



This project is co-funded by the European Union
and the Republic of Türkiye



VIRTUAL EVENT

International
Brokerage Event on



**Clean
Industrial Deal**

4 JUNE 2026

PRESENTER FULL NAME : CAGATAY ALP ARSLAN

ORGANIZATION : BASTAS CEMENT

WORKSHOP NAME : CLEAN INDUSTRIAL DEAL

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Local Dominance, Industrial Scale



Market Share



#1 in Central Anatolia
(31.6% Regional Share)

6.5% National
Market Share

Workforce



1,438

Employees

Infrastructure



2 Cement Plants
(2.6 Mt/y Capacity)



50 Ready-Mixed
Concrete Batch Plants



8 Aggregate Quarries



2 Waste Processing
Facilities

Ecosystem Integration





Bastas Teams' Expertise

- EU-funded projects
- Low-emission cement and concrete products
- Decarbonised production technologies
- End-to-end technology development and implementation
- Design and operation of pilot and industrial-scale demos
- Advanced know-how in CO₂ capture, utilisation, and storage
- Applied research on hydrogen combustion and utilization
- Waste valorisation and industrial symbiosis
- Digital process optimisation
- Intellectual property generation
- Techno-economic and process integration studies



- Collaboration with **400+ organizations** from 30+ countries
- **Pilot and demo-scale projects** with multi-stakeholder participation
- Joint technology validation and scale-up collaborations
- **Knowledge sharing and dissemination** through publications and workshops



- Lab, pilot and industrial scale **carbonation reactors**
- Pilot **grinding technologies**
- Waste **upcycling**
- **Digital process monitoring**
- **Circular** alternative material integration
- **Advanced** material tests infrastructure
- Deep knowledge and experience on **green products**



Bastas Research Fields

Circular Economy and Industrial Symbiosis

- Developing **recycling and upcycling pathways** for construction and demolition waste.
- Substituting **secondary raw materials** in clinker and cement production.
- Promoting **industrial symbiosis** with regional industries for waste valorisation.
- Advancing **resource efficiency** through by-product utilization and process optimisation.



Hydrogen Technologies

- Completed **feasibility studies** on hydrogen combustion in cement production.
- Engaged in **R&D on hydrogen generation, storage, and application** in clinker production.
- Investigating **low-NOx hydrogen combustion** for cleaner thermal processes.
- Exploring **integration of hydrogen with CCUS** for decarbonised energy systems.



Circular Economy and Industrial Symbiosis

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Digitalisation and Smart Manufacturing

- Advancing **process digitalisation** to improve efficiency and reduce operational costs.
- Using **hard and soft sensors** for process optimisation and predictive control.
- Conducting **R&D to enhance energy efficiency and lower carbon footprint** through AI-driven models.
- Submitted several **EU-funded project proposals** on digital process optimisation and sustainability.



United Circles



HORIZON EUROPE
 HORIZON-CL4-2024-TWIN-TRANSITION-01-38
 Project Name: **Networked industrial-urban symbiosis value chain demonstrators for biomaterials, C&DW, circular water loops & WWTPs, driven by Hubs 4 Circularity**
 Project Total Budget: 20.559.550,75 €





FLARE

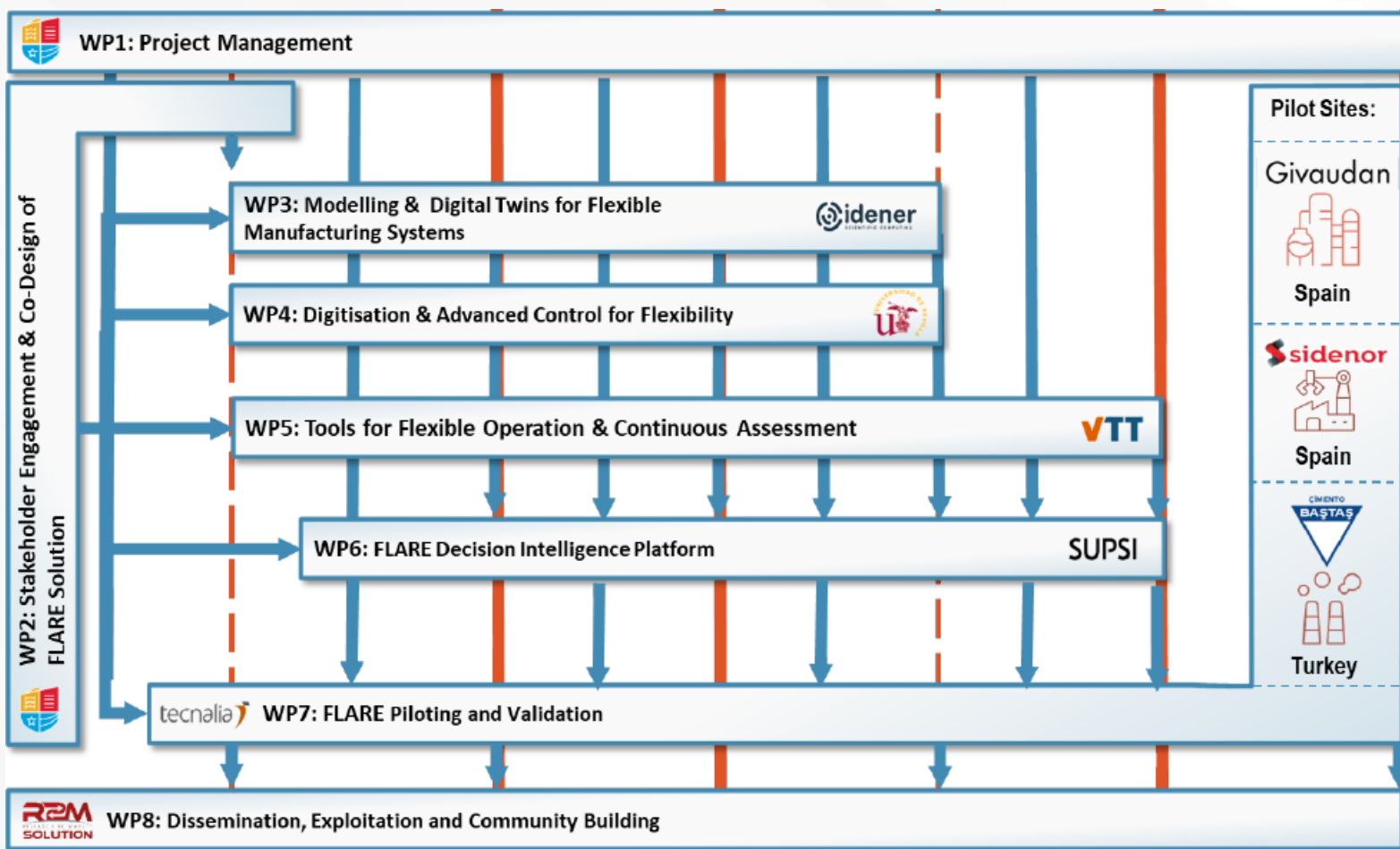


HORIZON EUROPE

HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-32

Project Name: **A Decision Intelligence Platform for FLEXible, Agile, Resilient, and Energy-Aware Processes**

Project Total Budget: 7.990.734,50 €





ERASMUS+

ERASMUS-EDU-2024-PI-ALL-INNO

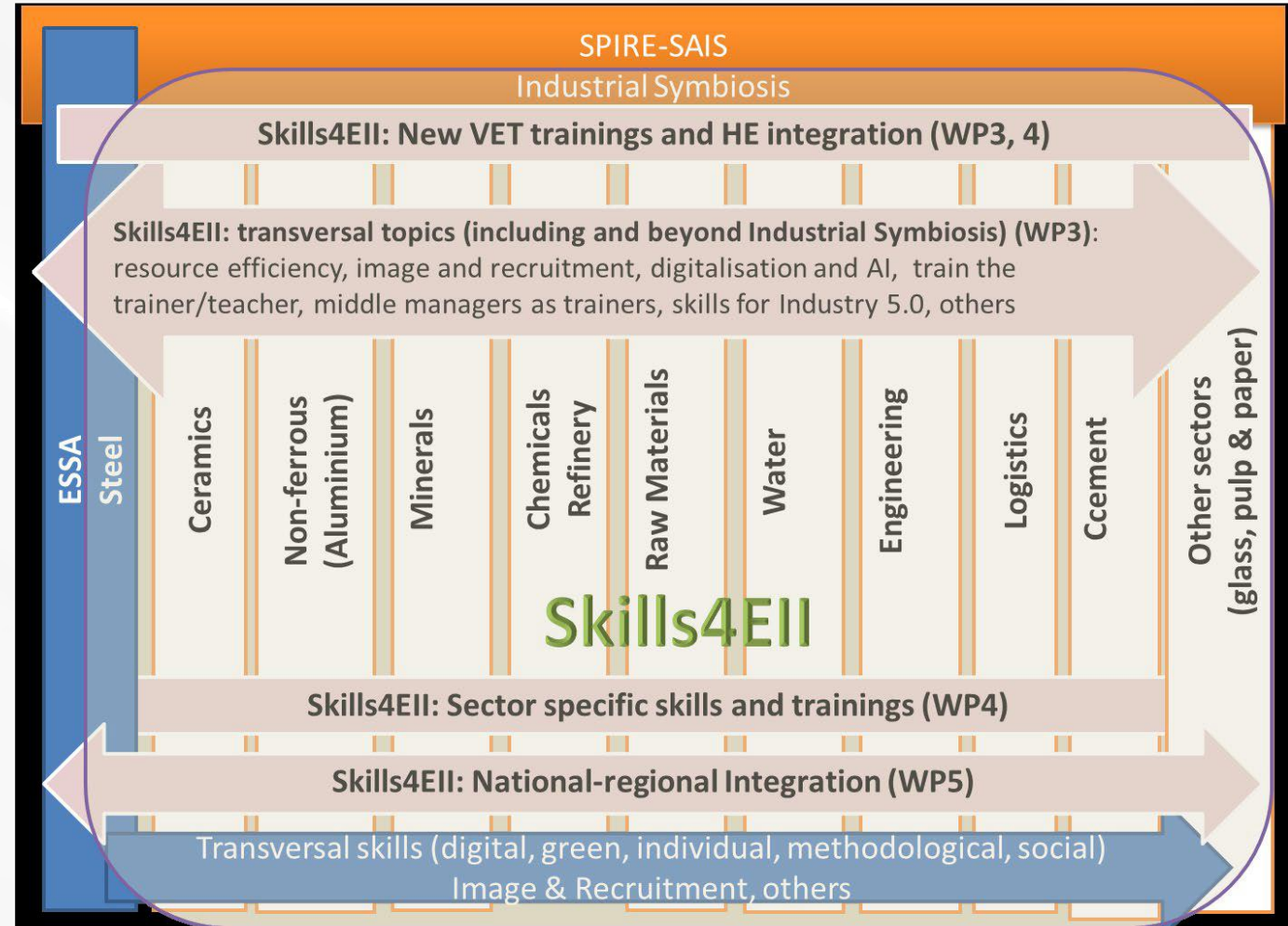
Project Name: **Skills Alliance for the Green, Digital and Social Transformation of the Energy-intensive industries**

Project Total Budget : 3.999.747,79 €



SKILLS4EII

Skills Alliance for the Green, Digital and Social Transformation of the Energy Intensive Industries





Interested Calls

No	Call	Call Name
01	HORIZON-CID-2026-01-01	R&I in Support of the Clean Industrial Deal: Decarbonisation of energy intensive industries (IA) (Processes4Planet and Clean Steel partnerships)
02	HORIZON-CID-2026-01-02	R&I in Support of the Clean Industrial Deal: Clean Technologies for Climate Action
03	HORIZON-CL4-2027-02-MAT-PROD-32-two-stage	Efficient energy input from renewable sources and energy management in the process industries
04	HORIZON-CL4-2027-01-MAT-PROD-02	Advanced manufacturing for key products (Made in Europe partnership)
05	HORIZON-CL4-2027-01-MAT-PROD-22	Innovative advanced materials and new production processes – reducing dependencies on Critical and Strategic Raw Materials
06	HORIZON-CL4-2027-01-MAT-PROD-06	Circular innovative advanced materials: facilitating the transition from design to markets (RIA)
07	HORIZON-CL4-2027-01-MAT-PROD-16	Technologies for innovative processing of raw materials



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TÜRKİYE

