DRIVES

Development and Research on Innovative Vocational Education Skills

DRIVES Framework

Deliverable 4.2.1 European Recognition Framework for Automotive

WP4 Skills Transferability, www.project-drives.eu

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DRIVES
Development and Research on Innovative Vocational Education Skills

Introduction

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DRIVES Framework - Introduction

- **Reference recognition and description of job roles and competences** across EU Automotive Industry

- **EU database of training courses for Automotive Industry** - as “broker” between industry skills/competence/job roles needs and training offer
  - Advertisement on whole EU market
  - Possibility for industry to choose “the right training” and “training path”
  - Possibility for training providers to see skills and their levels of training need and prepare new training courses “on demand”

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DRIVES Framework - Introduction

- **Harmonized approach to recruitment and Mobility of workforce across the sector**
  - Digital Badge for level of Competences/Skills achieved

- **Quality pledge of the training courses across EU**
  - Assured by mapping exercise (plug-in to the framework – slide 12)

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DRIVES Framework - Introduction

- Following Automotive Skills Agenda Strategy and Roadmap
  - **KA 1: Establish EU Reference Recognition of Skills and Job Roles**
  - **KA 2: Establish Harmonized Approach to Education and Training Offer**
- Stimulating
  - **KA 4: Modular Approach to the Training Provision**

DRIVES-D2.9
Automotive Skills Agenda Strategy & Roadmap – 1st Release

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DRIVES Framework – Basic Structure

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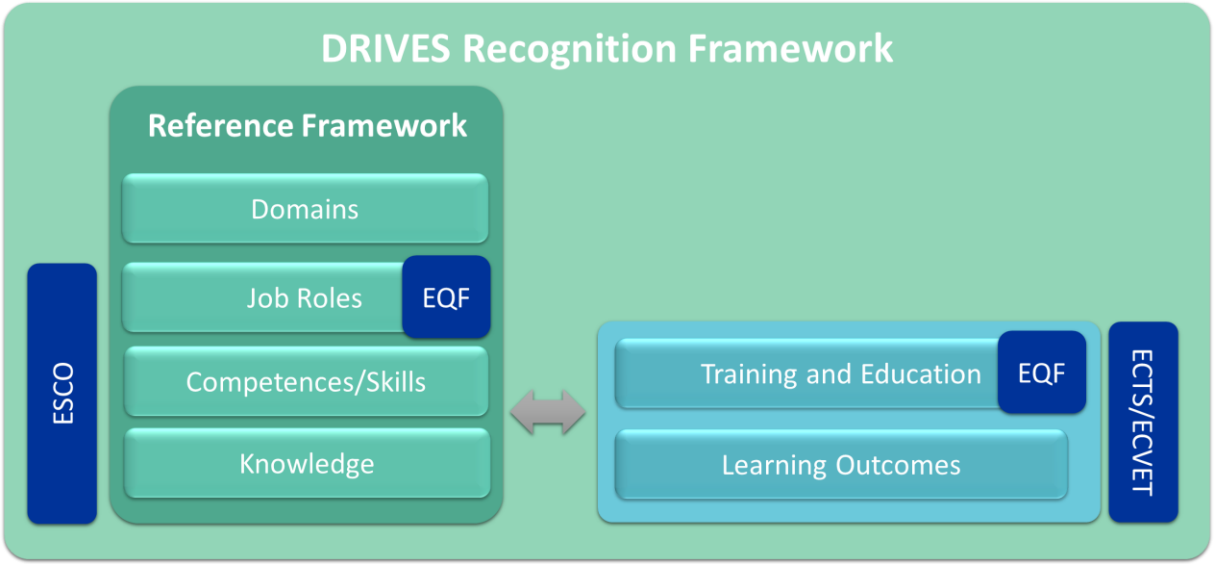
DRIVES Framework – Basic Structure

- Reference definition of Automotive specific Job Roles and its Competences/Skills and Knowledge on desired levels
  - Compliant with ESCO, EQF
- Mapping to existing Training and Education
  - Providing ECTS/ECVET



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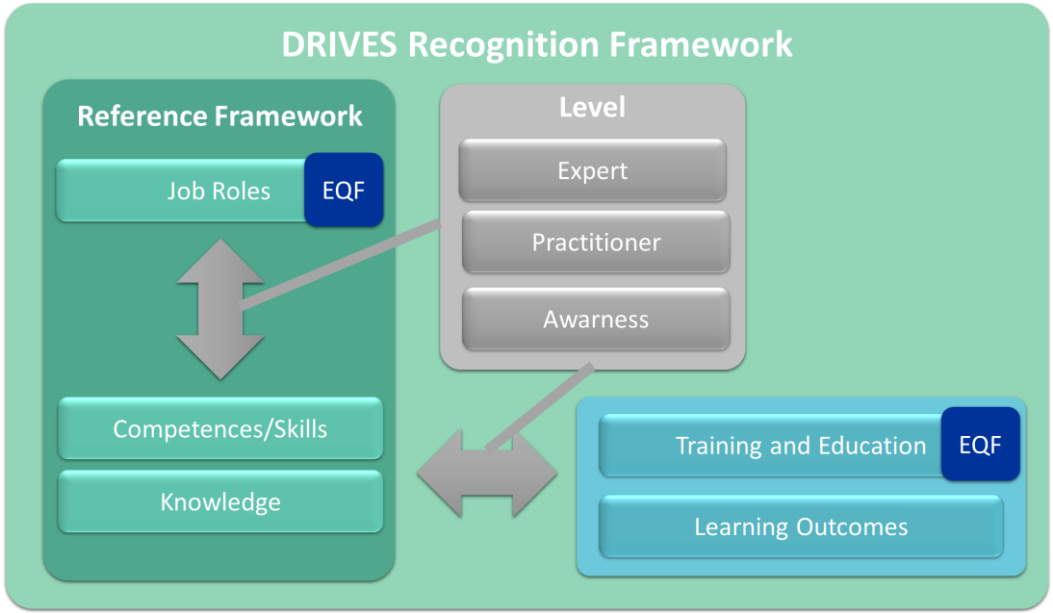
DRIVES Framework – Basic Structure

- **Three levels** defines the **maturity** of the Competence/Skills needed for particular Job Role
- The same levels are applied to **mapping of Training and Education to Competence/skills** provided by the Training and Education



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DRIVES Framework Overview

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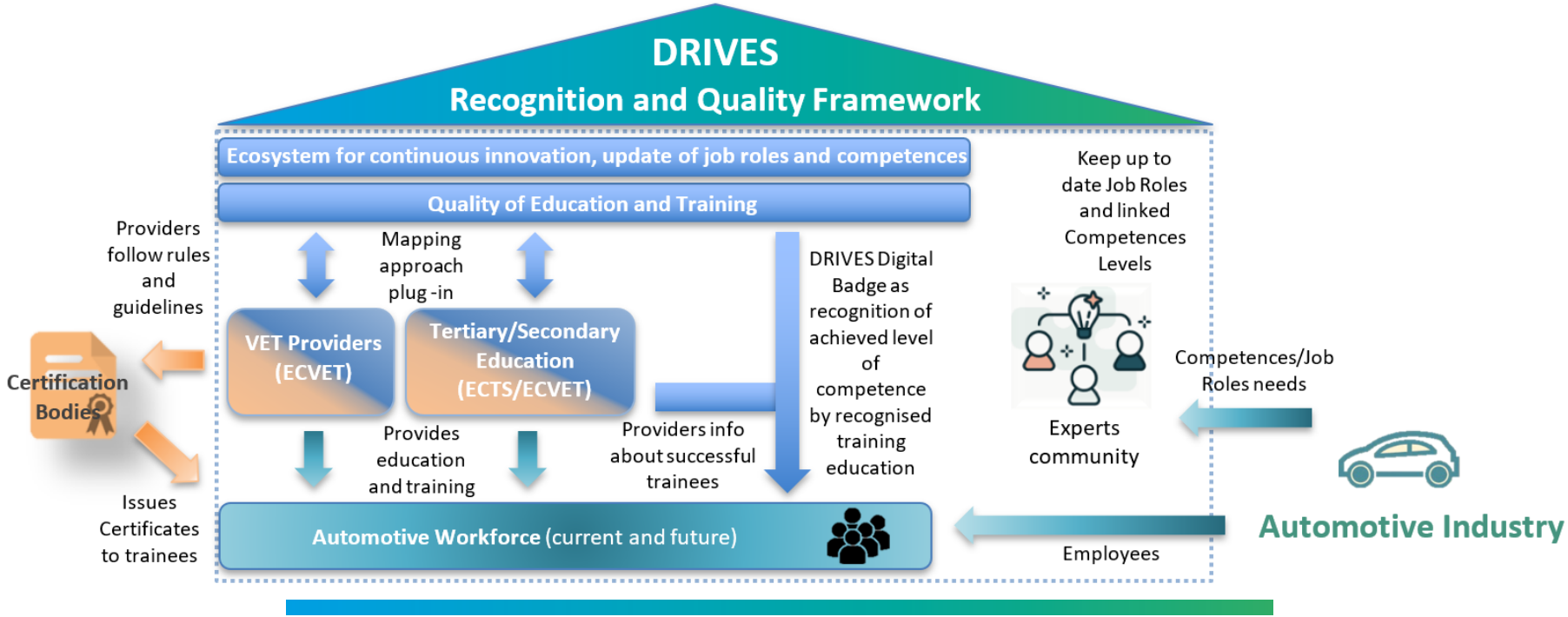
Overview of Overall DRIVES Framework



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DRIVES Framework Overview

Mapping Approach

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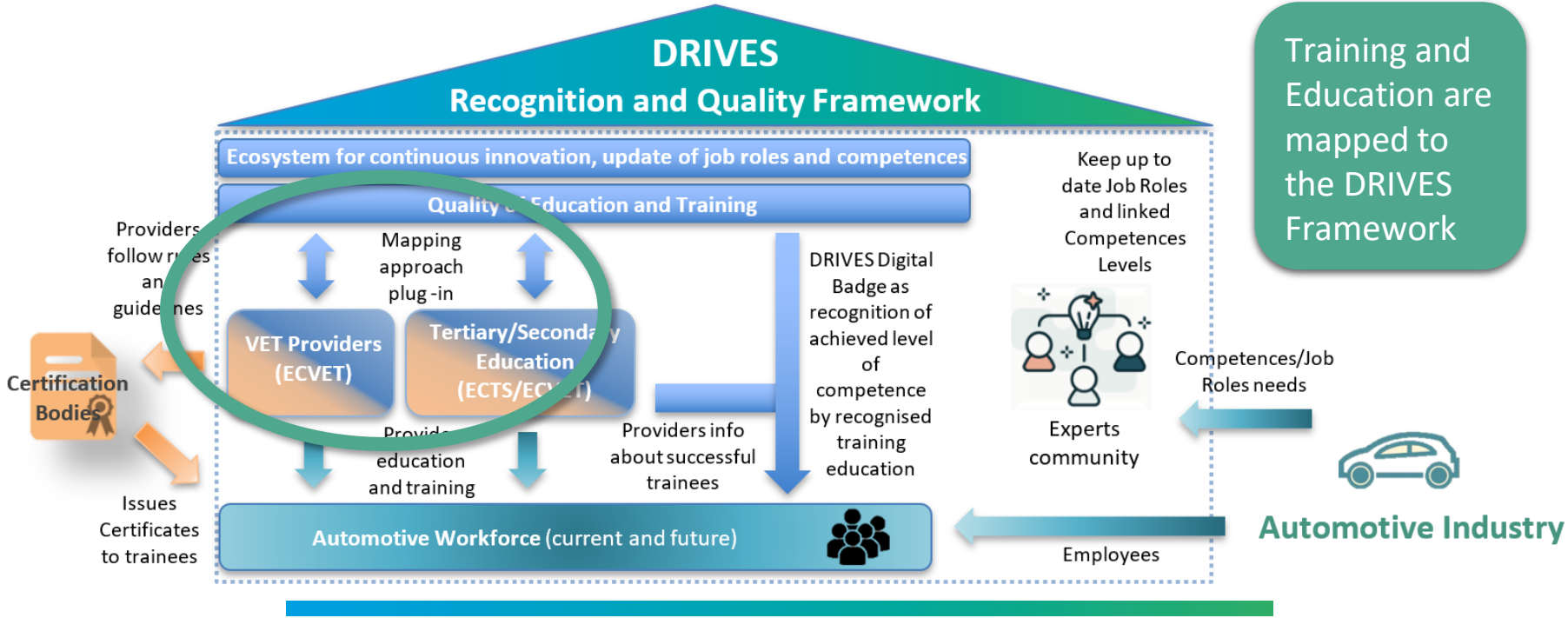
Mapping approach – Plug-in



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Mapping approach – Plug-in

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Mapping approach – Plug-in

- By that **training courses are offered in the DRIVES Framework** online platform

- **Training courses are recognized and offered across EU**

- **Trainees** could receive a **DRIVES Digital Badge** when they complete their training alongside the traditional certificate (outside the Framework)

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DRIVES Framework Overview

DRIVES Digital Badge

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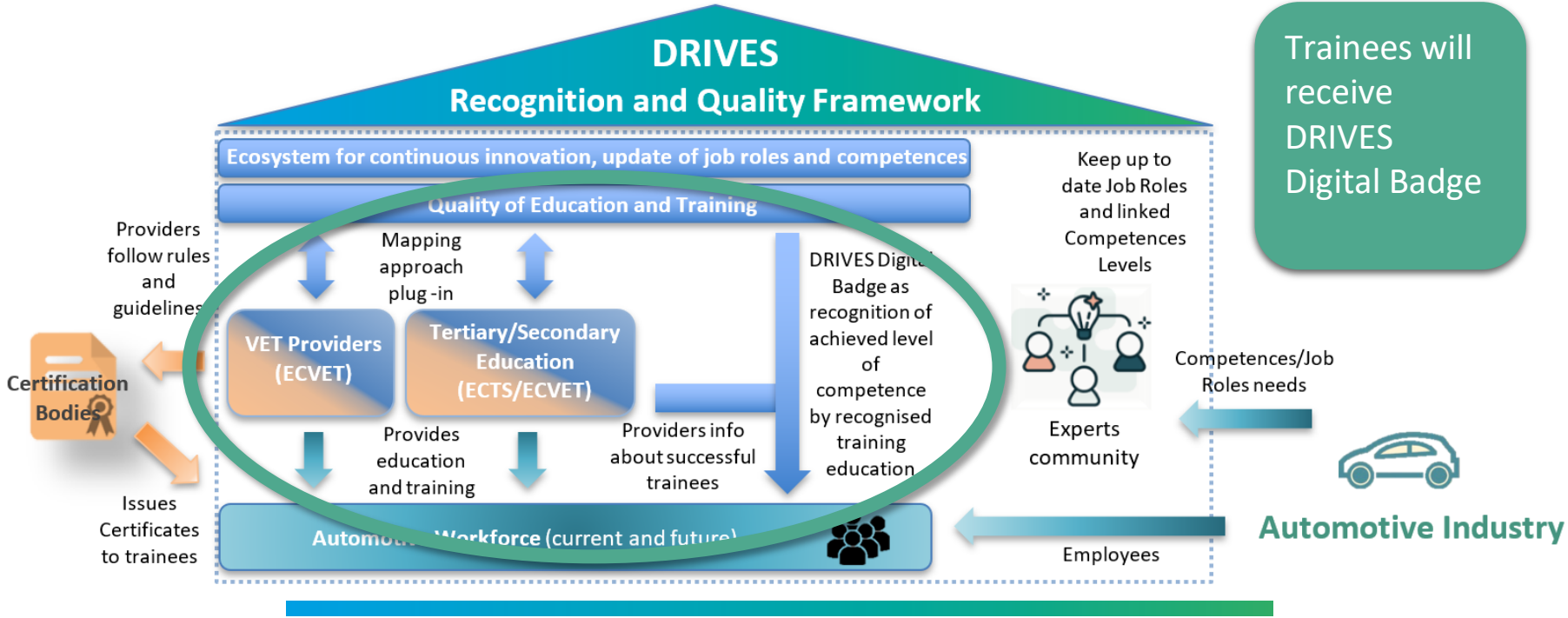
DRIVES Digital Badge



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DRIVES Digital Badge

- **Digital Badge** is proven and recognized **achievement of Competence(skill) and its level**
  - E.g. Artificial Intelligence – level Expert
- **Digital Badge is parallel to existing certificates**
- **Trainee** after successful training **receives DRIVES Digital Badge for Competence(skill) and its levels achieved**
  - Could see it in the system, share to social networks/CV, etc.
- **Training organization** with its training courses plugged-in DRIVES Framework **register trainees to the system** to be able to receive DRIVES Digital Badge

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DRIVES Digital Badge – Additional Possibilities

- **Trainee based on successful completion of training course receives the DDB** (Drives Digital Badge) **for all competences/skills (on defined levels) linked to the training**.
  - E.g. Training 1 – Competence/Skill 1 Expert, Competence/Skill 2 Awareness >>> DDB Competence/Skill 1 Expert, DDB Competence/Skill 2 Awareness

- **Possibility to add type of achievement -** Defined by the training info in DRIVES Framework
  - Passive (e.g. listening to presentations)
  - Active (e.g. exam, project)

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DRIVES Digital Badge – Procedure for Achievement

- **Training organization which performed the training** plugged into the DRIVES Framework **registers trainees to the system**

- **Automatic**
  - **SW API to the DRIVES Framework to automatically submit information** about successful trainee
- **Manual**
  - **Training organization logs in to DRIVES Framework page and enters information** about successful trainees to the system

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DRIVES Digital Badge – View

- Trainee could see **it in their account on the DRIVES Framework**
- Could **share/link to social network and other media, such as CV**
- Could generate **DRIVES "Job Role Badge" – collection of all badges received and valid for particular job role**
  - E.g. If person receives all competences/skills related to particular job role/s could receive generated Job Role Badge

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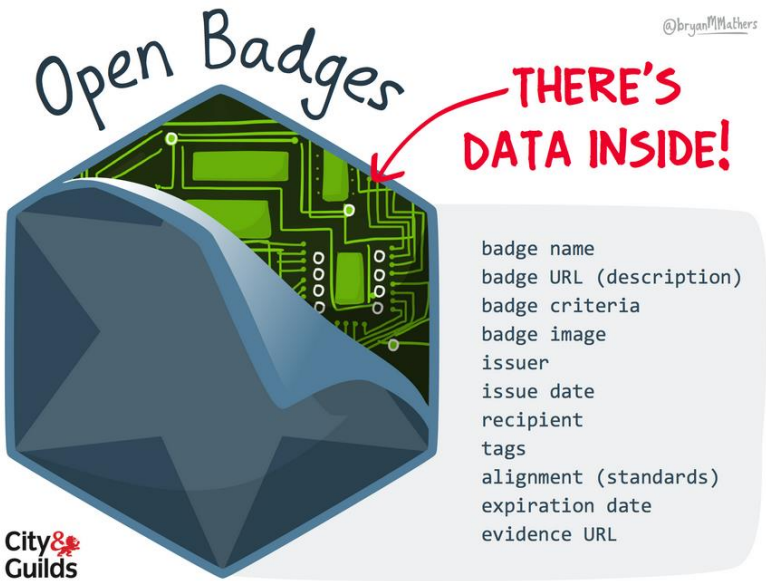
DRIVES Digital Badge – What is it?



Open Badges Peeled by Bryan Mathers (Used under CC-BY-ND License). See more of Bryan's badges work on #OB101

- Based on technology solution from https://openbadges.org/get-started/issuing-badges/#

- **Badge provide a flexible way to recognize learning** wherever it happens, in and out of formal education and the workplace. They can represent any achievement from simple participation to evidence-backed competency development

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DRIVES Framework Overview

DRIVES Ecosystem for Job Roles and Skills update

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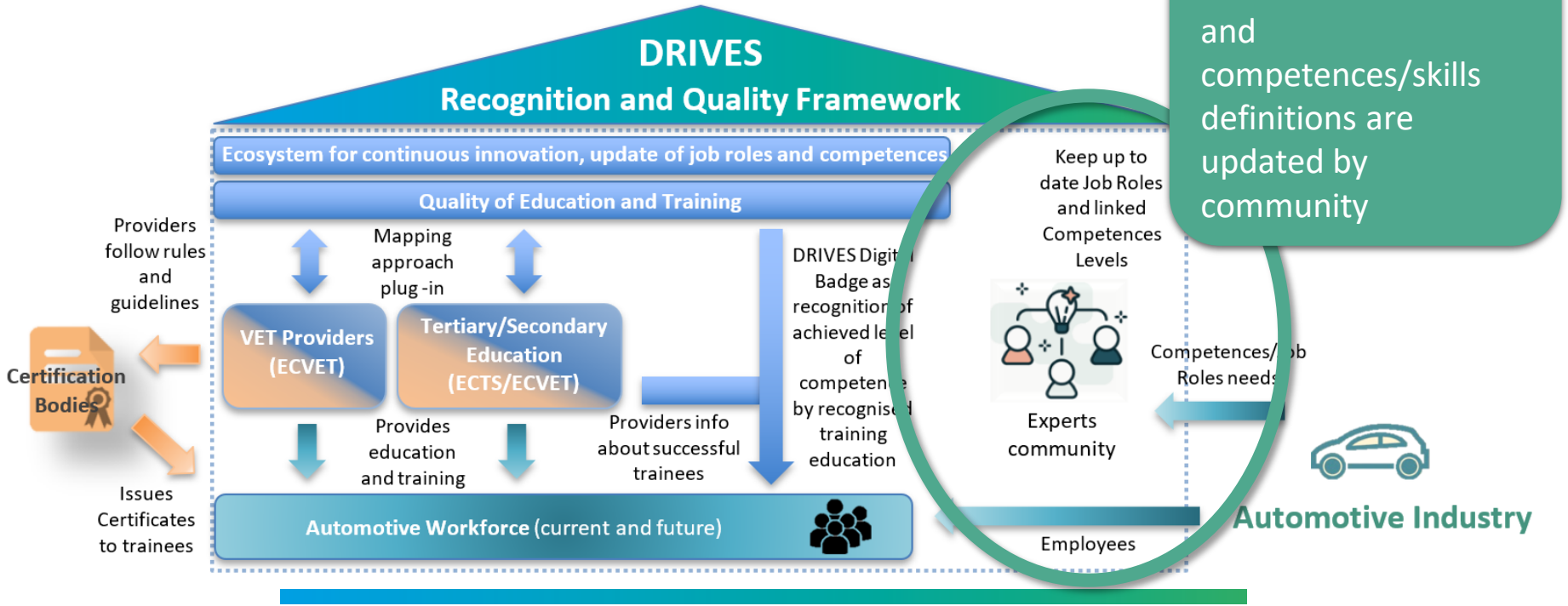
Ecosystem for Continuous Update



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Ecosystem for Continuous Update

- **Job roles definitions and competence/skills definitions** in the system needs to be continuously updated – reaction to the changes in the sector, expanding to the other domains in the sector

- **Update by**
  - **Community approach** – Automotive stakeholders community (training providers, certification bodies, companies, academia, etc.) could update job roles and competence/skills definitions and its linkage online with approval process
  - **Community meetings** (domain focused, skills focused, etc.) – focused to discuss the latest job roles and skills
  - **Survey inputs** – propose changes to wiki community

- By that actual and sector specific list of **competence/skills and linked job roles in Automotive Sector**

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Challenge: FIND THE RIGHT LEVEL OF DEFINITIONS

- to match **industry** understanding
- to match **training** description

Note. Not to detailed, not too high-level > Definition and continuous **update by the Community**

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DRIVES Framework Overview

Improvement of current system

NOT disruption

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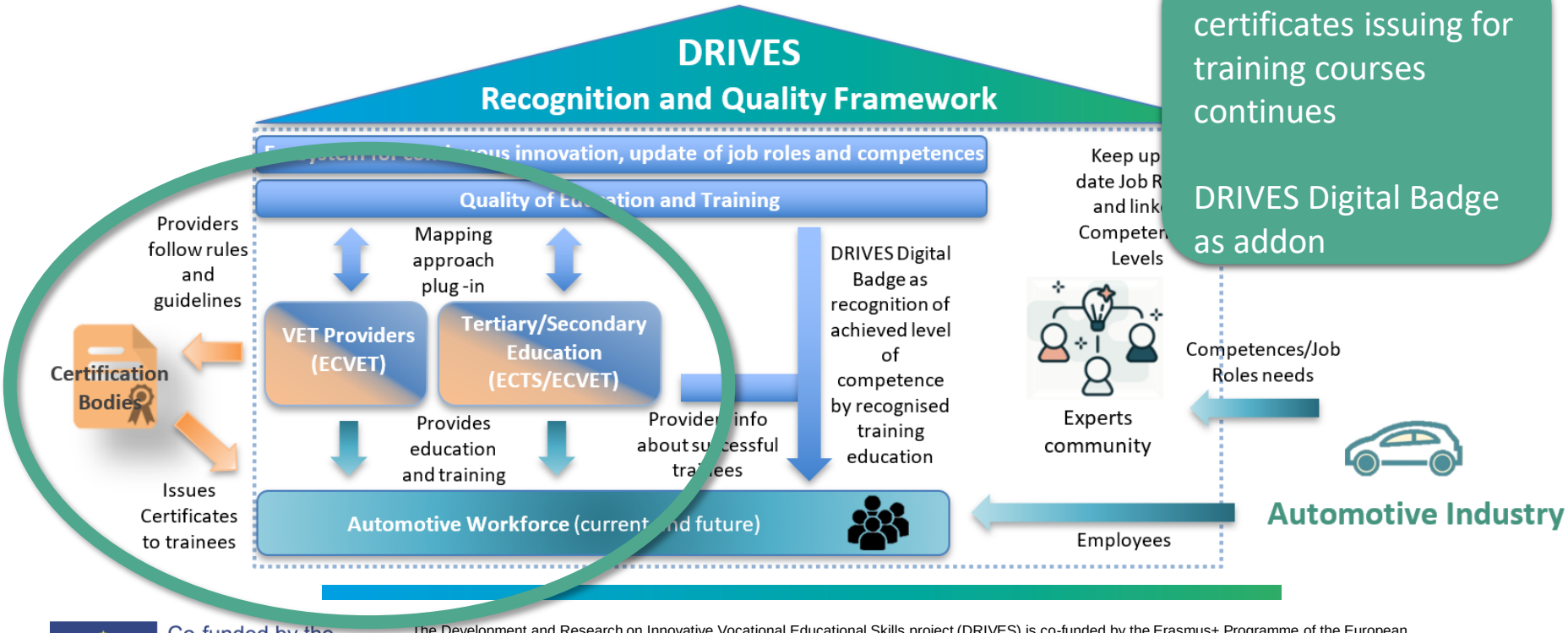
Improvement of Current System NOT disruption

Current existing certificates issuing for training courses continues

DRIVES Digital Badge as addon



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Improvement of current system NOT disruption

- **Certificates issued are still valid and used**
- **DRIVES Digital Badge is just add on** to endorse achieved level of competence/skill and to allow mutual recognition across EU Automotive sector
- One is supporting the other by **quality assurance and recognition**
  - **Training courses with recognized certificates adhere to rules considered as trusted**
  - Others need quality assessment or self assessment

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Conclusions

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DRIVES Framework for Automotive Sector

- Provides **simplified and harmonized approach to upskilling and reskilling** of the current and future workforce
- Provides **clear definitions of Job Roles and its Competences/skills**, specific for Automotive Sector
- Provides **EU database of training courses and education in the sector**
- Provides **recognition of competence/skills awards**

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DRIVES Framework for Automotive Sector

- Main features:
  - **Continuous update of Job roles and its Competences/skills definitions** - Expert community approach
  - **Database of training courses for Automotive Sector** (paid/free, onsite/online, with certificate/without certificate, etc.)
  - **DDB - DRIVES Digital Badge** for achievement of the level of competence/skill by plugged-in training

- Based on the main features, “smart” features:
  - **Assessment own competences/skills**
  - **Training path** definition to gain desired job role and its competence/skill levels

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DRIVES Framework – Timeline

May 2020

Public **comment from sectoral stakeholders to the proposed approach**

Possible **pilot plug-in of existing training courses**

Development of the first version of the **DRIVES Framework website**

Sep 2020

Public release of first version of the **DRIVES Framework website**

Sep 2020

Pilot plug-in of available training courses and education to the DRIVES Framework

Pilot ecosystem for update of reference job roles and competences/skills

Continuous development of additional functions, adjustments needed and automatic API

Dissemination of the DRIVES Framework

Dec 2020

Jan 2021

Piloting of DRIVES Digital Badge

Continuous development of additional functions, adjustments needed and automatic API

Dissemination of the DRIVES Framework

Mar 2021

Mar 2021

Pilot run of DRIVES Framework ecosystem

Continuous development of additional functions, adjustments needed

Dissemination of the DRIVES Framework

Dec 2021

Jan 2022

Run of the full version of the DRIVES Framework

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Appendix A - DRIVES Framework – Use Case

- **USE CASE – Company need to react on industry change and retrain their 1000 operators in production at XYZ Country**
  - Identification of **Competence/Skills** and their **Levels** needed – e.g. Artificial Intelligence – Awareness
  - **Find training courses** offering the competence/skill on this level **in DRIVES Framework**
  - **Choose the training** that fits the most (location, price, skills cover, type of training, …)
  - Train operators
  - Operators **receives DRIVES Digital Badges** – their level of competence/skill is recognized in EU

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Appendix B - DRIVES Framework – Current Preview Version

- **Preview version (mockup) of basic functionalities of DRIVES Framework**
  - https://drivescloud.vsb.cz/mockup/

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DRIVES
Development and Research on Innovative Vocational Education Skills

Project Deliverable Title

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Project Deliverable Title (1)

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