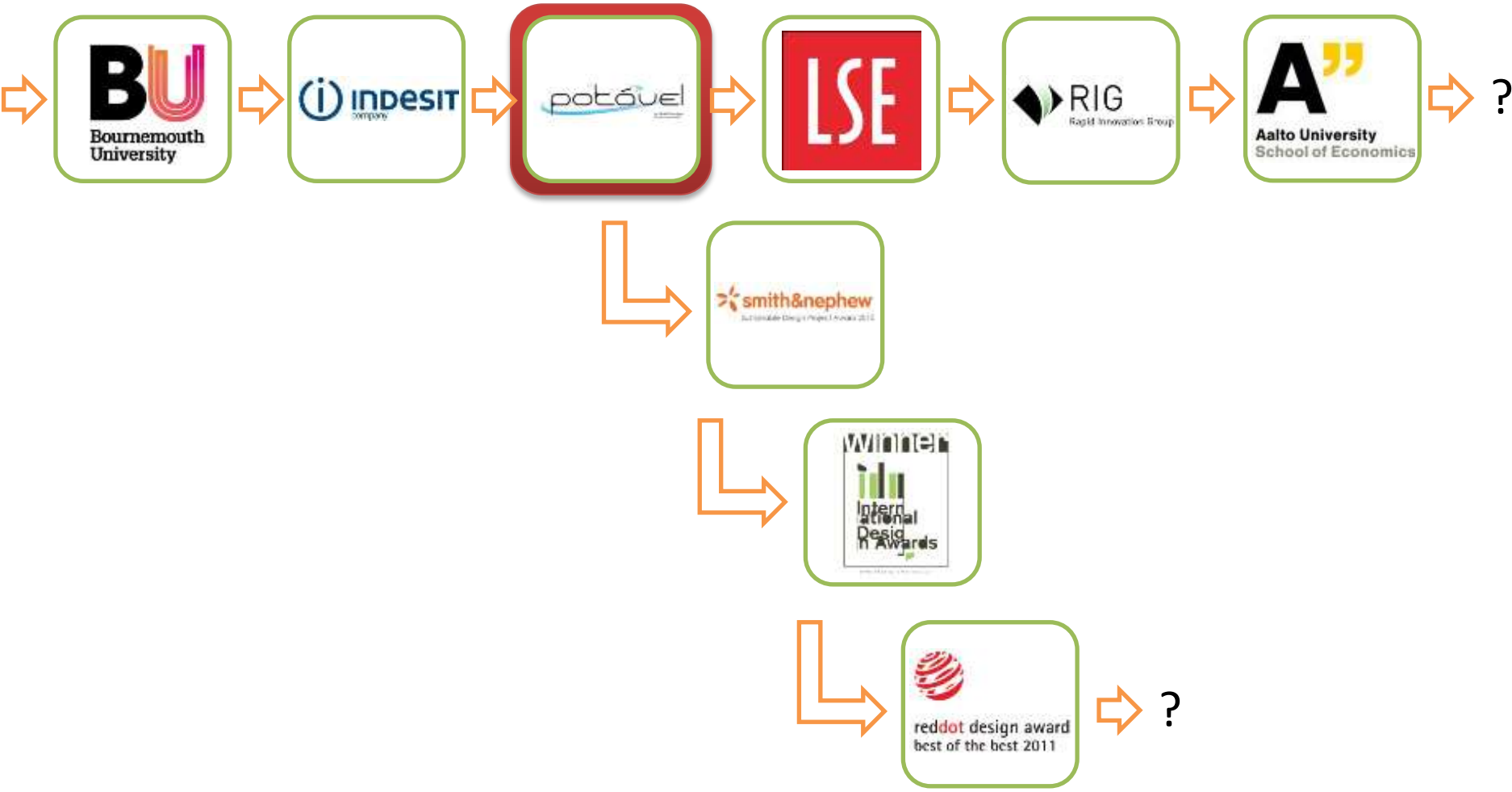


potáuel

by Saltuk Karayalçın  
with special regards to Inovent

# About me





# Problem

1.1 BILLION PEOPLE LACK ACCESS  
TO SAFE DRINKING WATER

# Solution

A SUSTAINABLE, LONG LIFE SPAN,  
EASY TO OPERATE AND EFFECTIVE  
WATER PURIFICATION DEVICE



# What?

KILLS 99.7% OF ALL BACTERIA, VIRUSES AND ALGAE

PURIFIES 50L WATER IN 1 HOUR

MOTION ENABLED UV PURIFICATION MECHANISM

LIFE SPAN OF 10 YEARS

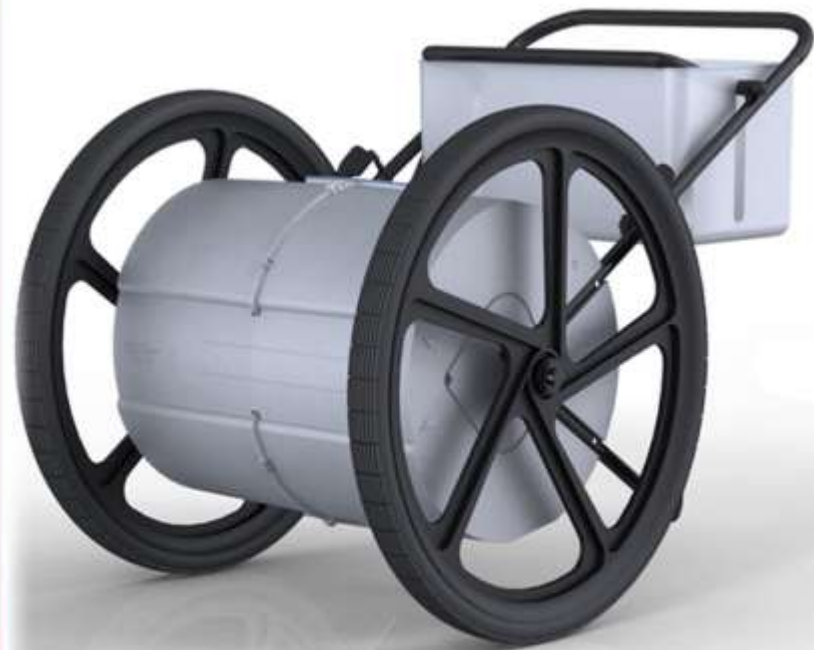
NO ROUTINE MAINTENANCE NEEDED

PATENT APPLICATION PROTECTED

£39.99 PER UNIT

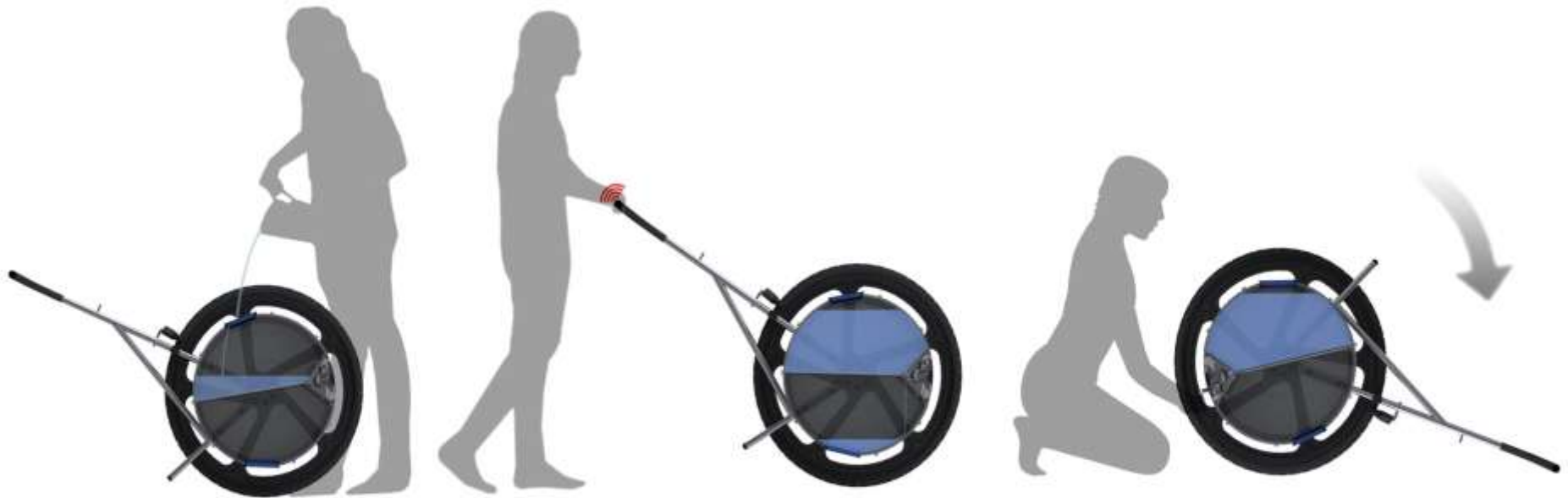
DURABLE TO MISUSE AND WEATHERING

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# How?

3 STAGES



COLLECTION

TRANSPORTATION

DISTRIBUTION

# Video

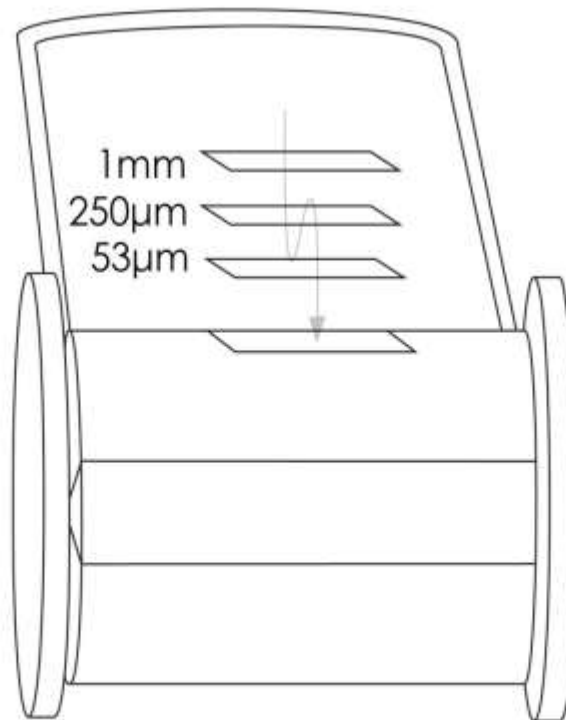
- <http://www.youtube.com/watch?v=gGRnIF60EMA>

# Collection

## STAGE 1

WATER GOES THROUGH THE PRE-FILTERS TO THE DIRTY CHAMBER.

IT NEEDS TO REACH A CERTAIN TRANSPARENCY FOR COMPLETE UV TREATMENT



50L contaminated lake/stream water



1mm mesh filter



250µm zooplankton



53µm phytoplankton

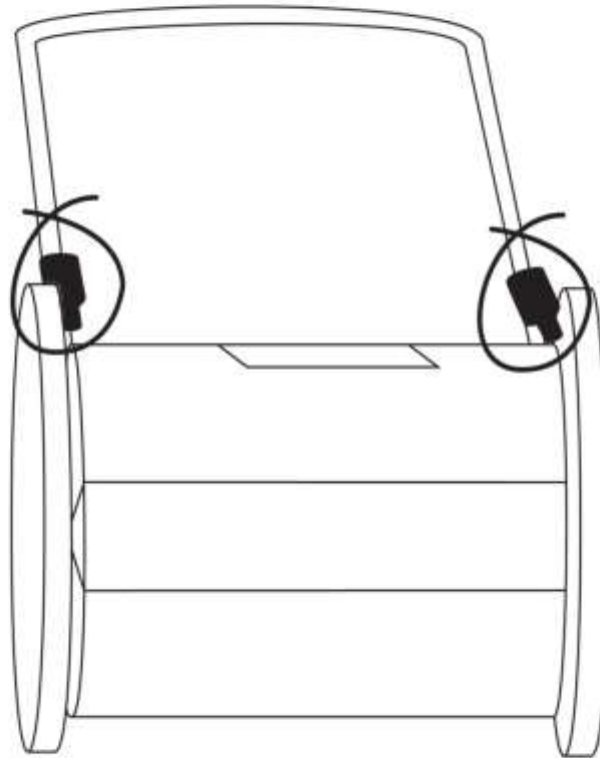


dirty chamber



# Transportation

## STAGE 2

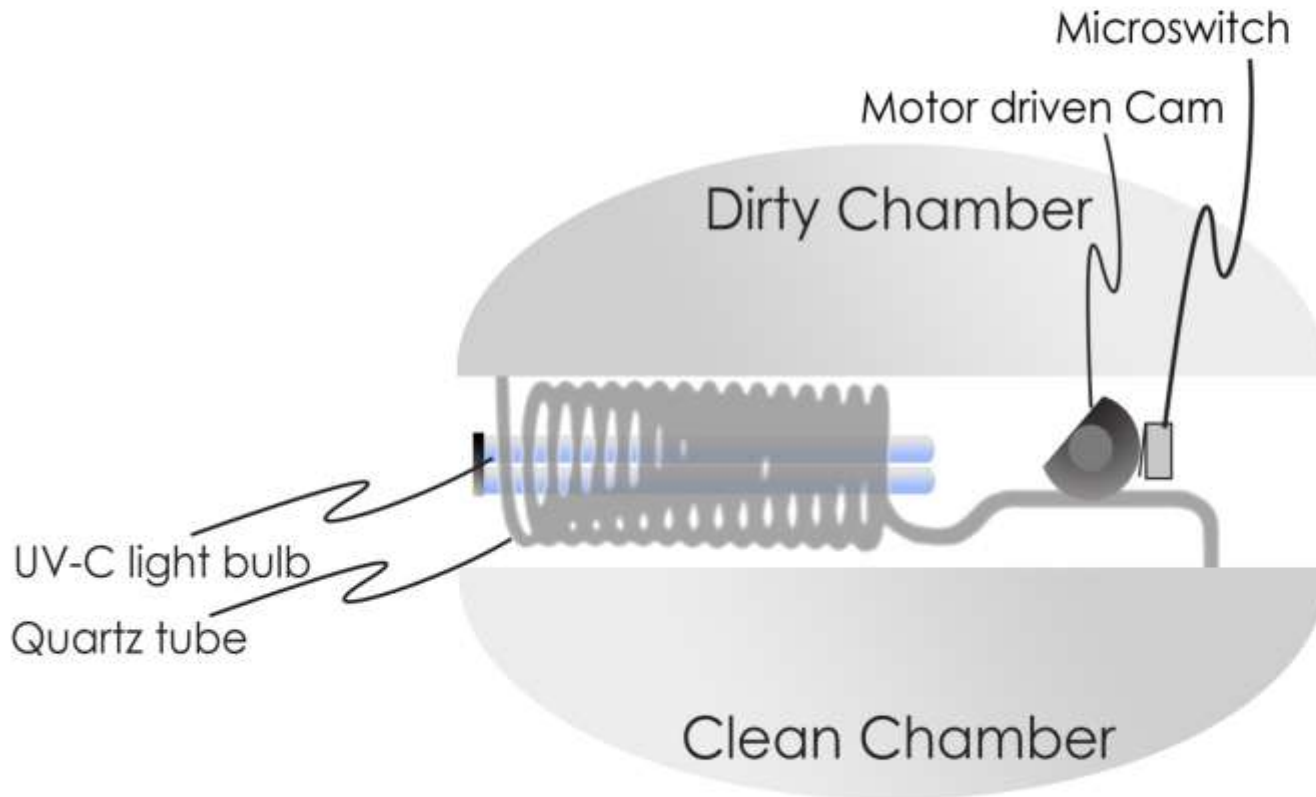


DYNAMOS CONVERT MOTION OF THE WHEELS TO ELECTRICITY.

TOGETHER THEY GENERATE 6 Volts & 6 Watts

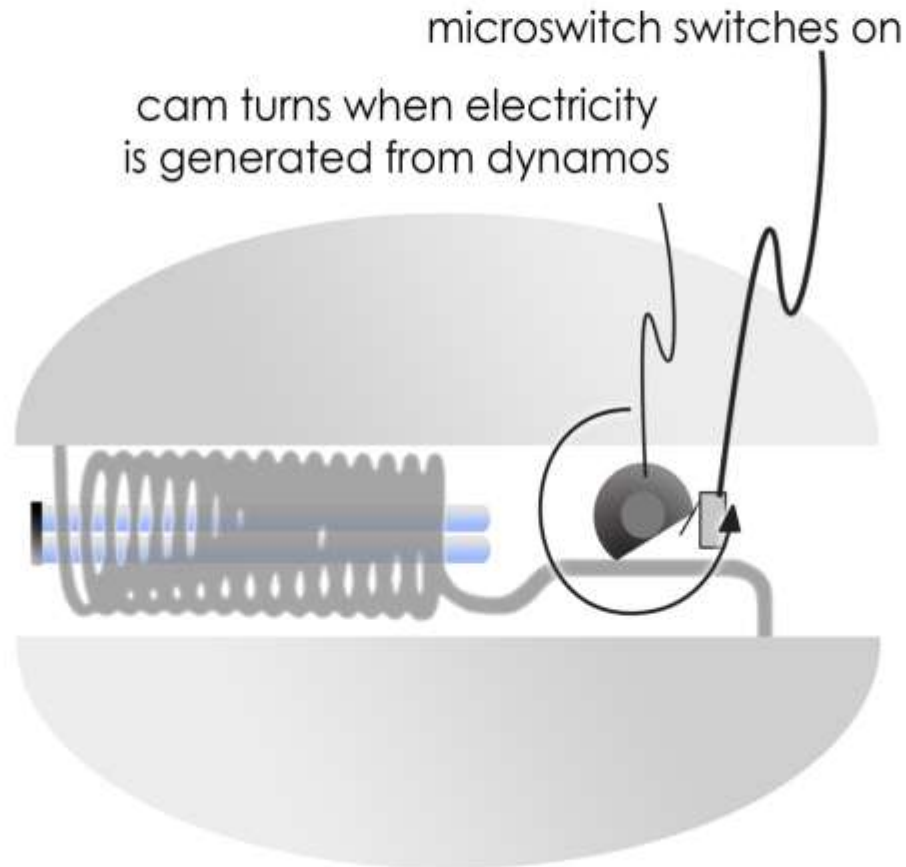
# Transportation

## STAGE 2



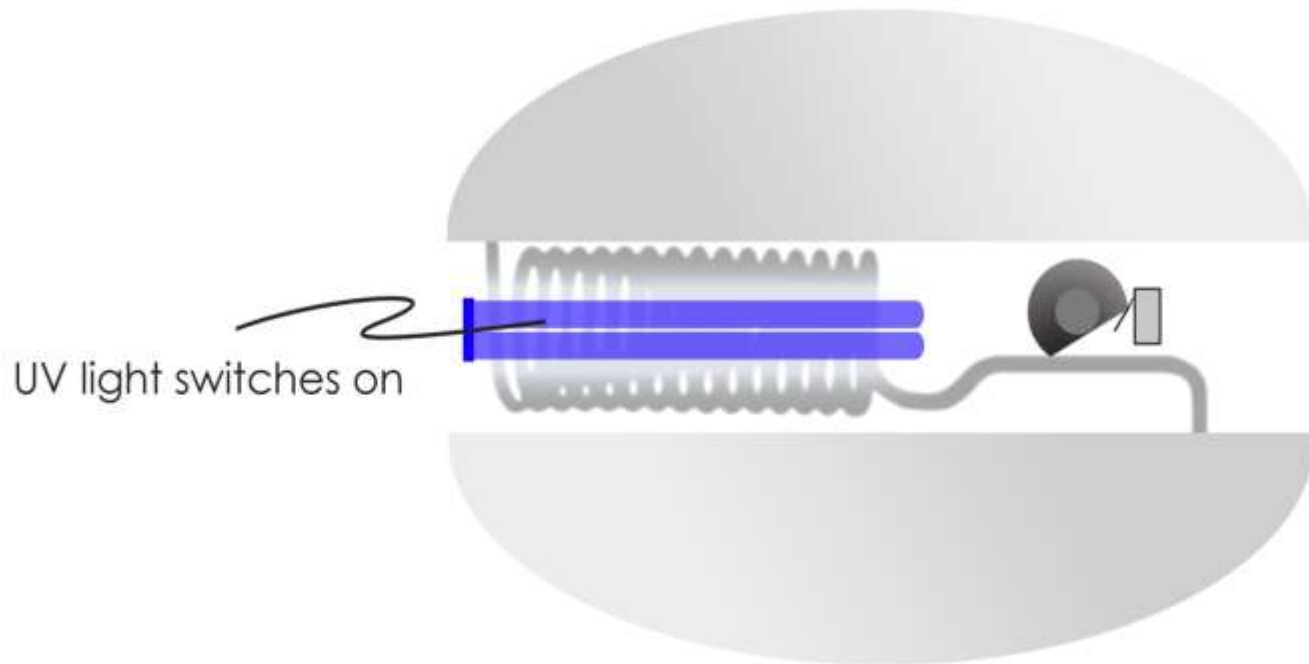
# Transportation

## STAGE 2



# Transportation

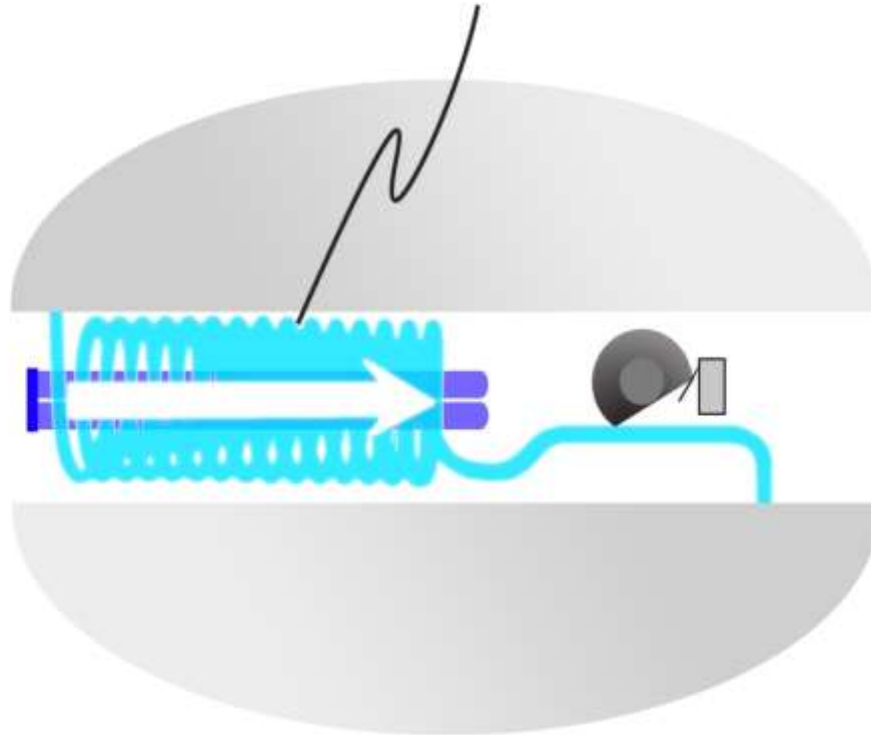
## STAGE 2



# Transportation

## STAGE 2

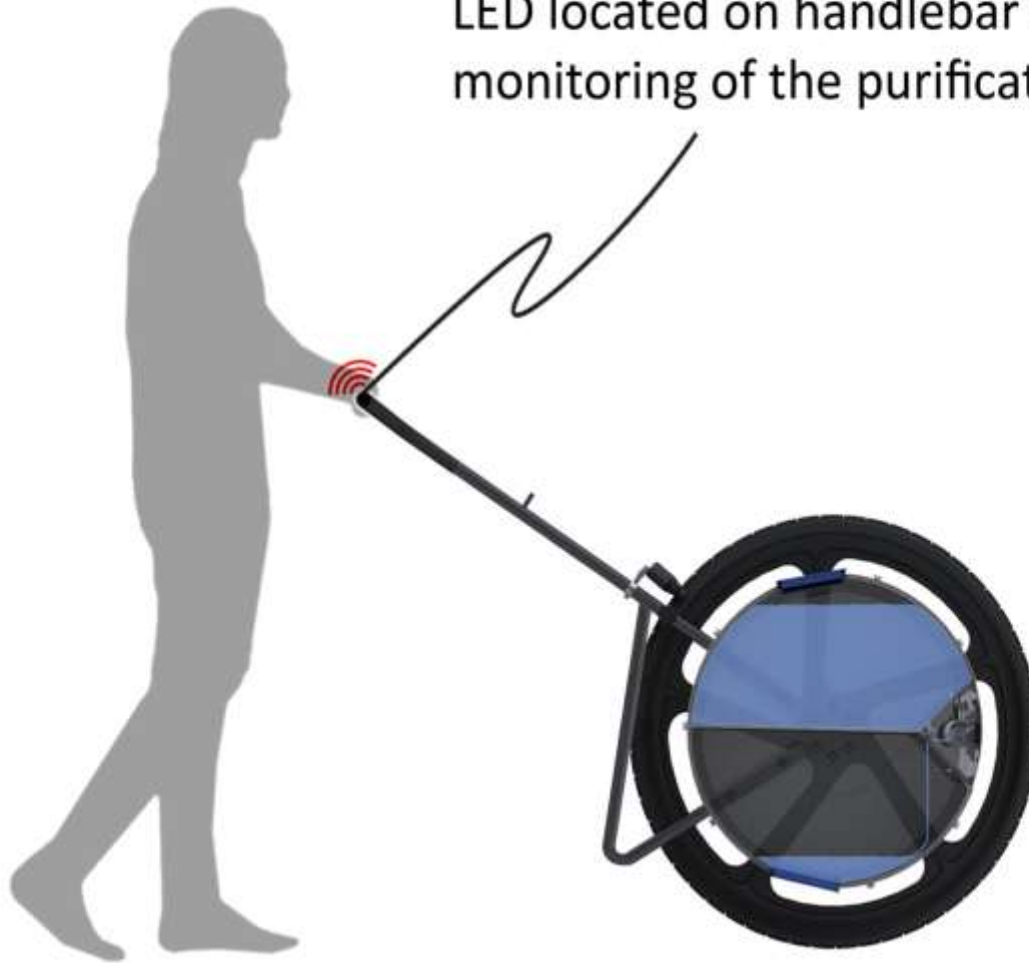
Water runs through the quartz coil down to clean chamber



# Transportation

## STAGE 2

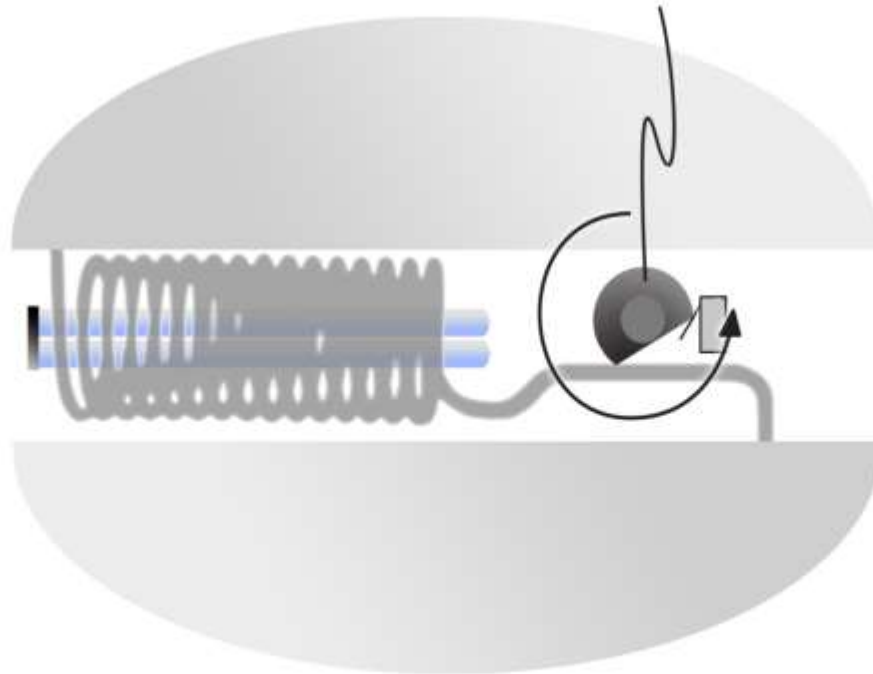
LED located on handlebar allows monitoring of the purification



# Transportation

## STAGE 2

When halted, cam spins to block the flow of water

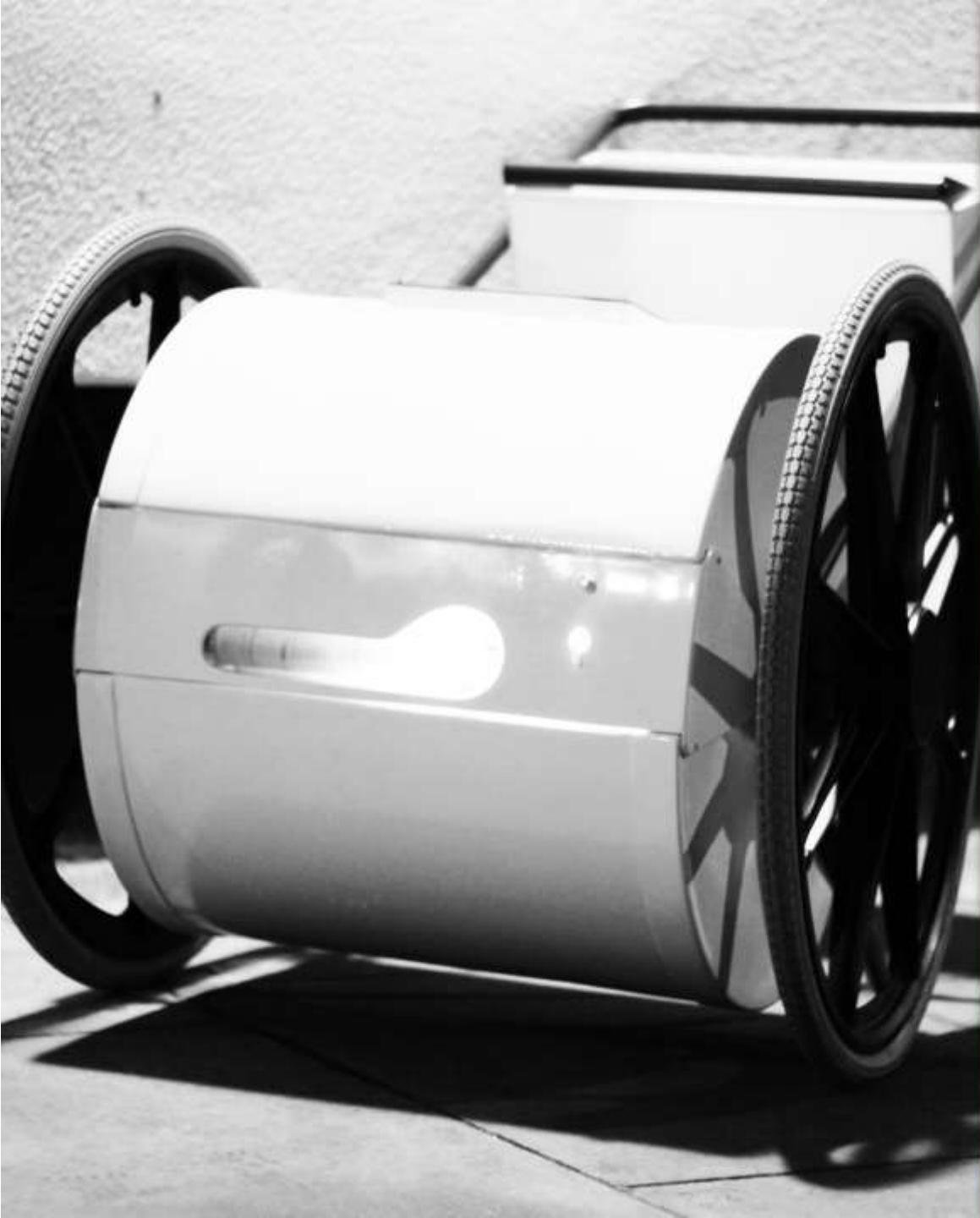


# Distribution

STAGE 3







reddot design award  
best of the best 2011



 **smith&nephew**  
Sustainable Design Project Award 2010

