

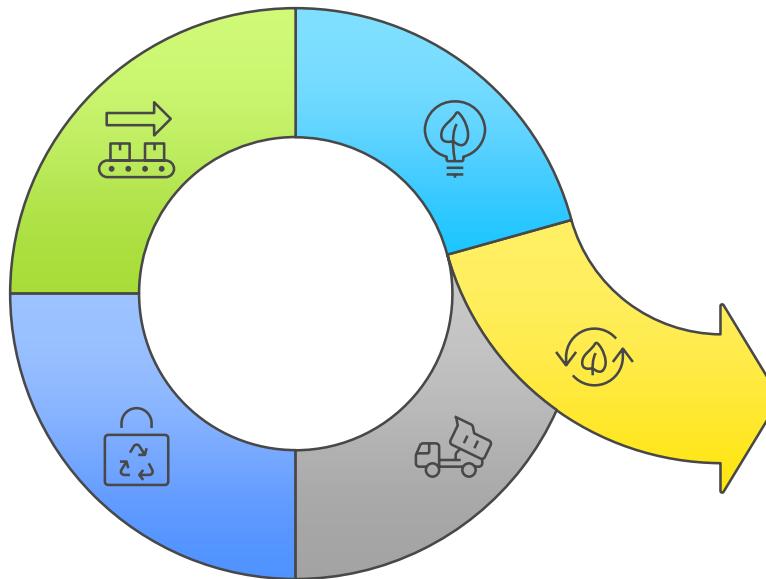


GREENWIN

Driving small business innovation in Ukraine's circular economy

Who We Are

GREENWIN's Recycling Cycle



1
Collect Used Materials
Tires, textiles, hard wastes

2
Develop Recycling Technologies
Creating innovative recycling processes

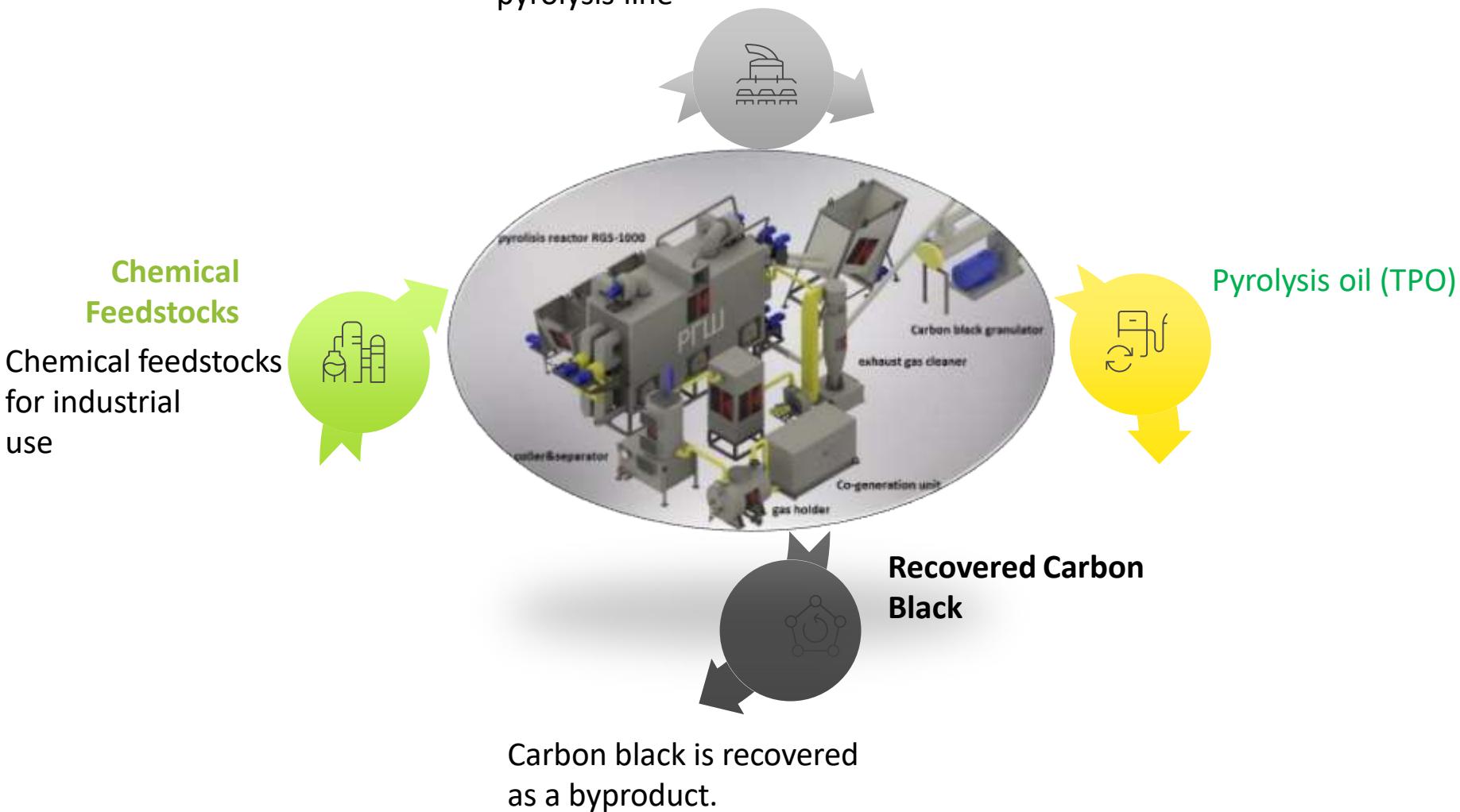
3
Convert to Raw Materials
Transforming waste into valuable resources

4
Promote Sustainability
Encouraging eco-friendly industrial practices

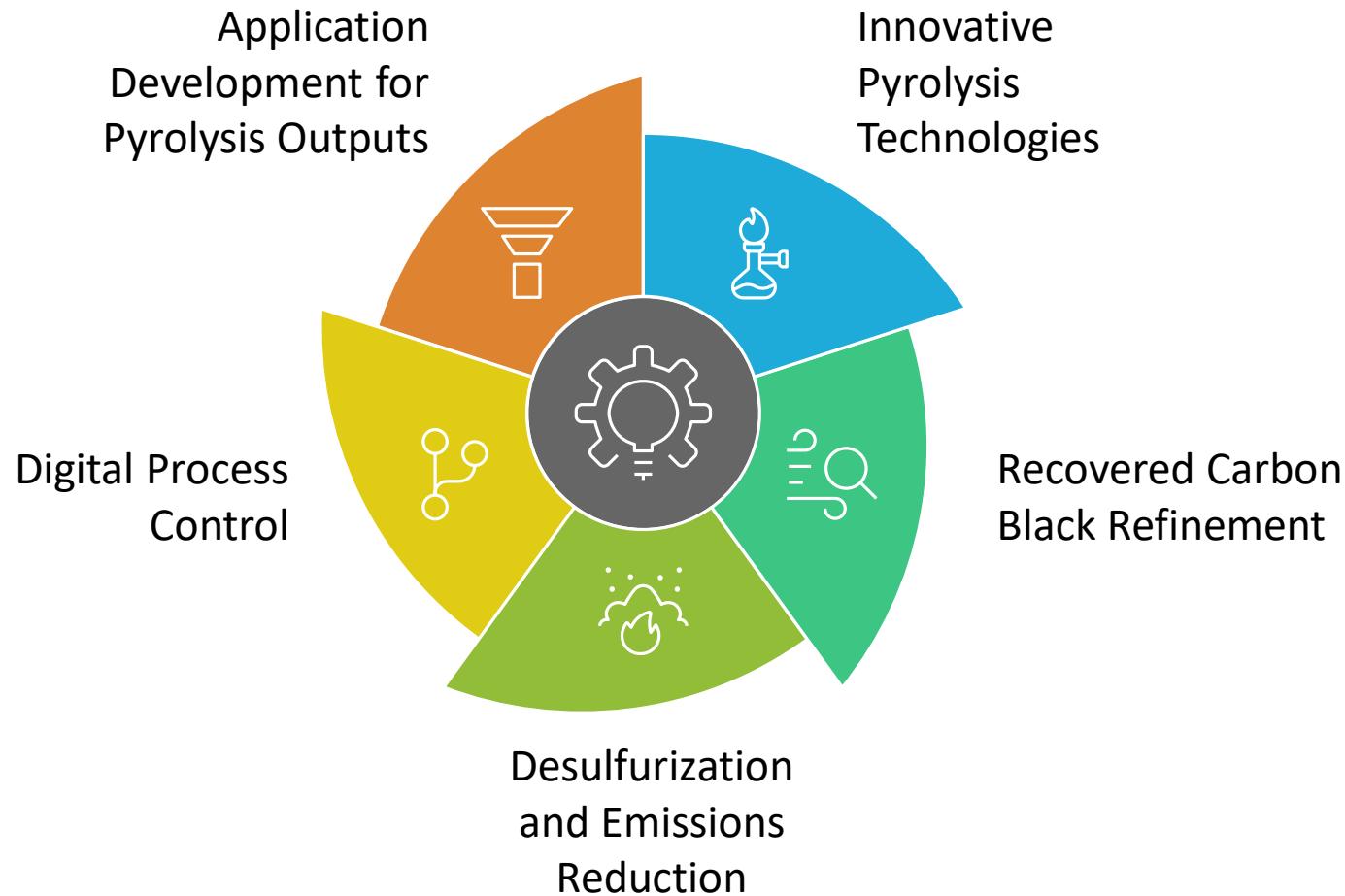
5
Build Modern Recycling Sector
Establishing advanced recycling infrastructure

What We Do

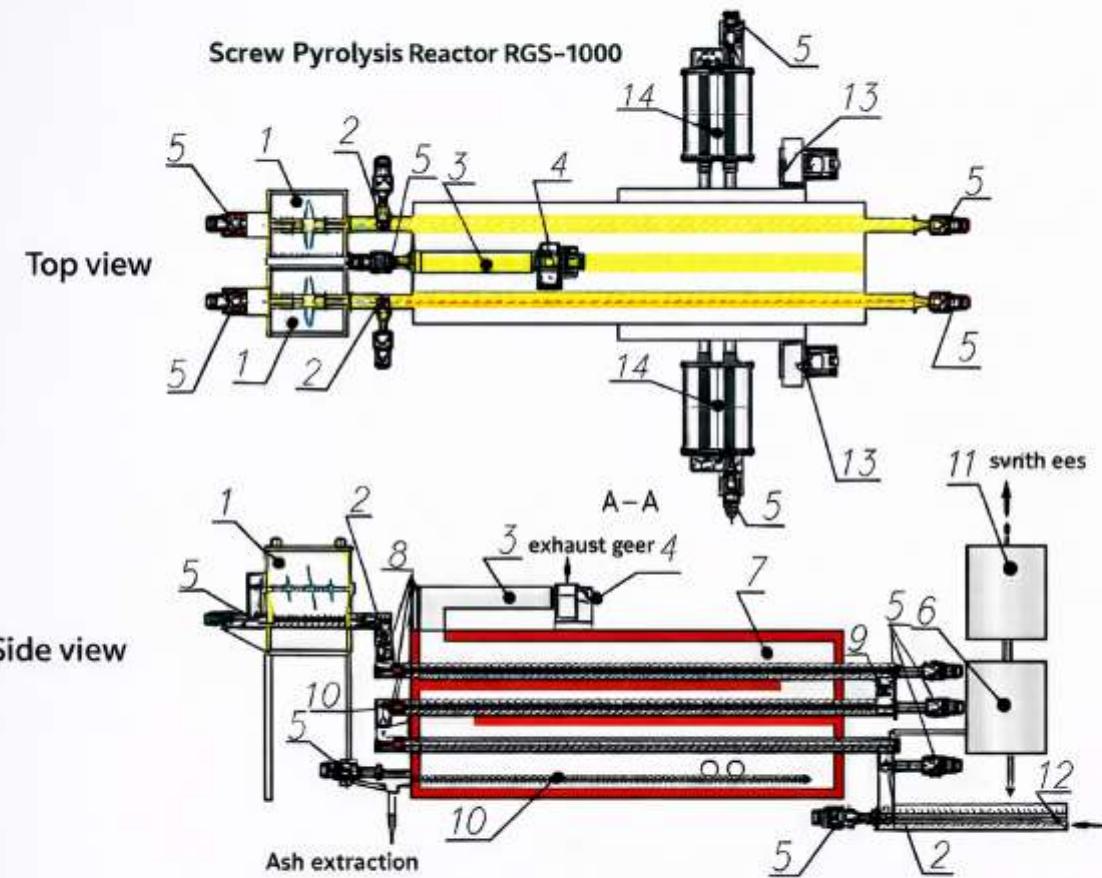
Raw materials are fed into the continuous pyrolysis line



R&D and Technological Focus



Screw Pyrolysis Reactor Model RGS-1000



Main Components

- ① Uploading bunker
- ② Screw feeder
- ③ Gas afterburner
- ④ Smoke exhauster
- ⑤ Gear motor
- ⑥ Gas separator and cooler
- ⑦ Combustion chamber
- ⑧ Screw pyrolysis reactor
- ⑨ Spillway channel
- ⑩ Ash extraction screw
- ⑪ Gas holder
- ⑫ Water cooled carbon black extraction screw
- ⑬ Combustion chamber air compressor
- ⑭ Bunker of combustion chamber

Efficiency Data of RGS-1000

- ✓ Production capacity by raw materials 0,5-1,5 t/h (24/7)
- ✓ Efficiency up to 85% (COP)
- ✓ Thermal efficiency of hybrid burner 0.5 – 4.5 MW
- ✓ Average electricity consumption – 75 kW per hour
- ✓ Working shift: 1 operator + 2 workers
- ✓ Automatic uploading and extraction
- ✓ Pyrolysis reactor and screw are made of high quality stainless steel
- ✓ Each unit is tested by pressure of 12 atm
- ✓ Warranty 3 years

Energy self efficiency

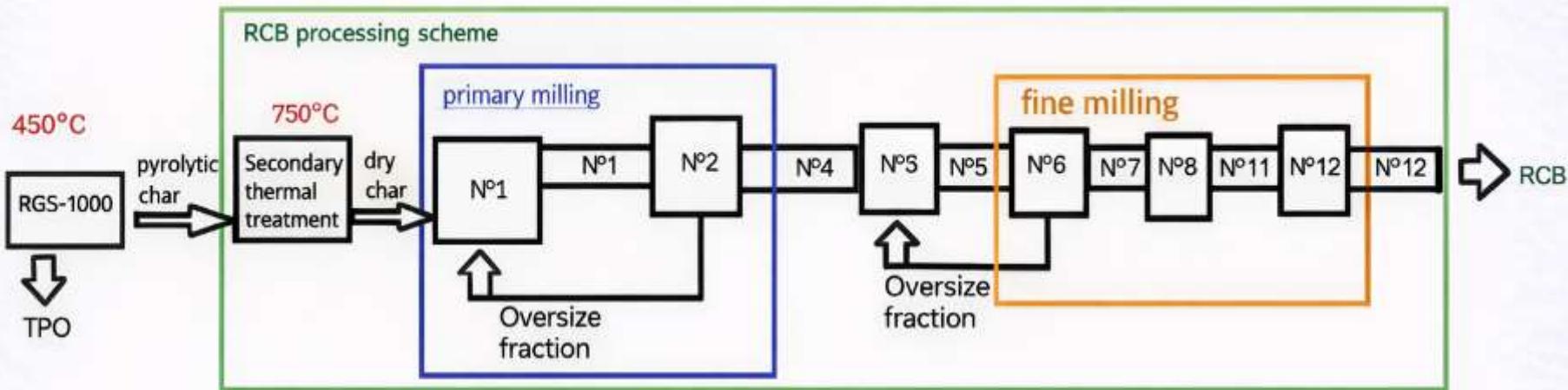
- ✓ Rapid heating within 1 hour (consuming 100L of liquid fuel),
- ✓ quickly reaches self-sufficiency mode – 3 hours with 30L of liquid fuel.
- ✓ Total consumption – 200L furnace oil for unit startup and reaching operating mode

- ✓ Average electricity consumption – 75 kW per hour



Quality Data of TPO

Quality Indicator	Light oil	Medium oil	The content of TPO:
✓ Density at 20°C, g/cm ³	0.9216	1.0399	✓ aromatic hydrocarbons – 42%
✓ Volumetric water content, %	0.4	0.2	✓ phenolic hydrocarbons – 1.2%
✓ Mass fraction of sodium ions, %	0.0007	0.0006	✓ bicyclic hydrocarbons – 12.7%
✓ Mass fraction of potassium ions, %	0.0002	0.0005	✓ biphenyl hydrocarbons – 4.8%
✓ pH value	5.2	5.7	✓ heterocyclic hydrocarbons – 20.4%
✓ Mass fraction of sulfur, %	0.68	0.88	✓ naphthalene hydrocarbons - 17.3%
✓ Mass fraction of mechanical impurities,%	0.008	0.004	✓ terpenes - 0.4%
✓ Coking tendency, %	1.1	11.6	✓ thiazoles - 0.7%
✓ Ash content, %	0.069	0.02	✓ thiophenes - 0.5%.
✓ Dynamic viscosity at 80°C, mPa·s	8.4	13.6	
✓ Dynamic viscosity at 60°C, mPa·s	10.0	16.8	
✓ Kinematic viscosity at 80°C, cSt	11.4	20.8	
✓ Kinematic viscosity at 60°C, cSt	11.1	20.8	
✓ Kinematic viscosity at 50°C, cSt	12.6	20.4	
✓ Conditional viscosity at 80°C, conditional grade	1.1	1.4	



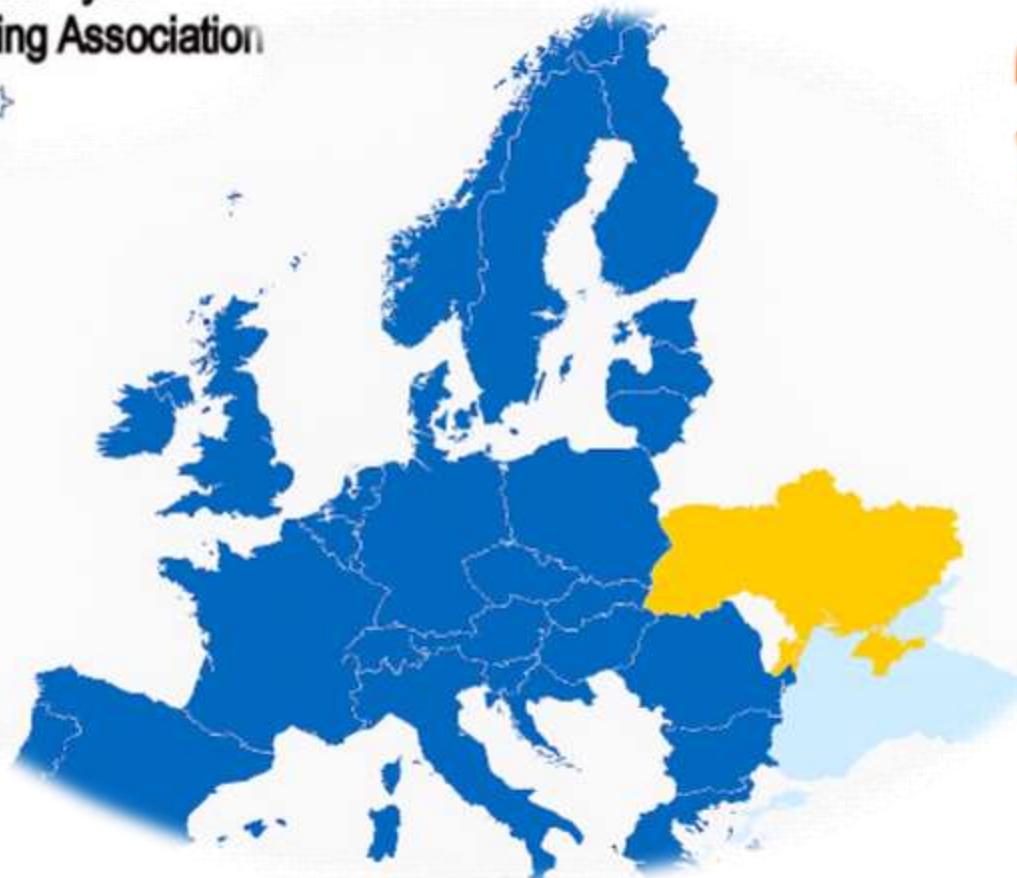
- ✓ Receiving hopper with vibrator
- ✓ Screw conveyor with VFD
- ✓ Roll crusher with aspiration system
- ✓ Conveyor with magnetic separator
- ✓ Receiving hopper
- ✓ Screw conveyor with VFD
- ✓ Fine grinding mill or jet mill
- ✓ Pre-product storage hopper
- ✓ Dosing screw
- ✓ Pin mixer (granulator) +dryer
- ✓ Packaging line
- ✓ 11. Pin mixer (granulator) +dryer
- ✓ 12. Packaging line



International Network & Partnership



European Tyre
Recycling Association





Ukrainian Network & Partnership





EU Grant Experience & FSTP



Funded by European Union



SME Innovation
Support



(Training, Networking)
Green Materials
and Technologies for Sustainability



Training on polymer recycling

SEEDS OF BRAVERY

Support of Ukrainian Deep Tech startups



Start-up Acceleration
for Ukraine

The Innovation Grants
in energy intensive industries



Strengthening cooperation among CEI
Member States.

Single Market Programme (SMP – COSME Component)

Project Duration: 1 October 2025 – 30 September 2028

(36 months)

Total Budget: €2,695,182.20

FUTURE PROOF TEXTILES



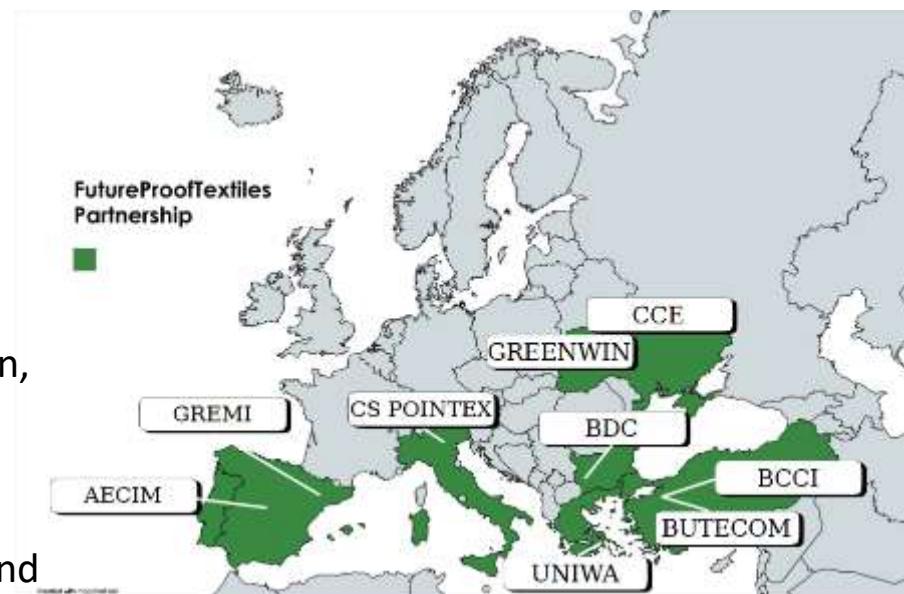
Funded by European Union

Project Objective

Support 40 industrial textile SMEs in advancing their digital and green transition, strengthening resilience and competitiveness across the sector.

Key Actions

- **Cascade funding:** €50,000 grants for 40 SMEs
 - 20 for **digital innovation** (automation, AI, data analytics)
 - 20 for **green innovation** (circularity, waste reduction, sustainable materials)
- **Capacity building:** training, mentoring, and tailored expert support
- **Innovation ecosystem:** cross-border collaboration and knowledge exchange to accelerate technology adoption



Our Team



**Maksym
Pavlovskyi**
CEO



**Andriy
Sivokon**
R&D



**Olena
Mariuk**
Project
Manager



**Andriy
Babenko**
Operation
Team
Lead



**Andriy
Paslyon**
Pyrolysis
Engineer



**Vitaliy
Kusturov**
rCB
Researcher



GREENWIN

We believe in the EU philosophy of shared progress — where nations and partners move forward together. This is what makes our work meaningful - building innovation and success across borders, hand in hand