Making Cities Sustainable on Water

Trans Water system Pvt. Ltd.
Is Water Scarcity real?

- **2008**
  - 200 Feet Depth
  - TDS 450 ppm

- **2020**
  - 900 Feet Depth
  - TDS 1200 ppm
Water Availability is assumed to be the current biggest challenge.
What did Israel/Singapore do?

- 74 mm Rainfall
- 2000 mm Rainfall
- 650-1100 mm Rainfall
What Do we have?

Apartment Complex / Malls / Industry → Waste Water Treatment Facility → Majority portion of water is drained. Disposed as per pollution control board norms. (80% is practically disposed)

Bore-well Line → Sump Tank

Industries

Cooling towers

Should be
Bangalore – Municipal and STP treated

Water is the lifeline for any country, its like nerves taking blood to body.
We make Waste water Potable

STP Treated Water

11 Stage Treatment Process

Potable Water
Residential Community – Case Study

Problem
- Excess STP Water
- High Cost of Purchase Water
- Ponds and Borewell being Dry
- Non Dependable Source of Water
- Non Availability of Water during summer

Revenue Saved – Rs.1.2 Cr
Water Saved – 60 Lakhs lts / year

Solution: BWW
### Problem Solved – RMZ Case Study

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<td>High Cost of Treatment of Domestic Water</td>
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<td>Excess STP Treated Water.</td>
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#### Solution: BWW

- **Revenue Saved** – Rs.2 Cr / Year
- **Water Saved** – 3.6 Cr lts / year
Water For Cooling Towers IT Parks and Malls – Current Practice – Problem?
Technology – IOT helping Eco-Restoration
System Size – 100 KL

22 Feet x 14 Feet X 12 Feet
Predictive – Maintenance and Reporting - IOT

- Sensors
  - Quality
  - Quantity
  - Performance
  - Point of Failures

- Boson – Aggregator Board – with OTA

- Cloud

- Office Call Center

- Schedule ppl. for maintenance

- Reminders to clients
Water Recycling – Across the world

Windhoek – Namibia - DPR

CALIFORNIA – DPR & IPR

BIG SPRING – EL PASO, TEXAS – DPR and IPR

ISRAEL – DPR and IPR
Addressing Water Shortage – By creating more water from Waste water.

To cater to 5% of Bangalore’s Water Requirement by 2030 – Aligning to UN SDG Goal 11,6.
Recycle water to Create Water Abundance