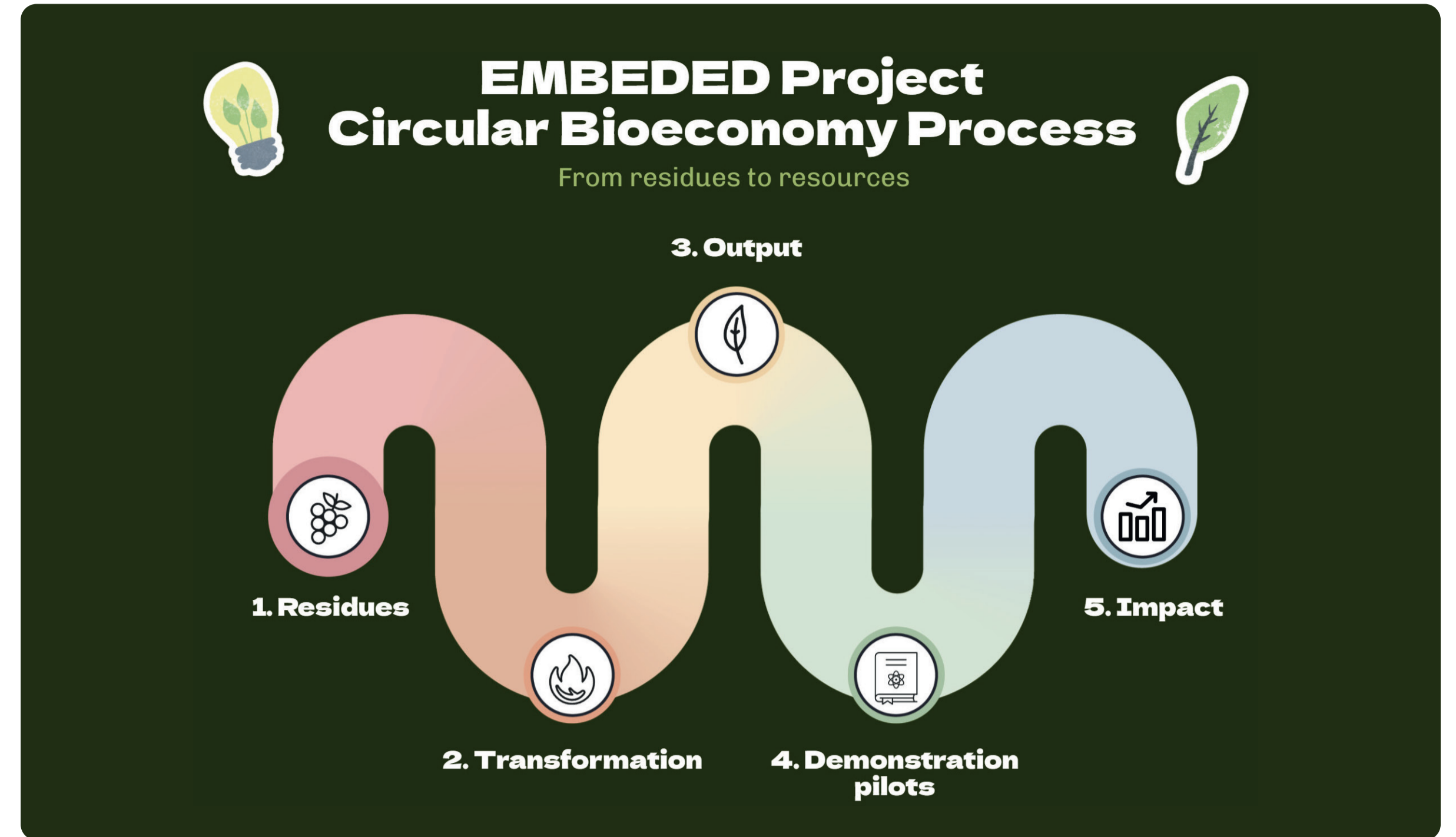


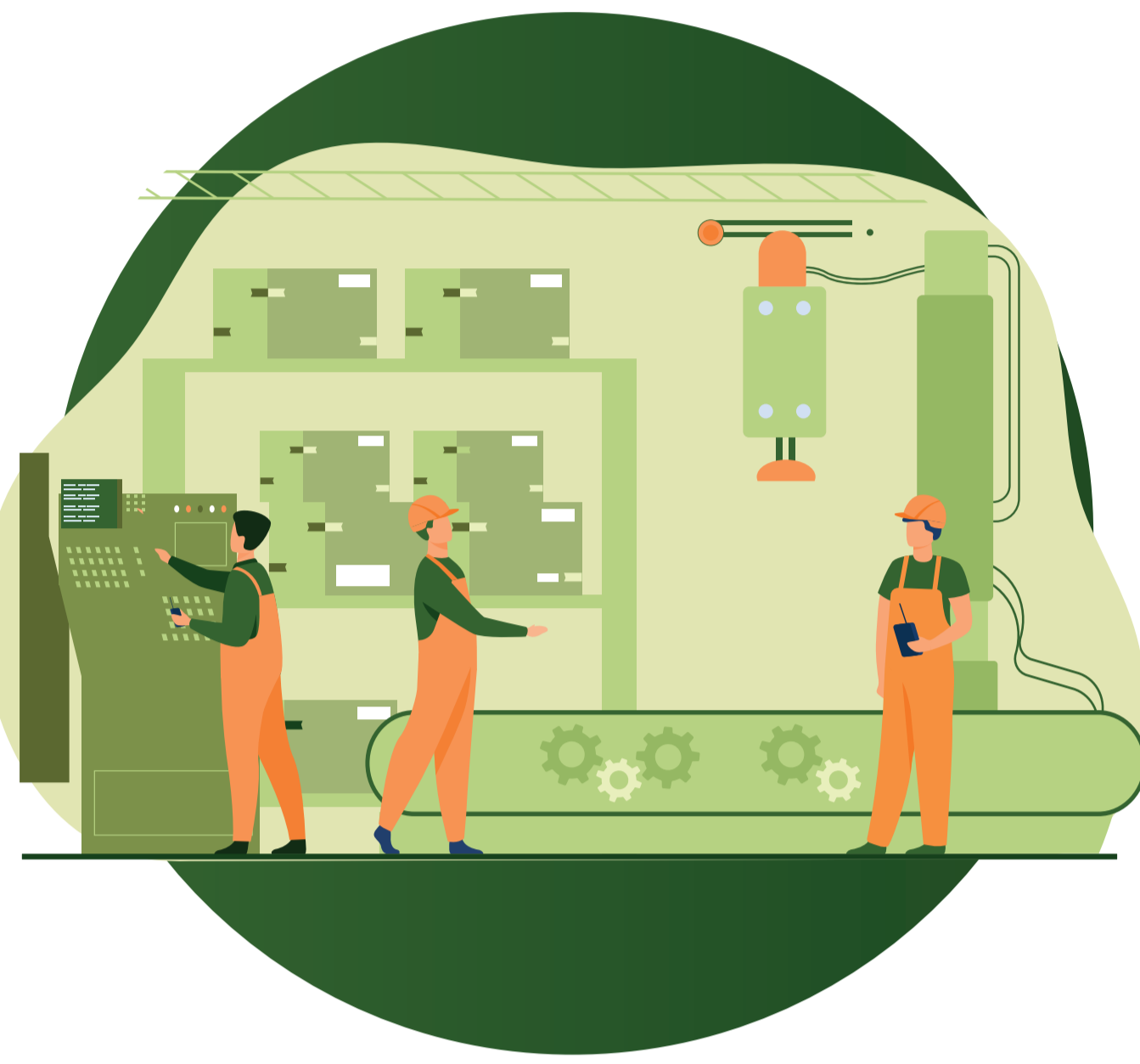
Exploiting Modular Biochar and board production plants to locally transform waste from traditional agrifood, feed and forestry industries into bio-materials with rEgional DEMand.

About the project

Europe's agri-food and forestry industries generate large volumes of residues such as olive pomace, grape marc, cork bark or grass press-cake. EMBEDED will demonstrate modular solutions to transform these undervalued by-products into climate-positive materials



Objectives



Modular plants for bio-materials production



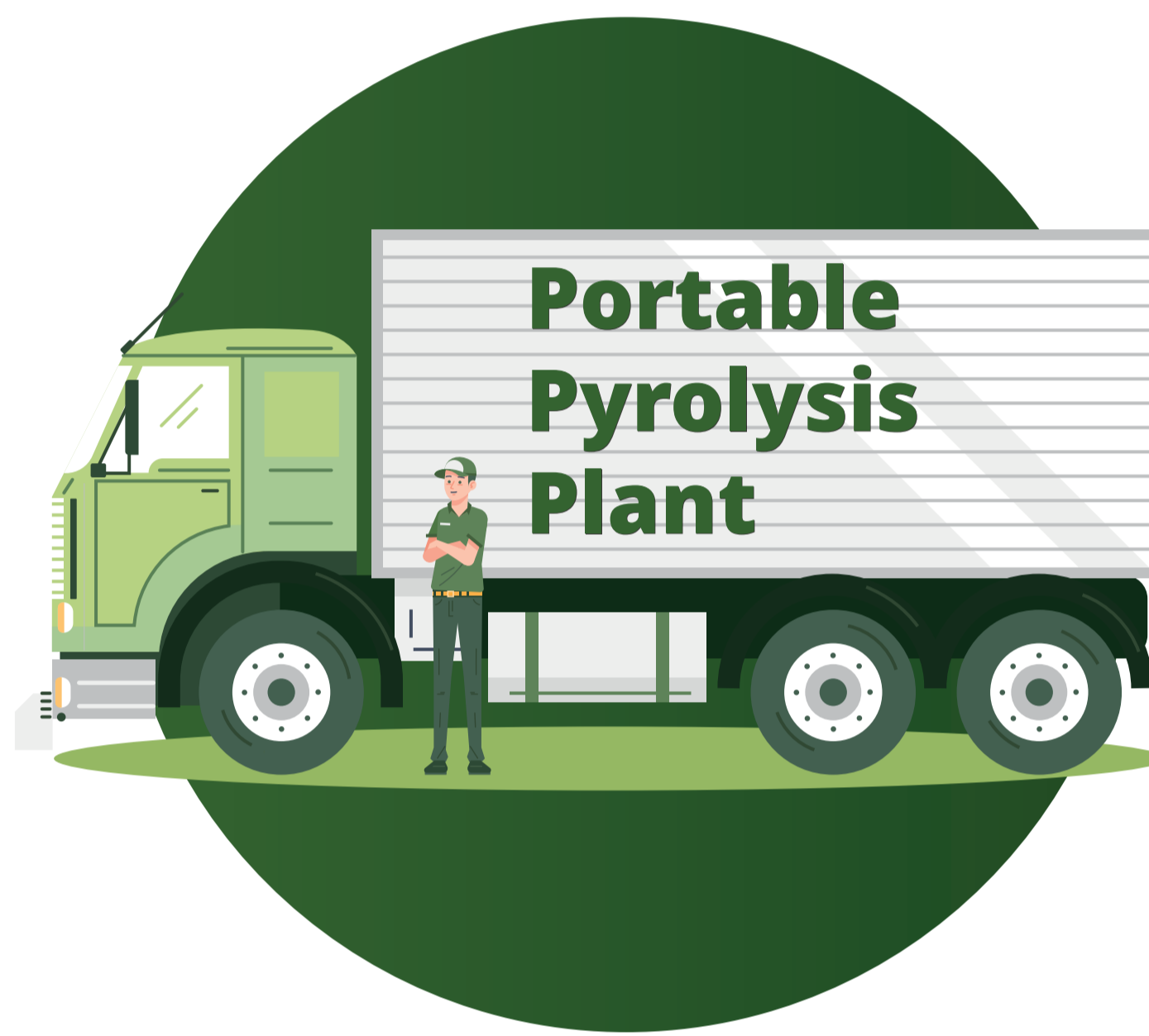
Pyrolysis demo: 50 tons valorised



Cork waste board production demonstration



Certification of bio-materials and biofertilisers



Business cases for pyrolysis and boards



Clustering with stakeholders and authorities

15 Participants	4 European Countries	5 Million Euros Funded	3 Years of Duration
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Impact

EMBEDED will foster a climate-neutral bioeconomy by using modular technologies to valorise underused agricultural and forestry residues.

Through portable pyrolysis and cascade valorisation, it will turn over 50 tonnes of biomass into biochar, biofertilisers, and other climate-positive materials—avoiding up to 1.5 tonnes of CO₂ per tonne of biochar. The project empowers producers, promotes cleaner land management, and improves GHG accounting with regional data, while open calls, training, and demos will boost uptake across Europe.



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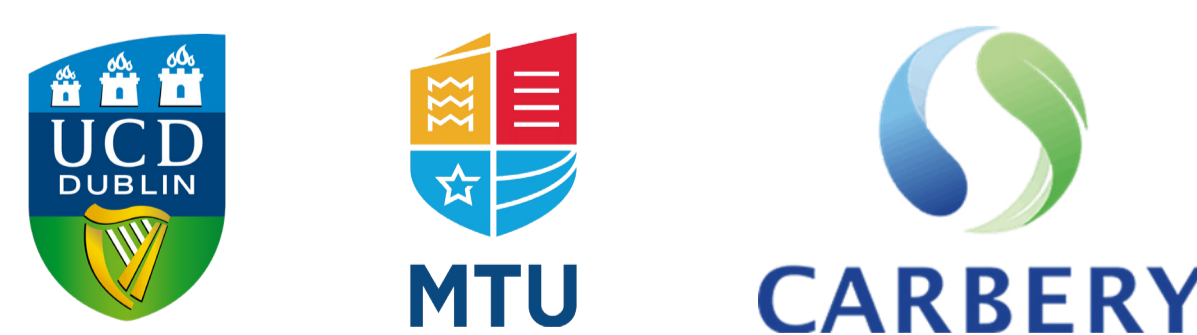
Project Coordinator



Czechia



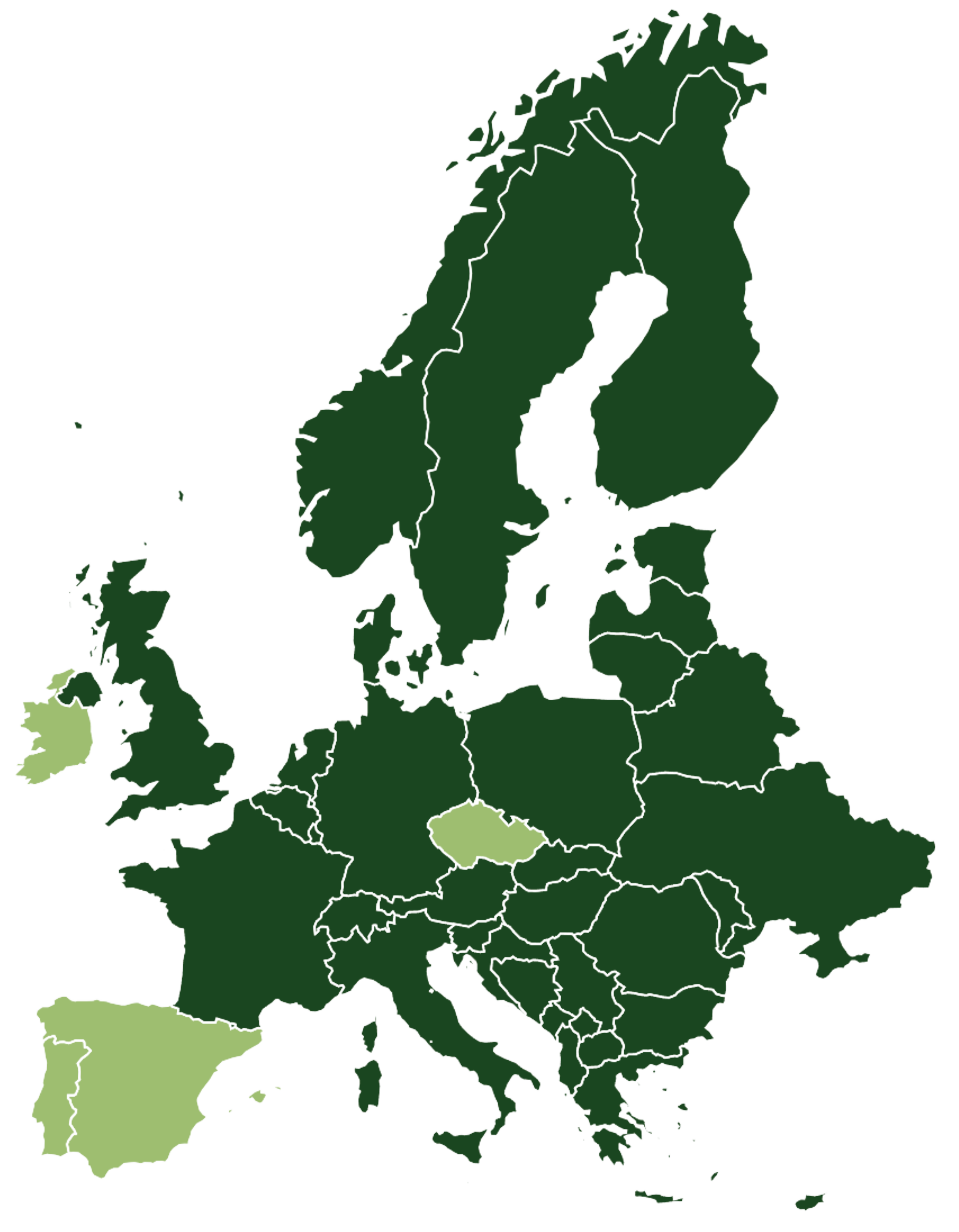
Ireland



Spain



Portugal



Funded by the European Union

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