

PYRUM
RETHINK RESOURCES

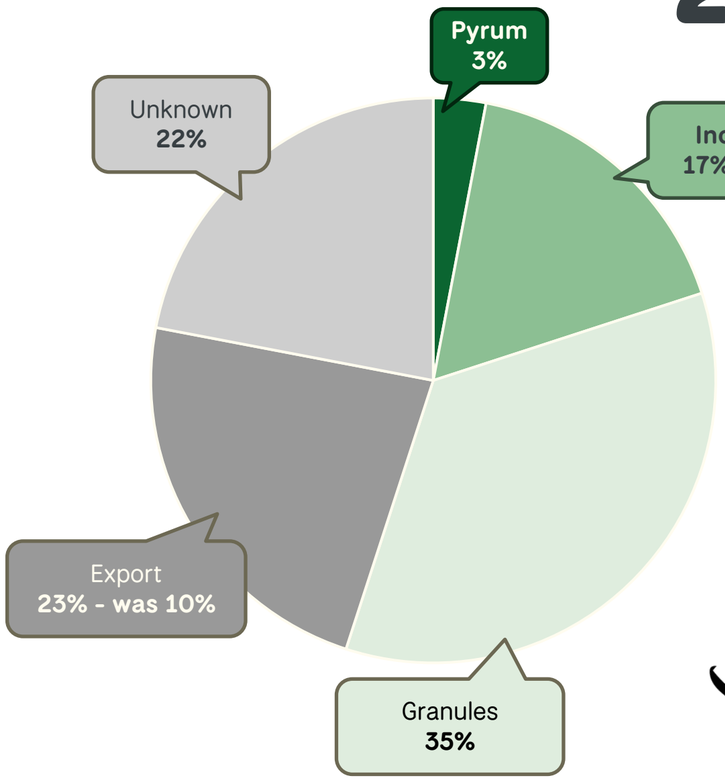
Pyrum Innovations AG

Webcast on the rights issue

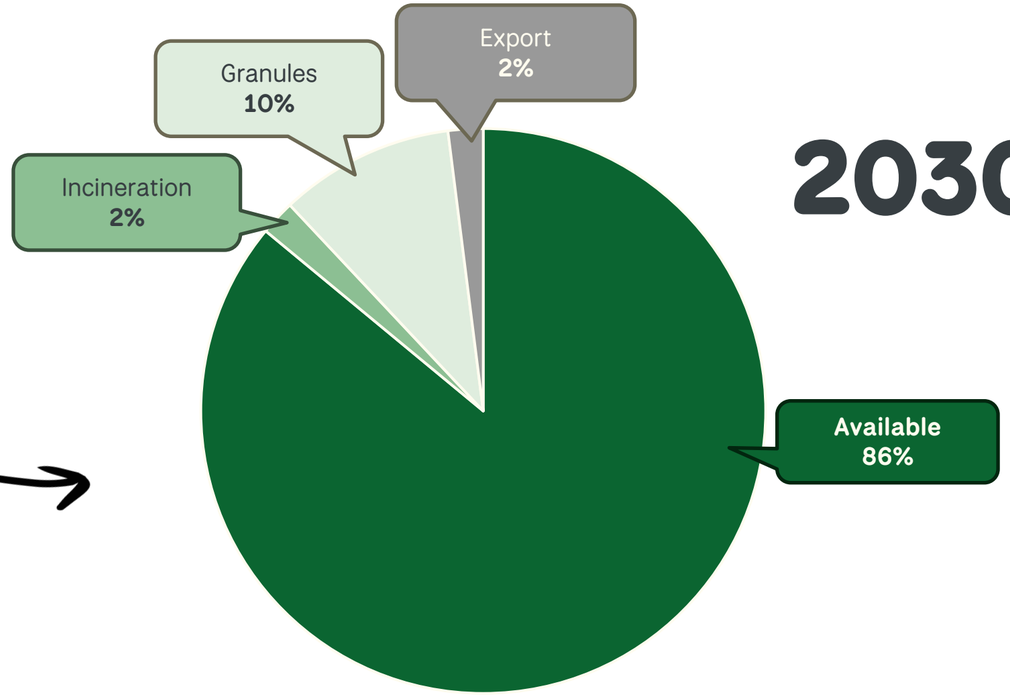
November 18, 2026

End-of-life tire recycling mix in Germany

2026



2030



Source: WDK

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Regulation Is Fundamentally Changing Tire Recycling

Impacts on Raw Materials and Recycling Methods

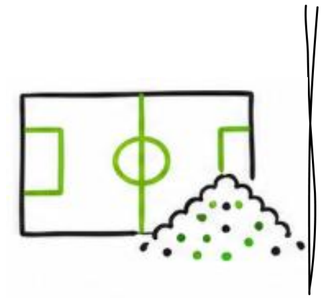


Waste Shipment Regulation

MAY 2026

Ban on the export of used tires to non-OECD countries → +800,000 metric tons of ELT
Starting in 2027

POTENTIAL FOR PYRUM
Opportunities for European Recycling Capacity



EU-Microplastic-Regulation

OCTOBER 2026

Ban on rubber granules on playgrounds and sports fields by 2031

POTENTIAL FOR PYRUM
Possible shift toward alternative recycling methods

FOCUS FOR PYRUM

Securing the supply of raw materials and expanding recycling capacity

Source: European Commission; ECHA

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Circular economy policy supports new markets

Impact on Demand and Partnerships Along the Value Chain



Circular Economy Act

UPCOMING EU INITIATIVE

A Stronger European Market for Secondary Raw Materials

→

POTENTIAL FOR PYRUM
Massive Demand for Recovered Materials (TTO/TTB)



End-of-Life Vehicle Regulation

EFFECTIVE IN 2028

Increased Material Recovery and Circular Vehicle Design

→

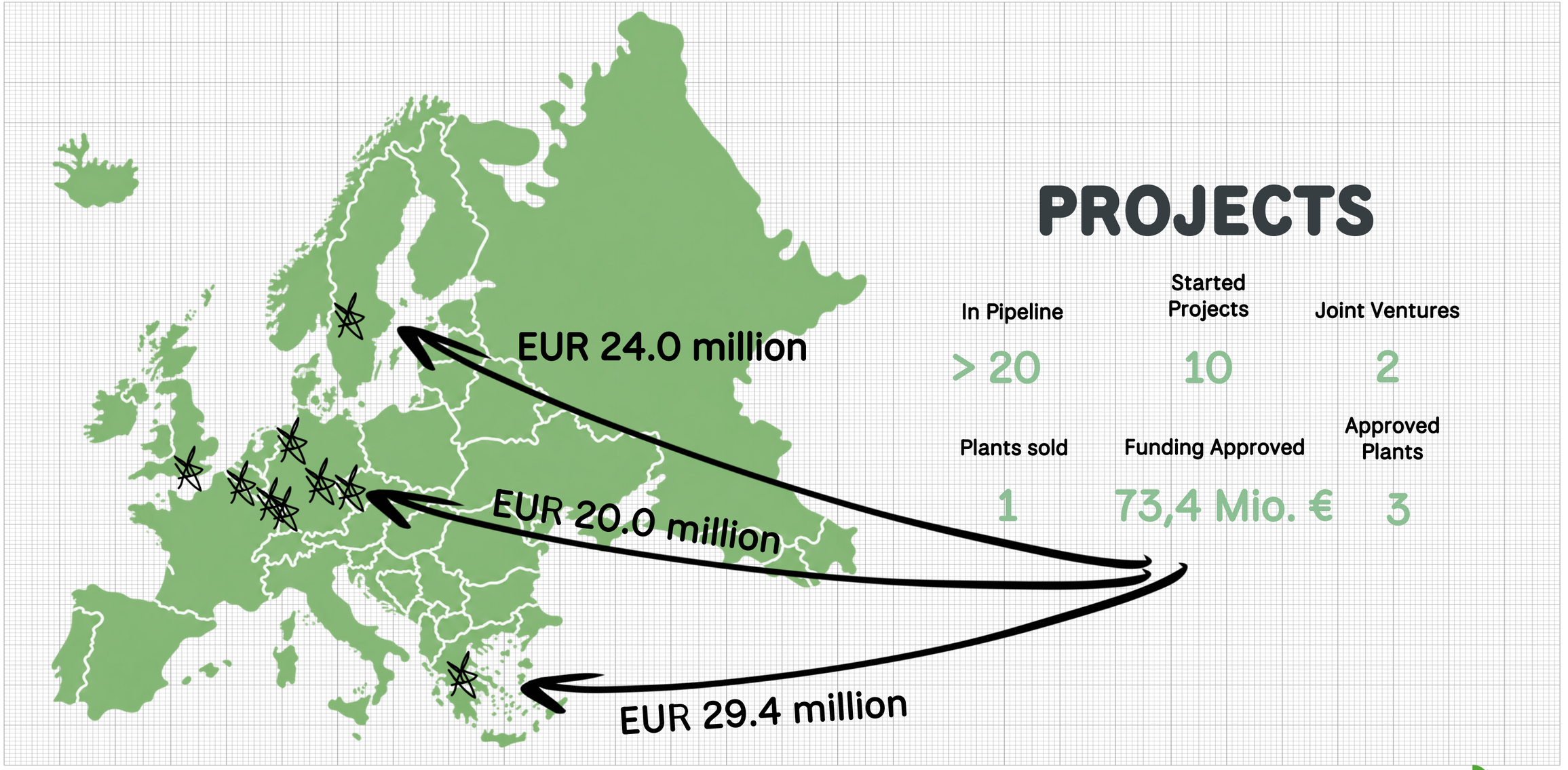
POTENTIAL FOR PYRUM
Opportunities for Partnerships Along the Value Chain in the Automotive Industry

FOCUS FOR PYRUM

Further expansion of procurement channels and strategic partnerships
=> A genuine secondary raw materials market with binding quotas

Source: European Commission; ECHA

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PROJECTS

In Pipeline	Started Projects	Joint Ventures
> 20	10	2

Plants sold	Funding Approved	Approved Plants
1	73,4 Mio. €	3

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PROJECT PROGRESS

Started | In progress | Completed



	Current Project Status
SUAS reTIRE	Sales contract signed, deposit received
THERMO LYSI	Offers submitted awarding Dec.2026
UNITANK	Engineering contract signed
PYRUM GFII Perl/Besch	Funding commitment from Saarland Nov.2026
GreenTech Recycling	EUR 24 Million funding received Sep. 2026

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The Core Projects and What They Mean

- **SUAS ReTire Czech Republic:**
  - Groundbreaking in September 2026; construction is in full swing
  - Plant officially ordered in September 2026; down payment received
  - Commissioning in March 2028

- **Thermo Lysi - Greece**
  - Approval received for 3 Pyrum reactors; currently expanding to 6 reactors
  - Financing for Thermolysi is in place, including a 29.4 million EUR grant from the EIF
  - Order to be placed by the end of 2026; down payment due in early 2027

- **Greentech - Sweden**
  - Approval processes are underway
  - Financing nears completion thanks to a 24 million EUR grant in September 2026
  - Order expected in Q1 2027

- **Pyrum Greenfactory II Perl/Besch**
  - Verbal commitment for funding received from the Ministry of Economic Affairs and SHS in November 2026
  - Some long-lead items have been ordered
  - Investment disbursement expected shortly

Challenges in the projects:

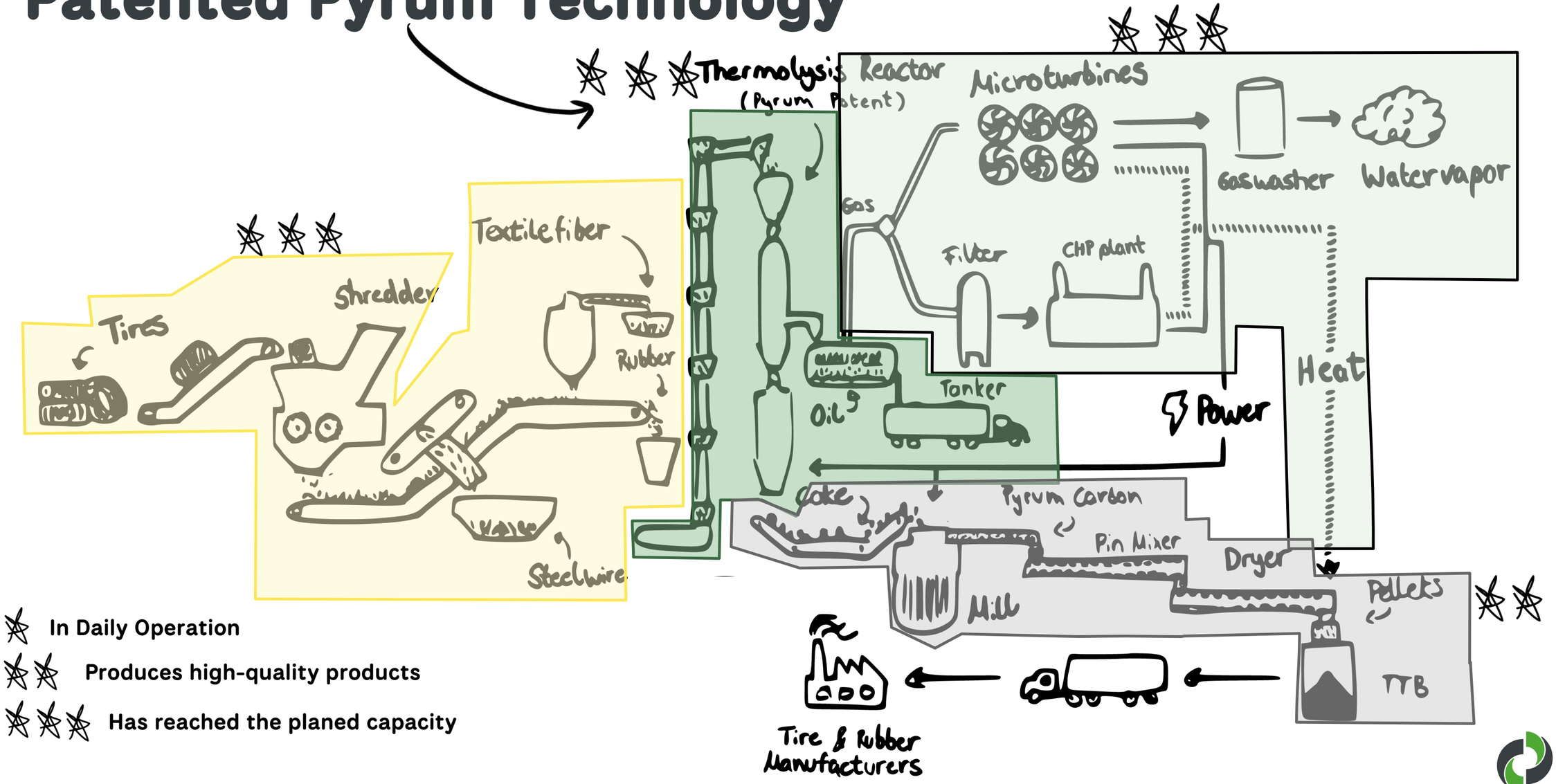
1. Only a 30% down payment; limited by banks
2. Massive price increases across all areas, primarily chips and memory (AI boom)
3. In some cases, price increases of 300% over the past 12 months (memory)

Solution: Strategic Purchasing

1. **Lock in prices NOW by buying NOW**
2. **Don't wait for payment installments—buy when the prices are right**

Sales potential of approximately 90 million EUR from these three plants alone (excluding Perl)

Patented Pyrum Technology



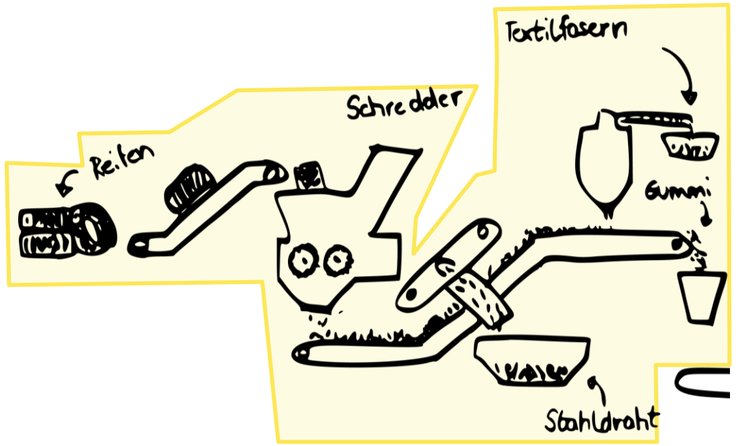
- In Daily Operation
- Produces high-quality products
- Has reached the planed capacity

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Current Status: Shredding Plant and Power Plant:

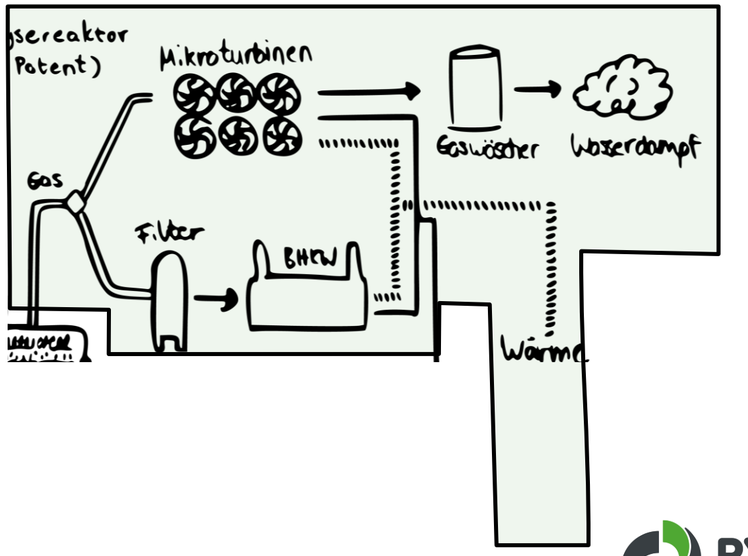
Shredding Plant:

- **Stable production** since the **end of Q2 2026** at **+/- 80 metric tons per day**
- **Change of operating concept:** Night shift maintenance
- **Since June 2026:** Building up a **25-day** buffer stock of rubber granules
- => No more reactor shutdowns due to rubber shortages
- Replacement shafts since July 2026
- => Repair time reduced from 14 days to 48 hours



Power Plant:

- Currently, **a second flare** has been leased due to increased reactor throughput => Result of the commissioning
- **Reactor power consumption reduced** following optimization measures
- New, larger flare ordered (300,000)



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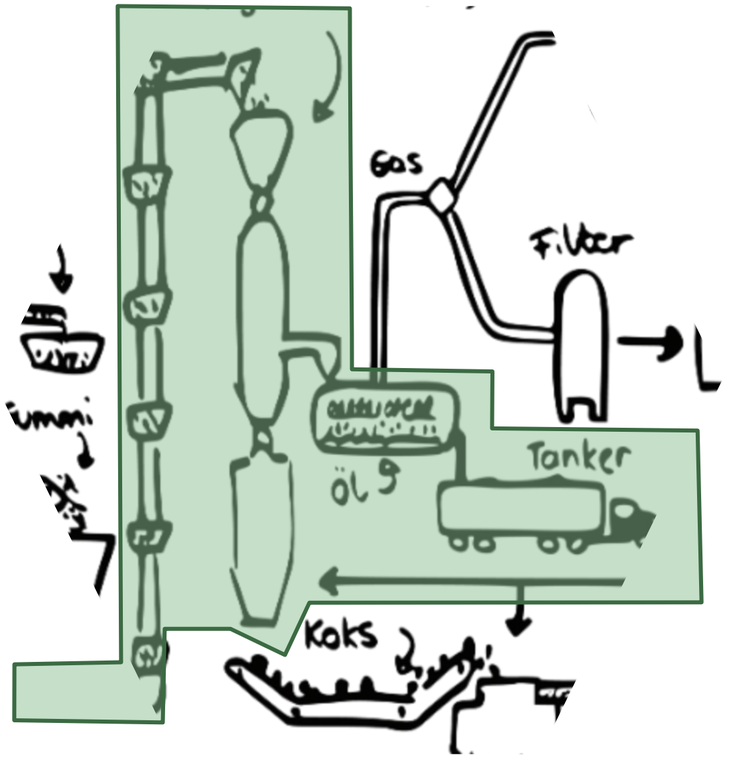
The Pyrum Technology:

“Pyroboost” research project with the following goals::

- **Improve rCB =>** expand applications, significantly larger market
- **Reduce power consumption**
- **Increase final product yield**
- **Reduce reactor downtime** and **maintenance duration**

Optimization Results in the Summer of 2026

- **+ 60% Oil as before summer break**
  => Up to **four oil deliveries** per week; previously, approximately two deliveries
  => **approx. 1/2**: Higher oil yield
  => **approx. 1/2**: Higher throughput in the reactors
- Electricity consumption of reactors slightly reduced
- Reactors are operating at up to **720 kg/hour**
- **“New Standard rCB”** produced on an industrial scale for the first time!
- **Wear and power consumption** in the rCB area reduced



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New rCB (TTB) Grades and the Future

	„BASIC“ rCB	„New Standard“ rCB	„Advanced“ rCB
Laboratory development completed since	2019	2024	2024
Large-scale industrial production since	05.2020	09.2026	Open
Potential market size	20,000 – 30,000 tons /year	**Several 100.000 tons per year**	On top of that, 1,000 metric tons per year per plant
Potential Pyrum plants in Europe	**3-5 Plants**	**> 50 plants**	No more plant
Applications	Bicycle tires, forklift tires, construction equipment tires, pigments, small quantities of passenger car / truck tires	Large quantities of passenger car and truck tires, aircraft tires, specialty applications high-quality pigments, cosmetics	Special applications, ´High-Tech niche applications.
Prices per metric ton	1,400 EUR/ton	**>= 1,500 EUR/ton**	**Potentially higher prices per metric ton**
Current production capacity in Dillingen (Milling and Pelletizing plant)	Up to 1,250 kg/hour	750 kg/hour (Batch-wise)	Unknown
Difference between target and actual manufacturer commitment	Approx. 80%	Approx. 35 - 45%	Unknown

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Milling and Pelletizing Plant:

Infobox:

- **Turnkey plant ordered from the global market leader**
- **Ordered throughput: 1,600 kg/hour input**
- **All previous modifications paid for by the manufacturer**
- **Largest plant of its kind in the world**
- **Sales of the rCB account for 60% of the Pyrum plant's revenue**

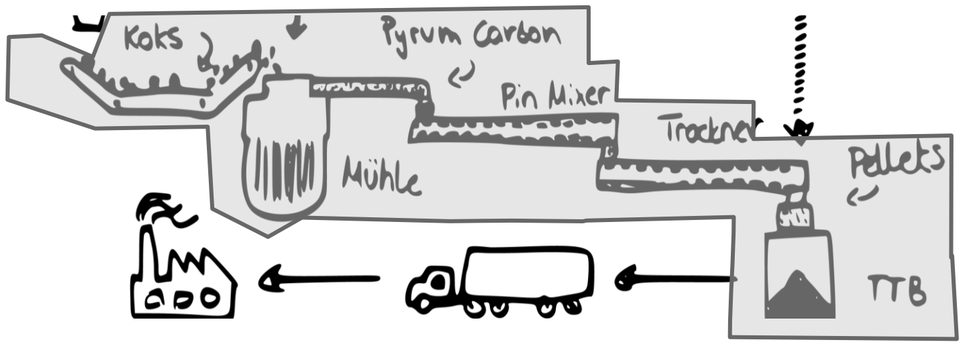
Status of the milling and pelletizing plant, May/June 2026:

- Stable semi-batch operation at **approximately 750 kg per hour**
- Continental Audit: **MAD 2 approval for "Basic" rCB (construction machinery…)**
- **Start of deliveries:** Conti + Schwalbe = **approximately 350 metric tons**

Summer Retrofit (During Scheduled Maintenance Shutdown)

- **Duration: 8 weeks** from mid-July to mid-September
- **Retrofit:**
  - **Switch from pressure to vacuum conveying (Vacufills)**
  - **Agitator in H03 for faster deaeration**

  Goal: Faster compaction and air removal to increase throughput



Mid-September: Commissioning after retrofit

Results:

- **"Basic" rCB (before summer retrofit): up to 1,250 kg/hour**

=> Material flows too quickly at 1,350 kg/hour or higher

- **"New Standard" rCB: max. 750 kg/batch**

=> Material is significantly coarser and flows very poorly

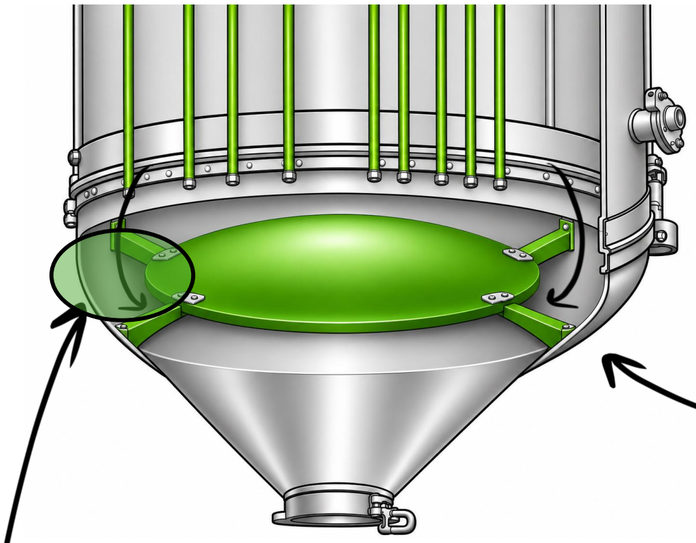
Second dosing line - more settling time

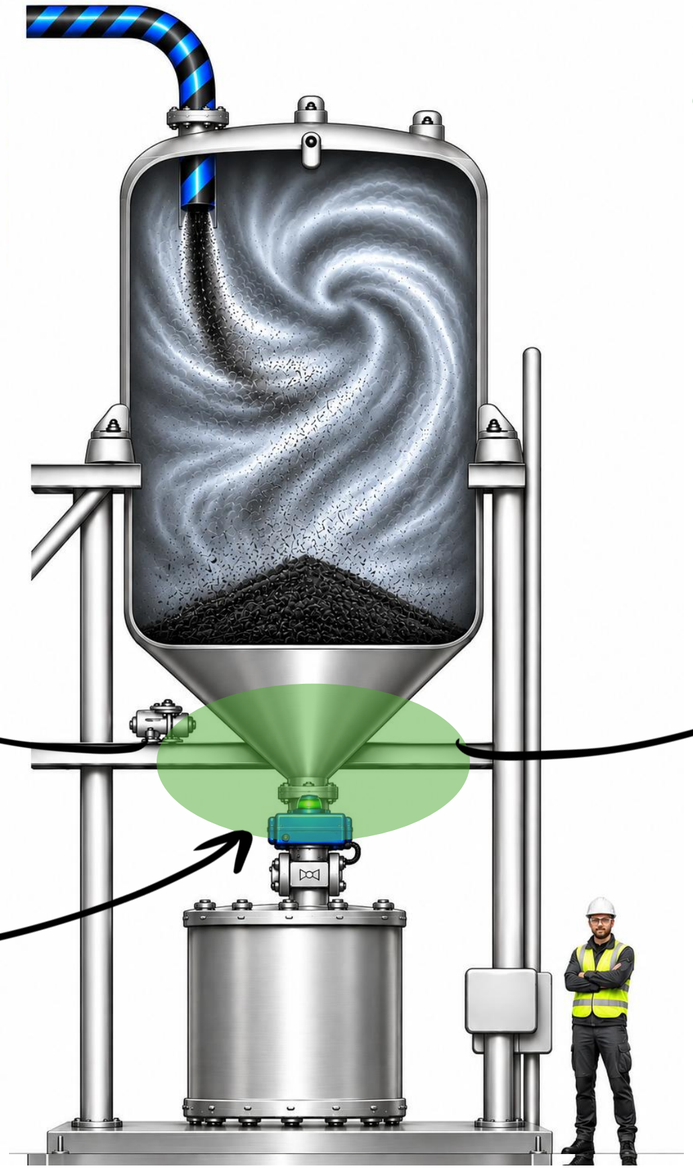
Forced feeding due to insufficient flow

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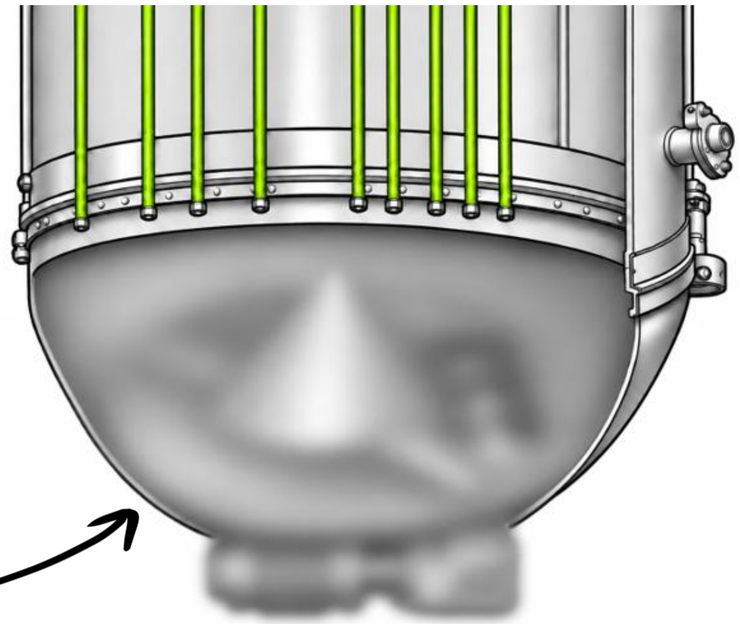
Dosing system:

Current Status
Designed for “Basic” rCB





H03 Discharge Design: Already tested and proven for ALL rCB grades

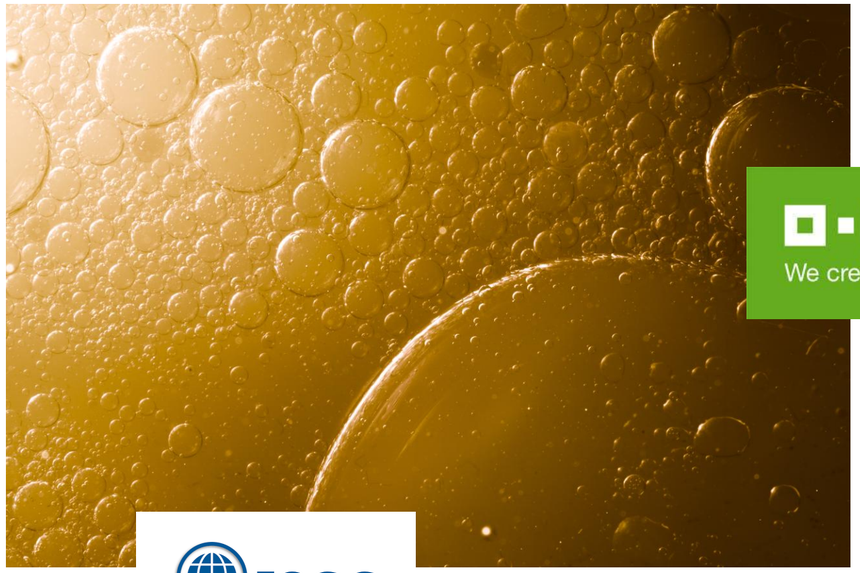


Static dosing principle
- No adjustment options
- “Hourglass” mode: Precise quantity over time X
- “Basic” rCB from 750 kg to 1,250 kg
- “New Standard” rCB blocked

Controllable dosing principle
- Fully variable
- Guaranteed discharge rate
- Due to moving parts and the ATEX 20 standard, the planning process is lengthy and requires safety approvals from certified experts

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WHAT HAPPENS TO OUR THERMOTIREOIL®

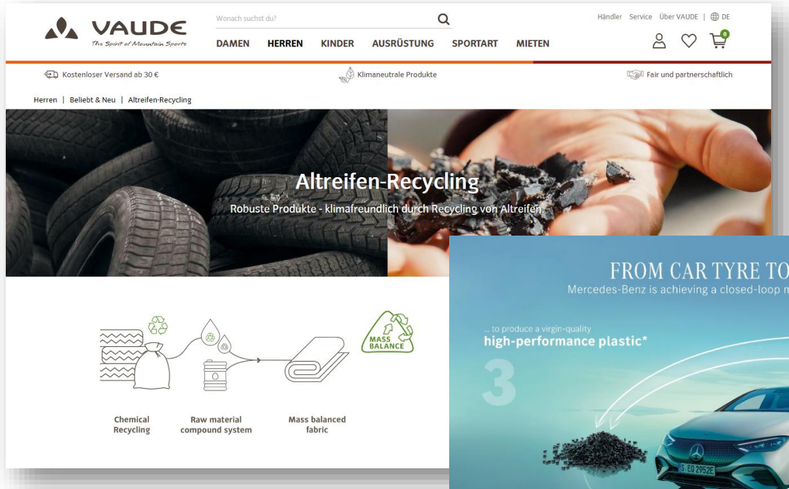


BASF
We create chemistry

ISCC
International Sustainability & Carbon Certification

NEW:
Synthetic rubber

NEU:
ISCC EU / RED Cert 2
Green fuels





SCHWALBE

PIRELLI

Continental

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WHAT HAPPENS TO OUR THERMOTIREBLACK®

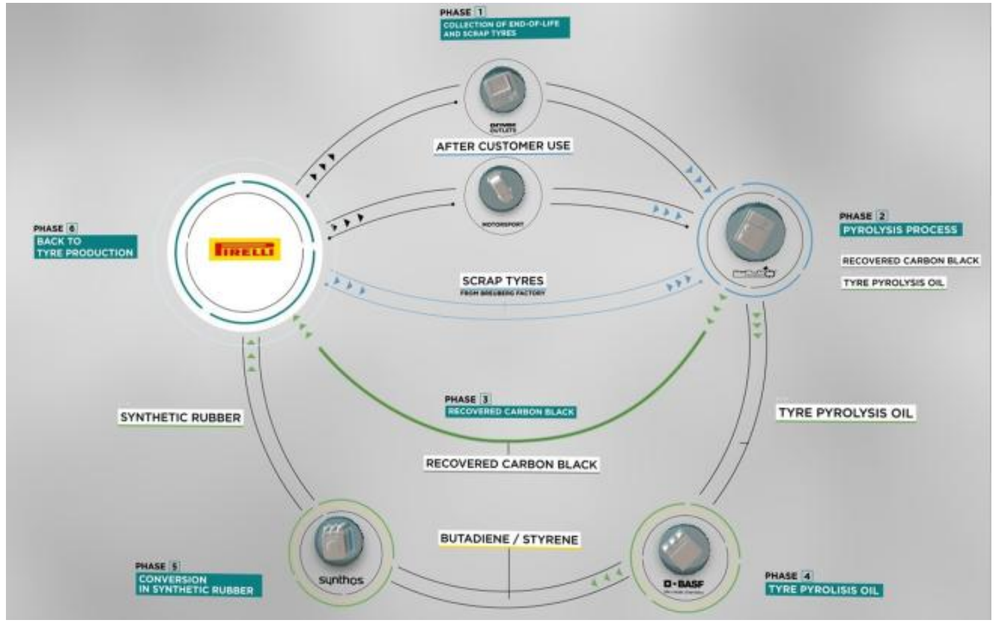




Continental



NEW:
TYRE-TO-TYRE initiative with Pirelli



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Where do we stand?

- **The complete Pyrum thermolysis has a TRL of 9/9**
  → New projects are bankable (70% debt capital)
- **Critical raw materials are recognized by the Industry**
  → Development of new products completed => **Required Market Size (rCB)**
- Pyrum reactors are operating stably at **720 kg/hour in 24/7 operation** including power plant and stable production (the plan was up to 650 kg/hour)
- **All necessary certifications and product approvals:** REACH, ISO9001, ISO 14001, VDA 6.3, ISCC+, **ISCC EU (Green Fuels),** RCS
- Fraunhofer LCA Study **confirms 965 kg CO2 savings** per metric ton of ELTs
  Sustainability Ratings: IMUG – Very Good, Ecovadis – Bronze Medal
- **Long-term purchase agreements with:** BASF, Schwalbe, Continental and **Pirelli (NEW)**
- **European aid has been secured and proven time and again:**
  - Greece EUR **29,4 million**
  - Sweden: EUR **24 million (NEW)**
- **First project sold in September 2026**
  First bank financing in September 2026

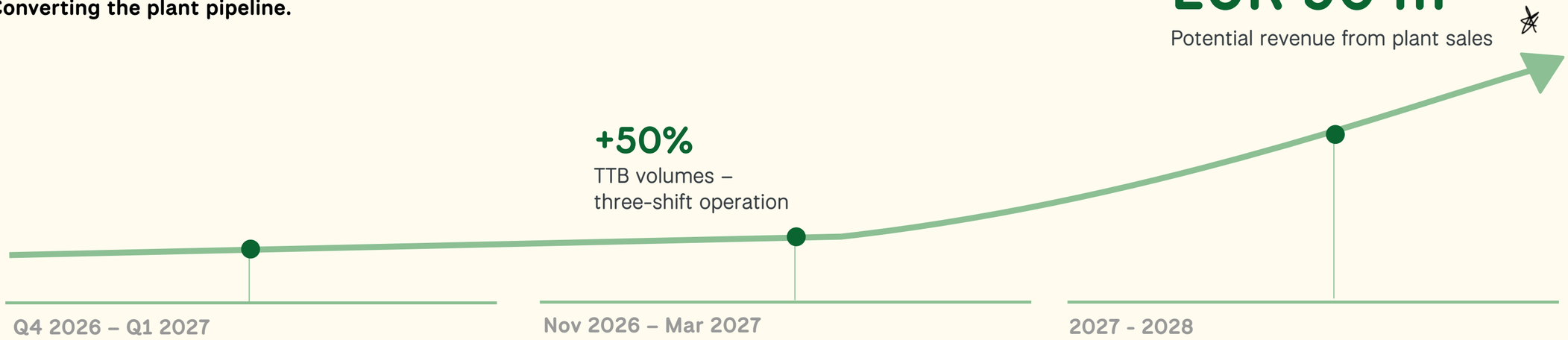
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From ramp-up
To scale.

Financing the foundation.
Unlocking operational growth.
Converting the plant pipeline.

Up to
EUR 90 m
Potential revenue from plant sales

+50%
TTB volumes –
three-shift operation



Q4 2026 – Q1 2027

Secure the foundation

Secure financing from bank
Saarland funding by **end of 2026**

Nov 2026 – Mar 2027

Ramp up operations

Preparations for **three-shift operation**
(staff currently undergoing training)
MAD2 conversion from static to variable dosing system by March 2027

2027 - 2028

Convert pipeline to sales

Expansion pipeline
Czech Republic, Greece & Sweden, etc.

Regulatory Tailwinds: Circular Economy Act, ELVR, Waste Shipment Regulation

Curve is schematic, not a quantitative forecast.

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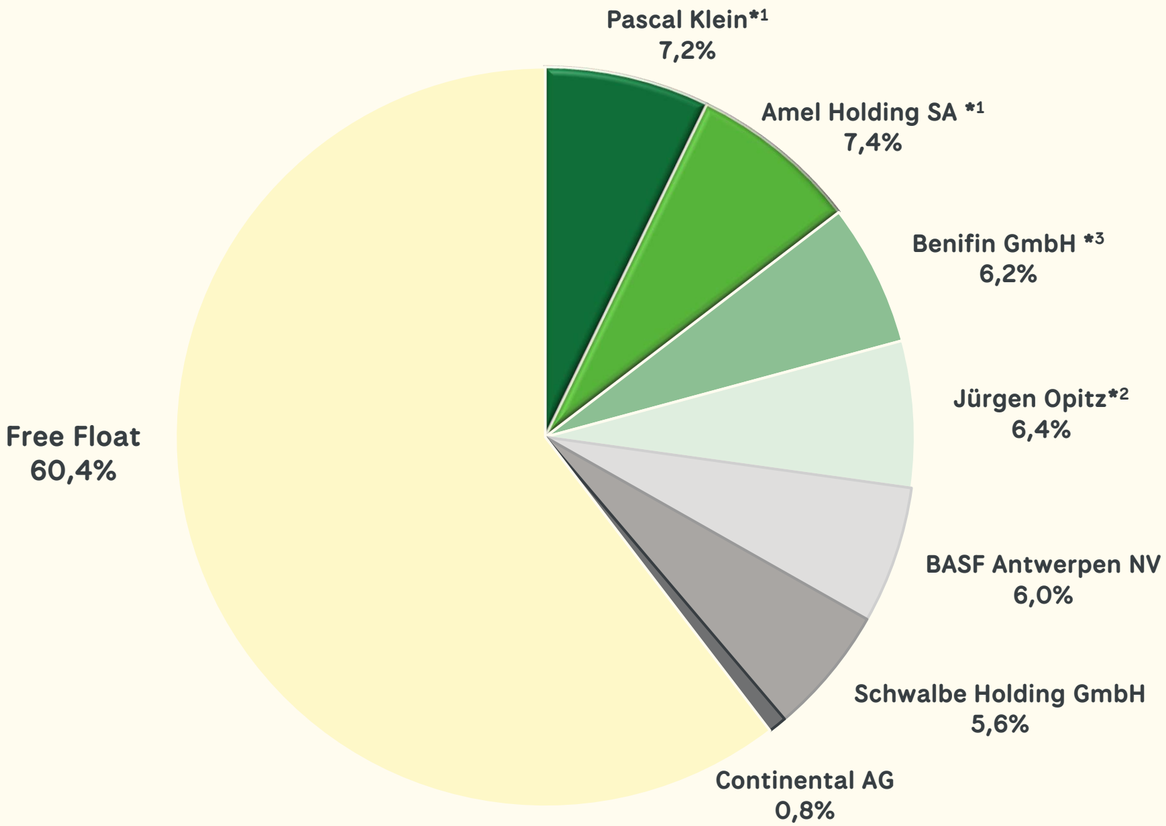
Capital Increase with Subscription Rights

Goal: Gross proceeds from the offering of up to EUR 22.3 million

- Subscription rights on a ratio **of 5:1**
- Subscription rights: **Preservation** of shareholders' stakes
- Subscription price: **EUR 26.0**
- Maximum number of new shares: **858,533**
- **Subscription period:** November 19 – December 3, 2026

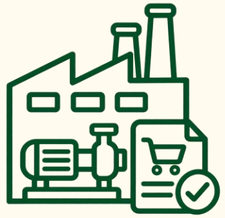
Commitments have already been received from:

- **Schwalbe Holding GmbH**
- **Frank Thelen**
- **Felix Magath**
- **Founding Family Klein**
- **Benefin GmbH**
- **Etc.**



*1 Major founding shareholders
*2 Including attributable shares
*3 Including indirectly attributable shares

Use of Proceeds



Strategic Procurement (High Priority)

- Rising prices for plant components are one of the greatest risks to Pyrum's future liquidity.
- Critical prices must be locked in directly when placing the order with the manufacturer (a 30% down payment is insufficient).



Lobbying in Brussels and Berlin. Together with partners in Spain, Italy, the Czech Republic…

- The first positive results are already visible in the ELVR and the Waste Shipment Regulation
- The Circular Economy Act and other important legislation are on the horizon => Pyrum must stay on top of things



Development of additional rCB (TTB) grades and expansion of production capacity in Dillingen

- Stabilize “New Standard” and increase volumes => Partial commitment from Pyrum
- Produce “Advanced” rCB on an industrial scale => higher rCB prices
- Refit of Reactor 1 (complete TAD1) => Detailed planning and new safety requirements (+2 million EUR)



Cash Burn Rate Until **Break-Even! => Positive EBITDA** in **2027, Positive Net Cash Flow** in **2028**
Investments in **joint venture facilities (e.g., Greece)**

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Thank you for your attention