







Sustainable construction materials

SustainableSolutionsMatch

Welcome!





Welcome & Introduction

Who's moderating?

Justus Schuenemann NRW.BANK (NRW.Europa) Funding advisor



Who's organizing?













Welcome & Introduction

Let's play by the rules: smooth sailing for our session!

- Mute Policy: Please remain muted unless speaking to avoid background noise.
- **Q&A Time:** After each pitch, there will be 1–2 minutes for questions. Please use the chat to ask questions.
- **Time management**: Pitchers, please keep track of your time. We will inform you if 5 minutes have passed.
- **Technical Issues:** If you encounter issues, use the chat to notify the host.



Session Agenda

- Welcome & Introduction
- Sustainability in the construction sector
- Pitch Presentations:
 - Pitch 1: INDRESMAT (Spain)
 - Pitch 2: MycoLutions (Germany)
 - Pitch 3: REGUPOL (Serbia/Germany)
 - Pitch 4: Orbix (Belgium)
 - Pitch 5: SAM panels (Netherlands)
 - Pitch 6: ISOHemp (Belgium)
 - Pitch 7: Green Pipe SE (Sweden)
 - Pitch 8: REBARMAT (Latvia)
- Closing Remarks









KLIMA-PUR BioPolyurethane Windows



Pablo R. Outón Founder & CEO









Up2Circ

INDRESMAT Story



INDRESMAT SL

















INDRESMAT's Unique Know How



Vegetable oilbased formulations



bioPUR foams

High density

Low density

Highly insulating foams

Structural insulating

parts



























KLIMA-PUR BioPolyurethane Windows

A novel window framing material

(60 years of unchanged market)



Adaptability to Different Contexts:

Houses, Apartmentts & Offices





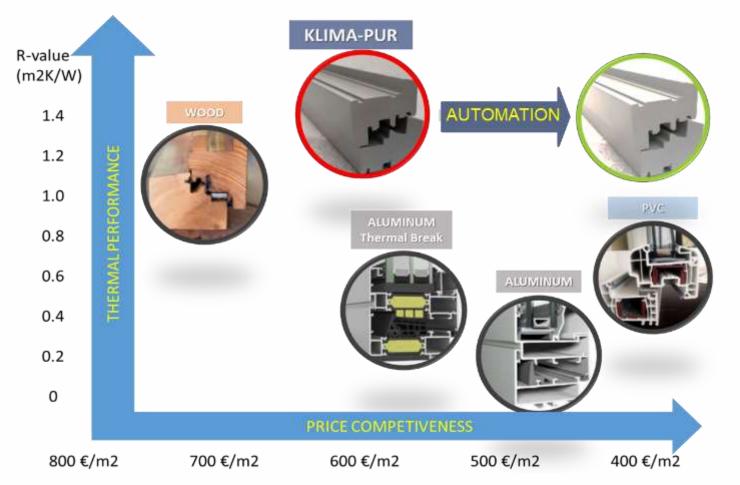








Price competitiveness



Upscalings plans in place:

- Productivity increase (30 m/day → 300 m/day)
- Price reduction
 (650 €/m2 → 350 €/m2)







Patented manufacturing technology (TO BE AUTOMATED)



ENERGY EFFICIENT

10 Times less consuming than PVC60 Times less consuming than Aluminum

EXTREMELY VERSATILE

One single manufacturing line for all possible types of window profiles

PRODUCTIVITY (to be upscaled) Up to 300 m/day





Value proposition



PERFORMANCE (ROI = xx years)

Energy Efficient (Uf = 0.8 W/m2K)

32% higher than best performing alternative (PVC)

Acoustic Damping (-10 dB)

55% better than best performing alternative (Timber)

Durable (30-40 years)

Similar or even longer lifespan than competitors

Lightweight (400 kg/m3)

35% lighter than lighter material (Aluminium)

SUSTAINABILITY

Low C-Footprint (180 kgCO2/kg)

- 66% lower than Aluminum
- 32% lower PVC

Circular by design (up to 100% recyclable)

Single material & easy-to-repair/reuse/recycle







Targeted customers



WINDOWS as a product





PROFILES as a product





TECHNOLOGY as a product









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BUSINESS OPPORTUNITIES

Construction & Real Estate Developers – Companies focused on sustainable and energy-efficient building projects

Industry Partnerships – Companies in window systems, insulation, or prefabricated building elements

Manufacturing & Processing Partners – Industrial collaborators who can help scale up production

Sustainable Material Suppliers – Partners providing biobased feedstocks, green chemistry alternatives

Energy Efficiency & Green Building Consultants – Experts in Passive House, LEED, or BREEAM certifications

FUNDING OPPORTUNITIES

Strategic Investors & Funds – Impact-driven VCs, looking for sustainable construction materials.

Insurance & Financial Institutions – Financial actors supporting green bonds, ESG funds, or decarbonization incentives



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Book a meeting with: INDRESMAT



Founder & CEO
INDRESMAT
+34 647 821 645 / info@indresmat.com

















Circular and healthy materials using mycelium

grown@mycolutions.de



The materials used are non-circular

90% of thermal and acoustic insulation is polystyrene, mineral wool, PET and synthetic foams



Mycelium material

in comparison to polystyrene



-140 L/m³

Water consumption



-20 %

CO2-emissions



100%

Circular



No Toxins



Price
Competitive at scale

Mycelium innovation



Mycelium as a natural binding agent



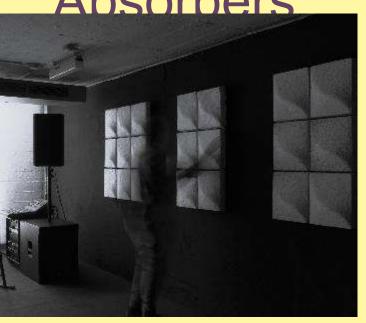
Agricultural residues such as straw are grown through by the mycelium



The result is a stable composite material

MycoLutions Sound

Absorbers











Enhanced Acoustic Comfort



Healthy Indoor Air



Natural Aesthetics

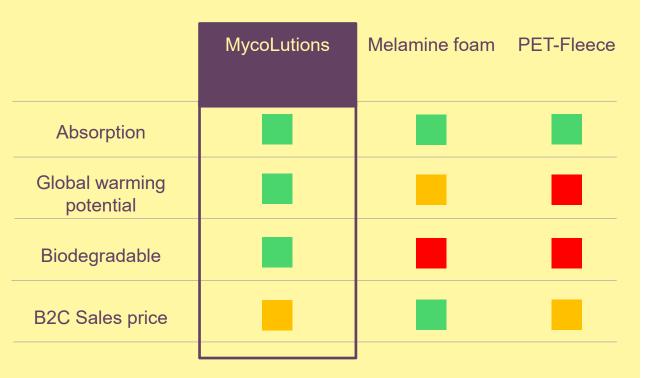


Low Carbon Footprint

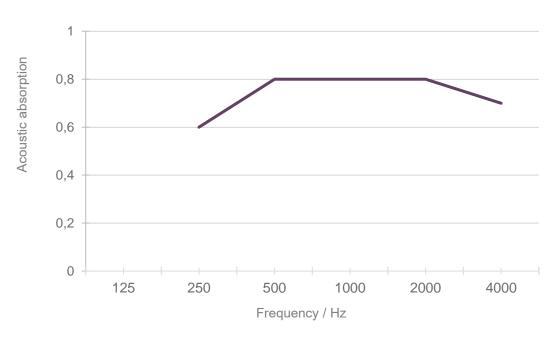


Grown in Germany

Product properties



CLASSIFICATION OF ABSORBERS ACCORDING TO EN ISO 11654



Absorption class B

Products and channels

Customized or standardized design



Sales partner and product realization

Germany

Netherlands

Poland

Italy





grown@mycolutions.de









40% reduction of concrete and reinforcement amounts - application of innovative rubber system wall connection INODIS

SDA-engineering RS

Marko Marinković, **PhD**Director

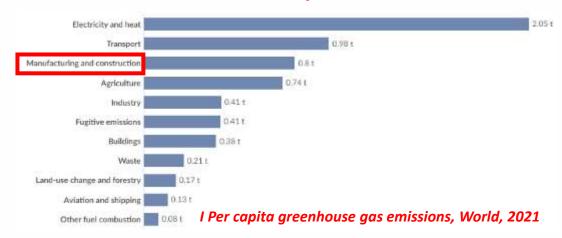






PROBLEM

I Construction is the 3rd CO2 producer



SUSTAINABLE SOLUTION INODIS for construction

EN 1998: 2004

40% less concrete and steel amounts

30-40kg/m² reduction of CO2 30kg reduction of CO2 per capita (4%)

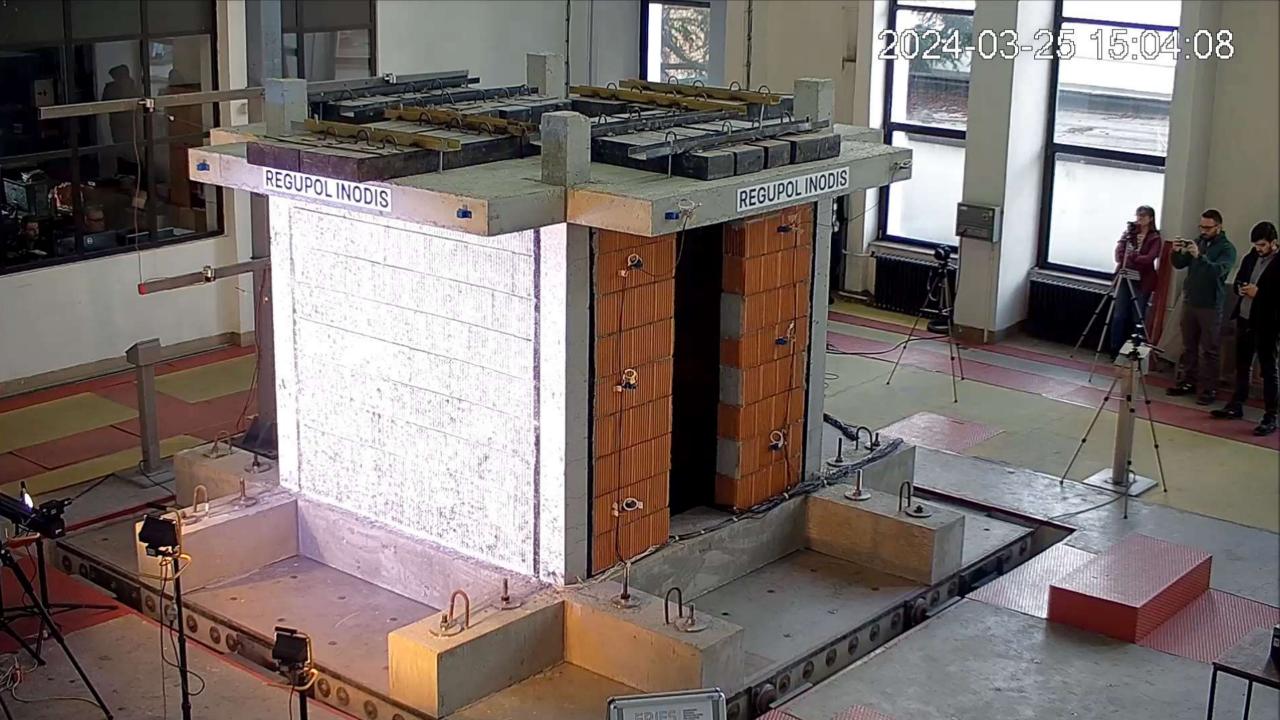
II Bricks/masonry during earthquake represents 1/10 of the total demolition waste

2023 Türkiye–Syria earthquake Bricks/masonry: 10.6% of the total demolition waste estimated 13 to 20 million tons.

Almost 0

6 billion m2 newly built per year

Video





INODIS (INnOvative Decoupled Infill System)



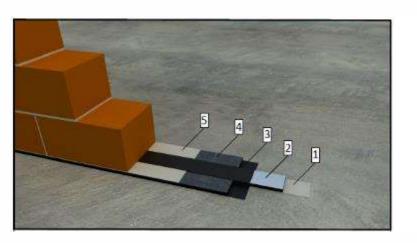


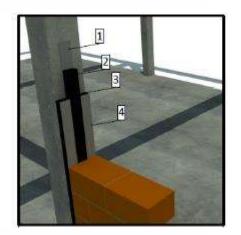


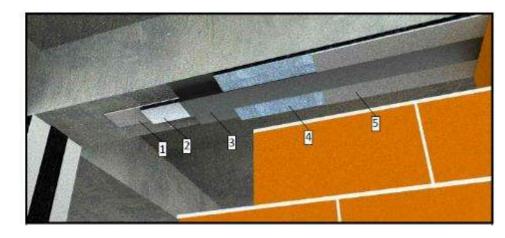












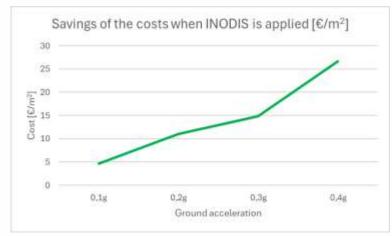




INODIS value proposition

✓ Reduces costs by 15-40 thousand euros taking into account concrete and reinforcement savings





INODIS sustainable impact

- ✓ 40% reduction of concrete and reinforcement amounts used in construction of a building e.g. lowering CO2 emission by 40-80 thousand kg
- ✓ Reduction of waste, since no damage occurs in masonry infill walls during earthquakes





SDA == REGUPOL

Market potential

EN 1998: 2004

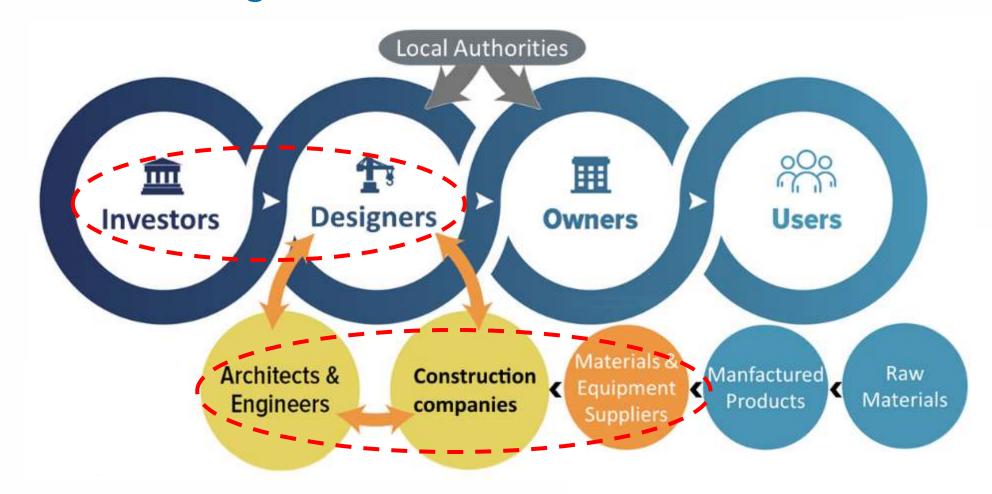
Target audience

Investors → *cost reduction* <u>Designers</u> → time reduction and simple design *Construction companies* → *faster execution*





Networks along the whole value chain



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Book a meeting with: SDA-engineering RS



Director SDA-engineering RS marinkovic@sda-engineering-rs.com

















Remove this message:

Please ensure your presentation highlights the core aspects of your solution. You can remove the headlines. You will have 5 minutes for

your pitch, make sure to stay within the timeframe



CARBSTONE, making building materials without cement but with CO2 as binder making it CO2 negative

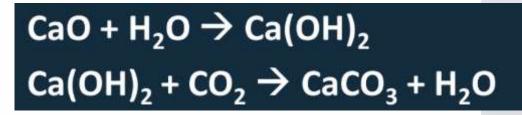


ORBIX BV

ANDY VANCAUWENBERGHE SALES MANAGER











We have the technology and already 3 existing plants who are making building blocs, paving and façade bricks by replacing cement bij slags (or other materials) and adding CO2 from industrial or waste origine.

Doing the inverse way of producing cement in a kiln

At atmospheric pressure capturing 300 kg CO2 by m³

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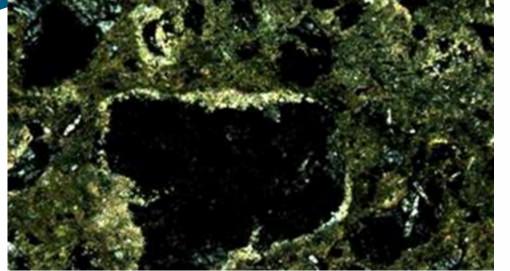




- 1) Mixing granulates and sand with a carbonable materials (slags/bottom ash)
- 2) Shaping in a press
- 3) Treatment in CO2 (20-80%) environment in climate room at atmospheric pressure
- 4) Taking out after 24h at end strength









Same production plant as concrete blocs except close climate rooms Same other raw materials as sand and granulates Same strength as concrete blocs or paving Same installing methods and materials as cement blocs

Ready to install at 1 day and not 28 days with cement CO2 negative building materials materials Slightly better thermal and acoustic isolation



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From 2014 on, testing in pilot plant in Belgium 2023 first plants running in Belgium

2025 plant in Belgium to produce façade brics

2026 plant foreseen to startup next year in Belgium using emission gasses 2028 plant foreseen in Saoudi Arabia to build blocs for the football stadia

•••

Ongoing discussions to produce flooring, bathtubs, roofing tiles, ... at this

moment

Looking for:

- Building material producers
- under licences producing
- Testing & starting up provider
- Collaboration on production









Sustainable and circular innovation needs good networks along the whole value chain. What kind of cooperation partners would you like to connect to beyond finding new customers?



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Book a meeting with: ORBIX

Andy Vancauwenberghe
Sales manager
Orbix
Andy.vancauwenberghe@orbix.be +32 473 93 79 90

















Why Sam?

GREEN

100% Biobased, Circular, buy-back guarantee

PARIS PROOF

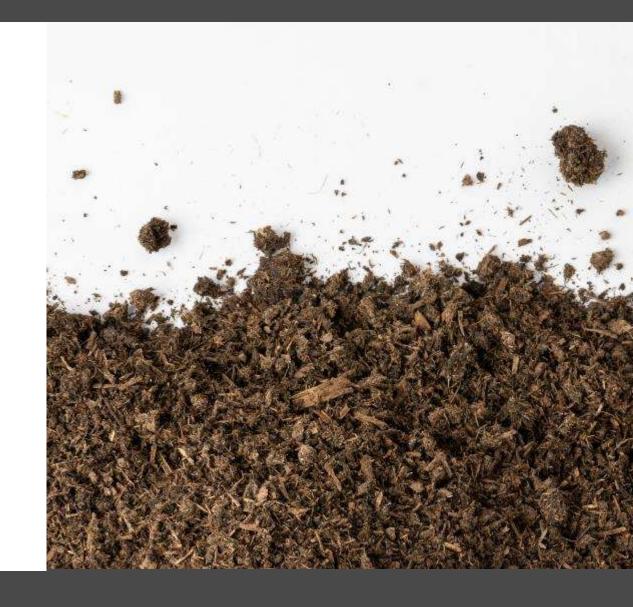
CO2-negative, no use of primary abiotic fibers

SAFE

VOC-free, no binders and glues, no formaldehyde

LOCAL

Dutch made from Dutch residual streams





Our unique process

WATER

Pulp a blend of waste cellulosic fibers in recycled water

PRESSURE

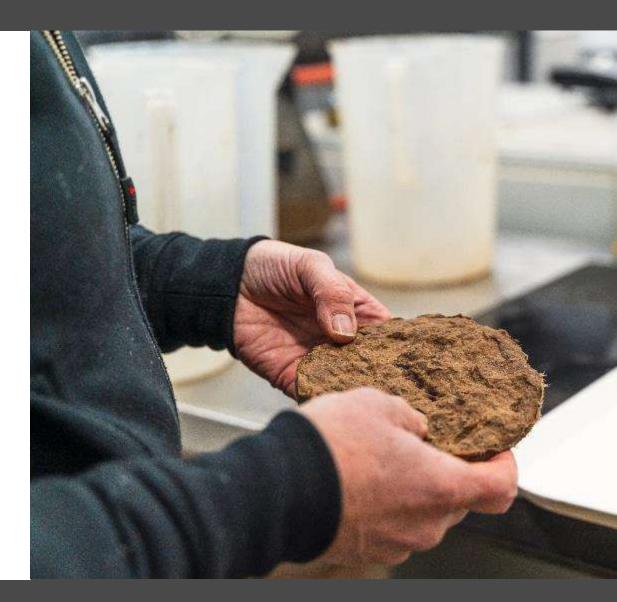
Place formed fiber panels in a hot press to remove the H2O and 'reconnect' the cellulosic fibers

HEAT

Use waste thermal heat from the hot press to pulp the waste fiber

FIBER

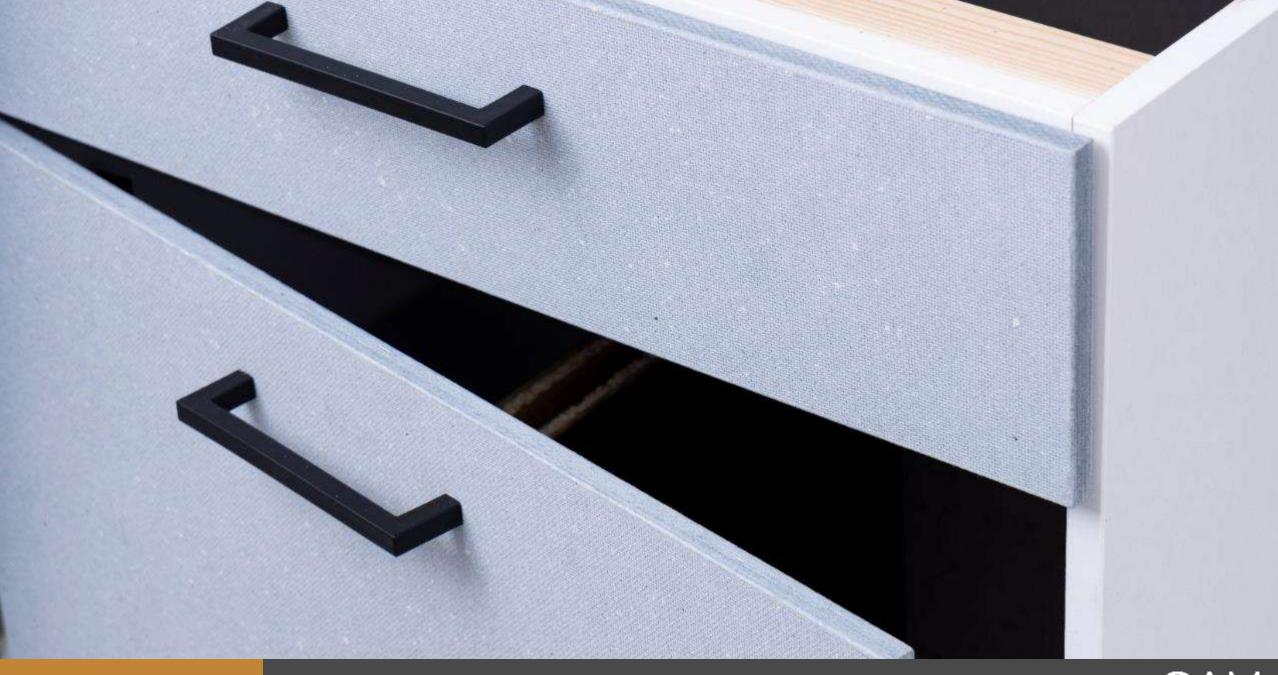
Use only 100% recycled post-manufacturing, post-consumer waste fiber from Farm, Forest, Urban & Manufacturing





Product features

Properties	Testing method	Unit	SAM-Pure	SAM-Solid	SAM-Light	SAM- Watershield	SAM-Fireshield	SAM-Paint
					PRESSURE	₩A C		FIBER C
Thickness	EN 325	mm	2,5	5	12	2,5	2,5	2,5
Thickness Tolerance	EN 324-1	mm	± 0,2	± 0,5	± 0,2	± 0,2	± 0,2	± 0,2
Average density	DIN 52350	kg/m³	950 ± 50	950 ± 50	500	950 ± 50	950 ± 50	950 ± 50
Moisture Content	EN 322	%	2 tot 8	2 tot 8	2 tot 8	2 tot 8	2 tot 8	2 tot 8
Breukmodulus/Buigsterkte	EN 310	N/mm ²	35 ± 2	35 ± 2	15 ± 2	35 ± 2	35 ± 2	35 ± 2
Bending Elasticiteitsmodulus	EN 310	N/mm ²	3000 ± 200	4000 ± 500	2500 ± 500	3000 ± 200	3000 ± 200	3300 ± 200
Treksterkte	EN 310	N/mm ²	20 ± 2	23 ± 2	-	20 ± 2	20 ± 2	20 ± 2
Internal Bond	EN 319	N/mm ²	0,8	0,8	0,8	0,8	0,8	0,8
Thickness Swelling 24h	EN 317	%	60	60	50	20	60	22
Brandbestendigheid	EN 13501-1		D s1 d0	D s1d0	D s1d0	D s1d0	B S1 d0	D s1d0





















Sustainable cable protection pipes & foundations

Greenpipe Group AB

Eric GröönExport Manager









Foundations

Cable protection pipes



Made in Sweden, 100% recycled PP







Sustainability in our DNA since 2001



Savings in oil 12 833 339 liter



Savings in Co2-eq 18 748 465 kg



60-80% lower environmental impact*

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^{*}According to a study performed by Swerea IVF (Swedish industrial research institute) 2015.







Divisible cable protection pipes



100% recycled plastic & reusable Electrical distribution – Railway – Communication – Wind

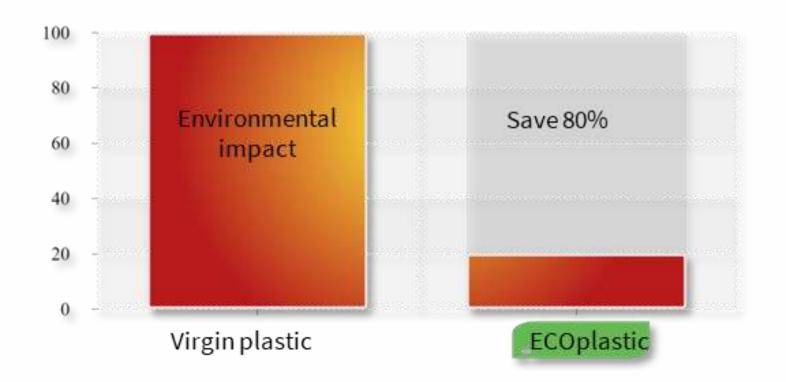


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Virgin plastic vs ECOplastic from Greenpipe









Foundations



Recycled plastic, ergonomical (15 kg instead of 150 kg) & future proof EV-charging – Street lighting – Signs – Park furniture

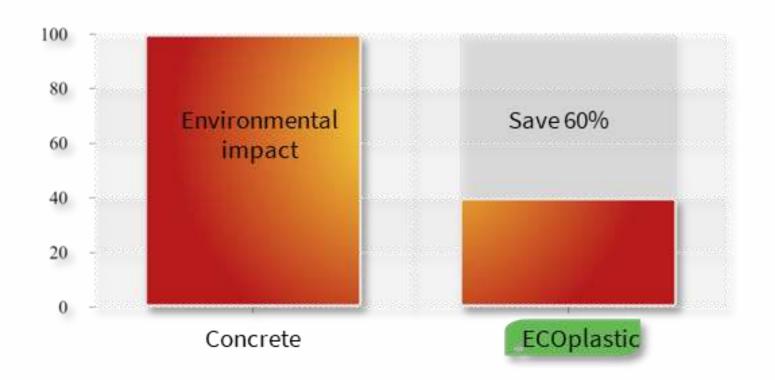


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Concrete vs ECOplastic from Greenpipe









Thank you city planners, consultants, entrepreneurs and distributors around Europe looking to improve our mutual sustainability!



#EENCanHelp

Book a meeting with Greenpipe



Export Manager Greenpipe Group AB Eric.groon@greenpipe.se















REBARMAT: Building Europe's Resilient Future

REBARMAT's GFRP concrete reinforcement delivers longer-lasting, sustainable infrastructure at lower cost.

We're revolutionizing how Europe builds for generations to come.

REBARMAT composite rebar

Alise Novikova

Co-owner

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"Vecozoli K-4", Zaķumuiža, Ropažu novads, LV-2133 Latvia



The Problem: Corrosion's Global Impact

€1T+



Global Cost

EU Repairs

Corrosion costs the world trillions of euros annually.

The EU spends billions yearly on concrete structure repairs.

The Solution: **REBARMAT** GFRP Reinforcement

- 1st in Europe with EAD high standard certification.

1

2

Corrosion Resistant

Immune to rust and chemicals, guaranteeing 100+ year lifespan.

Superior Strength

4x stronger than steel, maximizing structural integrity.

3

4

Cost Effective

Eliminates maintenance cycles for longterm savings.

Lightweight Design

75% lighter than steel, reducing transport and installation costs.





REBARMAT GFRP vs Steel Rebar





Non-Corrosive

Resists rust and degradation in harsh environments, chemicals included.



Production process:

GFRP rebar: 0.18 vs Steel rebar: 1.8 (tons CO_2 per ton)



Quick to Install

Lightweight design allows for faster construction times.



Properties

GFRP's light weight enables easier, safer, and cheaper shipping and handling.



CO2 Neutral

Produced with renewable energy for sustainable construction.



Advantage

GFRP is non-conductive and non-magnetic, ideal for specific demands.

European Market Opportunity

EU Green Deal

1 Aims for climate-neutrality by 2050.

NextGenerationEU

2 €723.8 billion allocated for infrastructure renewal.

Low-Carbon Materials

REBARMAT aligns with CO₂-neutral production goals.

European Lightweight Cluster Alliance

(ELCA)

Accelerates lightweight use in transport industries.

Fit for 55

Aims for 55% emission cut by 2030.



Market Demand for Durable Infrastructure

Europe's aging infrastructure and ambitious sustainability goals are driving unprecedented demand for innovative construction materials. With planned infrastructure investments through 2030, the market for durable, sustainable solutions is expanding rapidly.



Growing Sectors

Transportation, coastal defense, and water management projects are accelerating across Europe:

- High-speed rail networks requiring 100+ year durability
- · Coastal infrastructure defending against rising sea levels
- Municipal water treatment facilities modernization
- Bridge rehabilitation programs in multiple countries

Underserved Markets

Several sectors present significant growth opportunities:

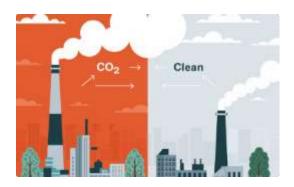
- Agricultural: Irrigation systems and storage facilities
- Marine: Ports, piers, and offshore structures
- Precast: Modular buildings and infrastructure components
- Industrial: Chemical plants and manufacturing facilities

Key Markets

Leading European nations are driving adoption:

- Germany: €86B railway infrastructure program
- France: Major coastal protection initiatives
- Nordic states: Sustainable infrastructure mandates
- BeNeLux: Marine infrastructure renovation

Environmental & Performance Benefits of GFRP



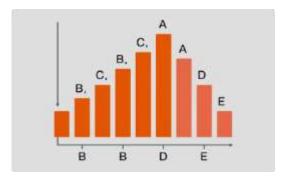


GFRP production emits only 0.18 tons of CO₂ per ton produced, compared to steel's 1.8 tons, due to the absence of energy-intensive melting processes.



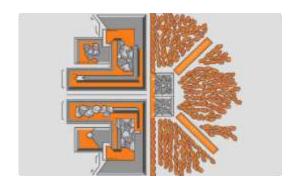
Superior Service Life

While steel elements require replacement every 20 years due to corrosion, GFRP maintains structural integrity for over 100 years without deterioration.



83% Less Energy Consumption

GFRP production requires only 3.1 MJ per kilogram compared to steel's 18 MJ, resulting in significantly lower energy consumption and environmental impact.



Simplified Recycling Process

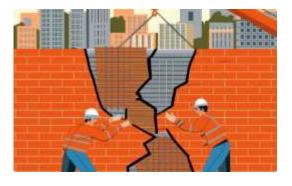
GFRP rebars can be ground with concrete waste to create fiber-reinforced recycled concrete, supporting circular economy and easy recyclability.

Versatile Applications









Roads

Superior reinforcement for highways and bridges, delivering exceptional durability in high-traffic zones while resisting freezethaw damage.

Water Structures

Ideal for wastewater treatment plants, seawalls, and marine infrastructure where chemical resistance and longevity are critical.

Agricultural Structures

Robust solutions for silos, irrigation channels, and storage facilities that withstand harsh agricultural chemicals and environmental exposure.

Reconstruction of Buildings

Reinforcement solutions
designed to restore and
strengthen structures,
reducing degradation while
enhancing durability and
resistance to corrosion and
environmental stress.

Strategic Pricing and Market Segmentation

Our pricing strategies are tailored to reflect the unique needs of different market segments, ensuring competitiveness and long-term value for all stakeholders.



End Clients

Competitive pricing focused on long-term cost savings, durability, and sustainability.
Our corrosion-free GFRP solutions eliminate costly maintenance cycles while delivering superior lifecycle value.



Distributors as Solution Partners

Tiered pricing based on volume, exclusivity, and market penetration. Benefits include co-marketing support, supply chain optimization, and flexible credit terms.



Builders and Contractors

Scale-based pricing with multisegment incentives. Quick installation advantage contributes to operational efficiency and cost reduction across infrastructure projects.



State and Institutional Programmes

Customized pricing for government and EU-supported initiatives, with full documentation and compliance for Green Deal and NextGenerationEU infrastructure investments.

Comprehensive Client Support

We believe that long-term partnerships require ongoing support that empowers clients to succeed. Our integrated support journey includes:

Foundation: Training Programs

Structured guidance and hands-on sessions with engineers for distributors, builders and sales professionals.

Implementation: On-Site Visits

Personalized consultations and training at distributor locations and key sales centres, optimizing implementation.

Continuous Learning: Professional Knowledge Sharing

Regular trade show participation, keeping clients informed of the latest innovations in sustainable construction materials.

Growth Support: Sales Enablement Tools

Comprehensive guidance including technical documentation, benefit analysis and co-branded promotional campaigns.

Stronger. Safer. Built to Last.

Invisible beneath it all, REBARMAT GFRP rebars quietly protect what matters most.

REBARMAT is setting new standards in building driveways, patios, sidewalks, curbs, industrial floors, parking lots, and many other concrete structures that surround us.

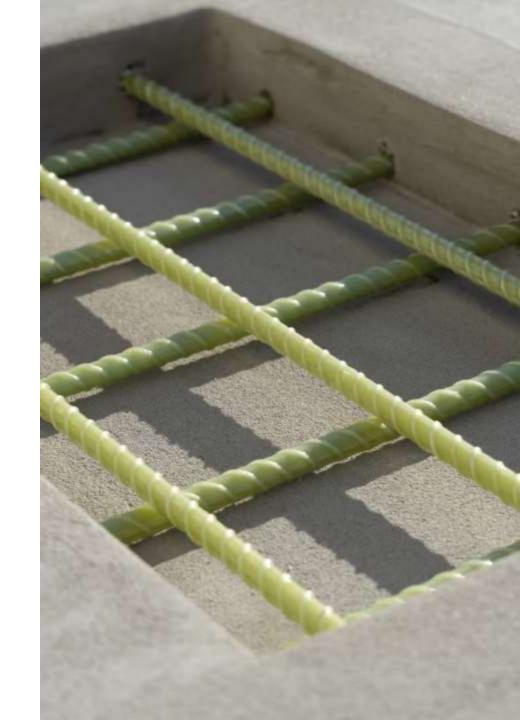
We come at the right time!

Alise Novikova

Co-owner

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"Vecozoli K-4", Zaķumuiža, Ropažu novads, LV-2133 Latvia





Closing Remarks

A big thank you to all pitchers and attendees! We appreciate your participation today.

If you'd like to connect with any of the pitching companies, please use the matchmaking tool to **book a meeting!**



Need support? Enterprise Europe Network is here to help!

Reach out to your local Network partner:

https://een.ec.europa.eu/local-contact-points

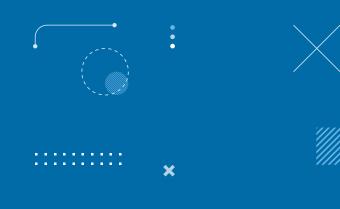


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Thank you!

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