



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



E – DRIVETOUR

Beyond the Border of Electric Vehicles: an Advanced Interactive Course

Erasmus+ Programme: Knowledge Alliances

Project Number: 612522-EPP-1-2019-1-EL-EPPKA2-KA

Project Presentation

Kick off meeting

Brussels, February 4th, 2020

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Aims and Objectives



Development of an **interactive course on electric vehicles** with an interdisciplinary curriculum that includes reconfigurable laboratory apparatus, innovative demonstrator, group assignment & industrial experience.

3-year project (2 years preparation – 1 year actual education)

Objectives

- Develop an innovative course on Electric Vehicles
- Recognised by academia & industry throughout the EU by using the ECTS credit system
- Create an easily deployable course for use by other EU educators
- Set the foundations for developing a Masters course on Electric Mobility

Problem addressed

- General ignorance of students, professionals and public on Electric Vehicles technology

Current practices



Very few educational programs focusing on the overall Electric Vehicle technology

- Mostly run as **single courses** or **part of various courses** in pre- or post- graduate programs on more general subjects
- **Conventional** educational material (lectures, demonstration)
- **Few** vocational training programs mainly organised by industries
- **General ignorance** of the electric vehicle technology even by professionals

New / innovative in our approach



- **Certified educational program** based *solely on the Electric Vehicle technology*
- Discussion has already be started on connecting program subjects with **industrially recognized competences**
- **Mix of educational approaches** (not only lectures, laboratories, tool demonstrators developed by students, industrial practice, virtual reality tools)
- Initially aiming for students but **open to professionals** as well
- Gain the interest of **participating students** in order to **become the best advertisers** for the future versions

Short (S) and long (L) term impact



Students

- (S, L) highly likely to get a job offer or encouraged to apply for a future opening by the participating industrial partners and SMEs

Measure: No of Students employed by participating enterprises

Industrial partners

- (S) opportunity to select employees from candidates trained by them
- (L) constantly and efficiently feed their needs

Measure: No of Students employed by participating enterprises

Academics & market business

- (S) chance to exchange knowledge between them and with the industry
- (L) enrich their course palette

Measure: (S) No of projects and publications, (L) No of new courses on EV technology

The European startup & SME ecosystem

- (S) entrepreneurial thinking to increase possibility for a start-up in EV sector
- (L) enhance their literacy, numeracy and digital competences

Measure: No of new startup and SMEs related to the project participants

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Project schedule



Project Organisation

- Work is divided into 6 work packages (1 preparatory, 3 development, 1 dissemination, 1 Project management)
- **Preparatory WP**
 - **WP1:** Application requirements & specifications
- **Development WP**
 - **WP2:** Academic Curriculum Development
 - **WP3:** Laboratory Apparatus Development
 - **WP4:** Integration, Deployment and Benchmarking
- **Dissemination WP**
 - **WP5:** Exploitation and Dissemination
- **Management WP**
 - **WP6:** Project management

Project kick off meeting

- Taken place on **January 16th-17th** in Thessaloniki, Greece
- All **WPs were analysed – administrative issues**
- First **goals, responsibilities and deliverables** were set
- Next meeting defined in 6 months

Visibility and dissemination

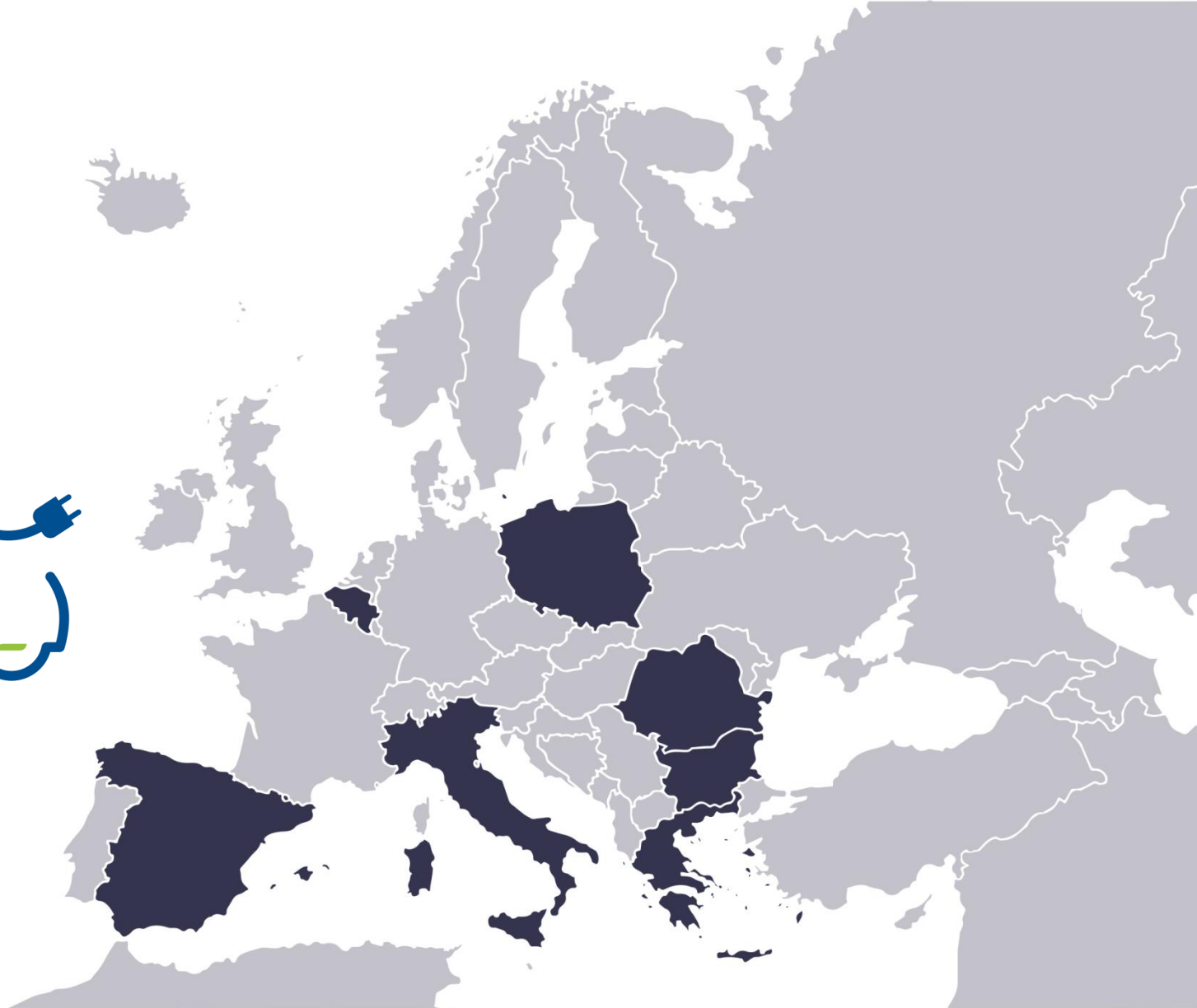
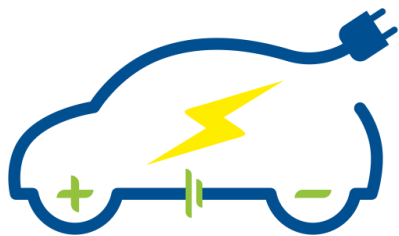


Visibility

- Web Portal & Social Media Presence (*specialized and wider public*)
- e-Learning Platform (*educational material*)
- Technical Publications (*specialized public*)
- Forum & Event participation (*specialized and wider public*)
- Cooperate with related industry initiatives (*specialized public*)
- Workshops (*specialized and wider public*)
- Promotional Content (*wider public*)

Successful Story

- Found a **Masters course** on Electric Mobility (first in Europe!)
 - Run on an annual basis – attract graduates outside Europe
- Increase *industrial and HEI participation*
- Foundation of an **accredited vocational training program**



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