

UPTOWN MUSE LANDSCAPE STUDIO  
presents

# LIFE DROP

How to save water and convert unsuitable lands into oases.

FEBRUARY 2022

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# 01 – PROBLEM

## UNAVAILABILITY OF DRINKING WATER

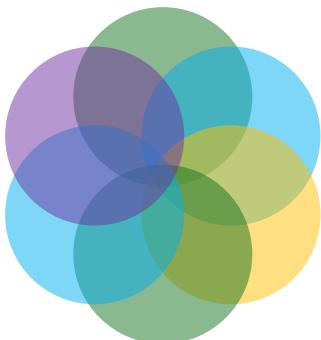
On Earth, 97.5% of the water is salty and contained in the oceans. Only 2.5% is fresh water, On this amount of water:

68.7% are found in glaciers;

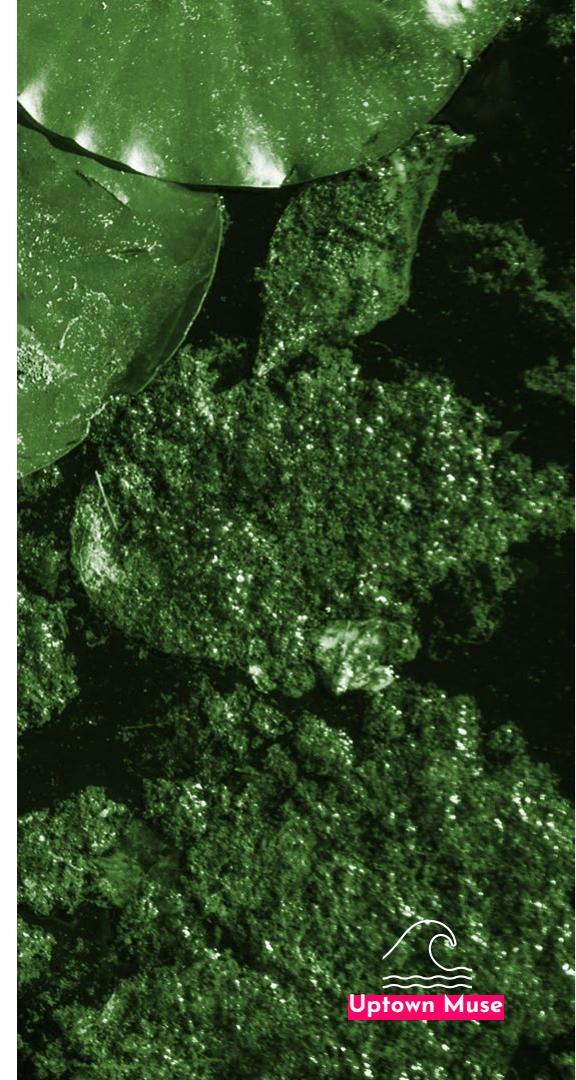
0.8% in permafrost;

30.1% in groundwater;

0.4% on the surface and in the atmosphere.



Eventually, less than 1% of the water on Earth is fresh and liquid.



# PURE WATER LOSS CAUSES



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**POLLUTION**



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**DRAINAGE**

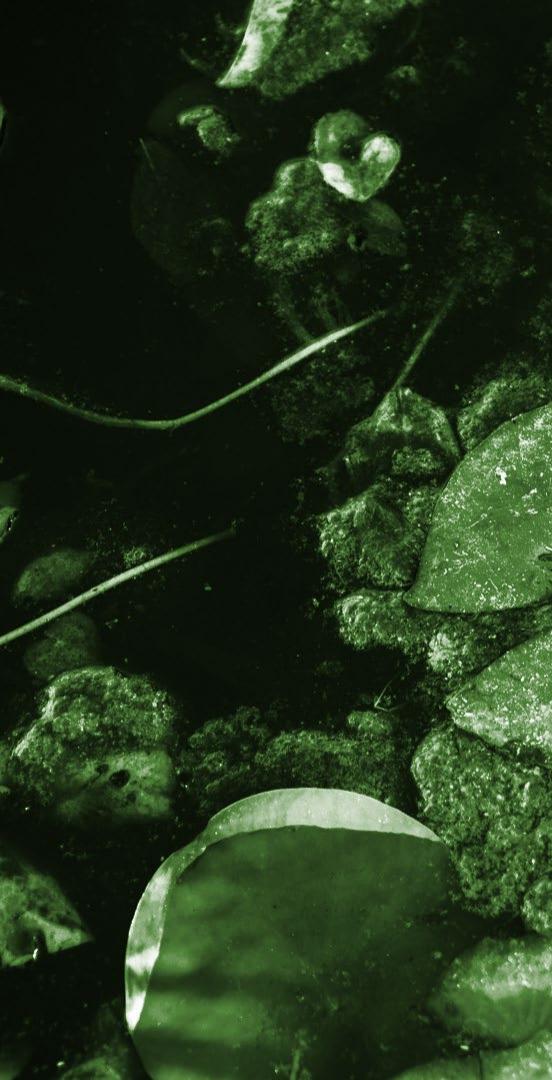


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**LAND REUSE**



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# O2 – SOLUTION

## FROM PLANT TO PLANT

We collect rainwater and/or waste water (polluted), then we use water plants to purify it naturally, then this water can give oxygen and minerals to new plants, within an hydrocultural system.



Our main energy source to feed the system (hydraulics, organic waste recycle, sensors connected to the IoT), is an hybrid system between traditional renewable sources and plants too.



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# HOW THE «LIFE DR<sup>OP</sup>» RUNS?

■ Phytodepuration

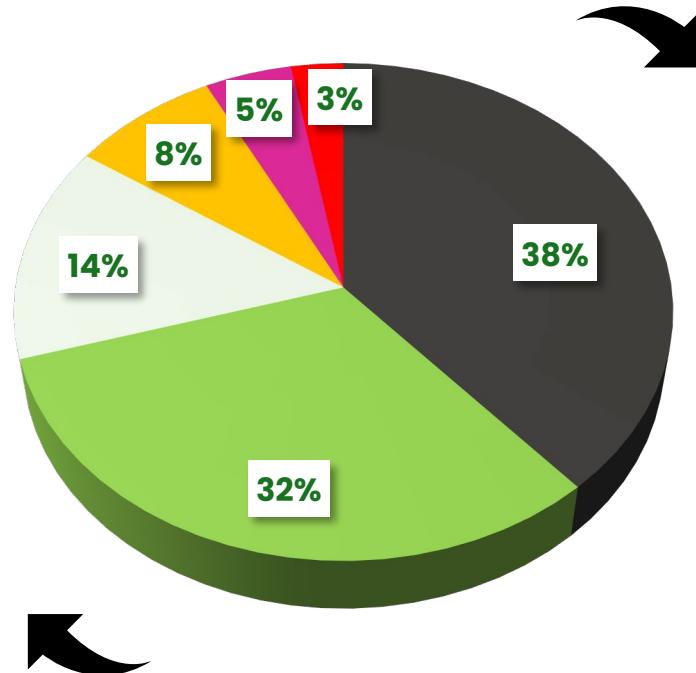
■ Hydroculture

■ Organic Waste Recycle

■ Clean Energy Power

■ IoT

■ Chemical Monitoring



# CALL TO ACTION

## GIVE A NEW LIFECYCLE TO WASTED WATER!

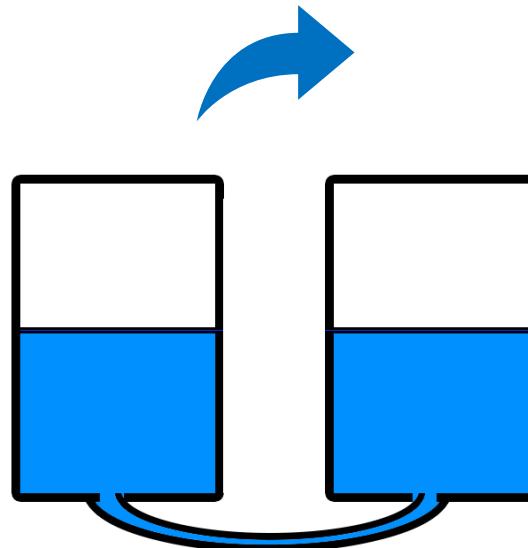


Photo credit © Digital Art/Corbis

# A NEW LIFECYCLE TO WATER



PHYTODEPURATION

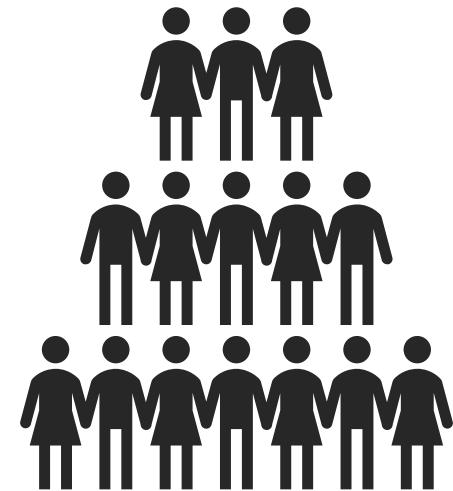
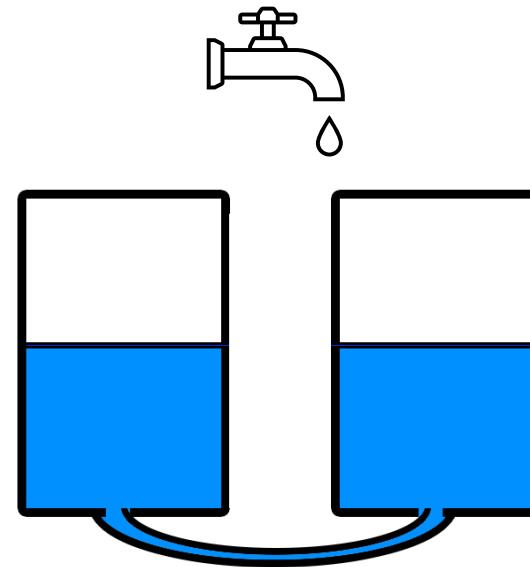
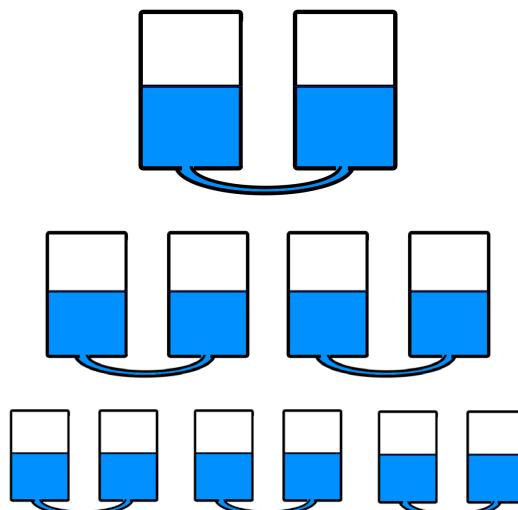


HYDROCULTURES

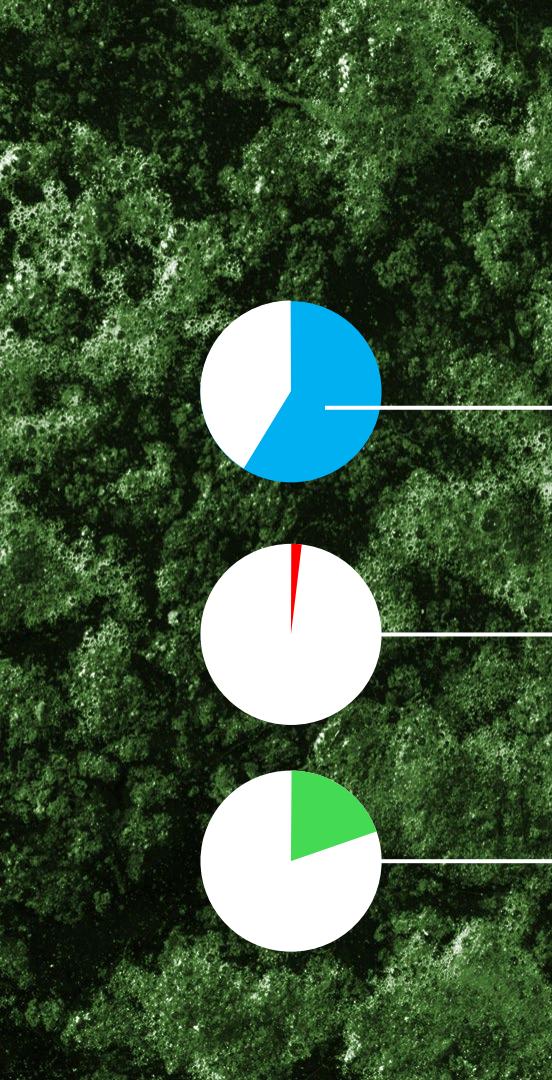


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# MODULARITY AND SCALABILITY



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## COMPARING LIFE DROP TO STANDARD WATER-BASED GREEN SYSTEMS:

**61%**

### SAVED WATER

Unavailable/wasted water is harvested and purified by plants.

**97,4%**

### SAVED SOIL CONSUMPTION

Hydroculture basically requires expanded clay and a piping system for fertigation.

**18%**

### REFORESTATION

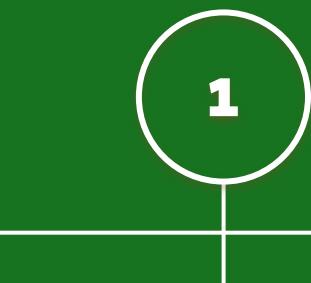
Trees for water. Unlike others anthropic productive activities, Life Drop requires trees planting, causing humidity levels in the air to rise, which will bring rain.



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# WHERE? LIMITLESS APPLICATION

**1**



## SEA & OCEANS

The «Life Drops» can run on board through piping (boats/any floating item) thanks to desalination.

**2**



## DESERTS

The «Life Drops» can run open air, thanks to hydro-genetic system, palms and solar power.

**3**



## CITIES

Reconverting Industrial, Urban and Peri-urban contaminated waters to new life.



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# CONSEQUENCES



## FOR HUMANS

- Today 2,2 MLD people have no safe access to potable water.
- «Life Drop» purifies unavailable precious water (fresh/salty),
- saving it to grow plants and food with very limited soil consumption.



## FOR THE PLANET

- «Life Drop» gives to wasted water a new lifecycle, through natural processes.
- The global footprint tends to zero.
- Limitless application, in extreme contexts (deserts, boats).



WE ARE PROTOTYPING  
A MINIMAL  
“LIFE DROP” UNIT

FEBRUARY 2022





# Garden shell

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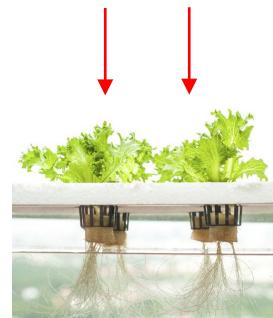
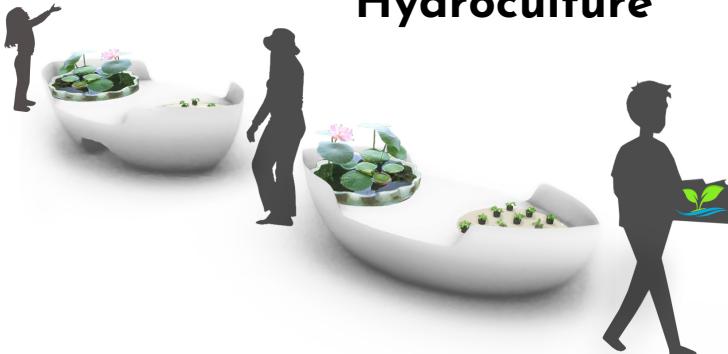


# Garden shell®

Phytodepuration



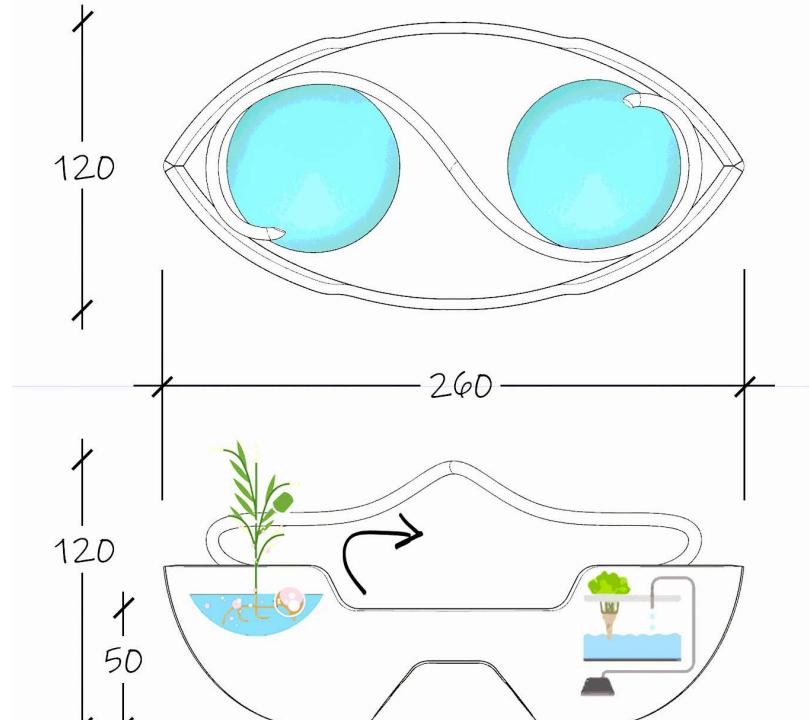
Hydroculture



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Purified water goes into Hydroponics



01

Garden shell

Phytodegradation is supporting agriculture

# A self-powered (iconic) garden boat. Even floating?

The only electricity we need, is powered by the plants, with a registered technology. The system needs an IoT sensors system, and hydraulics, all powered by the plants.

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# The plants

*Nymphaea 'shady lady'*

*Iris pseudacorus*

*Sagittaria platyphylla*

*Elodea canadensis*



Hydrophytes  
(Nymphae)

+

Bulbous and  
rhizomatous

+

Aromatic herbs

+

Seasonal  
Vegetables





**coming soon**

**at Festival del Verde e del Paesaggio**

**Rome, Auditorium Parco della Musica**

**May 13-14-15th 2022**



# Our latest project

## Roof Garden

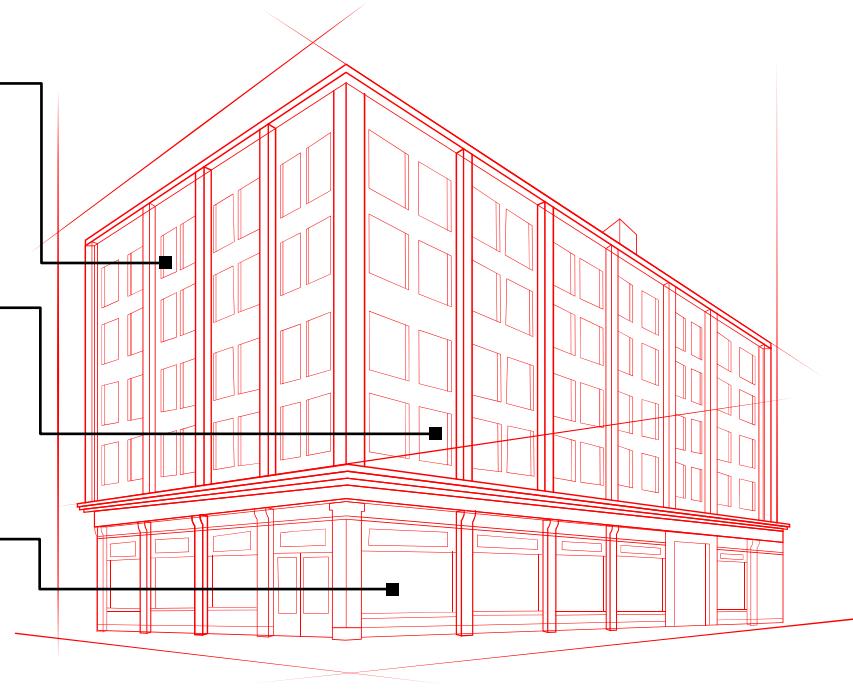
Vertical hydroponics fertilized by organic waste, powered by hybrid **electric-green** generation system.

## Patented Films

Photosynthetic films **growth accelerators** are put on stained glass windows.

## Uptown Mall

Full open windows for new sustainable lifestyles, shared spaces for social needs.





# The Muses

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**Rome.** Designer,  
Landscape Architect,  
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**Monica Rampanti**



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**Filippo Biagetti**



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# THANKS!

Do you have any questions?

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