

# AZULOP

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**Smartifying everyday objects**



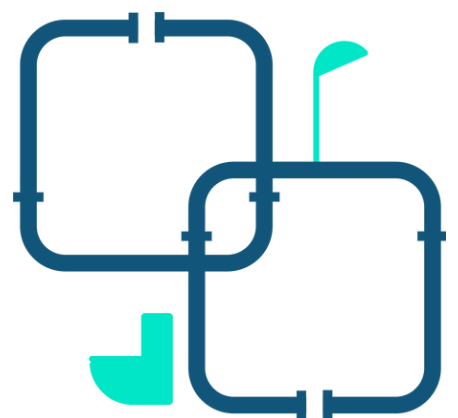
**ISEP** INSTITUTO SUPERIOR  
DE ENGENHARIA DO PORTO



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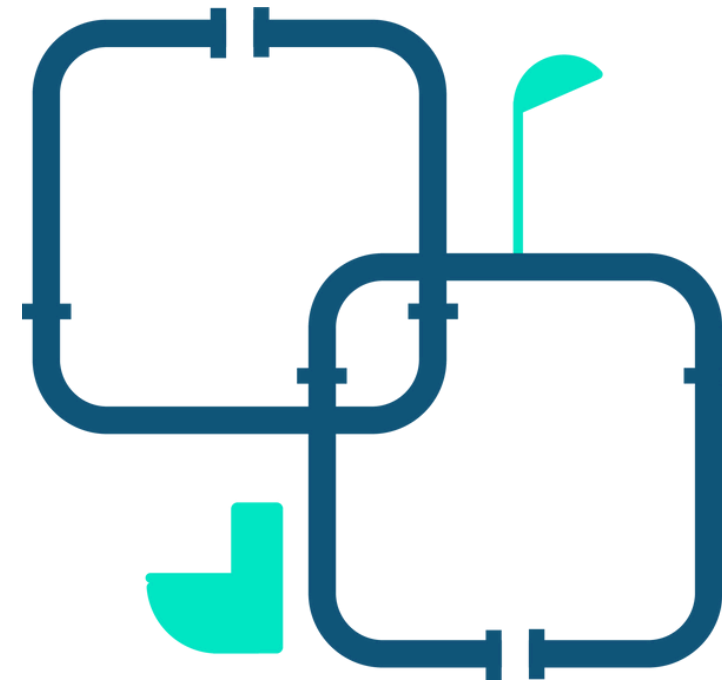


# AZULLOOP

## Summary:

Our system addresses this issue by redirecting cold water wasted during shower warm-up to a tank above the toilet for flushing. This innovative solution conserves water, reduces waste, and promotes sustainability at the household level.

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## Problem:

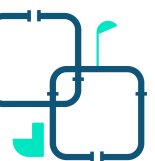
Water scarcity is a growing global issue, with households contributing significantly to water waste. Simple, everyday actions like waiting for shower water to heat up result in unnecessary water wastage.

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## Water Wasted:

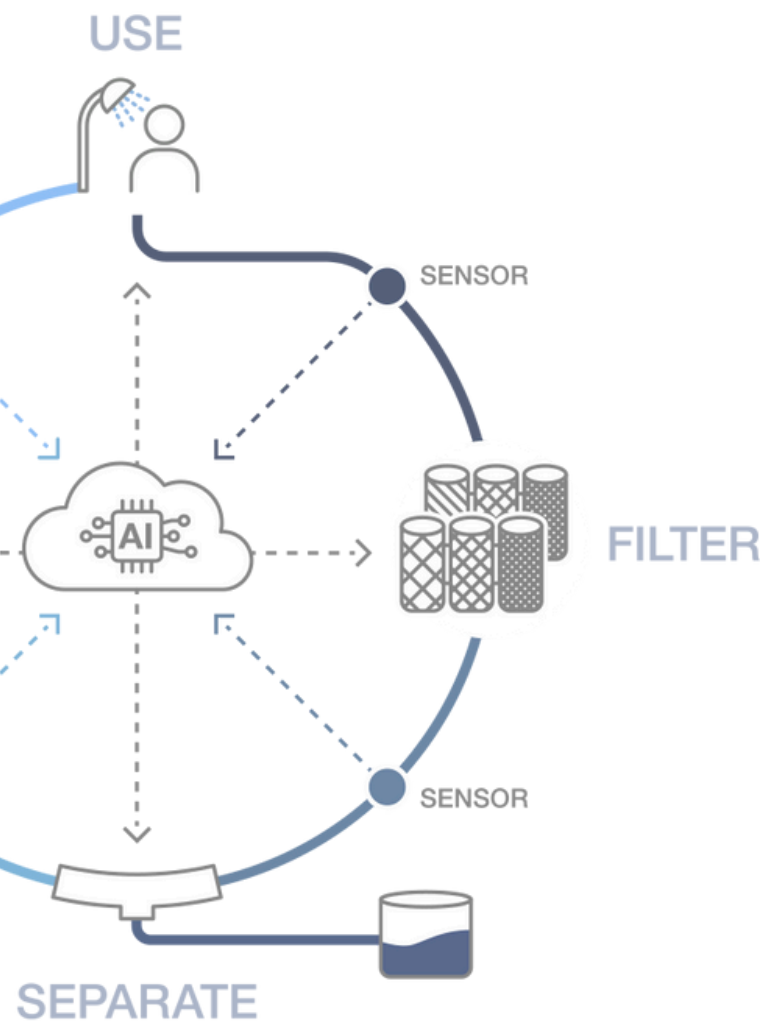
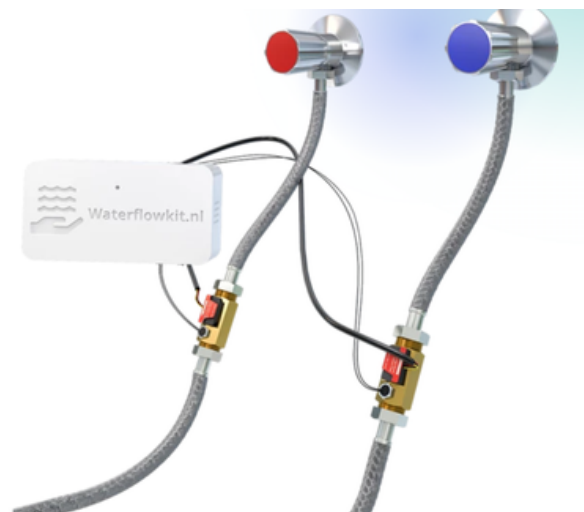
5-10 liters/shower  
14,600 liters annually

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# Performed studies

## *State of the Art*



## Requirements

- Recycle water from the shower
- Redirecting waste-water to the toilet tank
- User awareness



waterwise



# Performed studies

## *Ethics*

Respecting society, sustainability, and responsibility.

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We value safety, transparency, and smart water use.

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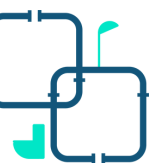


We promote AzuLoop with honesty and respect for consumer rights.

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Our system supports eco-conscious living by reducing water waste.

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# Performed studies

## *Market*

### Macro trends

Social: Growing eco-awareness, especially among younger buyers

Environmental: Climate change boosts relevance

### Target segments

Eco-conscious homeowner

Cost-driven property managers

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## Market Requirements



Affordable & energy-efficient



Clear environmental impact



Minimal maintenance,  
easy installation



No user behavior  
change needed





# Performed studies

## *Sustainability*

### **Maintenance**

Repair when needed, extending the lifespan

### **Reuse**

ABS case (durable materials)

### **Refurbish**

Collecting the product, replace parts and resell

### **Recycle**

Metal components  
Electronics

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### **Economical sustainability**

Cost reduction

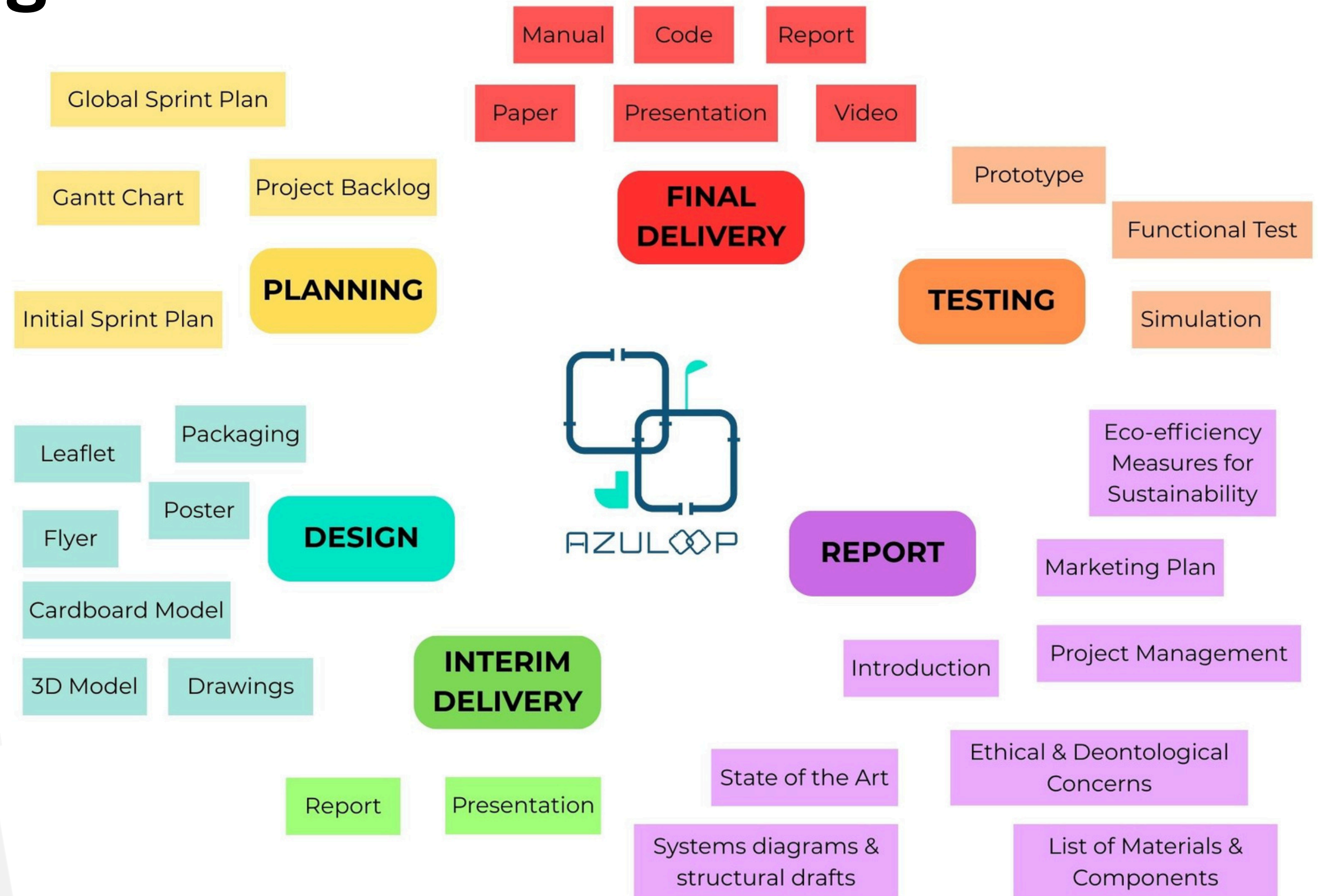
### **Social sustainability**

Consistent and comfortable temperature, accessible



# Project management

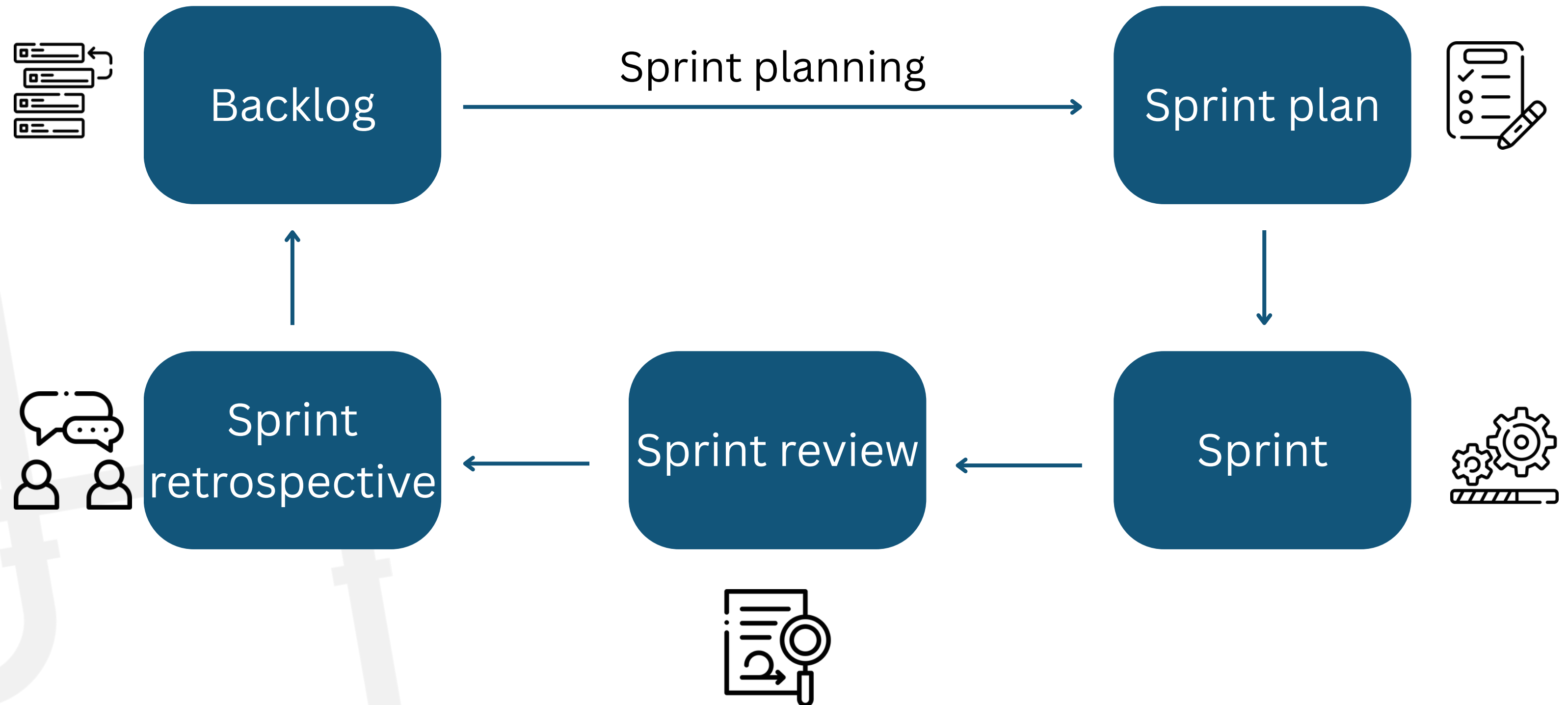
## *Project scope*





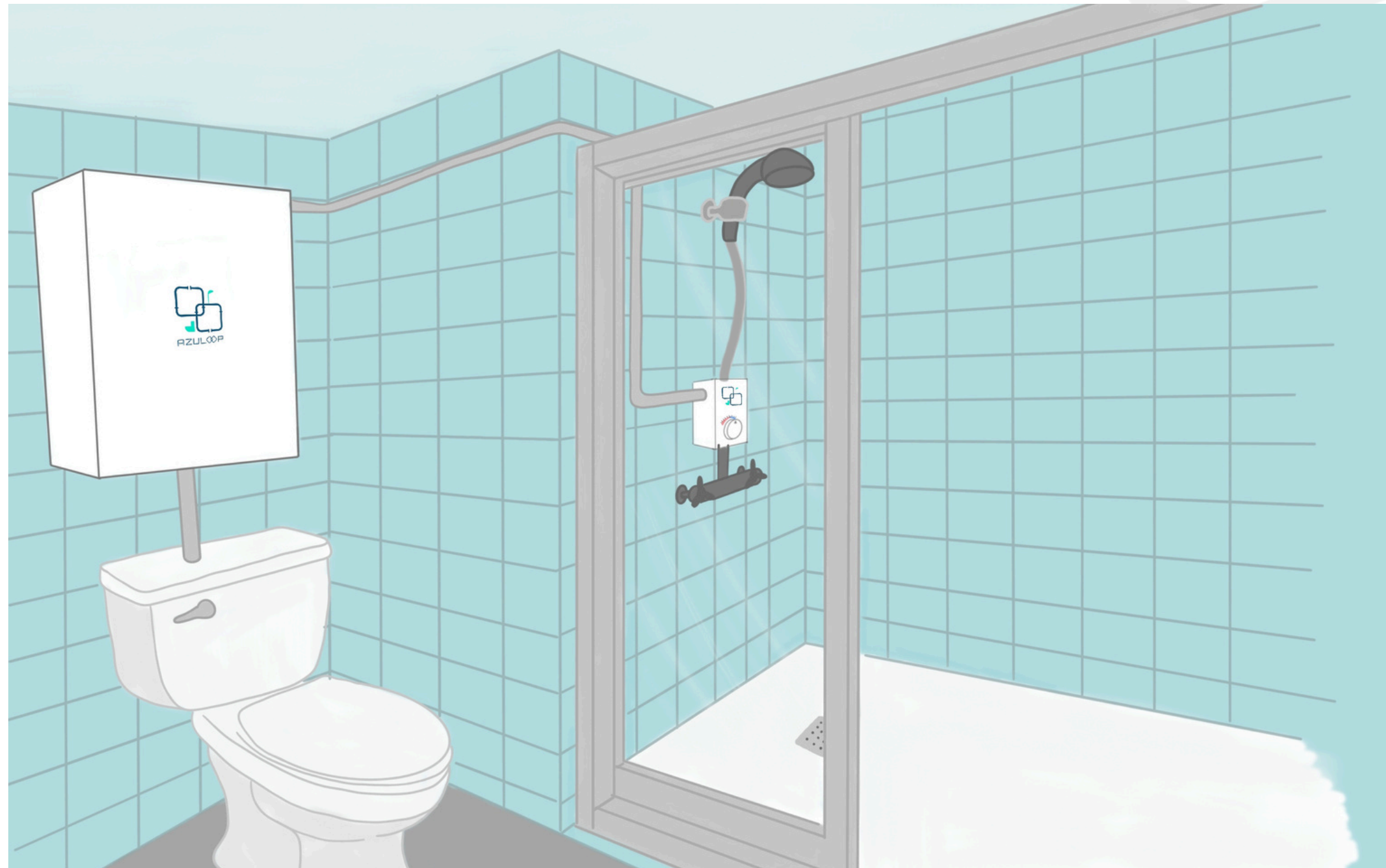
# Project management

## *Scrum proces*



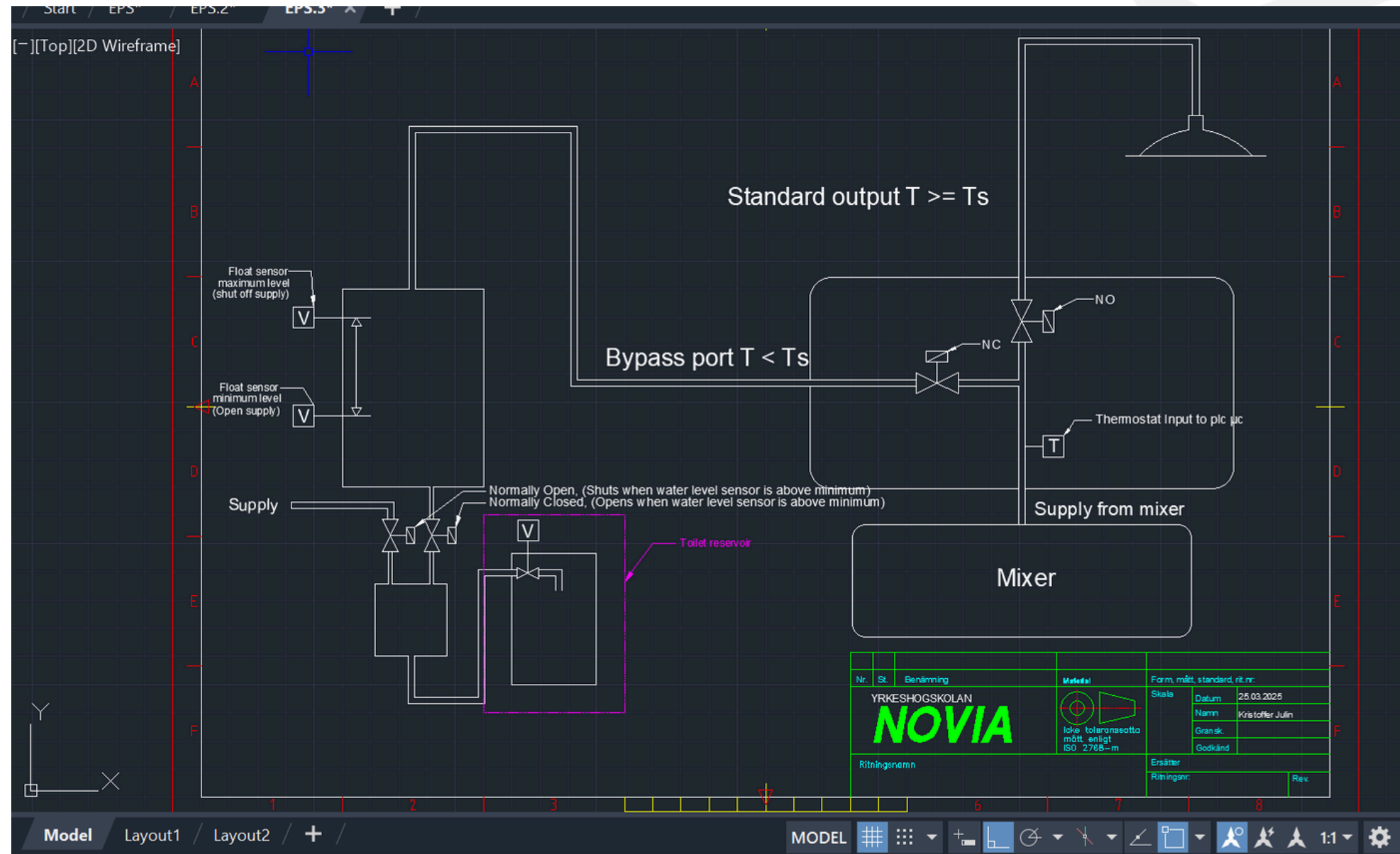
# Designed solution

*Concept*



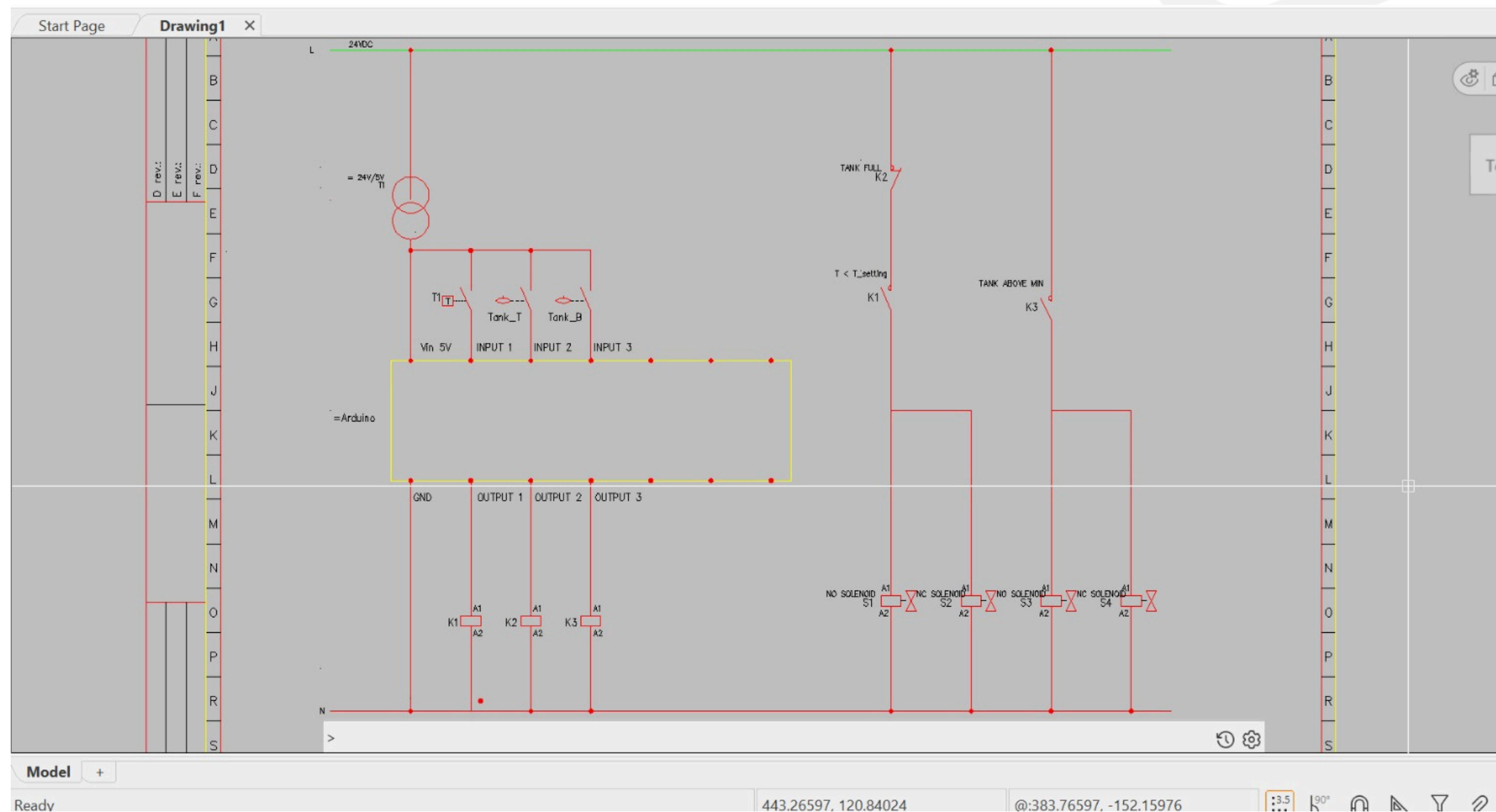
# Designed solution

*Device/structure*



# Designed solution

## *Smart system*



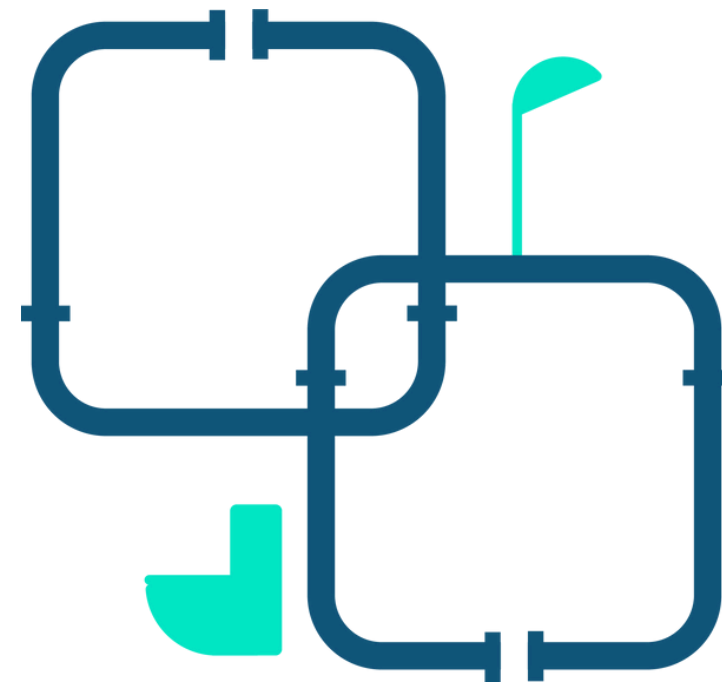
# Conclusion

Combines smart systems for efficient operation and user customization.

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Promotes eco-friendly practices, aligning with global water conservation goals.

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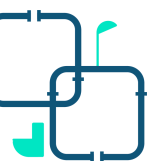


A scalable, cost-effective solution for environmentally-conscious households, contributing to a greener future.

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The system effectively reduces water waste by repurposing cold water during shower warm-up for toilet flushing.

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AZULOOP

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*Thank you*

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