

A photograph of an industrial facility, likely a water treatment plant, featuring a long, elevated conveyor belt system supported by a complex metal framework. The structure extends into the distance under a clear sky. The right side of the image is partially covered by a green overlay containing text.

Investor presentation Pyrum Innovations AG

26 September 2025



Management

Pyrum Innovations AG



Pascal Klein
CEO / Founder
Since 2008



Kai Winkelmann
CFO
Since 2021



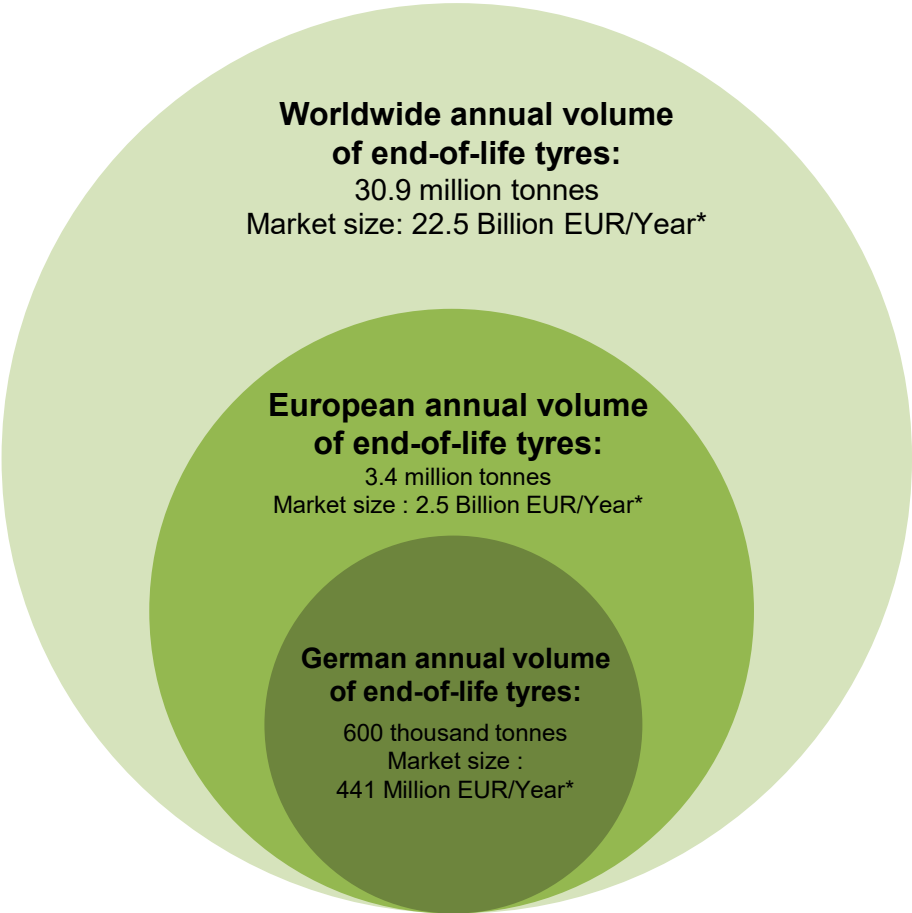
A

Company +
Market

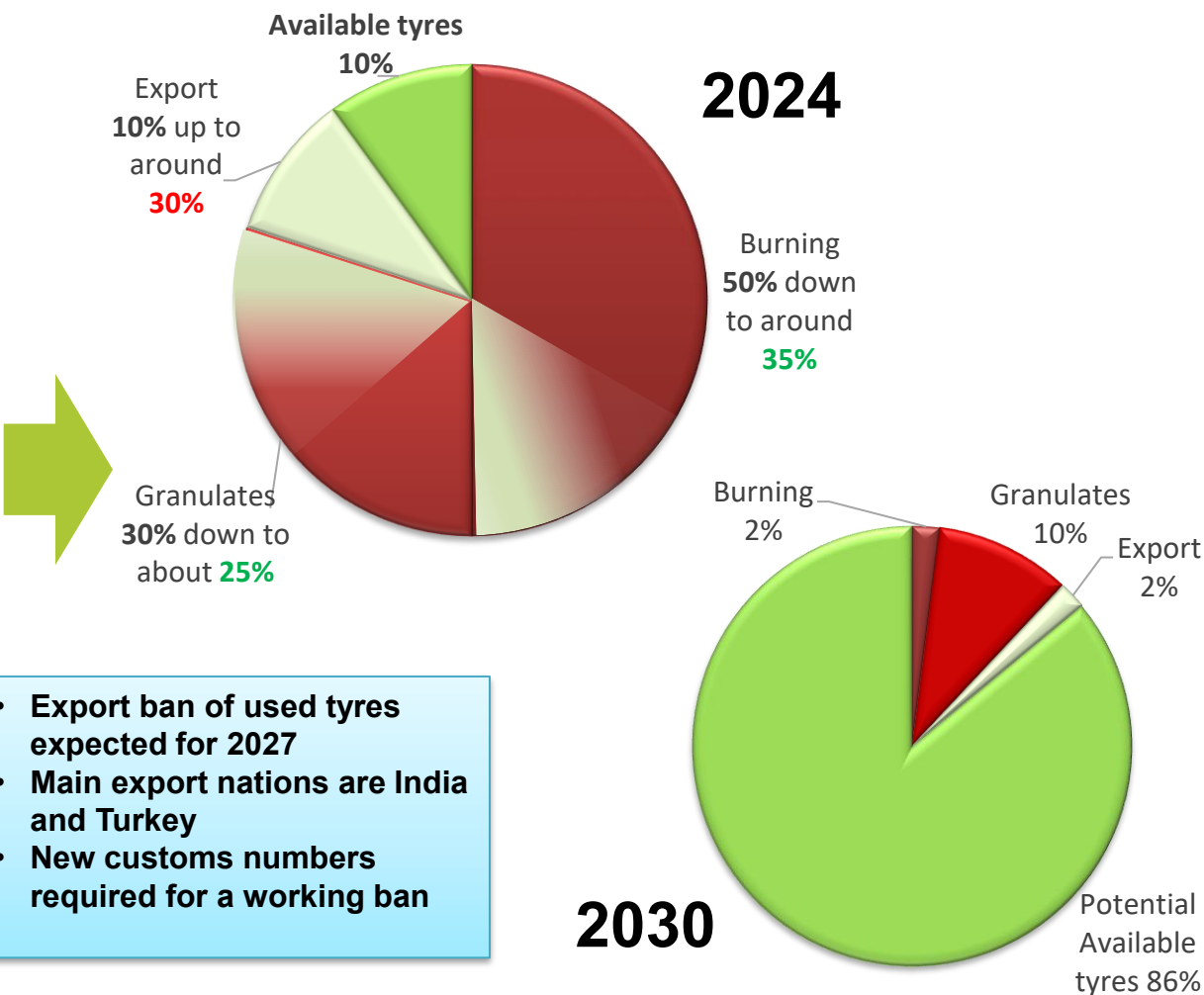
Global End-of-Life-Tyre (ELT) market accounts for approx. 30.9 mt p.a.

... as tightening regulatory environment forces countries and corporates to take action

Market size of end-of-life tyres



Global ELTs Market comparison 2024 to 2030 (estimations Pyrum)



* Based on 100 EUR/ton Gatefee, 250 EUR/ton Steel, 550 EUR/ton Pyrum Oil and 1.200 EUR/ton rCB



Tightening regulatory environment

... favours Pyrum's growth



ELVR (End-of-life-vehicle regulation to come)

Obligation to have recycling ratios in new products



Increased Tire Export in 2024 => Export ban is discussed at EU Level

Burning of tires starts to **slow down in 2024**, the new alternative is export to Turkey and India => illegal!



OEM Audits are requiring circularity grades

The market is pushing for new raw materials, **Official Continental goal 100% Circular until 2050**



Landfill Ban

The landfill of End-of-Life-Tires and shredded tires is prohibited



Ban on incineration

Prohibition of burning rubber products
Prohibited the use of shredded tire granulate outdoors



Ban of Rubber granulates

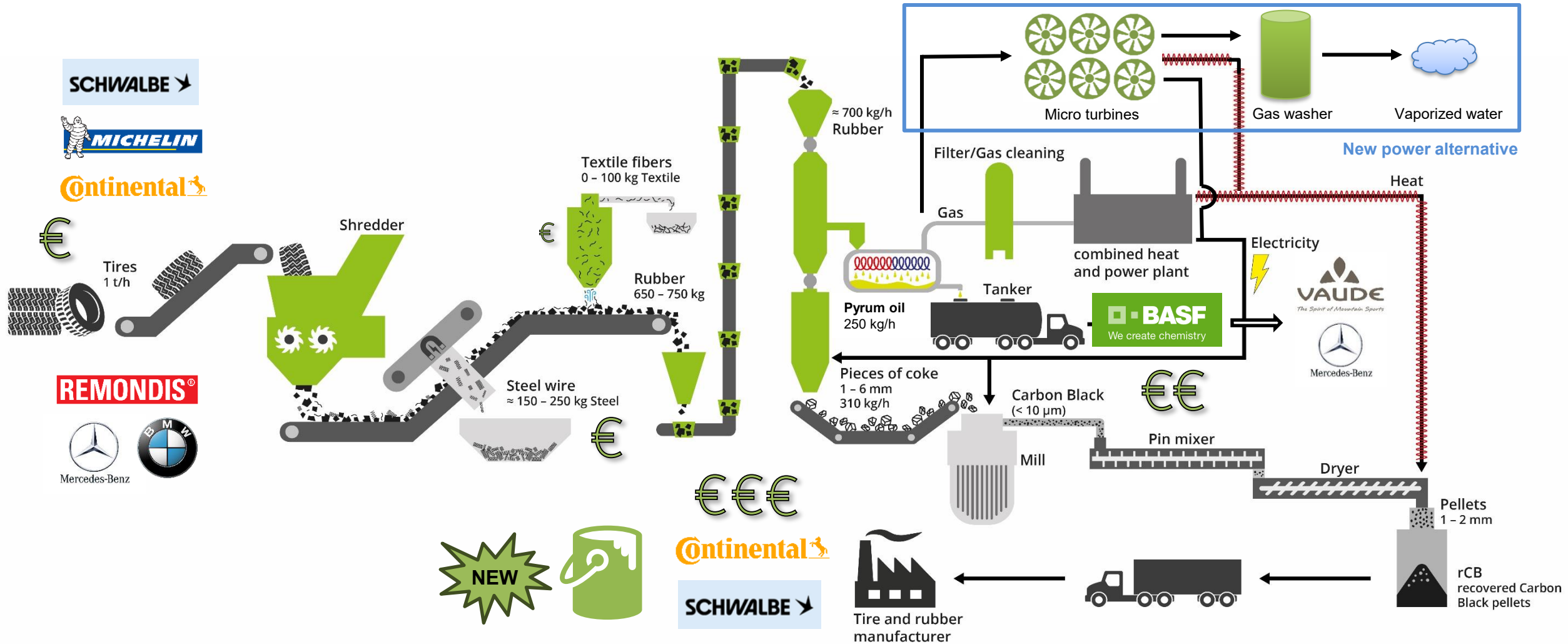
Summer 2023: EU has decided to forbid the use of rubber granulates for certain uses (microplastics) => 30 % of used tires are used for this purpose



Pyrum offers patented technology with strong value proposition...

... converting rubber into several high value chemical products – thermolysis oil, carbon and gas

How Pyrum creates value



Pyrum History Highlights



Life Cycle Assessment (LCA)

Results better than expected

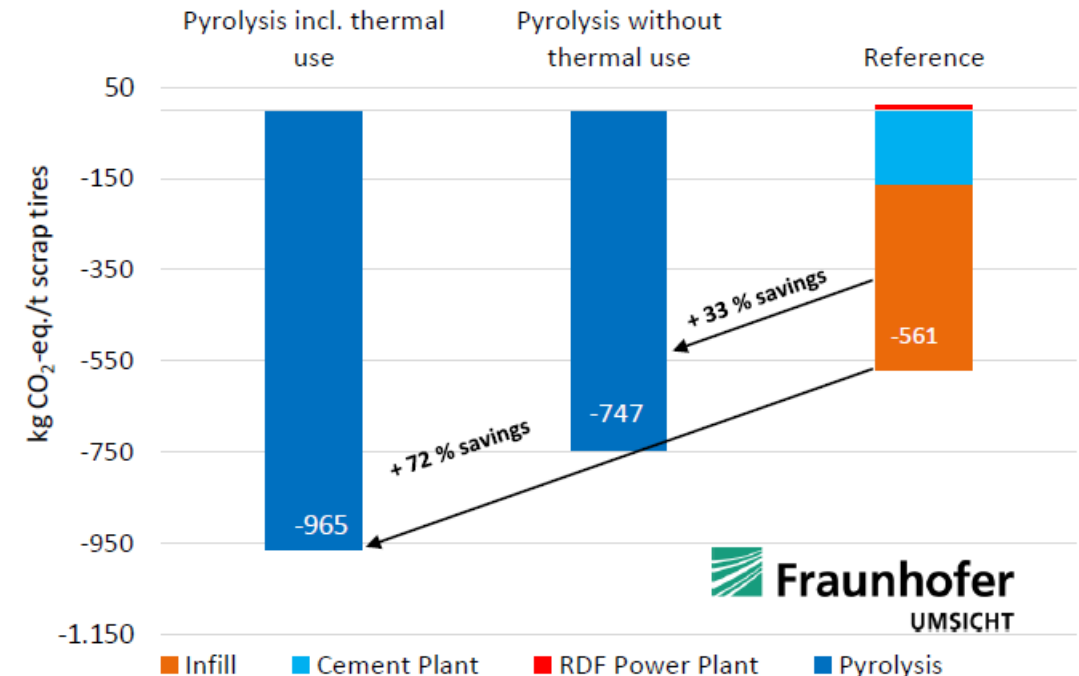
Explanations

- The LCA was conducted indepently by **Fraunhofer Umsicht** in the Year 2022 and 2023
- Exclusively** sourced from the **Pyrum Thermolysis** technologie
→ can **not be compared** to **other** Pyrolysis technologies
- Comparison of CO² savings between different recycling methodes used today:
 - **Plant:** + 164 kg / per ton of used tyres
 - **Cement Plant:** - 395 kg / per ton
 - **Material recovery:** - 778 kg / per ton
 - **Pyrum:** - 965 kg / per ton

244% CO₂ Savings

→ Only **material recovery** is approaching the savings of the Pyrum technology and represents a **good combination** for some waste streams.

LCA-Graph Fraunhofer



Source: Maga, D.; Aryan, V.; Blömer, J. (2022): Comparative Life Cycle Assessment of End-of-Life Options for Used Tires; Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT

Pyrum patents

Overview over the patents of Pyrum

Pyrum patents

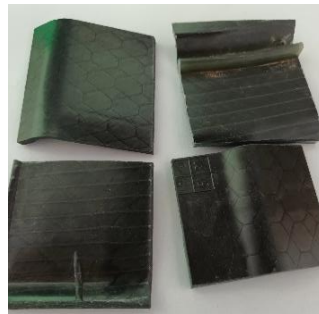


- **Global patent** for Pyrum reactor technology, adaptable for multiple applications (not limited to tyres)
- **European patent** for pyrolysis process specifically designed for tyres

For over
10 years

NEW

- **European patent** declaration for pyrolysis process designed for CFK in 2024



CFRP from car



Pyrolysis



recycled carbon fiber (rCF)

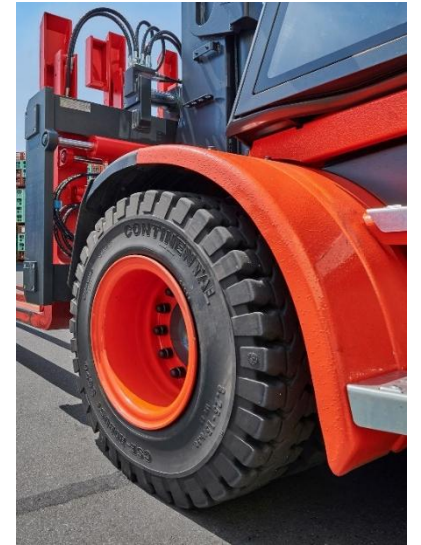
Joint patent declaration

- **JDA with Continental** for “Golden rCB”
- Over 100 test runs concluded since 2022
- **Objective:** Increase the rCB content in tyres for enhanced performance and sustainability
- **Two new rCB grades** have already been developed



NEW

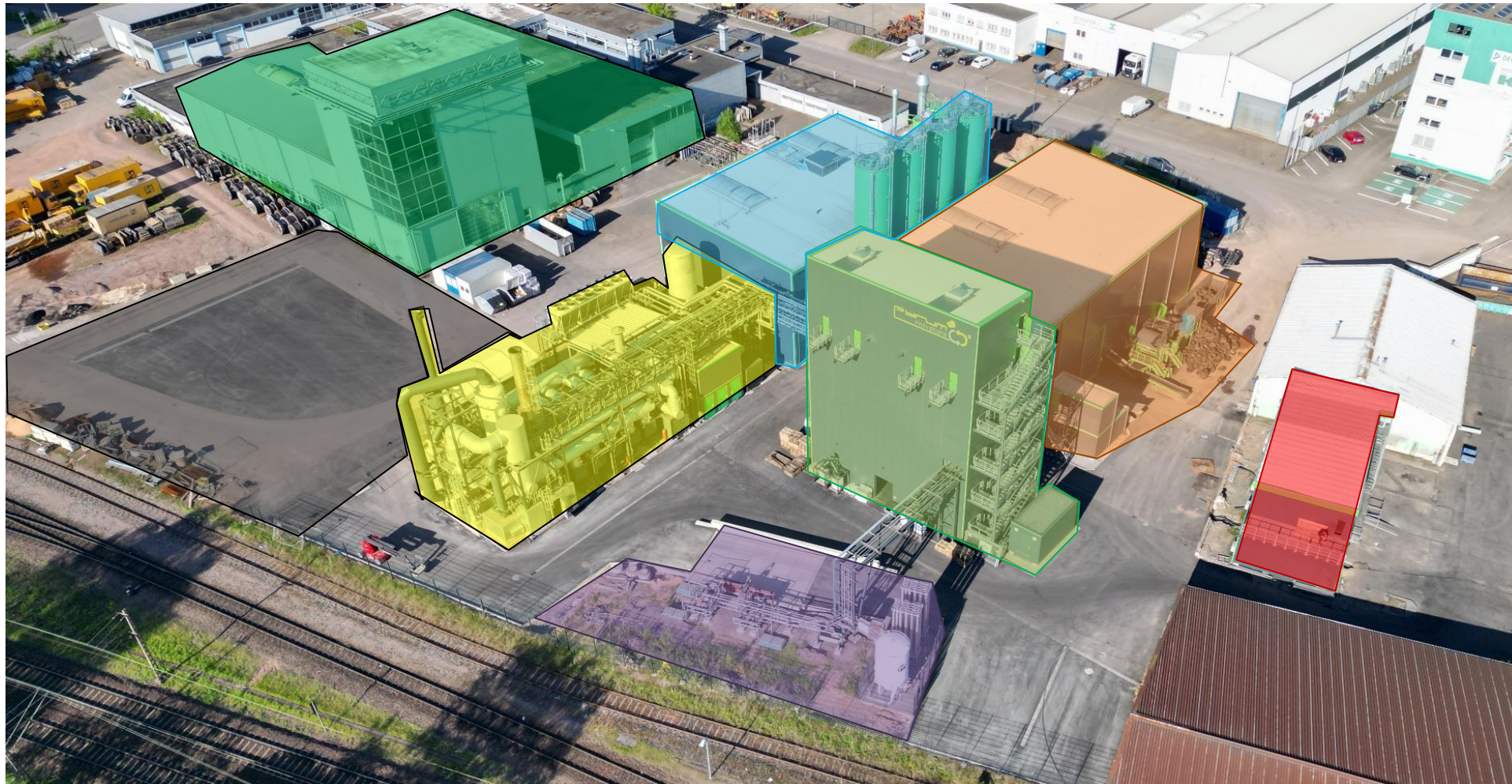
European patent declaration for “Golden rCB” in 2024



News and Facts on Dillingen Plant

Sky view April 2025

Status quo TAD 2 & 3



Eldan Shredder:
6 to/h tyre input =
600 car tyres/h



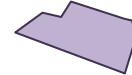
Pyrum Reactors 2&3
5,000 to/y per reactor



**Gas Turbines +
Exhaust gas
cleaning:**
5 turbines with 150
kW/e each



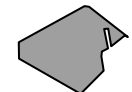
**NEW: Mill and
Pelletizer** with 1,650
kg/h input capacity



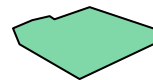
Oil Storage:
2 x 60,000 litres
underground



**Pyrum Control
Room:** for 3 parallel
operators



**NEW: Tyre Storage
Area**



**NEW: Maintenance
and Spare Parts
Workshop**



News and Facts on Dillingen plant

Status quo of the new Pyrum Plant in Dillingen

TAD 2 and 3, Shredding unit

TAD 2 +3 :

- **TAD 2 + 3 run stable at up to 600 kg/h serial production on daily basis**
- **TAD 2 + 3** have both longer maintenance intervals, meaning the time between two cleaning stops → **~8 weeks**
- Annual maintenance was successfully accomplished in August
- Emergency stops of TAD 2 in which the plant shuts down automatically through the safety system
 - **Firmware error**
 - The problem **has been fixed**.



Shredding unit :

- Additional nightshift to reduce downtime on production shift (**knives change, reduce lack of rubber granules**)
 - Newly weekly average about **300 tons** (since August 2025)
- **600kg/h production 24/7** on the Pyrum units require a minimum of **350 to/tires per week**
- ⇒ **70 tons/day** (5 days)
 - Plan to add additional saturday shifts => 35 – 70 tons more per week => 100% capacity secured



News and Facts on Dillingen plant

Status quo of the new Pyrum Plant in Dillingen

Power plant, MAD 2

Power plant

- Last software issues **have been solved** as well as overheating of the burning chamber
- Power plant runs **stable 24/7**

WAS NOW



MAD 2 – Mill- and Pelletizer 2 = The world's largest fully automated unit of its kind :

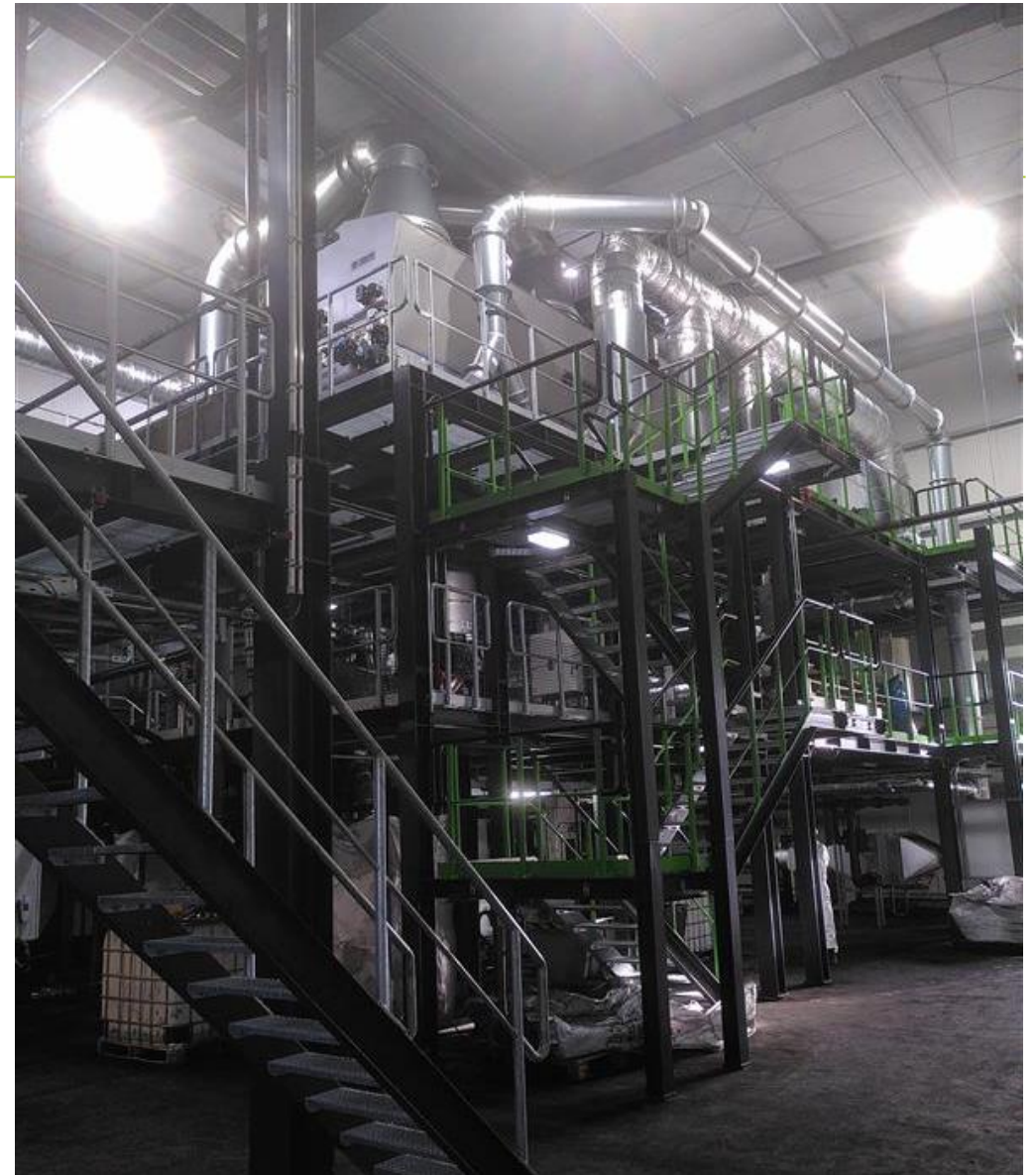
- Construction fully accomplished
- Mill and pelletizer produced, each for itself, „in spec“ rCB at high throughputs
- Remaining bottleneck is the transport between the mill and the pelletizer
- **Our initial ramp up plan was:**
 - September to December 2025: slowly from 0% to 80%
 - Full Year 2026 : 80% capacity
 - From 2027 : 100% capacity
- **New plan due to newest results:**
 - September to December 2025: around 50% capacity
 - First half of 2026 : 80% capacity
 - **Second half 2026: 100% capacity**
- **Solution for existing bottleneck (transport between Mill and Pelletizer) is known and needs just to be realized**



News and Facts on Dillingen plant

Status quo of the new Pyrum Plant in Dillingen

MAD 2 – Mill- and Pelletizer 2 = largest fully automated unit of its kind :



NEWS:

- Site preparation accomplished => Site clearing
- Zoning Plan (Bebauungsplan) adapted exclusively to the building project of Pyrum
- Building permit according to §8a received. Building works can start
- Land Servicing (Geländeerschliessung) solved with notarial act on the 11th of September 2025 several participants like the catholic church and the municipality of Perl. This procedure took almost 1 year and was strongly supported by SHS and Perl
- With the land servicing solved we could start the first ground drilling works for ground analysis
- Architectural detail planning of roads, foundations and building has been started

- **Size of building site:** 25,000 m²
- **Max. building height:** 25 meter
- **Annual capacity:** 20,000 tons

- **Plant components:**
 - Tyre shredder
 - Pyrum reactors (3 units)
 - Gas power plant
 - Mill and pelletizer

Including:

- 12.5% contingency
- Financing costs during building
- Opex costs for ramp up and start up

- **Investment volume:** **62 Mio. EUR**
- **New jobs:** 45 employees
- **Annual turnover:** 16.5 – 17.5 Mio. EUR
- **Worktime:**

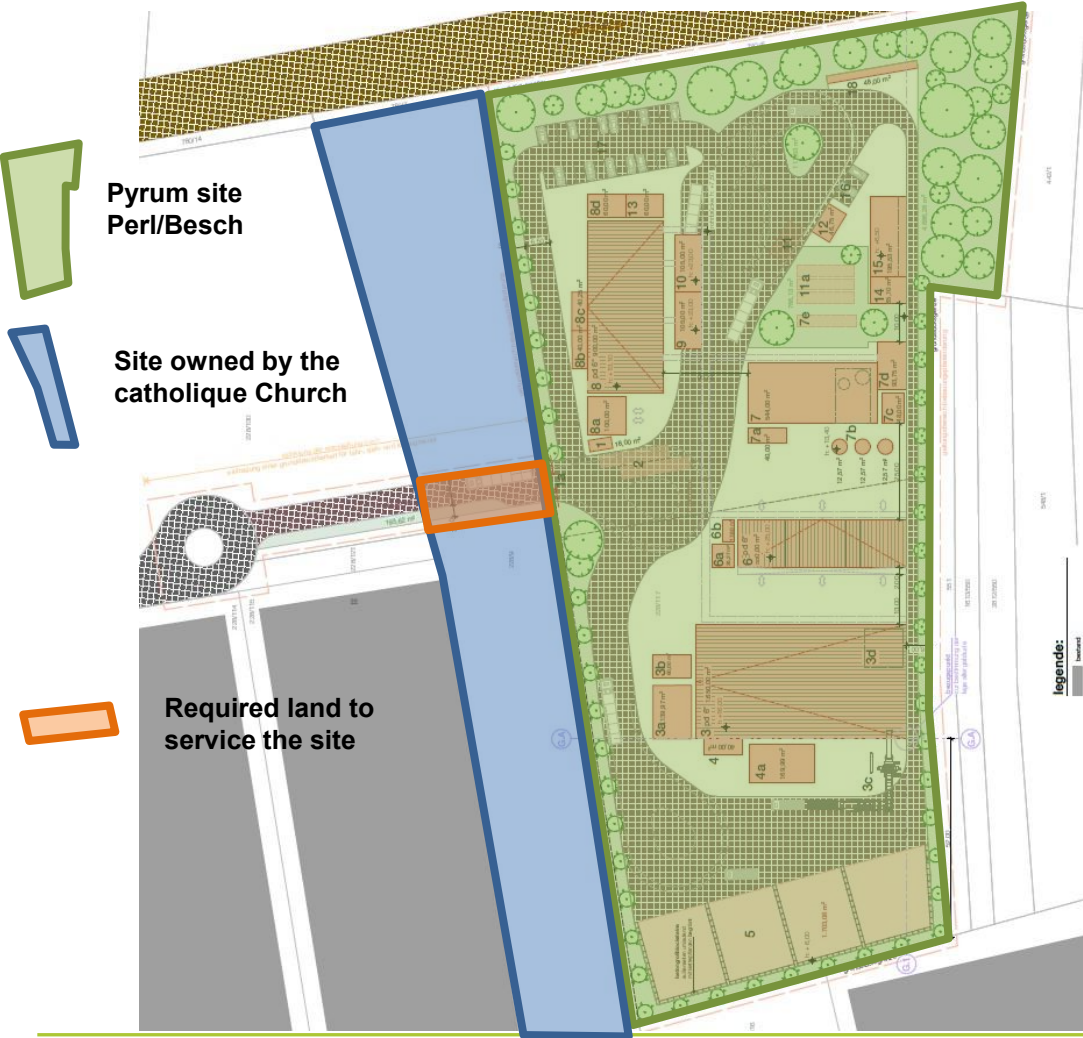
- Pyrum reactors: 24/7 operation
- Shredder: 24/7 operation
- Mill and pelletizer: 24/7 operation

- **Owner:** Pyrum GreenFactory II (100% daughter of Pyrum AG)

Pyrum GreenFactory II



Site Plan



Pictures





B

Partners and
Customers

Important Milestones in the Rollout Plan

New plants all around Europe!

Map of running projects



Key Facts

PROJECTS

In Pipeline	Started projects	New projects in 2024
> 20	10	5
Number of countries	Permitting in progress	Permits granted
6	4	3

Business numbers of started projects

Recycling volume:	220,000 tons/y
% of EU ELT market:	6.4
Investment volume:	> EUR 600 million
Oil volume:	45,000 tons/y (100% sold)
rCB volume:	55,000 tons/y (25% sold)



Extensive project pipeline due to attractive framework conditions

Demand is higher than capacity; projects are partly far advanced or have been started procedurally

Project status

	Project Nr.	Country	Partner	Pre-contract	Pre-engineering contract signed	Building site secured	Capital partly secured	Permit procedure started	Permit granted	FID (Final investment discission)	
100 %	1	Germany	Pyrum	✓	✓	✓	✓	✓	✓	✓	
SPV	2	Greece	Thermo Lysi SA	✓	✓	✓	✓	✓	✓		
SPV	3	Cech Republic	SUAS	✓	✓	✓	✓	✓	✓	✓	
SPV	4	Germany	Remondis	✓	✓	✓	✓	✓			
EXT	5	UK	SUEZ UK	✓	✓	✓	✓	✓			
SPV	6	Germany	Unitank	✓	✓	✓	✓				
100 %	7	Germany	Pyrum	✓							
EXT	8	Belgium	vtti	✓	✓	✓	✓	✓			
SPV	9	GER & Europe	Unitank 2-10	✓							
SPV	10	Sweden	GreenTech	✓	✓	✓		✓			



New, in the last 12 months



Older than 12 months



In progress



New important milestones with partners

Cooperation, partners and customers

Financial year 2024 and first half of 2025



Engineering contract with VTTI

VTTI (largest LNG terminal operator in the world) signs **engineering contract** for the planning of a **45,000 tonnes** plant in Antwerp



New milestones in the Czech Republic

FID completed

Building permit submitted

Investment agreement and **financing** expected to be finalised shortly



New milestones in Greece

Planning permission was granted in January 2025

Engineering contract worth around **EUR 2,15 million** signed



SIEMENS PCS NEO

The new **SIEMENS PCS NEO** operating system was installed for the first time in TAD 2&3 in Dillingen

VAUDE Outdoor Equipment and Clothing



New important milestones with partners

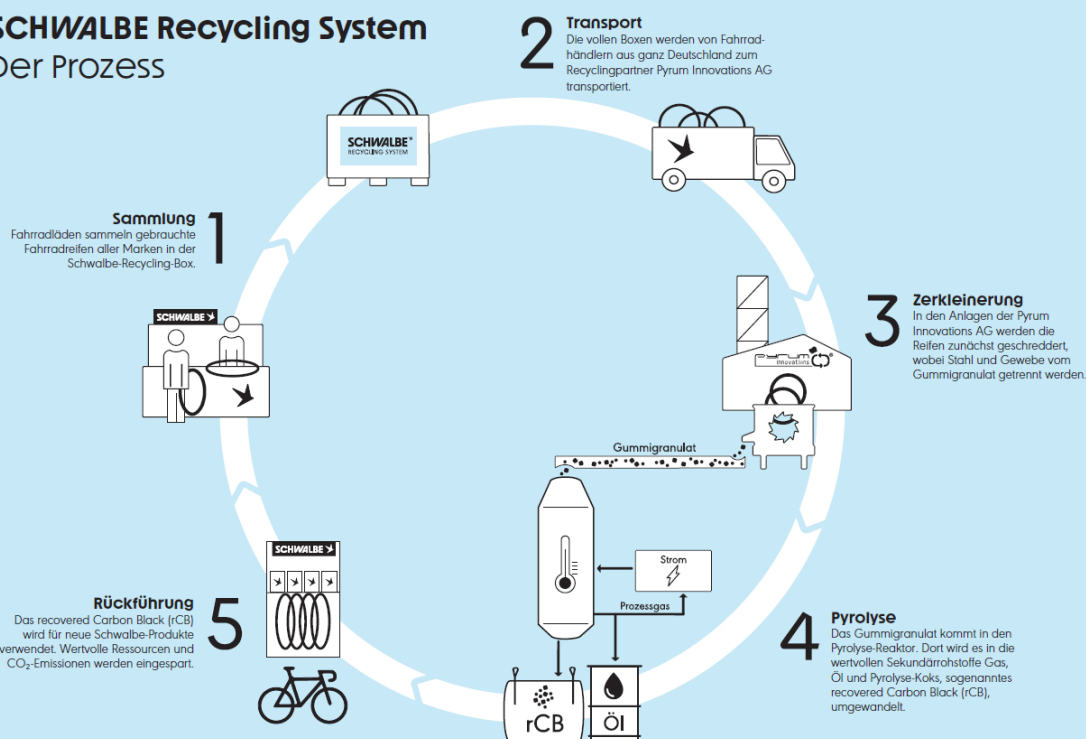
- ❖ Solid tyres from Continental's tyre plant in Korbach now contain recovered carbon black from end-of-life-tyres
- ❖ Solid tyres produced since calendar week 23 2023 contain Pyrum rCB
- ❖ By 2050 at the latest, Continental aims to use **100 percent sustainable materials** in its tyre products
- ❖ Existing **research cooperation** with Continental - Pyrum filed a **patent for the production of the Pyrum rCB** in 2024
- ❖ In November 2024, Pyrum **received delivery approval** for its rCB to Continental from the two new thermolysis reactors TAD2 and TAD3
- ❖ **New offtake agreement** for rCB signed in July 2024
- ❖ **Guaranteed off-take of rCB for ten years with a base price for more than double the price at Pyrum IPO**



New important milestones with partners

- ❖ **2,000 bicycle retailers in Germany** are already taking part = almost 1/3 of the German market
- ❖ More than **1,600,000 bicycle tyres** recycled
- ❖ In 2024, Schwalbe announces that they have converted **70% of the entire Schwalbe product range** to Pyrum rCB
- ❖ Schwalbe becomes a **shareholder** in Pyrum in **October 2024** and increases its stake again in July 2025
- ❖ **New framework agreement for the purchase of Pyrum rCB** signed in April 2025 → Guaranteed purchase for ten years
- ❖ Planned **expansion of the recycling system** by **building the largest bicycle tyre shredder in Europe** at the Dillingen site (planning completed and ordered)

SCHWALBE Recycling System Der Prozess





C

Finance

Consolidated income statement for the first half of 2025

Results overview

KPIs in kEUR	1 Jan. - 30 Jun. 2025	1 Jan. - 30 Jun. 2024	Δ kEUR PL	Δ % PL
Revenues	1,267	708	559	78.95%
Increase of finished and unfinished goods	232	215	17	
Operating output	1,499	923	576	62.41%
Other own work capitalised	5,214	3,614	1,600	
Total output	6,713	4,537	2,176	47.96%
Other operating income	2,303	800	1,503	
Expenses for materials	5,625	3,728	1,897	50.89%
Personnel expenses	3,558	3,176	382	12.03%
Other operating expenses	2,176	1,600	576	36.00%
Other taxes	14	15	-1	-6.67%
EBITDA	-2,357	-3,182	825	-25.93%
Depreciation and amortization	1,584	1,106	478	43.22%
EBIT	-3,941	-4,288	347	-8.09%
Other interest and similar income	20	12	8	
Interest and similar expenses	660	510	150	29.41%
Net loss for the year	-4,581	-4,786	205	-4.28%
Other taxes	14	15	-1	
Result after taxes	-4,567	-4,771	204	-4.28%

Forecast 2025

Revenues: EUR 4.5 – 6.0 million

NEW: Total output: EUR 10 - 15 million
(was EUR 20 – 25 million)

EBIT: EUR -8.5 to -10.5 million



Successful capital increase

Two capital increases in the past 12 months

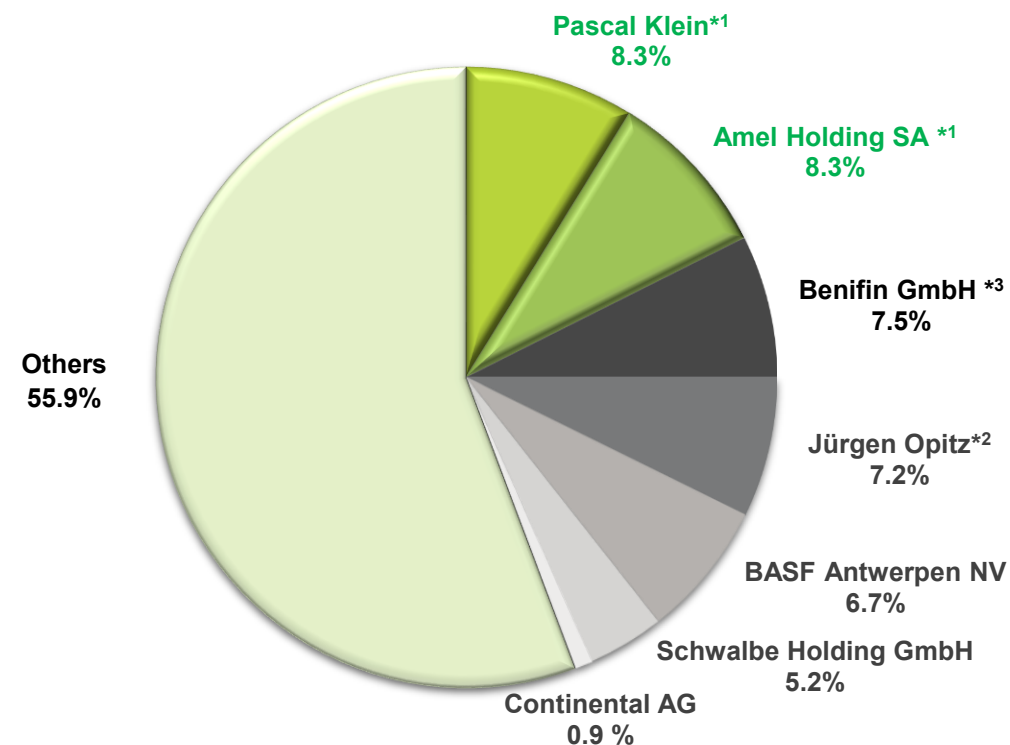
Capital increase 22 October 2024

- Capital increase by **363,637** new shares to 3,617,372 shares
- Gross issue proceeds: **EUR 10 million**
- Issue price: **EUR 27.50**

Capital increase 10 July 2025

- Capital increase by **201,446** new shares to 3,818,818 shares
- Gross issue proceeds: **EUR 5.6 million**
- Issue price: **EUR 28.00**

Current shareholder structure after capital increase



* 1 significant founding shareholders

* 2 including attributable shares

* 3 including indirectly attributable shares



D

Highlights and Outlook

What are the next steps and priorities?



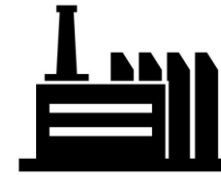
Get access to funds to **finance the second half of the roll out plan** and Pyrum

- Completion of Bank **Due Diligence**
- Infrastructure fund DD
- Strategic investor negotiations



Increase rCB production volumes to increase revenues as quick as possible

- Ongoing modification in **line 1 = +/- 10%**
- **Line 2** to start in august 25 = **8 times todays capacity**



Install as soon as possible **Pyrum Plant 2** in Perl-Besch

- **Ground preparation** done
- **Long lead items** ordered
- **Construction** starting soon



- ❖ **Introduction of ELVR** (End-of-life Vehicle Regulation) before the end of 2025
- ❖ **ECO Design** Guideline
- ❖ Increase **political awareness** of Pyrum
→ **Felix Magath**

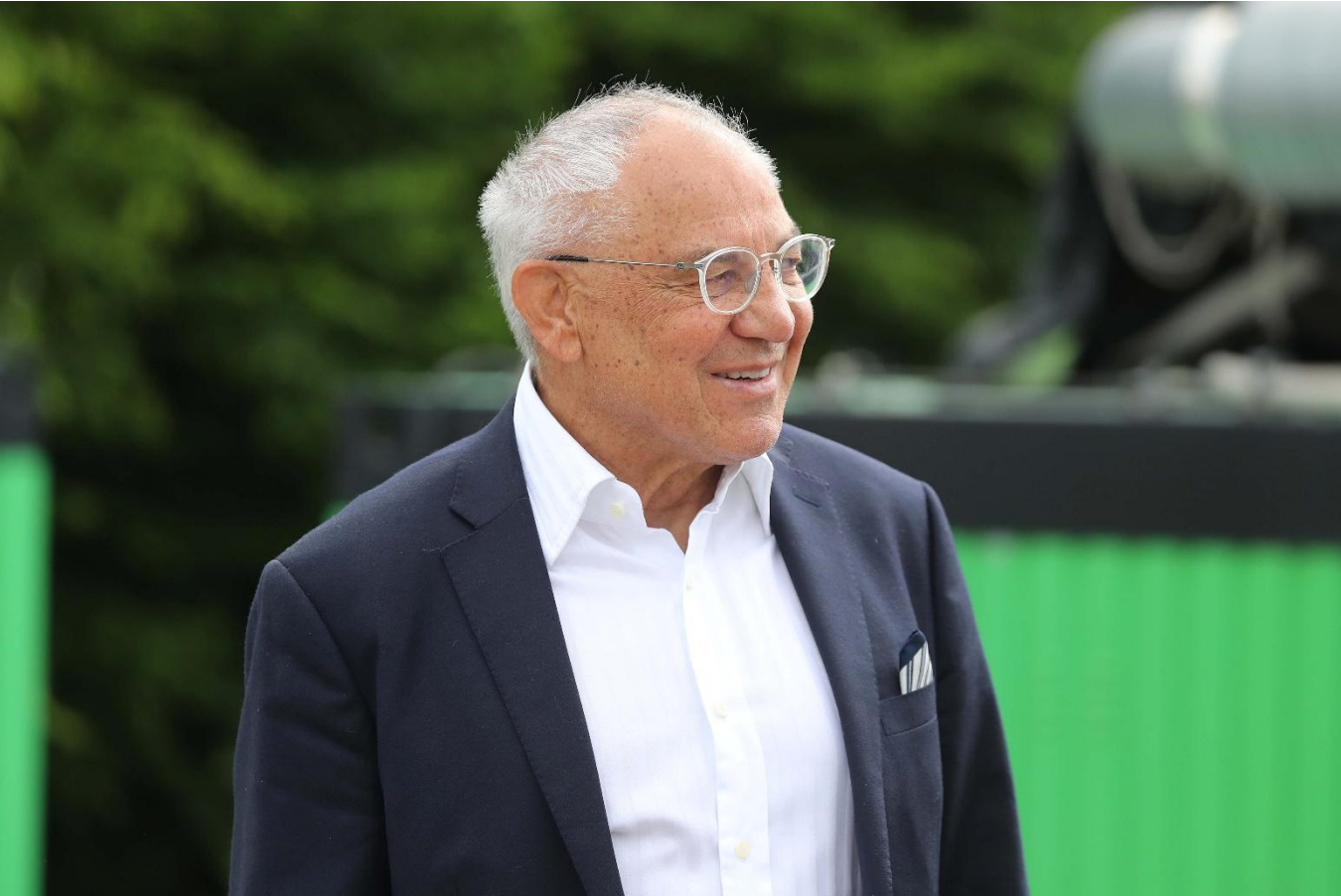
Highlights of the last twelve months

The most important milestones for Pyrum at a glance



Felix Magath

Brand ambassador and investor of Pyrum



"I am convinced by the combination of technological pioneering spirit, entrepreneurial consistency and social relevance. We need companies like this to get back to the top of the world."



Thank you for your
attention!