



Recovery, magnified

Spring 2026

MADE IN THE USA AND AUSTRIAN ALPS

CONFIDENTIAL

Biochemicals

Ingredients

Pharma

Metals

... spend tens of billions of dollars on **recovery** (separations) each year.

Recovery = separations = isolating the target product from the liquid in which it is produced

Recovery is also called downstream processing or DSP

Separations is the unglamorous, hidden-in-plain-sight backbone of the world's essential industries.



Biochemicals



Ingredients



Medicines



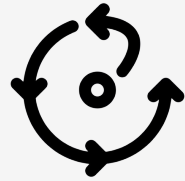
Metals

Recovery accounts for **more than 50% of manufacturing costs** in these industries

+ Recovery processes in the chemicals industry alone account for **10 - 15% of worldwide energy use**

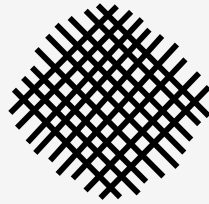
Source **nature**

Nearly all recovery across these industries is done using a combination of three technologies.



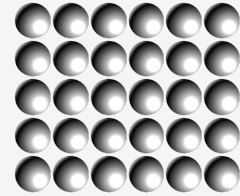
Centrifugation

+



Filtration

+/-

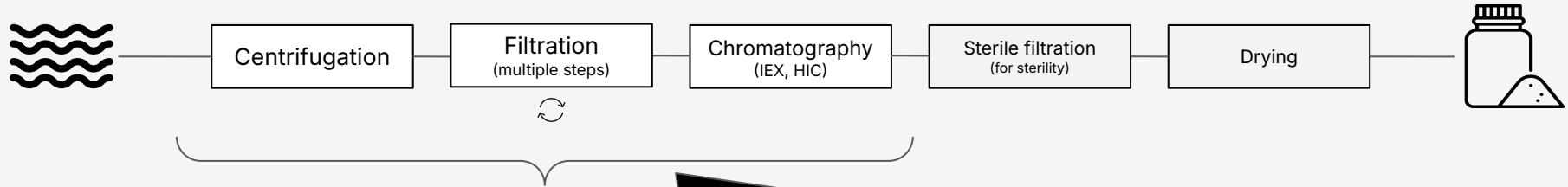


Chromatography

Throughput

Purity + Cost

Long recovery cascades impose massive cost pressures, result in unacceptable product loss, and drive energy and water consumption for manufacturers.



A dominant driver of factory CapEx **AND** OpEx.
Customers demand a new separations regime.

Legend

 Out of scope for REIN by Magnify

IEX = ion exchange HIC = hydrophobic interaction



Customer's production liquid
(e.g., fermentation broth, dairy stream,
juice stream, leaching solution, etc.)



Customer's target compound
(e.g., enzyme, recombinant
protein, dairy protein, metal, etc)

REIN by magnify

*Unlocks **cheap**,
single-step,
high-purity,
adsorption at
world-scales*

Hardware

Mining, oil & gas

Resin

Water treatment

← **REIN component**

← Key design inspiration

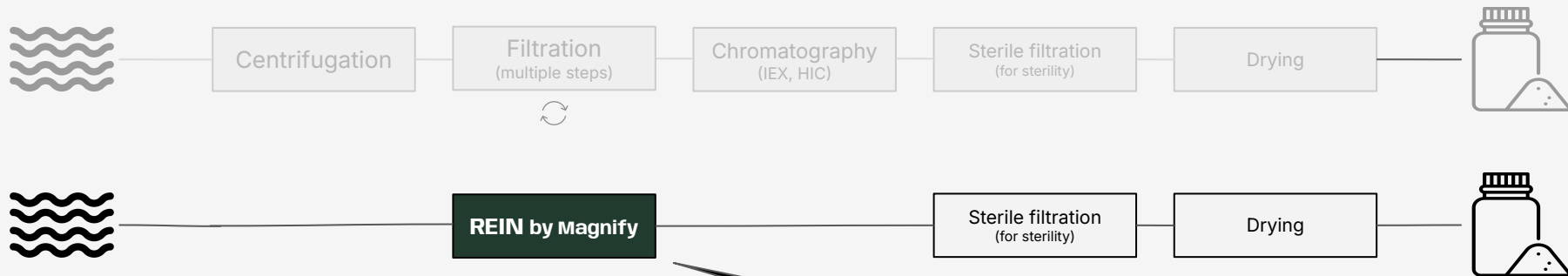


Printer + Ink Model

**Magnify is a green
chemicals company
that sells particles
(resin) at scale**

REIN operating at demo-scale in-house

REIN by Magnify slashes the cascade and unlocks a new generation of products.



Legend



Customer's production liquid
(e.g., fermentation broth, dairy stream,
juice stream, leaching solution, etc.)



Out of scope for
REIN by Magnify



Customer's target compound
(e.g., enzyme, recombinant
protein, dairy protein, metal, etc)

IEX = ion exchange HIC = hydrophobic interaction

**REIN unlocks a new regime.
De-bottlenecking separations across
manufacturing categories.**

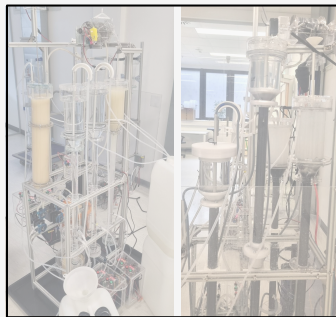


Invention to demo-scale in under three years, on pre-seed capital.

Building on 30+ years of academic + industrial R&D



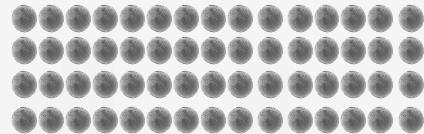
50 - 100L / day



1,000 - 2,000L / day



10,000 - 250,000L / day



PoC

Pilot

Demo

Industrial



REIN by Magnify is the flagship separations technology in our pipeline



Magnify is laying the groundwork to dominate the molecular separations market – totaling over \$60B.

	Application	Task*	Market(s)	TAM	Traction
GTM	Nucleic acid	Removal	Biochemicals Biopharma	\$1B	MoU for on-site demo
	Protein / enzyme	Capture	Biochemicals Ingredients	\$5 - 8B	Active head-to-head pilot
	Off-flavour	Removal	Ingredients	<\$1B	MoU being finalized
	Molecule (non-protein)	Capture	Ingredients Biochemicals	\$1-3B	Active discussions
	Biopharma	Capture	Biopharma	\$25B	Frontier
	Metal	Capture	Metals	\$25B	Frontier



Over 1000
factories exist within
our application
universe that would
benefit from
using **REIN**



**We need to win 40 to
become a billion dollar
chemicals company**

Ex-
Purolite[®]



Pat Gilbert

*Pat built the resin
platform that made
Purolite a recovery
giant, resulting in
\$3.7B sale*

“ Magnify is in a position to build a category-defining recovery company that wins across a range of markets... The beauty of [REIN] is not only the cost leaps it will bring to customers, but the high-margin ARR lock-in it affords Magnify. ”



And we are on track for our first sales...

First in-house pilots complete

Signed agreement with multinational enzyme company to conduct on-site demonstration trials of **REIN** for nucleic acid removal (polishing)



We are simultaneously laying the groundwork for entry into the global metals recovery market

REIN by Magnify

PRODUCT DATA SHEET
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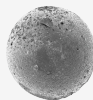
REIN-U1000

1st metal target: *confidential*

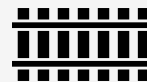
Why now.



New gen of
products = new gen
of separations
challenges



Advances
in particle
chemistry



West must
re-industrialize
with economically
+ eco superior
manufacturing

We are building this generation's dominant separations company.

CTO of world's largest private chemicals co. Unmatched rolodex + supply chain strategy.

Universally regarded as a pioneer in chrom. Deep resin chemistry expertise.

Founders



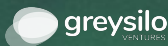
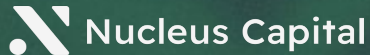
Blake Byrne
CEO 

Christian Schuster
CTO 



+ 6 full-time chemists and engineers

Investors



Charlie Songhurst
Meta board

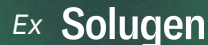
TOP ADVISORS



Peter Williams



Bryce Sturtevant



Chris Pohl



Pat Gilbert



Heinz-Jürgen Kroner



Tomo Sato



Ex-senior executive of world-leading equipment mfg co. Track record of selling and deploying hardware.



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