

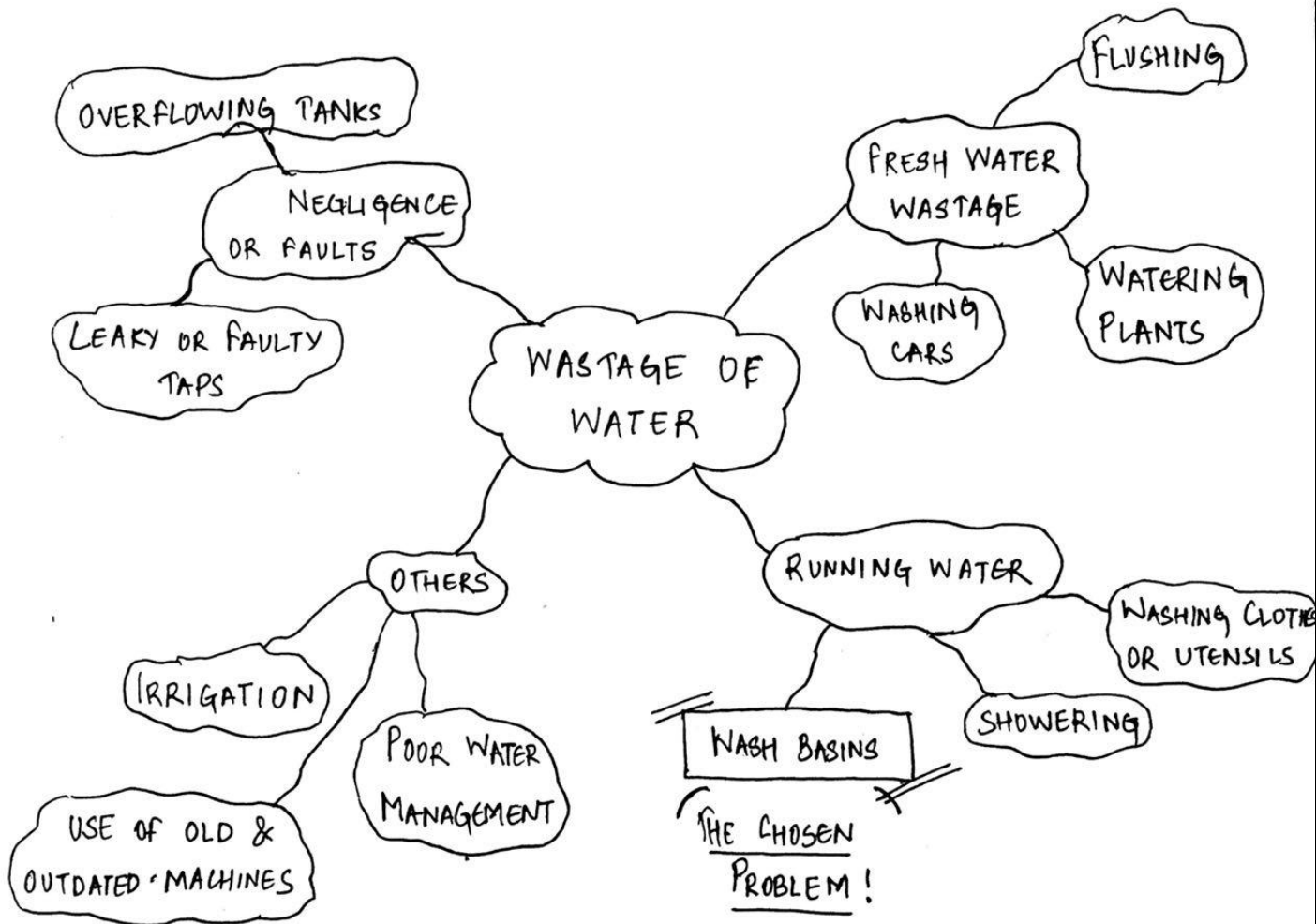
# FOOT POWERED TAPS FOR WASH BASINS



Presented by Group VIII :-

1. Apoorva Panchal
2. Rashmeen Mahlotra
3. Mukul Mishra
4. Aman Kumar Verma
5. Siddhant Agrawal

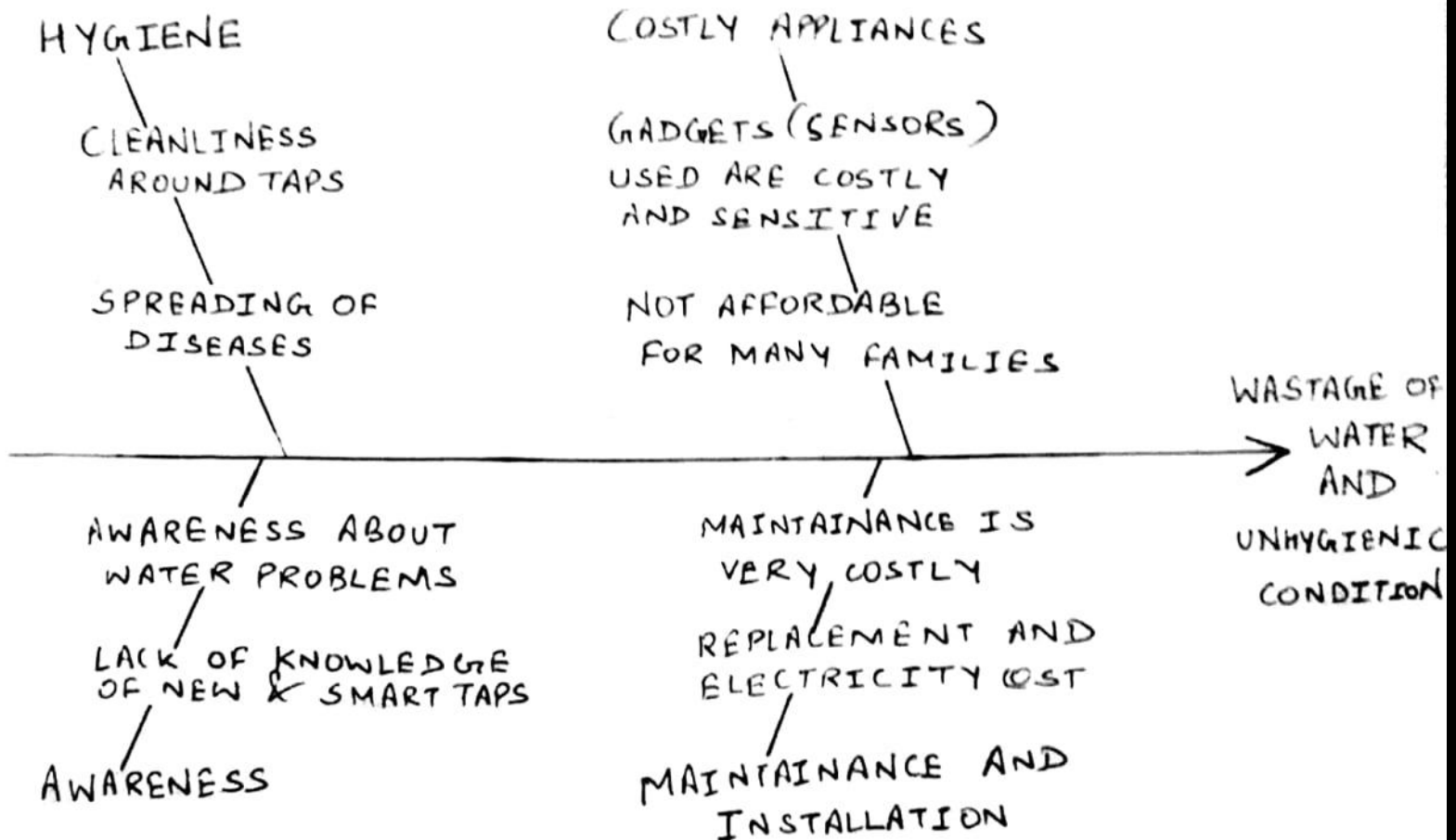
# MIND MAPPING



# PROBLEM STATEMENT:

“Wastage of Water and Unhygienic Conditions in and around Wash Basins.”

# FISH BONE ANALYSIS



# Possible Solution

Taps that can be operated by foot  
instead of hands!

# The Six Thinking Hats

## White Hat



1. 30-47% of water can be saved.
2. Top knob is contaminated easily.
3. Water accumulation leads to unhygienic conditions.

What do we know?  
What does this tell us?

## Blue Hat



1. Focus : Ease of use, conservation of water, maintaining hygiene.
2. Solution must be cheap, affordable, easy to implement.

How do we approach this problem?  
What are the ground rules?

## Green Hat



1. Store the waste water
2. Operation not involving hands
3. Use of sanitizer.

What are some alternatives?  
How can we innovate?

Foot Operated Taps

# The Six Thinking Hats

## Foot Operated Taps

### Yellow Hat



1. Releasing water only when required can save a huge amount of water.
2. Hygienic, easy to operate and cost efficient.

**What works?  
What are the benefits?**

### Red Hat



1. Conservation of water is the need of the hour.
2. People may be excited to use a new product.

**How does this make us feel?  
How will customers feel?**

### Black Hat

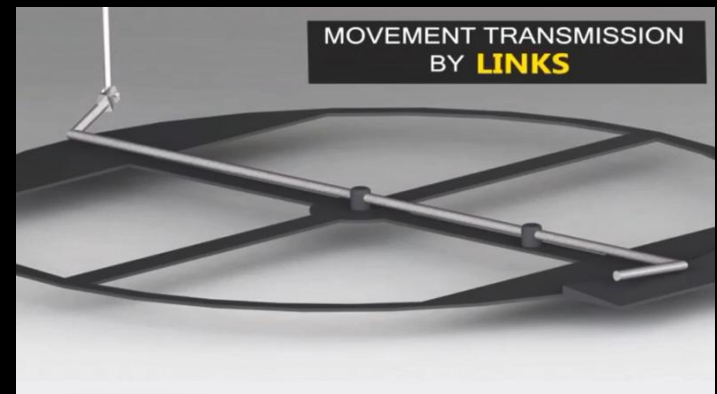


1. Small children/old people might have difficulty to operate.
2. Difficult to acquaint people with a new technology

**What doesn't work?  
What could go wrong?**

# SCAMPER

- **‘S’ – Substitute**
  - Substitute hand operated knob by a foot pedal.
- **‘P’ - Put to another use**
  - Put the mechanism of foot operated dustbins to another use, i.e. Movement Transmission by the use of Links.





# IMPACTS OF THE PROPOSED IDEA/DESIGN

- Noticeable reduction in the amount of water wasted everyday at public places.
- Use of foot operated taps would lead to improved cleanliness around the basin area.
- Maintenance of hygiene.
- Nearly 70-80% reduction in the cost.
- **Drawbacks:** A different technology using sensors requires to be implemented for differently abled, kids and old people.

# FUTURE PLANS

- Improvements required in the solutions available in the market :
  - Reduction in complexity of the existing design.
  - Cost efficiency.
  - Ease of use.
- Patenting the Design.
- Pilot projects at certain places by obtaining assistance from the Government or Managing authorities.

# TARGET AUDIENCE

- Public Places:
  - Hospitals
  - Bus Stops
  - Railway Stations
  - Malls
- Common Households.
- Places of public convenience.

# HELP REQUIRED

- Finance for research and implementation.
- Materials to be used.
- Further research on this topic.
- Assistance from government to implement the idea at the public places, which is the main target.



THANK YOU