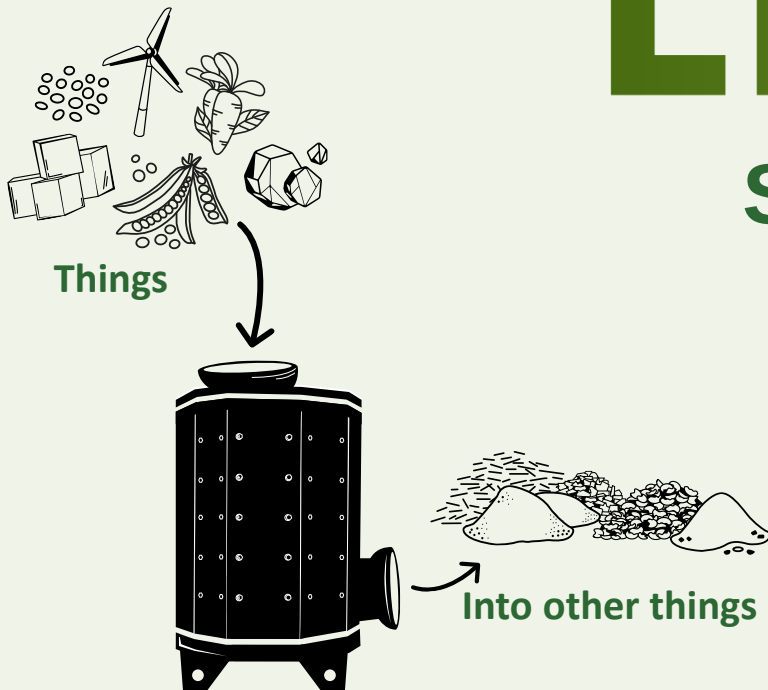


LIBRIXER

Sustainability Redefined
Johan Weidolf



About LibriXer

LibriXer operates in the sustainability and recycling-domain, focusing on food, mining, and recycling industries.

Our target audience includes businesses aiming to improve sustainability by reducing waste and reusing materials.

Founded

In Sweden in 2019

By innovator Eric Lundgren

Mission

Liberate locked values

More value and less waste

Vision

Sustainability redefined

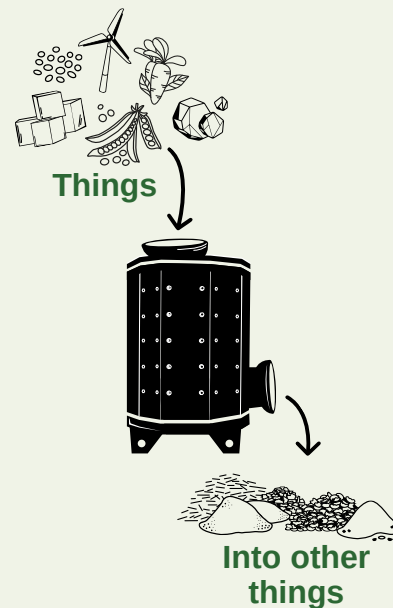
A new level of sustainability

Business environment

LibriXer complements traditional milling and grinding by using an innovative, energy-efficient process that break down materials along natural boundaries, rather than simply crushing them into powder.

LibriXer's customer benefit

Through liberation, LibriXer enable smoother sorting, empowering customers to build their own eco-systems. The technology enhances resource utilization, supporting global sustainability goals.



Through our values we:

Rethink

We offer a brand-new view on what's sustainable or not. An eye-opener for what's possible.

Remake

We offer a pragmatic walk the walk philosophy for hands-on results. Again, and again and again...

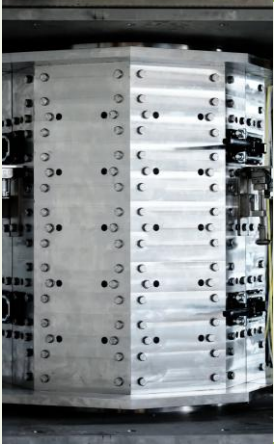
Refuse

We are progressive and refuse to be stuck in old patterns and square boxes. We challenge the rules by creating our own game.

LibriXer
– a machine to liberate and
create more **value**

LIBRIXER

The Value Proposition



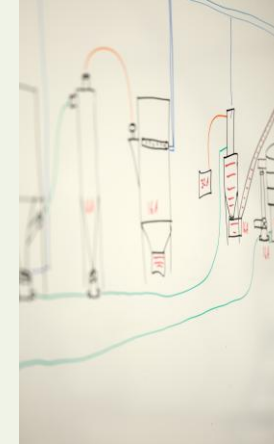
01. Innovative comminution technology

Uses selective liberation to break down materials along natural boundaries.



02. High-quality, efficient material recovery

Preserves material integrity, enabling reuse in high-performance applications.



03. Low risk, low cost customer journey

Functionality test
– POC → Industrialization
– Outsourcing – Low Capex.



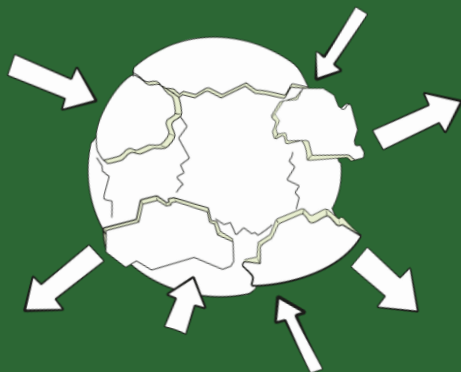
04. Environmentally friendly

Provides a chemical-free, sustainable solution, reducing waste and CO2 emissions.



05. Cost savings

Savings, with low energy consumption and reduced operational costs, Libriker surpasses sustainability requirements



The solution

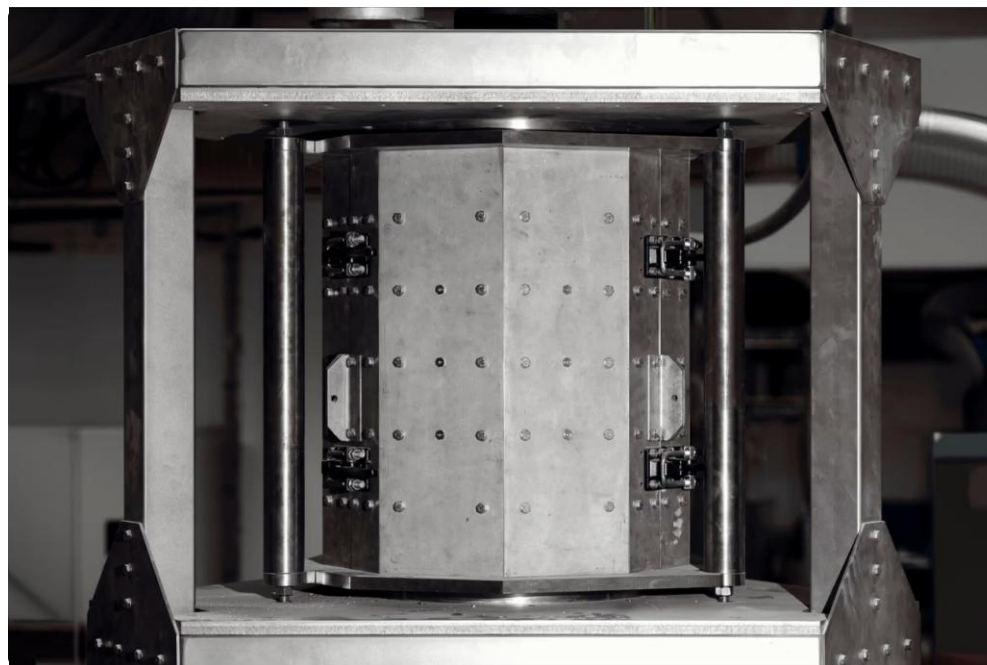
Maximize resources, minimize waste

LibriXer – a dry and energy-efficient comminution technology that conserves the quality and function of material components.

LibriXer technology
– liberates materials along their natural boundaries.

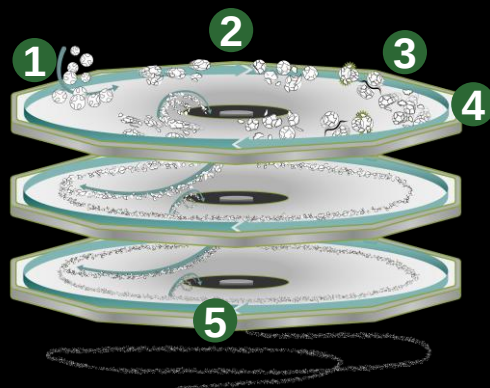


Other mechanical methods
– forces materials to randomly break apart with high force.



The abrasive hard material (slag) breaks along natural boundaries via existing micro-cracks.

LibriXer material significantly finer compared with ball mill



1. Material harmony

Gentle, multi-directional forces

2. Compression & expansion

High-frequency pulsating pressure changes

3. Pressure

Particle collisions through pressure pulses

4. Chaotic collisions

Near surface contraction & expansion

5. Twister

High velocity directional changes

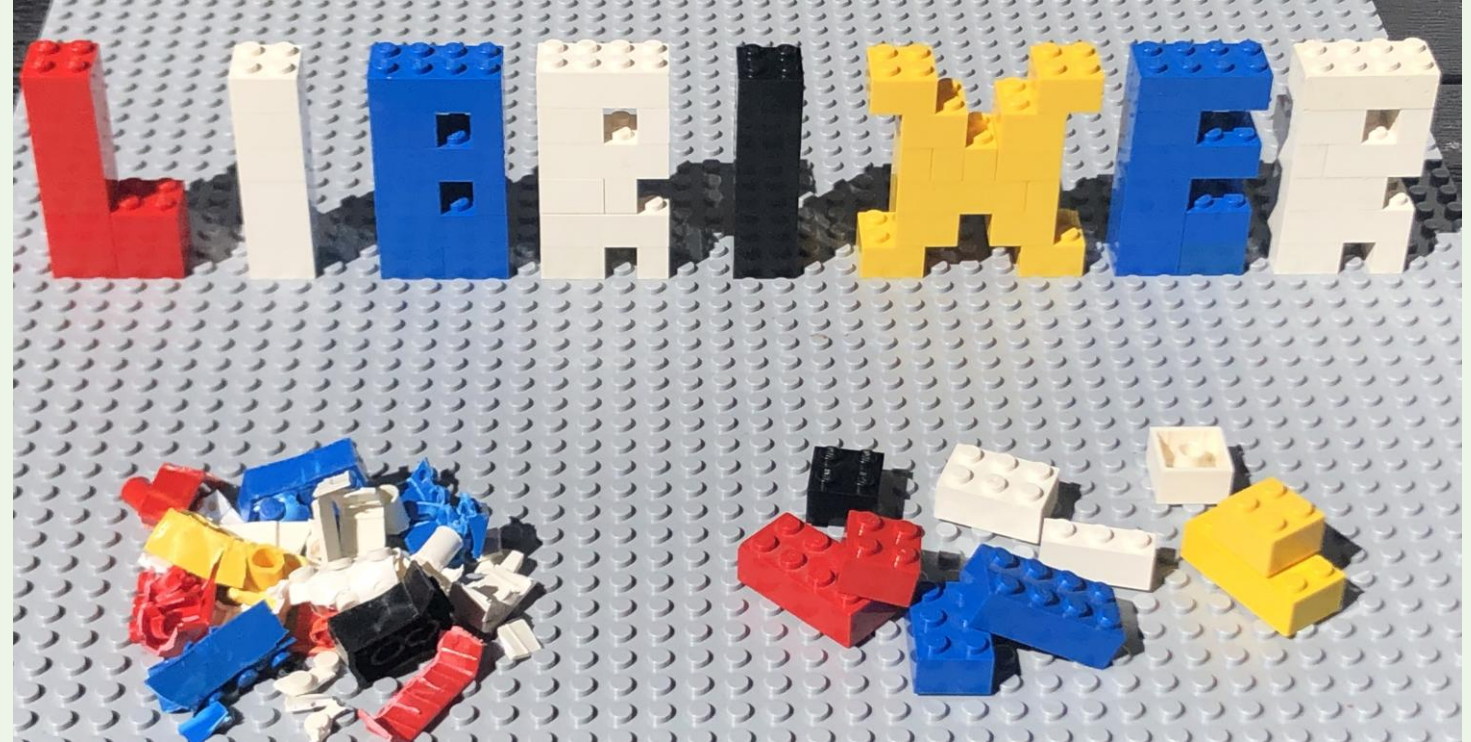
LIBRIXER

Liberated materials

- You have built something with LEGO® (the result represent any combined materials in the world)
- Each colour is its own building block or material



- You want to liberate them into their own colours again so you can sort and reuse them



- Putting them through a normal grinder you will get the pile on the left, the building blocks are destroyed, can be sorted but and difficult to use
- Putting them through the LibriXer Liberator, keeps the individual building blocks intact and it is possible to sort and reuse them again

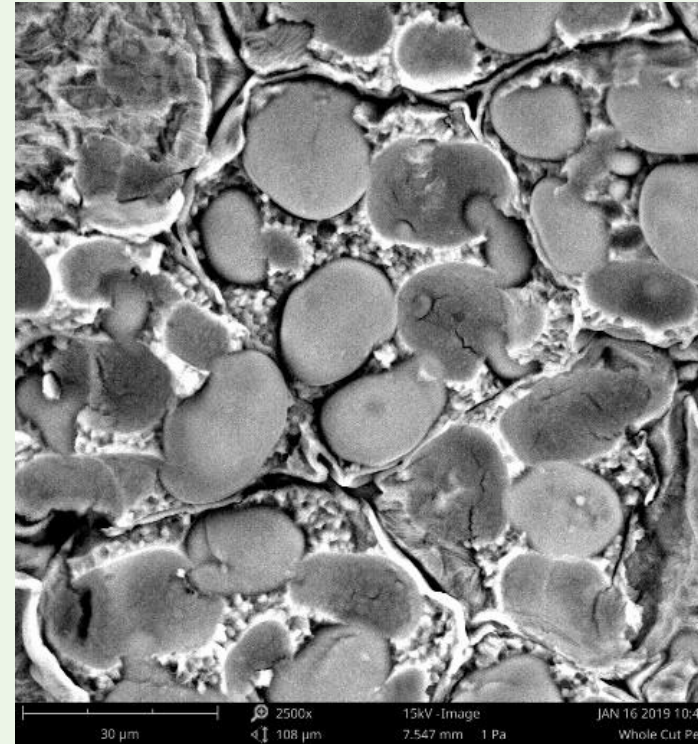
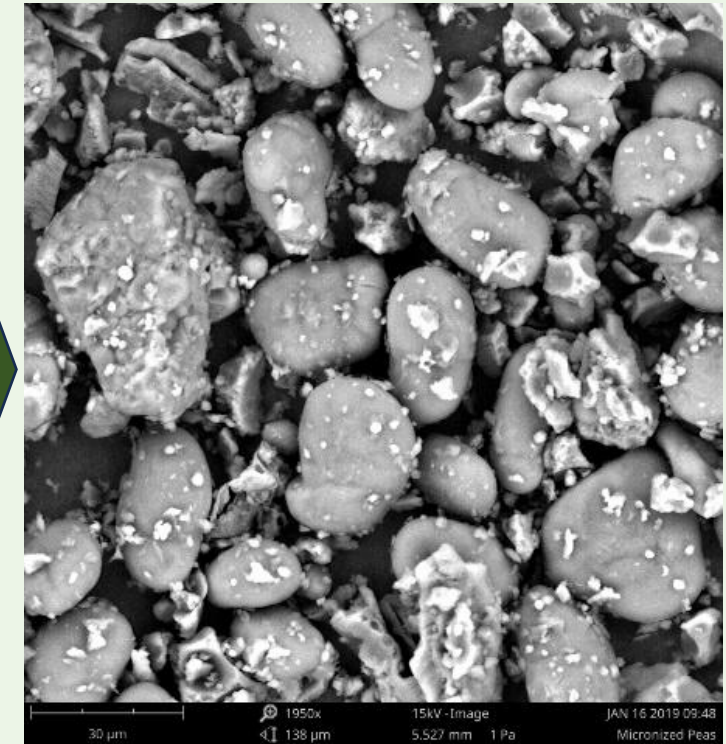
This is the LibriXer! It keeps nature's natural building blocks intact

Liberated materials

You have built something with LEGO®
The result represent any combined
materials in the world

Each color is its own building block or
material found in nature

You want to liberate them to be sorted into
their own colors again



Using a normal grinder, you will get a pile
with liberated materials. The natural
building blocks are compromised, and are
more difficult to sort and re-use

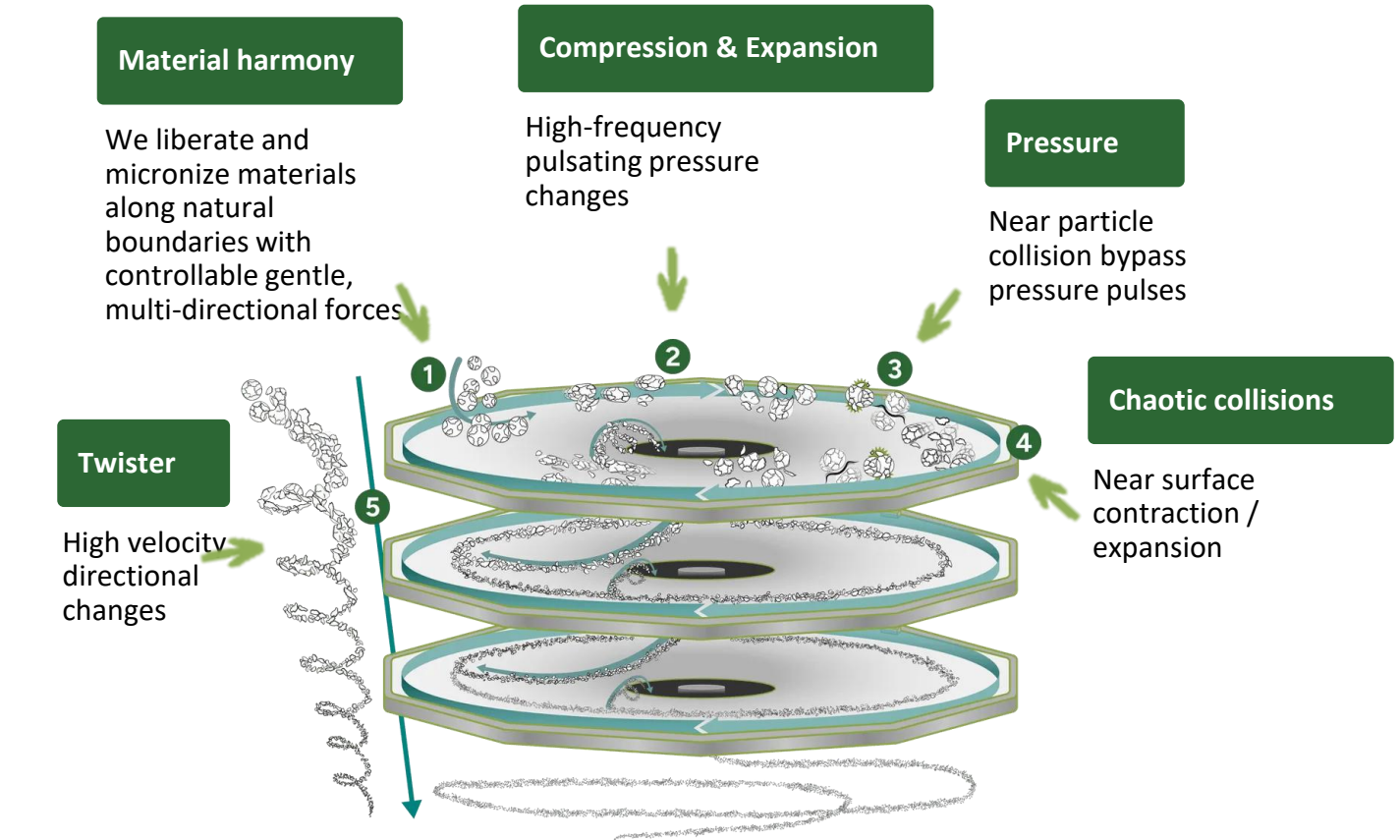
Using the Librixxer Liberator, keeps the
individual building blocks intact and
makes them easier to sort and reuse

This is the Librixxer!
It keeps nature's
natural building
blocks intact

The Solution

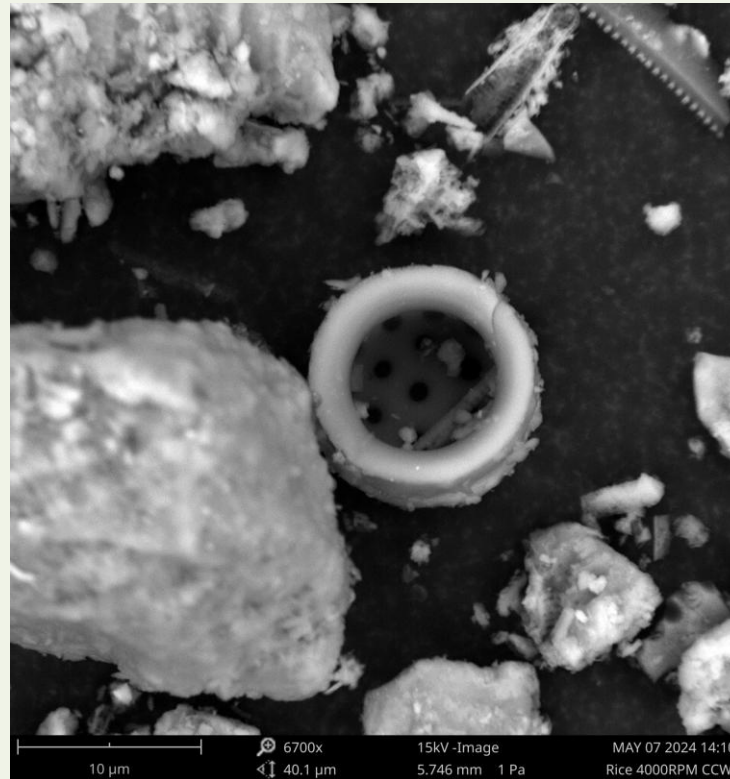
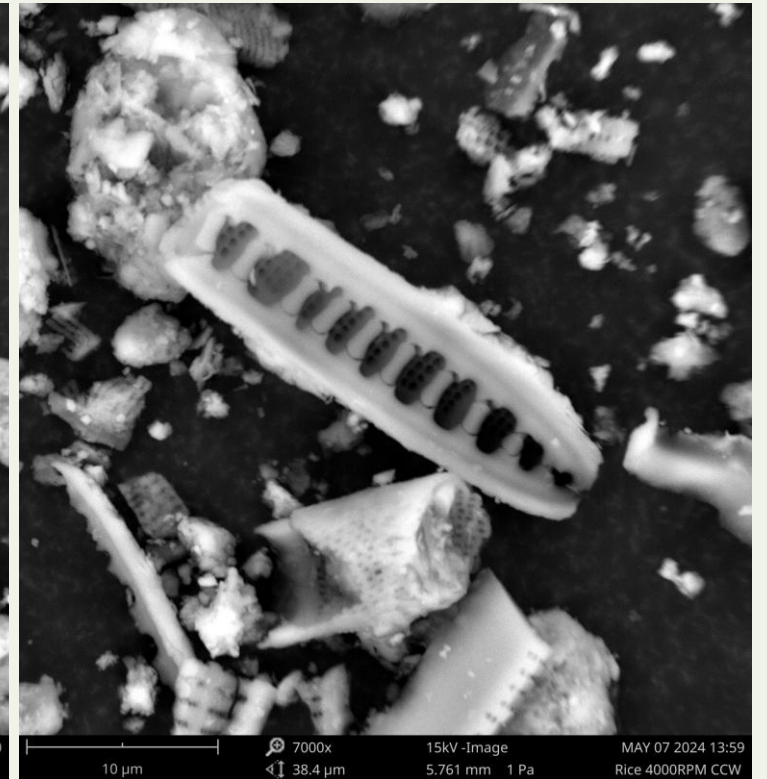
Deep-tech technology

- Libriker machines will disassemble ore and slag into component materials
- Unique, chemical-free process that separates components without crushing, grinding, shearing, or impacting along natural boundaries
- Adaptable for various industries (food, recycling, **mining**)



Comminution forces inside the Libriker machine

Liberation and micronization along natural boundaries



Sedimentary rock mining of Montmorillonite (a Bentonite) for re-mineralization of agri-soil
As you can see, the natural structures stay intact and are liberated from each other

Thank you!

Handwritten notes on a whiteboard:

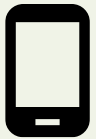
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u_2	1.0
u_2	0.9
u_2	0.75
u_2	0.6
u_2	0.5
u_2	0.4
u_2	0.3
u_2	0.2
u_2	0.1
u_2	0.0

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