



Drinking water

Perpetuum mobile „air“!

steps to healthy future
by **HuProTec** Innovations



„All people, no matter where, should have fresh drinking water.

HuProTec Innovation is the KEY.”

— NORBERT LANGE, INVENTOR/CTO —

EXECUTIVE SUMMARY

Produce drinking water from ambient air using decentralised, self-sufficient systems.

Our vision

Every person should have easy access to fresh drinking water.

Our mission

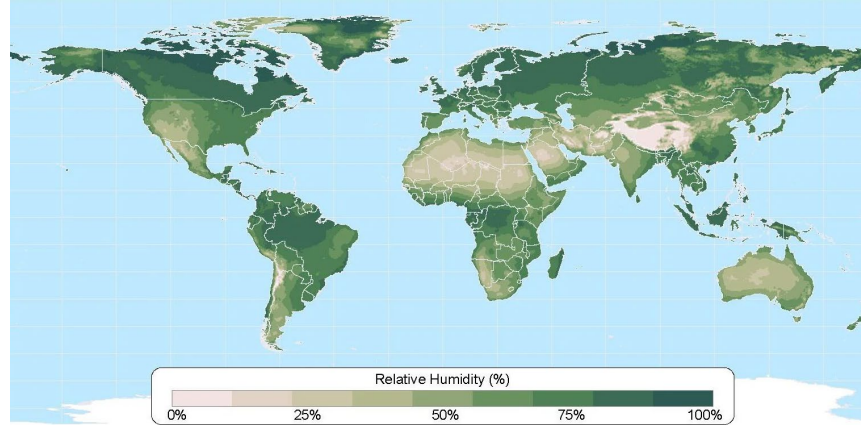
The system is powered by solar energy through the **groundbreaking high-performance energy supply**.

This produces drinking water through a dynamic condensation process.
Independent of fixed power connections.
Independent of location. **Self-sufficient.**

How much fresh Swiss mountain spring water do you need?

WHAT PROBLEM

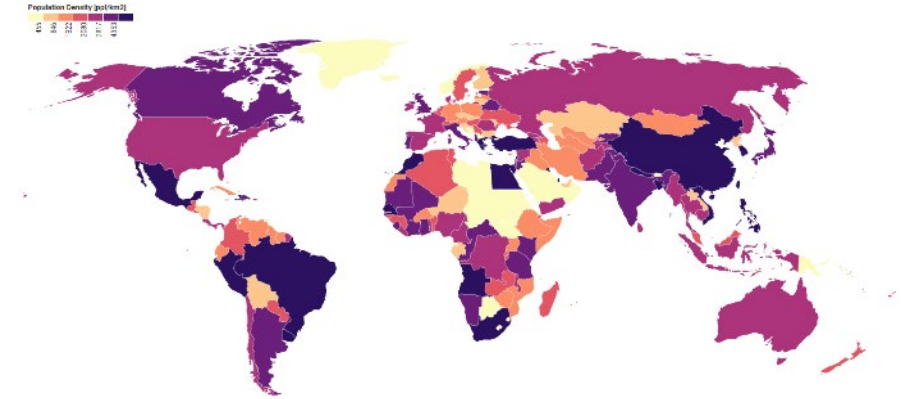
Worldwide, the water shortage is getting worse; in parts of the world it is already so severe that people are suffering heavily.



Relative Humidity

The higher the humidity of the air, the more productive the system is in extracting water.

30% air humidity is the break-even point in terms of cost/benefit.



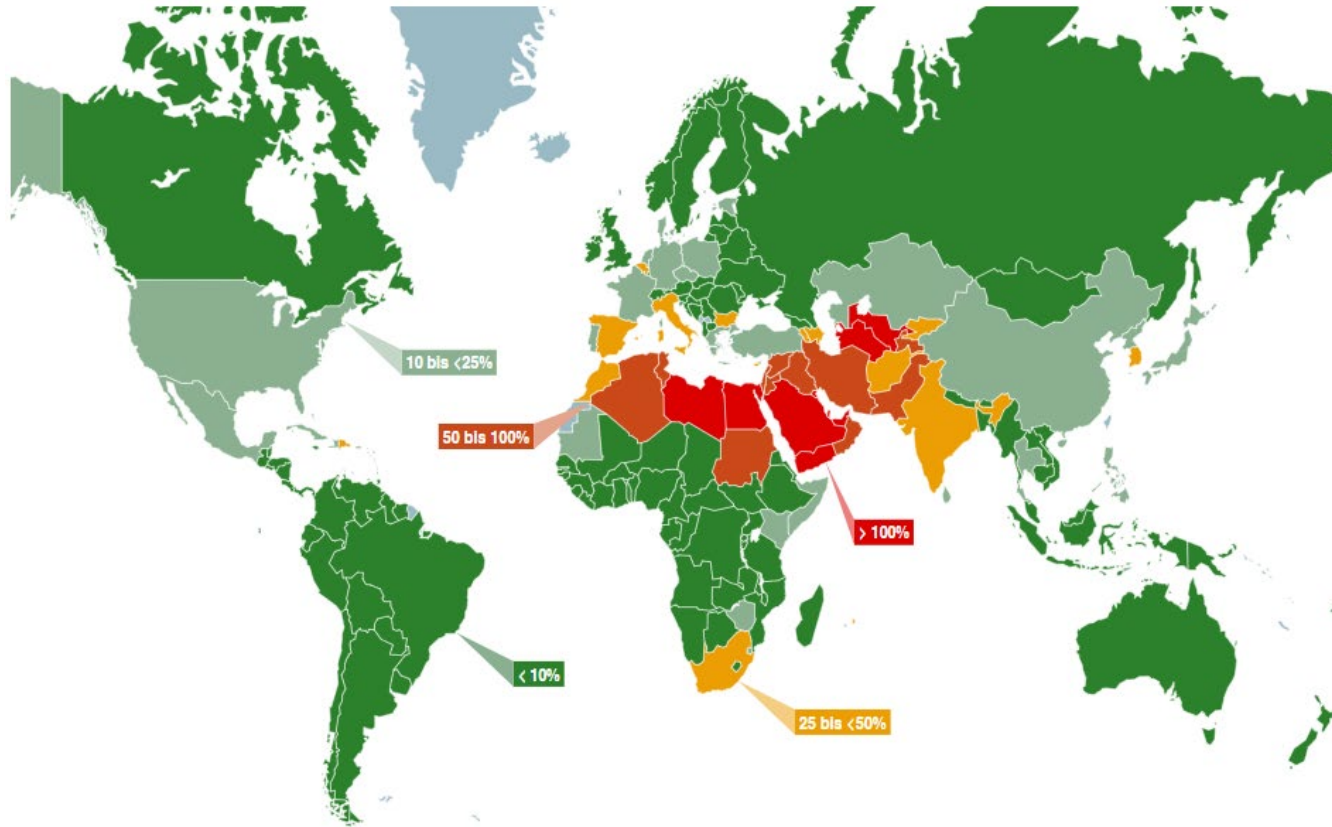
Relative Population density

It is striking that there are fewer and fewer areas where only few people live.

This is related to the fact that the Earth's population is growing unrestrained.

HOW BIG PROBLEM

Worldwide, water consumption is increasing to such an extent that in almost 180 countries more water is consumed than nature regenerates.



Share of annual freshwater withdrawals in renewing water resources in percent (as of 2016)

Worldwide, about 4,000 km³ of fresh water is withdrawn annually. About 70 per cent of this is used in the agricultural sector, 20 per cent in industry and 10 per cent at the municipal level.

Global water consumption increased about sixfold between 1930 and 2000. This was due to the tripling of the world population and the doubling of the average water consumption per capita. Currently, India (19 per cent), China (15 per cent) and the USA (12 per cent) alone account for almost half of the world's water withdrawal. According to the FAO, in ten out of 178 countries, annual freshwater withdrawals exceed renewing water resources. Kuwait ranks first, followed by the United Arab Emirates and Saudi Arabia. In addition to water treatment, these and other states have to cover a very high proportion of their water supply, in some cases, through groundwater resources.

WHY

FACT

More and more people need more and more water

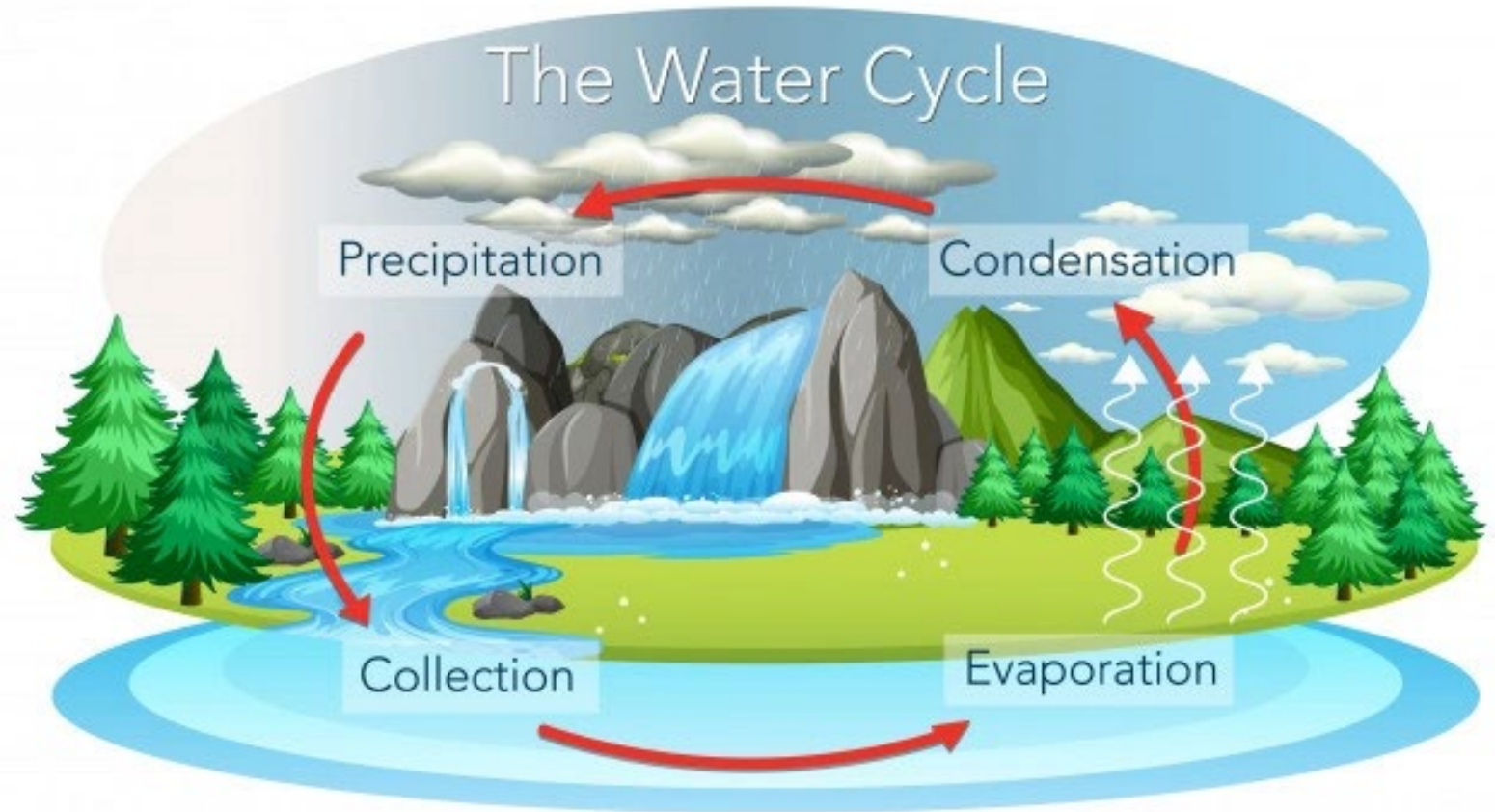
The corresponding freshwater is taken from the water bodies. Because this is not enough, more and more groundwater is pumped to the surface. This causes the groundwater level to fall steadily, and the earth's surface dries out.

WHY WATER CYCLE

By extracting water from the ambient air, the groundwater is conserved. The air humidity regenerates in the natural water cycle.

The Water Cycle

Only when the earth's surface is intact and moisture is formed does the control loop function.



HOW

The **AtmoCon** is a systemic image of the water cycle. Completely **AUTARK**.



Using solar energy, the system can be operated **self-sufficiently** with direct current thanks to the High-Performance-Tec module. As a result, water is extracted in the condensation process and treated as **spring-fresh** drinking water.

Pic: **AtmoCon-50** (**Atmo**sphere-**Con**verter for 50+ L/day):
35-50L spring-fresh mountain water per day (in use since 2018)

1

Solar energy with High-Performance-Tec Module

USP

- Autonomous energy source directly in the unit
- Operated in direct current
- Rechargeable high-performance batteries in continuous use



2

Condensation with High-Performance-Tec Module

USP

- Air supply and exhaust controllable
- Water filtration system
- Drinking water tank with valve



An aerial, isometric view of a desert settlement. The settlement is composed of numerous rectangular, multi-story buildings with flat roofs, arranged around a central courtyard. The courtyard has a checkered tile pattern. The surrounding area is sandy with scattered palm trees and small shrubs. A road or path runs along the top left edge of the settlement. The overall scene is brightly lit, suggesting a sunny day.

3

Water supply
for entire settlements

AUTARK

No supply lines for energy, maintenance-free, modular design, produces water continuously.

Spring-fresh Swiss mountain water. For this settlement. For the whole world.

4

Acon City platform

AUTARK

60 Acon modules form the Acon City platform. This produces around 60,000 litres of spring-fresh Swiss mountain water per day

With 3 litres of water per person, around 20,000 people can be supplied with drinking water every day.

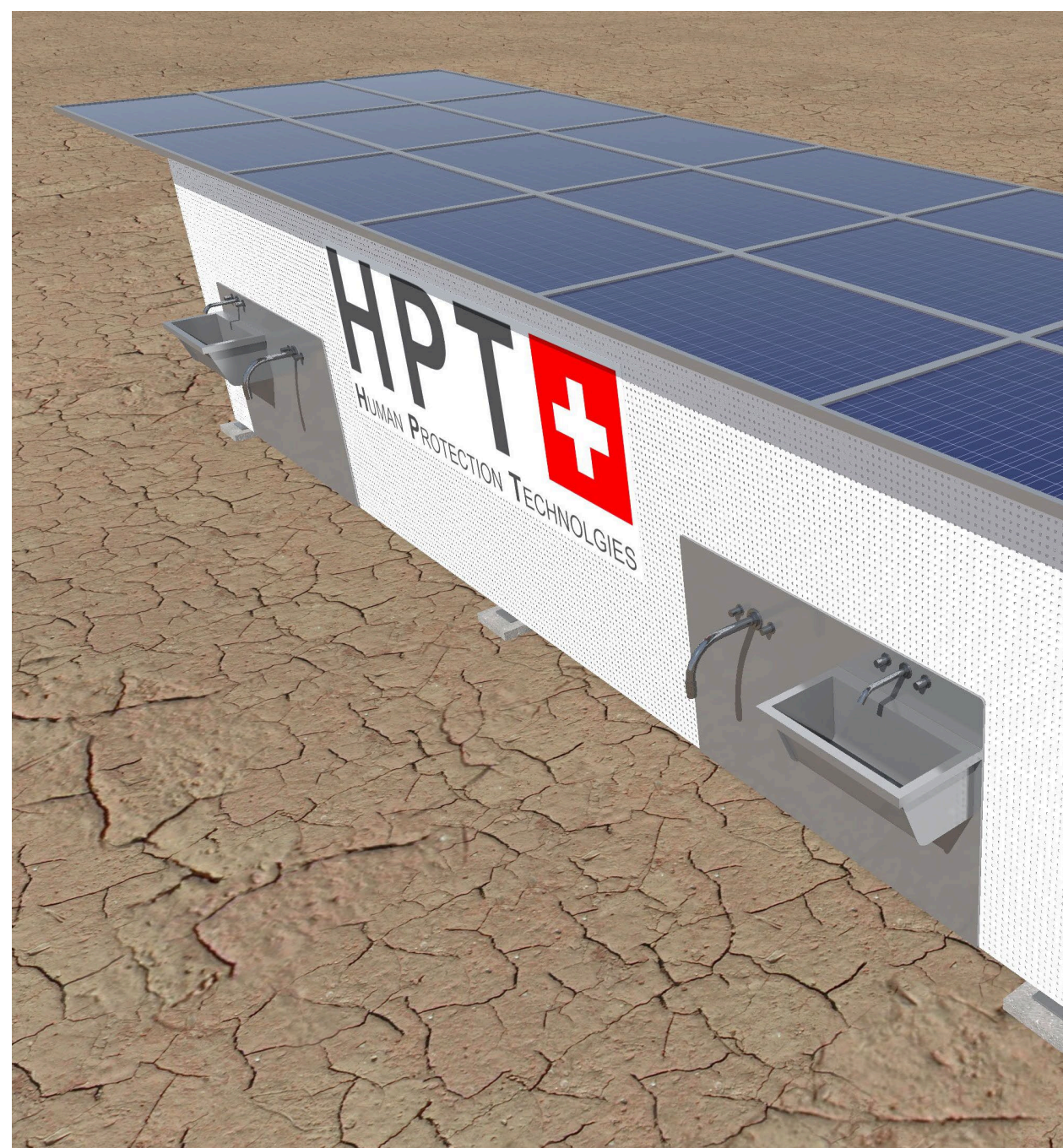


5

Technology easy to manage

SERVICE

- The technology is modular
- Plug & play modules
- Service providers in the country (planned)

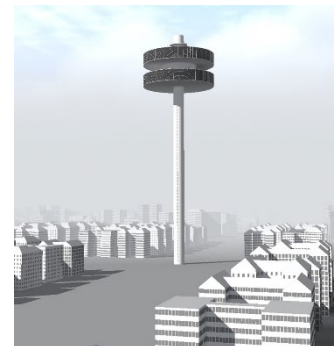
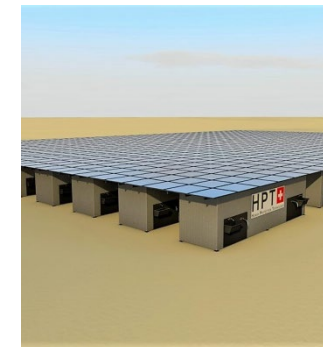
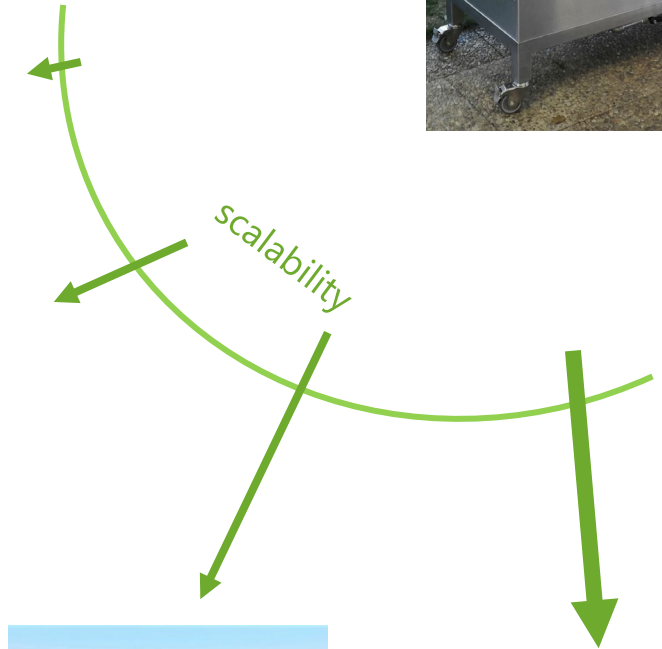
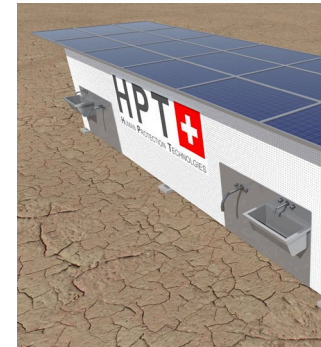


6

Technology platform

VARIATION

- Technology is scalable
- Volume from 3+ until 150'000+ L water
- Can be integrated into existing infrastructure



7

Water price significantly
below bottled water

AFFORDABLE

- Payable/affordable water price
- No waste
- Environmentally friendly



8

IPRs

KNOW-HOW

- Inventor contributes entire know-how
- All IPR's owned by HuProTec
- Inventor is integrated into structure



HOW MARKET

In order to be able to meet the world's drinkwater needs, approx. 25 billion litres of water would have to be used. Only for humans.

- **In order to cover the drinking water demand, around 10 million machines (1000L+) would have to be available.**
- **With a water consumption per capita/year (households) of about 1'400 m³ (1'400'000L), only 0.1% is used as drinking water.**
- **Households consume about 10% of the world's water; the rest is used by industry, agriculture/livestock and public institutions (about 119,000 billion litres of water).**
- **To cover the world's entire water demand, around 100 billion machines (1000L+) would have to be available**

TEAM WHO

The power, experience as well as the network of relationships of a management team is the key to success

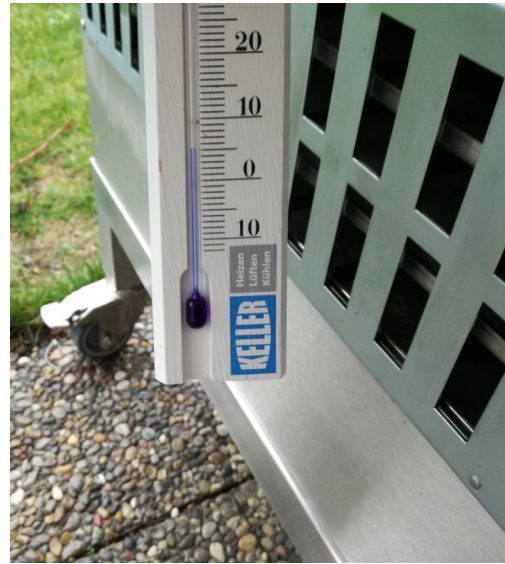
Board of Directors

President: Entrepreneur out of the water sector (No.1 intl. Company); Enabler, Strategist, intl. Expertises
VP: Entrepreneur out of the strategy consulting sector (intl. Company); Enabler, Strategist, intl. Expertises
Member: Entrepreneur, Inventor out of the engineering sector (intl. Company); Engineer, intl. Expertises
Member: Entrepreneur out of the strategy consulting sector (intl. Company); Enabler, Strategist, intl. Expertises

Management

CEO: Entrepreneur out of the strategy consulting sector (intl. Company); Enabler, Strategist, intl. Expertises
CTO: Entrepreneur, Inventor out of the engineering sector (intl. Company); Engineer, intl. Expertises
CPO: Entrepreneur out of the production sector (intl. Company); Engineer, intl. Expertises

INVENTION



Closed, self-sufficient system that uses a high-performance technology process to extract Swiss mountain spring water quality from the humidity in the air.

GOT IT

Produce drinking water from ambient air using decentralised, self-sufficient systems.

Winning points

- Solar energy (no power supply needed)
- High-performance technology energy management (low DC)
- High-performance technology condensation process (air cooling)
- High-performance technology filtering process (air & water filter system)
- Supply and exhaust air management
- Cooled water tank with tap
- 1 L produced water costs significantly less than 1 L bottled water
- Fullfills SDG as well as ESG Standards

Perpetum mobile “water extraction”
How much fresh Swiss mountain spring water do you need?



HUMAN HAS A UNIQUE OPPORTUNITY TO PROVIDE
ACCESS TO DRINKING WATER FOR ALL THROUGH
HuProTec INNOVATION.

DECENTRAL. AUTARK. ACCESSIBLE.

—CHRISTIAN M. WINZENRIED, ENTREPRENEUR—

START

PROJECTS

**Now it is up to us to make water
accessible to people.
Let's start. NOW.**

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AtmoCon – your daily drinking water

steps to your healthy future



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