PITCH DECK

LEFT

Go LEFT, act right

Left System AG | EN Version 2024-07-29

YOU FLUSH THE TOILET ... AND THEN WHAT?

THE PROBLEM:
Countries with well-developed infrastructure dispose of solids at sewage treatment plants along with wastewater. This practice has many disadvantages:

The multi-step cleaning process is complex and very costly.

Solids must be diluted with fresh water. As a result, valuable substances like phosphorus and nitrogen are lost.

The increasing demand for wastewater treatment is pushing existing systems to their limits.

In Switzerland, it currently takes 1.4 billion cubic meters of water per year to flush solids to the sewage treatment plant. This is not sustainable.

TIME TO RETHINK OUR WASTEWATER MANAGEMENT.

LEFT SEPARATES WHAT SHOULD BE SEPARATED.

OUR VISION

LEFT's approach is simple: We ensure that solids do not get into the sewer system in the first place. This results in massive cost savings and is significantly more sustainable, hygienic and future-proof for our growing population.

LEFT:
SUSTAINABLE INFRASTRUCTURE SOLUTION FOR THE NEXT GENERATION

LEFT DOES IT RIGHT.

THE PLAN

LEFT separates solids from the wastewater at every flush. Solids are packed into biodegradable bags and passed on to the sewage treatment plants already in place.

LEFT CHECKS ALL THE FOLLOWING REQUIREMENTS:

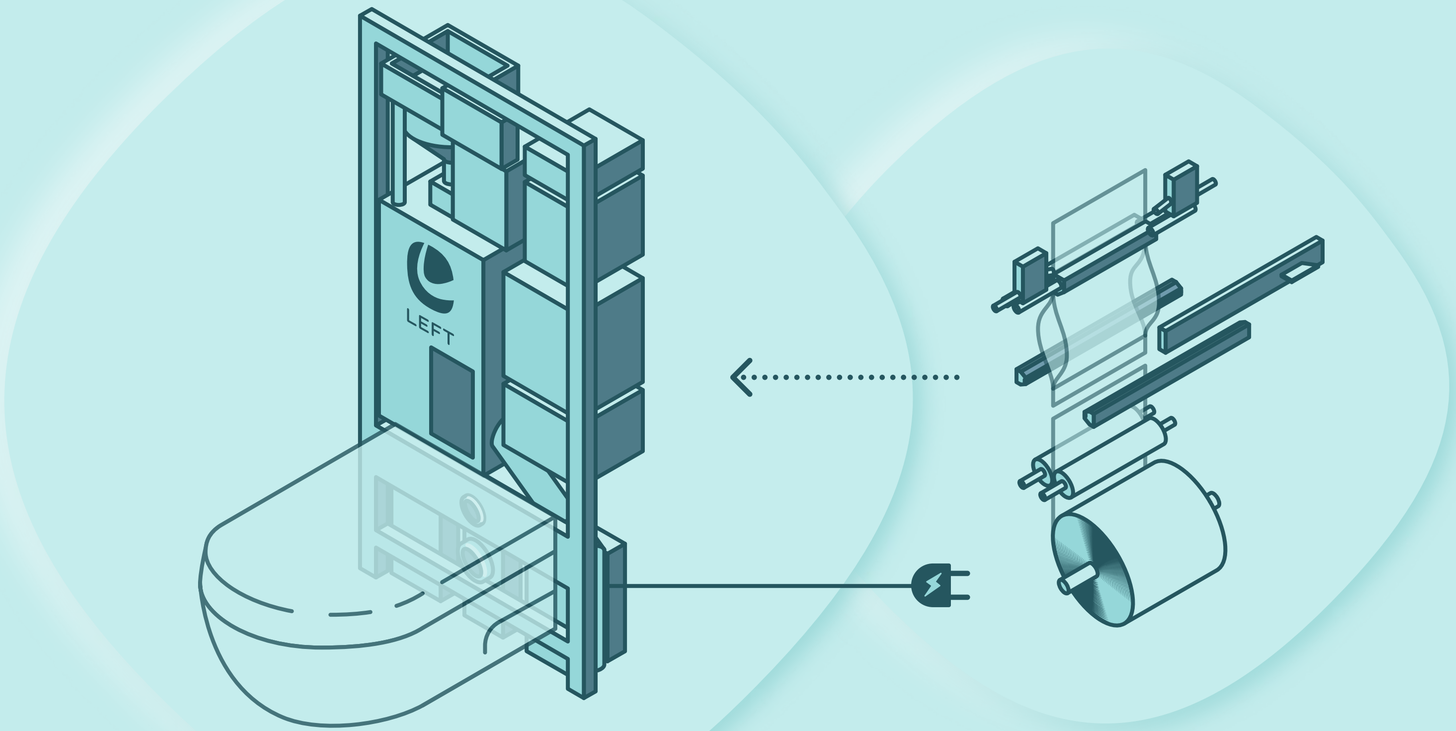
- Shorted water cycles
- Reducing fresh water waste
- Early separation of partial wastewater flows
- Recovery of energy, process water and other recyclable materials
- Use of standard toilet infrastructure systems
- No additional maintenance and operating costs
- Easy to use
- No contact with solids
- No odor emissions

TOILET TANK OUTSIDE. HIGH-TECH INSIDE.

The technology of the LEFT system is complex. But with a creative and innovative mindset, we were able to simplify it:

The LEFT system is located directly in the back wall of the toilet, in an easily accessible installation frame.
Our system automatically packs all solids into watertight floating bags. The bags are discharged into the sewer system or a local depot.
The LEFT system requires water and electrical energy.
Bags are restocked regularly.
The built-in web server enables easy remote diagnostics and maintenance.

The LEFT system can also be integrated into mobile systems lacking their own drainage system.



HOW TO TURN SOLIDS INTO A SOLID INVESTMENT?

01

We've developed and patented a system that is kind to our planet and to our recourses.

Science institutions like EAWAG/ETH have long advocated for new decentralized disposal solutions that recycle solids in a closed-loop economy.

02

We create initial technical system designs and refine them with leading engineering partners.

03

We're looking for investors and industry partners to help bring LEFT into homes around the globe.

Central Business Name Index Switzerland

"The purpose of the company LEFT is the development of sustainable waste disposal solutions in the building services sector - specifically in the wastewater sector, as well as the registration, utilization, holding and administration of patents, trademarks and copyrights. Furthermore, the company may acquire, hold, sell and grant patents, copyrights, trademarks and other intellectual property rights as well as licenses of all kinds."

THE SAVINGS AND EARNINGS POTENTIAL IS HUGE

TARGET GROUPS

- Conventional toilet facilities
- Areas without sewerage systems
- Crisis areas & refugee camps
- Self-sufficient infrastructure, e.g. SAC (Swiss Alpine Club) huts

MARKET SIZE

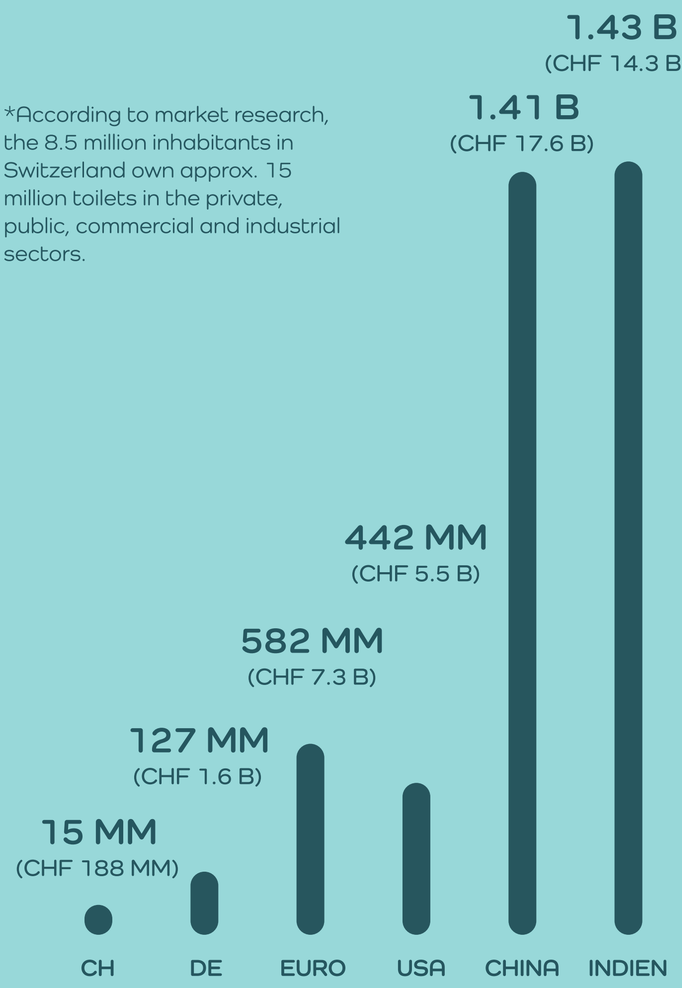
- There's a huge market for a forward-thinking solution like the LEFT system.
- The cost of managing sewers and sewage treatment plants throughout Switzerland is estimated at CHF 2.5 billion per year. The LEFT system drastically reduces this expenditure.
- Worldwide, 2.5 billion people do not own a toilet. LEFT reduces investments in sewage pipes and wastewater treatment plants for traditional systems, and largely eliminates them for mobile systems.

REVENUE POTENTIAL: BY EXAMPLE OF SWITZERLAND

Assuming that 0.5 % of toilets* in operation will use the LEFT system, this results in a revenue potential of CHF 188 million at a unit price of CHF 2,500 in Switzerland.

NUMBER OF TOILETS (SALES POTENTIAL IN CHF)

*According to market research, the 8.5 million inhabitants in Switzerland own approx. 15 million toilets in the private, public, commercial and industrial sectors.



HOW TO MAKE LEFT BAGS PROFITABLE

Feces contain nitrogen, phosphorus and potassium, and can be sold for profit as fertilizer - or as fuel, respectively, for energy production.

ADDITIONAL POTENTIAL SUBSIDIES

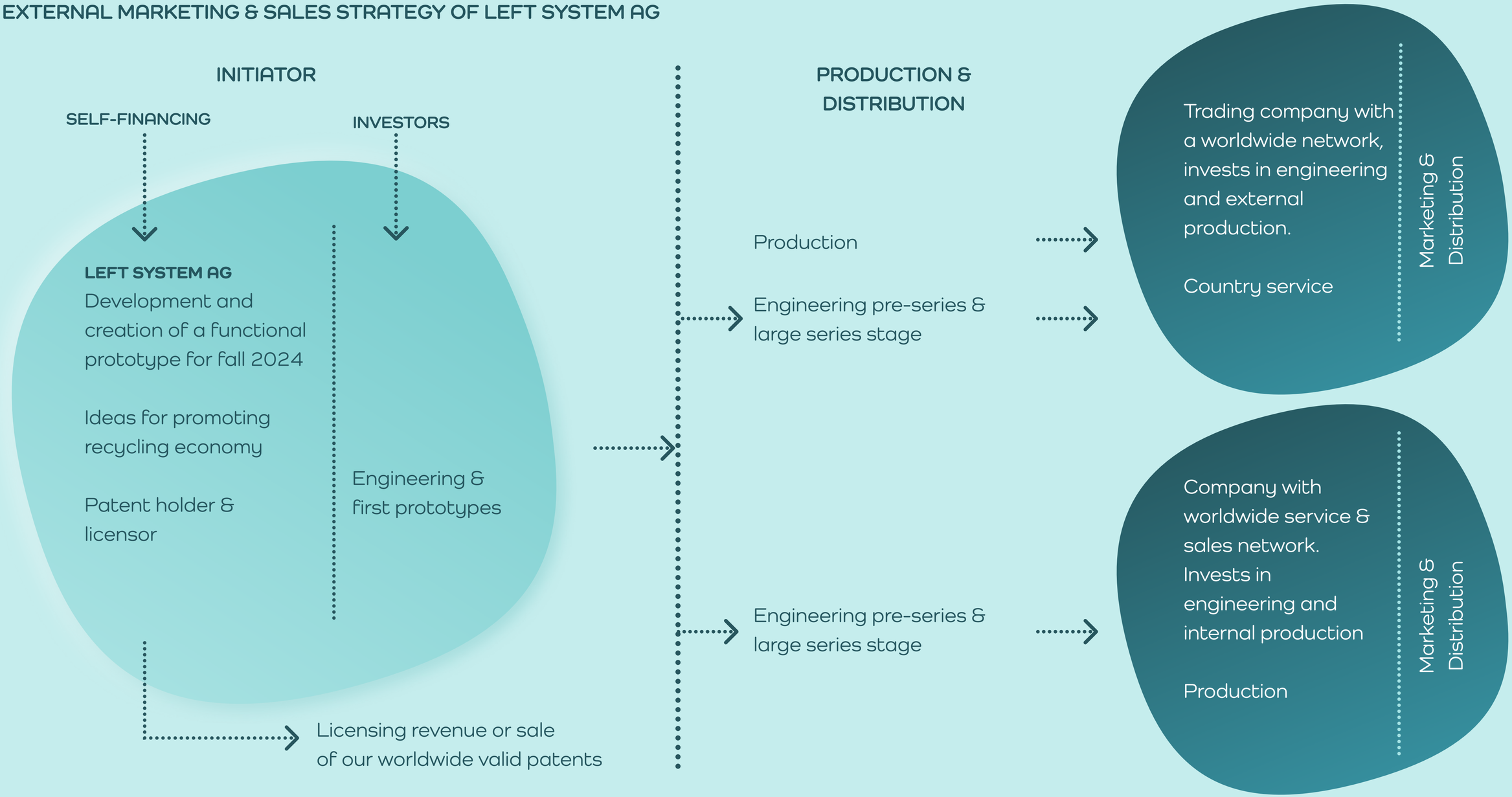
Wastewater treatment plants save costs while using the LEFT system. These savings flow back to the consumers in the form of subsidies, thus creating further incentives.
The public sector can set the general conditions - just like it does for water and electricity meters.

WHO BENEFITS?

State and taxpayers
Processors of recycled materials
Areas with little infrastructure
Disaster areas
Site planners

HOW DO WE CHANNEL THIS? MARKETING & SALES:

EXTERNAL MARKETING & SALES STRATEGY OF LEFT SYSTEM AG

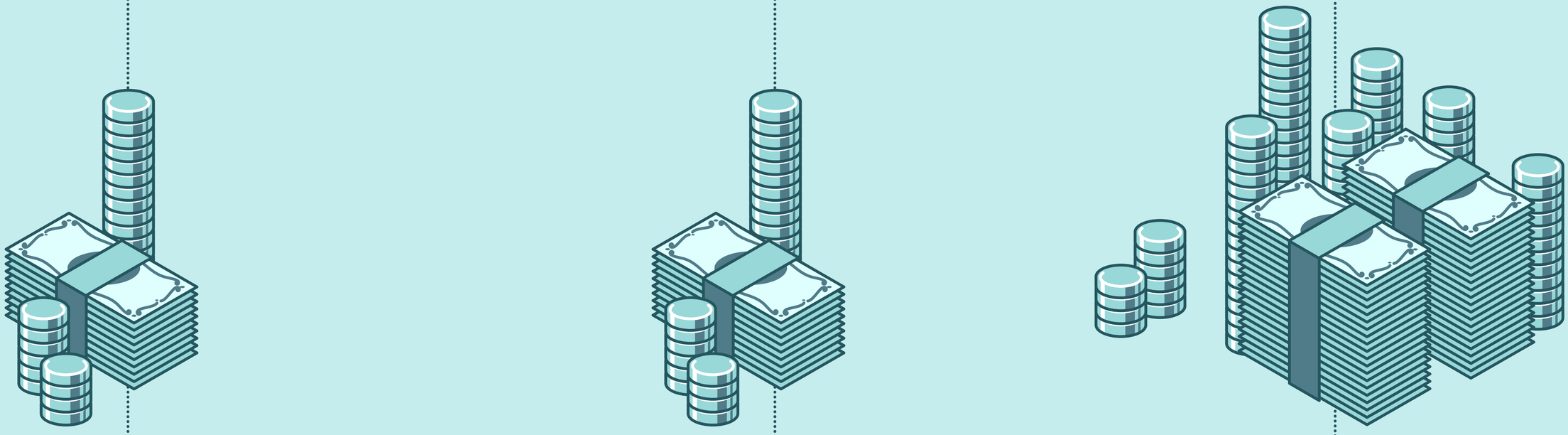


WHAT ABOUT LIQUID ASSETS?

CHF 250,000
SELF-FINANCING BY LEFT SYSTEM AG
2021 - 2024

CHF 300,000
SELF-FINANCING BY LEFT SYSTEM AG FOR THE IMPLEMENTATION OF THE FUNCTIONAL PROTOTYPE

CHF 2.5 MM
FUNDING NEEDED FOR BUILDING THE FIRST WORKING PROTOTYPES



2021

2024

2026

FROM TENNIS BALL TO SOLIDS COLLECTION BAG.

In 2011, Bill Gates launched a competition for the circular economy in toilet facilities. The topic has fascinated us ever since.
Markus Koller later had his eureka moment when holding his tennis racket: he realized that the size and shape of a tennis ball would be the ideal packaging unit for waste disposal. This led to the creation of the solids collection bag.

WE COINED IT:
ADVANTAGE LEFT.

Markus Koller
CEO
The father of the LEFT system

Walter M. Gloor
CTO
Dipl. Electrical Engineer ETH

ROADMAP

TODAY

2,600 to 1,800 BC.
The first known sewer system was used in what is now known as Pakistan

1856
The first modern sewer system on the European mainland was built in Hamburg in 1856

2010
Call from the Bill Gates Foundation to develop eco-friendly toilet facilities

2021
LEFT System AG files for a Swiss patent on the process of separating and encapsulating solids in toilets (Nov. 15, 2021)

2022/23
Talks with EAWAG (Aquatic Research Institute)/ETH, feasibility study by HELBLING AG, UNI Munich, initial contacts with investors

2024
MARENCO AG creates a functional prototype

May 2024
LEFT System AG applies for international patent

2025
Final theses on the implementation of the functional prototype

2026/27
Realization of the first working prototypes

2028
Rollout on the Swiss market

2030
Rollout on the European market

YOUR INVESTMENT COMPLETES THE CYCLE.

The current wastewater system is ecologically and economically unsustainable. It is running at its limits and wasting valuable resources.

With LEFT, we have developed a completely new model to turn the market upside down. We focus on the decentralized separation of solids, which significantly reduces the strain on sewers and sewage treatment plants.

Even with very conservative calculations (penetration of 0.5 %), the market potential is very promising.

Entrepreneurs Markus Koller and Walter Gloor are already in the middle of implementing a functional prototype that will serve as the basis for the working prototype, which should be ready in 2025.

Two rounds of financing are planned:
Phase 1 in 2024 > Functional prototype > CHF 300,000.
Phase 2 in 2026 > First working prototypes > CHF 2,500,000

WANT TO MAKE THE WASTEWATER SYSTEM SUSTAINABLE FOR FUTURE GENERATIONS, AND TAP INTO BIG BUSINESS POTENTIAL?

LET'S TALK!

FUNCTIONAL PROTOTYPE Fall 2024

GET IN TOUCH!

THE JOURNEY IS WORTH IT—
JOIN US! WE'RE COUNTING ON
YOUR SUPPORT.

GO
LEFT,
ACT
RIGHT.

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