



Green Gecko

**Training the 21st-Century Engineer for
the Green Transition in Southeast Asia**

AN ERASMUS+ CAPACITY BUILDING INITIATIVE | 36 MONTHS | 12 PARTNER UNIVERSITIES | 6 INDUSTRY PARTNERS

The Core Challenge: Bridging the Skills Gap



Broad, theory-heavy engineering focus.

Siloed academic environment with a stark divide from practical industry applications.

Limited exposure to sustainability principles; environmental courses are often optional.

Southeast Asia is rapidly industrializing, but engineers are entering the workforce without the specialized low-carbon tools required by modern industry.

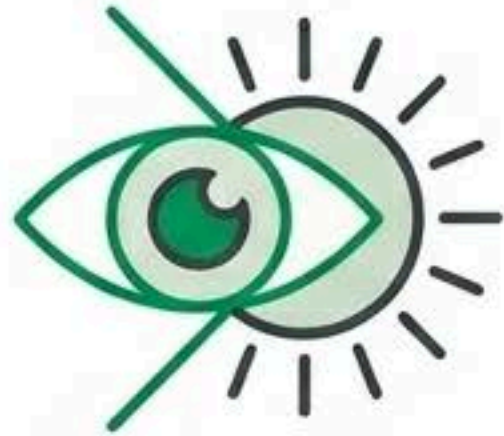


Specialized low-carbon skills required for international compliance (e.g., CBAM)

Mandatory proficiency in Life Cycle Assessment (LCA) and Carbon Footprint calculations.

Practical, industry-led capstone experiences integrating Circular Economy expertise.

The Green Gecko Vision & Objectives



Catalyze Awareness

Introduce sustainable engineering concepts to students, faculties, and institutional bodies through targeted seminars and stakeholder consultations to spark immediate climate action.



Empower HEIs

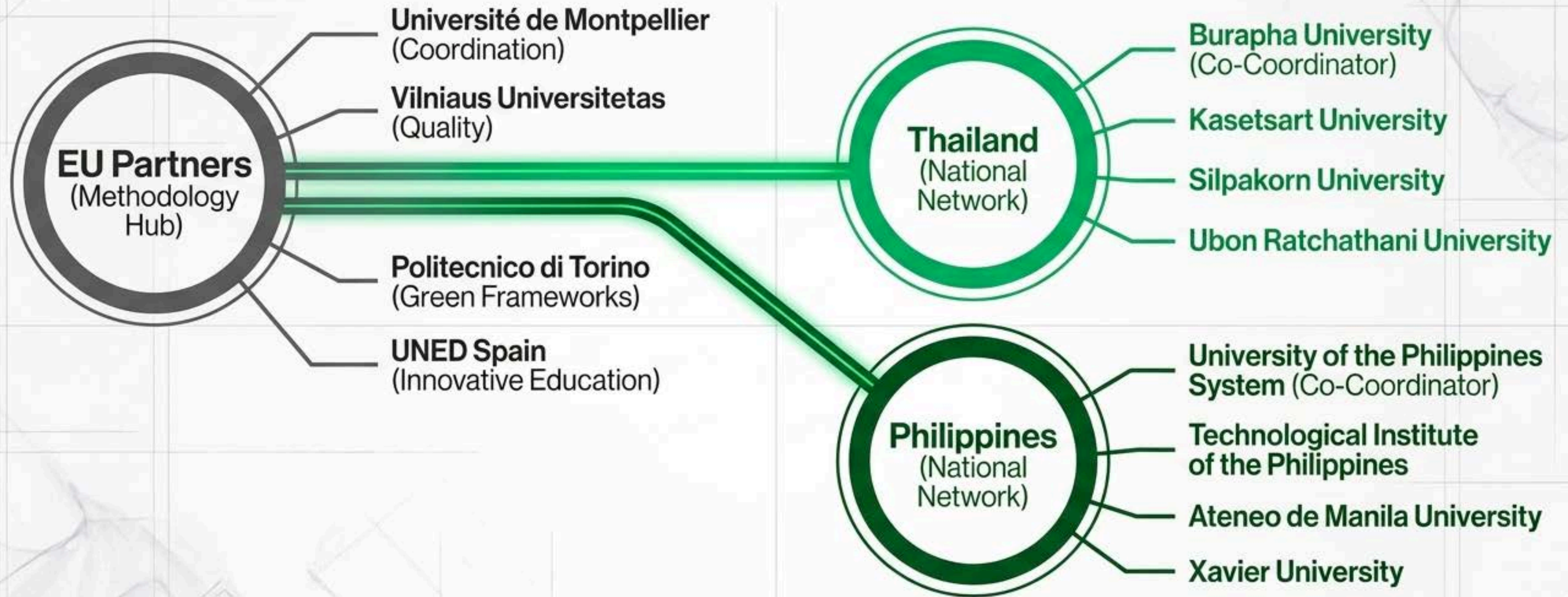
Radically upgrade curricula by training 40 core faculty members and co-creating 10 highly specialized modules to upskill 400 future engineers in carbon neutrality.



Bridge the Gap

Foster deep, continuous collaboration between academia and the industrial sector, ensuring that educational outcomes are permanently linked to real-world labor market demands.

The Intercontinental Consortium



Key Industry & Institutional Associated Partners:

CEDT

PAES

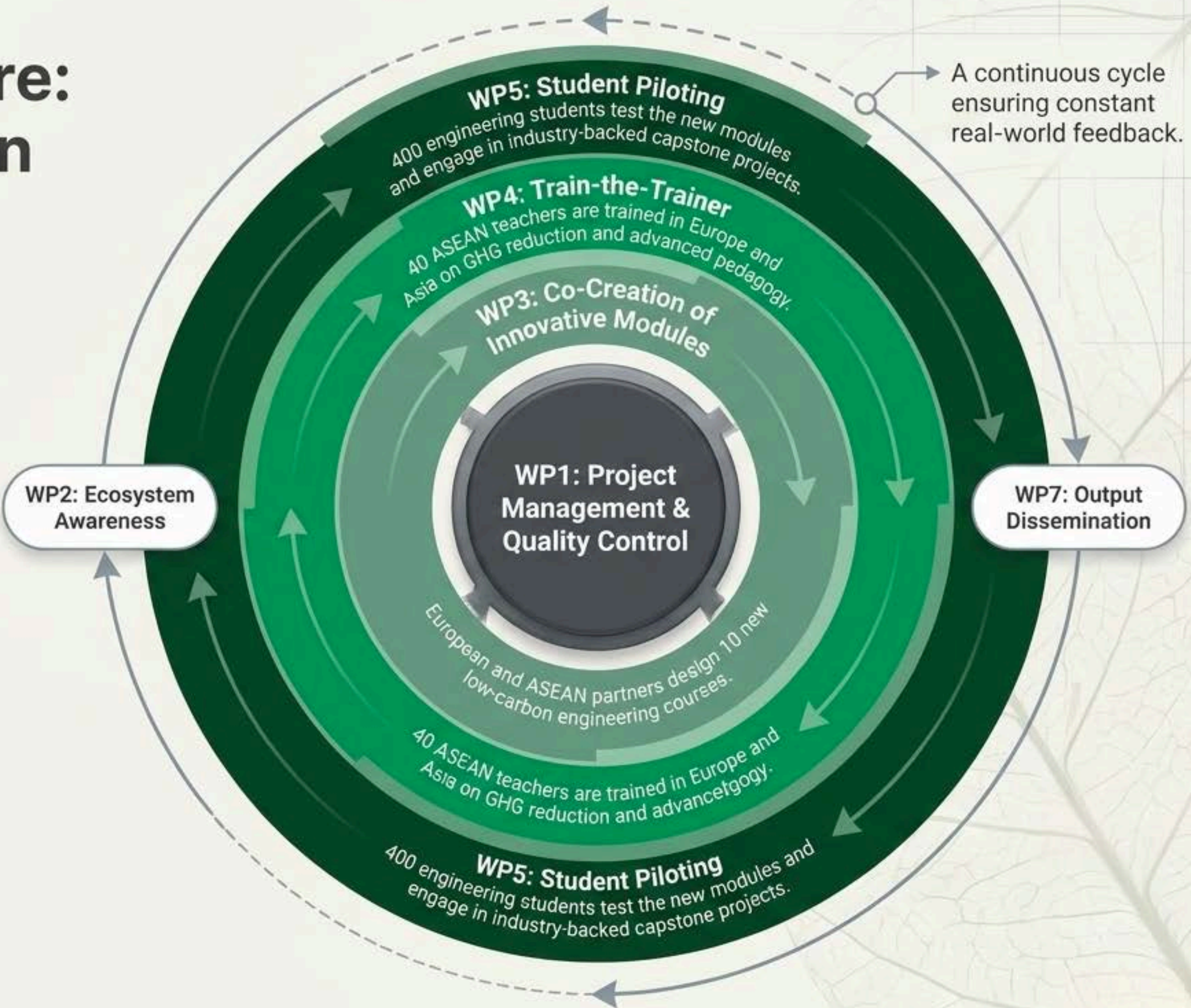
PTC

TRA

TEPNET

First Philippine Holdings (FPH)

Project Architecture: The Transformation Engine

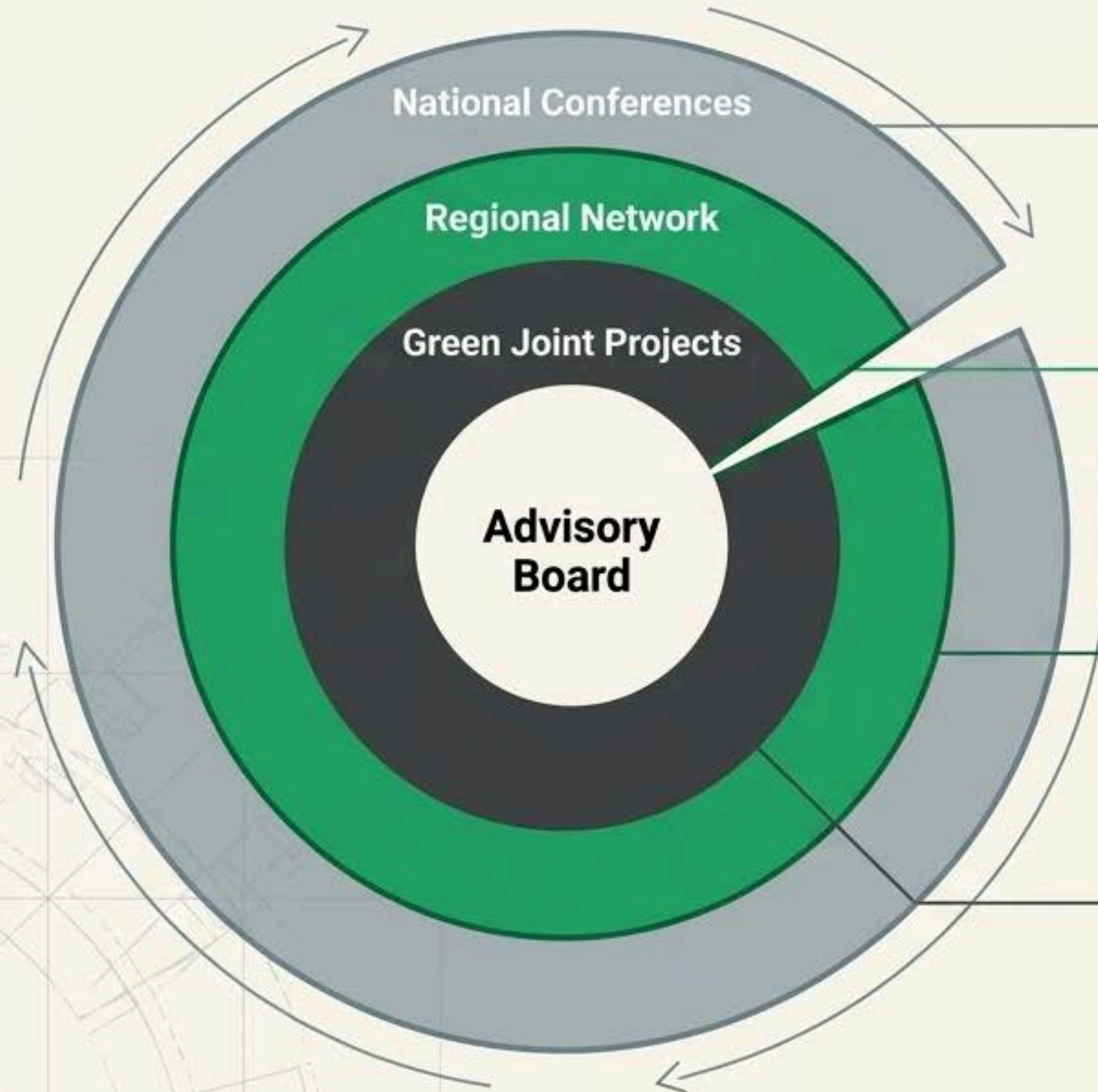


Scope Deep-Dive: Educational Innovation



The Ultimate Output: 1 comprehensive teaching manual + 10 modules (equivalent to a 3-credit course), integrated via Outcome-Based Education (OBE).

Scope Deep-Dive: Ecosystem Activation



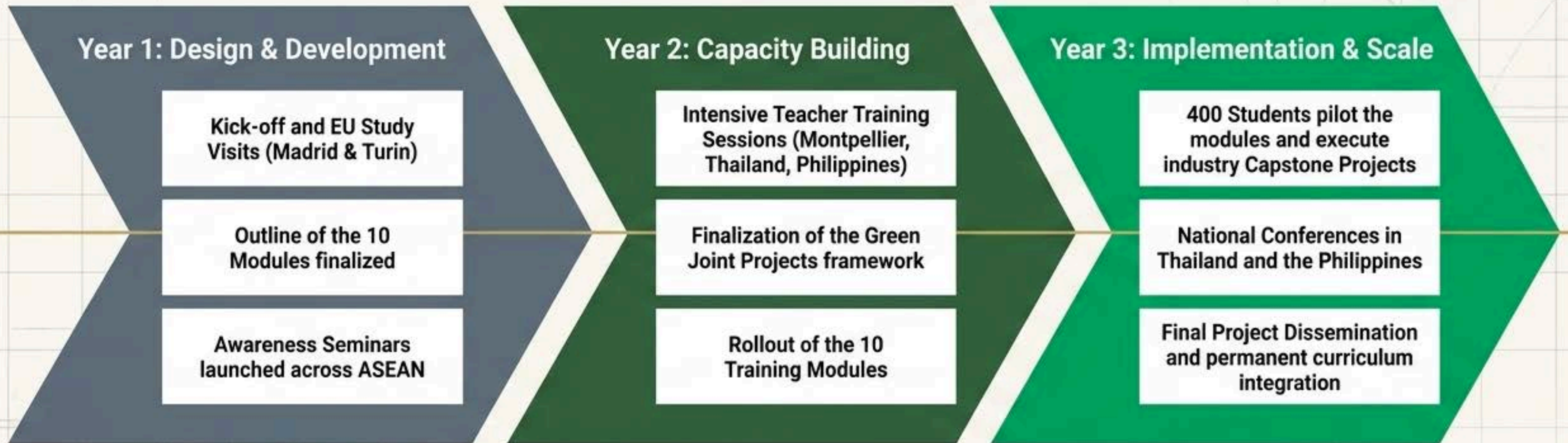
Major capstone events in Thailand and the Philippines where top student teams pitch their GHG reduction projects to industry panels.

Establishing a permanent, digital platform connecting industry, academia, and government across Southeast Asia for continuous knowledge exchange.

Companies propose real-world challenges. Students execute capstone projects and internships directly addressing industrial pain points.

Industry experts co-design module outlines to guarantee immediate labor market relevance.

36-Month Strategic Roadmap



Expected Impact & Sustainability

Short-Term Horizon (Immediate Output)

400 engineering graduates equipped with low-carbon skills, 50 trained teachers acting as multipliers, and an active Industry Advisory Board.



Medium-Term Horizon (Structural Shift)

10 specialized modules permanently integrated into compulsory university curricula and newly established inter-institutional mobility agreements.



Long-Term Horizon (Macro Impact)

A regional engineering workforce actively driving carbon-neutrality, new pathways for green jobs (Carbon Validators, Green Product Designers), and permanent alignment with UN SDGs.



Ripple Effect

Equipping the workforce to build a carbon-neutral Southeast Asia.

Join the Green Gecko Industry Network. Partner with our student pilot programs to solve your company's real-world sustainability challenges.

Project Website:
[Link Placeholder]

Primary Contacts:
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