and sponsors in Spain. JA3B is an event hosting young people from 14 to 18 years-olds from different European countries, organized to design and think collaboratively about the future of the automotive industry, not only in the professional field but also in academia. Its aims include discussing participants experiences of the automotive sector, its future challenges and the development of a strategic action plan to make it an exceptional place to work.

#### Benefits:

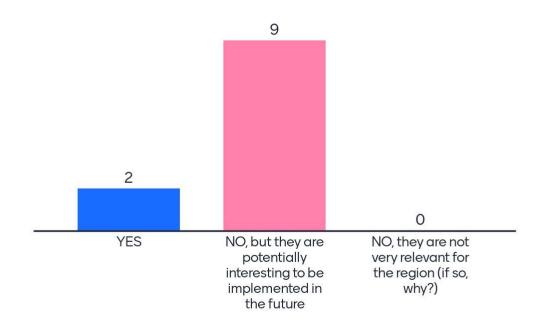
- Companies get fist hand impressions from European youth regarding the attractiveness of employment in the automotive sector.
- Nurture a sense of European citizenship through sharing common practices and challenges.

#### Challenges:

- Finding sponsors to finance student's travel and accommodation expenses to the event
- Strong time investment from organizers

#### **Mentimeter**

# 2. FACILITATING ENCOUNTERS BETWEEN DIFFERENT STAKEHOLDERS: do you already implement related best practices in your region?







## **INTELLIGENCE**

- Presenting trends and future foresight to education and training providers for a better vision of future needs and possible changes
- Provide easily accessible data reflecting the current situation of the sector
- Updating existing curricula to address the challenges and skills changes

Work of ASA WG3, focused on skills intelligence from Demand side (skills needs, identification of the needs, etc.) and Offer side (training and education offer, skills gaps, preparation of curricula, new/updated training courses, etc.)





## INTELLIGENCE: GOOD PRACTICES

#### <u>High Value Manufacturing Catapult – Skills Foresighting Process</u>

#### Brief description:

The future skills foresighting process in the UK is an example of a structured process of engaging with research organisations and employers to understand new organisational capabilities needed in the automotive sector in 3 to 5 years time and then engaging with employers and educators to identify the competencies (knowledge and skills) needed to implement the capabilities. The Foresighting process consists of engaging with these 3 sets of stakeholders with each stage creating an output used in the next stage. Research organisations are by definition looking at future challenges and capabilities; employers know how these capabilities will be developed and which job types will be impacted and, of course, educators are experts in turning the capabilities into competency statements and, ultimately, training courses.

#### Benefits:

- Good engagement with all stakeholders
- Competency statements that have been honed to ensure the content is focussed on future needs
- Identifying organisational capabilities as the foundation for the new competencies.
- Taking a structured approach which means each stakeholder adds value to the process.

#### Challenges:

- Process development
- Factoring in existing resources (such as existing qualifications content and the National Occupational Standards and the communication of the results of the Foresighting process where it's proven to be difficult to report outputs in a simple form.



## INTELLIGENCE: GOOD PRACTICES

#### **Skills Escalator**

Brief description: The MIRA Technology Institute (MTI) - facility based in the West Midlands Region in the UK, is helping to create specialist skills in some of the new emerging technology areas within the automotive sector, including electrification and driverless cars, with the goal of ensuring a sustainable supply of future technical specialists and engineers. The MTI offers flexible delivery designed to meet the needs of individuals and businesses. Training courses offered cover Automotive Engineering; Business and Leadership; Connected and Autonomous Vehicles; Electric and Hybrid Vehicles and Vehicle Safety and Security and Cyber Security.

#### Benefits:

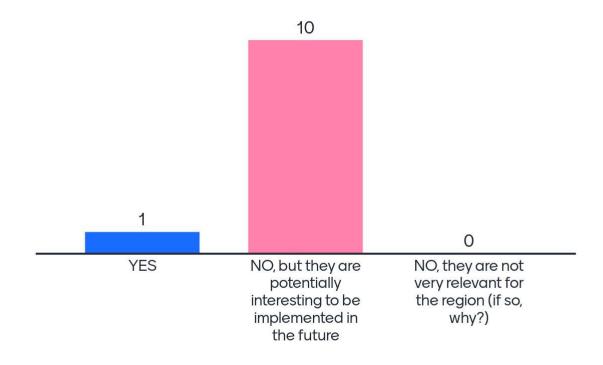
- Enables students to progress through different levels and move seamlessly between training partners within MTI rather than having to seek training outside of the initiative
- Accessing automotive training whether they are starting at ground level or need higher level qualifications
- Highly attractive for learners
- Beneficial for employers to be able to access all the skills training that they need from a single organisation

#### Challenges:

- Ensuring effective collaboration between industry and education
- Matching the pace and agility of industry with the longer lead times in curriculum development in the education sector

## 3. INTELLIGENCE: do you already implement related best practices in your region?

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## TRAINING PROGRAMMES

- Developing specific training activities/programmes for workers with lower level of skills to upgrade their skills and create clear progression pathways between different training levels
- Stimulating preparation of new modular training and education plans and curriculum
- Developing initiatives in connection with guidance for young people as well as teachers and families
- Setting up training programmes with train- the-trainers approach focused to technical skills, digital skills and soft skills

DRIVES as direct support of up/reskilling activities prepared DRIVES Learning Platform with set of MOOC courses available free of charge for individuals and companies or also for training providers to be used in their courses



### TRAINING PROGRAMMES: GOOD PRACTICES

#### TU Graz Life Long Learning

Brief description: TU Graz University in Austria supports companies in bringing their staff up to date with the latest developments in science, commerce and technology. Furthermore, companies can talk to lecturers and adapt the courses to their individual needs. Together with selected partners, TU Graz offers a continuing education programme with several types of courses. The courses are designed for university and college graduates, experts from industry and TU Graz students. Upon completing these courses, trainees receive either a certificate of attendance, confirming that they have taken the course, or a TU Graz certificate, if the course ends with an examination.

#### Benefits:

- Employees are constantly trained in the latest technology or can learn completely new engineering skills without having to create in-house training facilities
- Training is up-to-date and relevant for industry needs
- Integrating scientists into the programme in order they can present the latest research findings

#### Challenges:

Training employees on the latest state-of-the-art technology. In some SMEs expert training on very specific topics is difficult or costly to install. The TU Graz LifeLongLearning (TUG LLL) programme supports companies that do not have a corresponding inhouse training programme to be able to convey new approaches and technologies quickly and in a resource-optimised manner.



### TRAINING PROGRAMMES: GOOD PRACTICES

#### <u>Azubi Car – Skoda Auto</u>

Brief description: The Azubi Car initiative is an example of a programme at the Skoda Vocational School in the Czech Republic that gives learners the opportunity to design and manufacture their own concept car (students build their dream car). Skoda hires all the students who successfully complete the programme. Learners work under the supervision of 7 vocational teachers for support and also to ensure safety. Parts are supplied by Skoda auto, with minor exceptions (e.g. car seats).

#### Benefits:

- Opportunity to undertake unique complex work
- Think differently, communicate, organize, solve problems, work in teams and gain personal experience on what they have learned in a real-life situation and apply the knowledge gained
- Meet designers directly
- Possibility of future career within Skoda

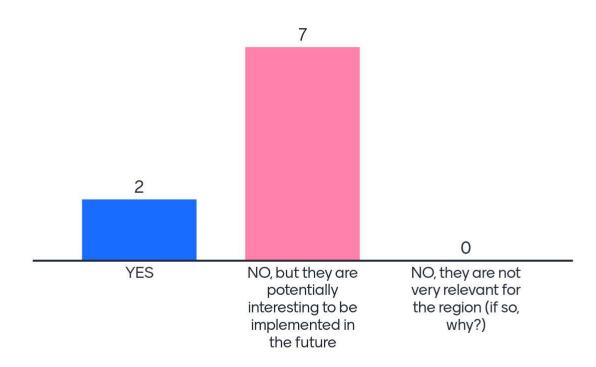
#### Challenges:

Logistics behind getting the parts from the Skoda auto

Time constraints, not only in relation to production, but also in the planning phase and in relation to designing a concep.

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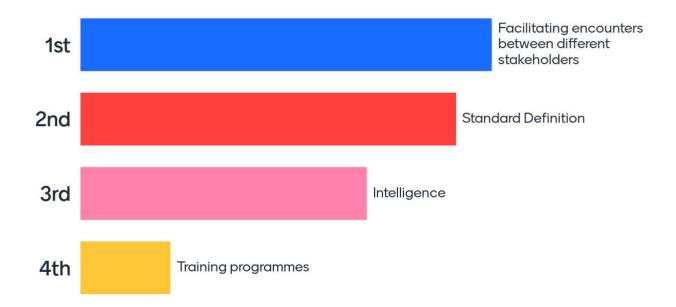
## 4. TRAINING PROGRAMMES: do you already implement related best practices in your region?





#### Mentimeter

## Which of the below key thems would you consider more important/relevant to implement in your region?







## **NEXT STEPS**

- We will share with you this presentation and the results
- DRIVERS RoadMap will be updated using your suggestions (outcomes end 2021)
- Your feedback will be used by ASA (<a href="https://automotive-skills-alliance.eu/">https://automotive-skills-alliance.eu/</a>)





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