

Bhavyata Jethva

Technical Secretary, River Rejuvenation Projects, Art of Living

Who we are...



The Art of Living is a non-profit, educational and humanitarian organization founded in 1981 by the world renowned humanitarian and spiritual teacher Gurudev Sri Sri Ravi Shankar.

Gurudev has inspired a wave of volunteerism and service, resulting in one of the largest volunteer-based organizations in the world, with more than 30,000 teachers and over one million volunteers engaged in service projects in 180 countries.



Our Inspiration
Gurudev Sri Sri Ravi Shankar

40 Years of Service 180 Countries where we make a difference

10,000+ Centers Worldwide with weekly follow-up sessions

500+ Million lives touched



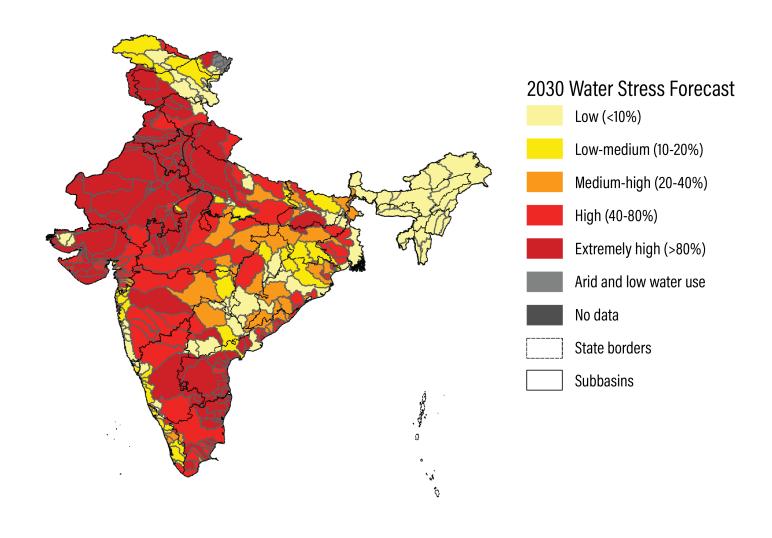








India's projected water stress, 2030



Note: Figure represents water stress forecast for year 2030 under the

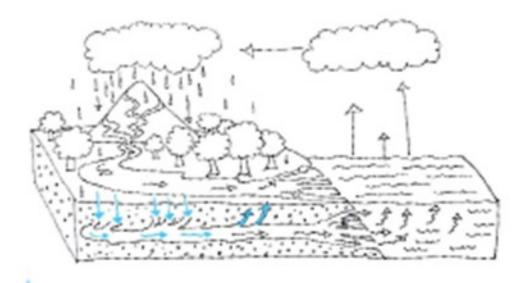
Business As Usual scenario.

Source: WRI Aqueduct Water Risk Atlas



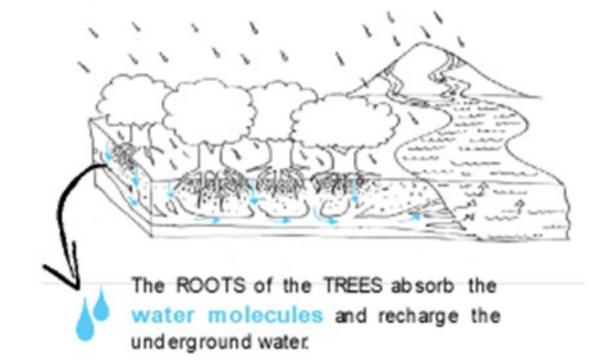
Background





Many know about the hydrological cycle, but the RELATIONSHIP between GROUND WATER

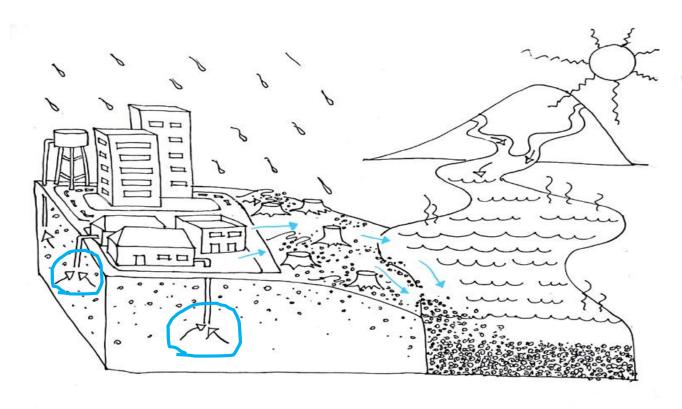
& SURFACE WATER is often unnoticed





Background (Contd...)





Because of

- 1. Deforestation
- 2. Soil Erosion
- 3. Siltation
- **4.** Overexploitation of underground water
- 5. Global Warming



Our Approach

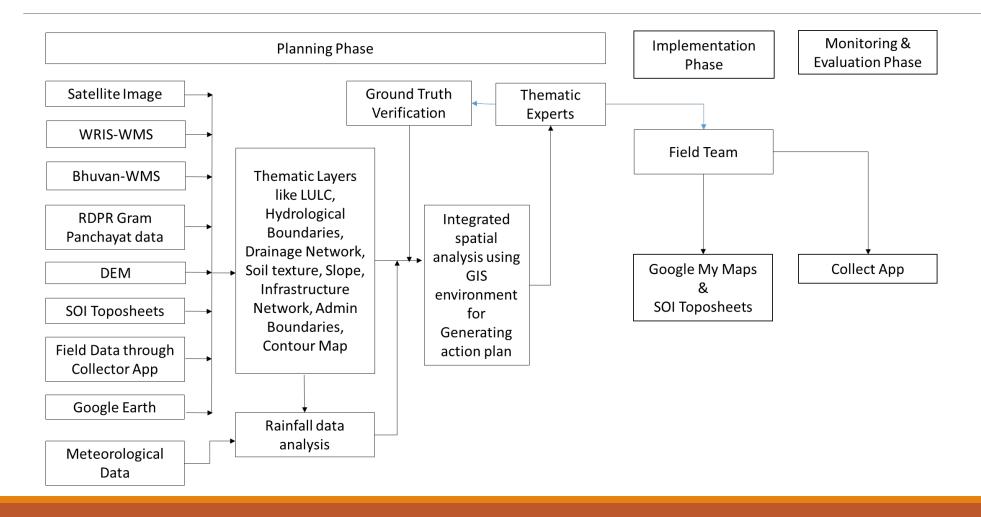


- Nature is a fantastic teacher.
- It gives you space to observe it and learn.
- So we decided to copy nature. And it worked.



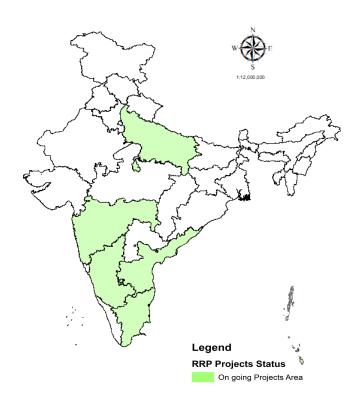
Our Method



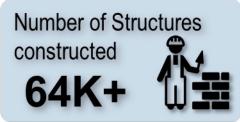


Our footprints















WORK PROGRESS IN FIVE STATES



Consultations & Discussions with **SEVEN** more states

PLANS for setting up TEST
BEDS in various
geomorphological + agroclimatic zones

Interpreting our activities in SDG's





















 Out of 17 Goals, the Art of Living's River Rejuvenation projects is impacting 9 goals.

3: Good Health & Well-being





- Belongingness, Ownership, Responsibility
- Action Oriented
- Self inspired and not externally motivated



112500 – Capacity building, training programs
Sudarshan Kriya Yoga – SKY
Breathing technique...



5 & 10: Gender Equality & Reduced Inequalities





 Women started entrepreneurship for the rejuvenation of Naganadhi in Vellore district of Tamil Nadu.



6: Clean Water & Sanitation







Recharge Well Boulder Check







Recharge Borewell

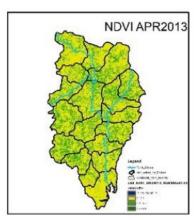
Water Pool

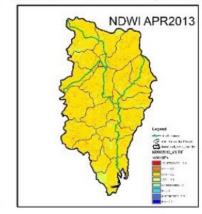
Impact Assessment

(Kumudvathi Project)

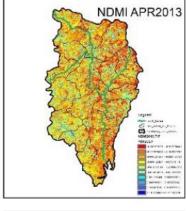


- 1. As per studies in 2018, AUGMENTED RECHARGE OF 1.625%
- 2. In 2019-2020, average increase OF 2.4 METERS IN THE BORE WELLS
- 3. Between 2013 to 2020, improvement in NDVI, NDWI & NDMI.

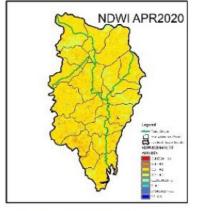


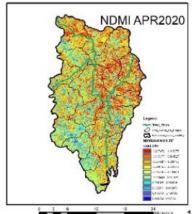


KUMUDVATHI RIVER BASIN.KARNATAKA









8: Decent Work & Economic Growth





- We have worked with different stakeholders to create more than 22,000 employment opportunities.
- Farmer Income is more than doubled as reported in our impact assessment of water conservation prog (120% growth).
- Average increase in Work availability is 88% as reported in the same water impact report.
- Water literacy in terms of overall better watershed management has been devised to help farmers to do so.
- Communities have been also convinced to do away with Acacia and Eucalyptus plantations.

13: Climate Action





14: Life above water



We have created micro water conservation structures called Water Pools,
 which not only helps in conserving water but also recharging it in the ground





15: Life below water









With the aim to provide safe environment for the life below water, we are treating many waterbodies. A few by removing silt and a few more by treating them for nature based solutions like green bridges for removal of hazardous, harmful pollutants.

17: Partnering for Goals







- River Rejuvenation Conference in Dec 2017 & National Symposium on Resilient Riverine Eco System 2023, at the Art of Living Bengaluru Ashram
- Govt. Agencies, Corporates, Self Help Groups, Academic Institutions, Other NGOs, Private Groups, Community Leaders, Farmers, Activists, Multi-disciplinary Experts, etc...







Work at the Grass Root Level – Talking to Villagers & Gram level Developmental Officers, 2020 Interiors of Madurai



Geo4RRP...



Scientific Planning

During Implementation

Impact Study

GIS - Integration of Various

Thematic Areas namely (Lithology, geomorphology, lineaments, soil...)

Aquifer Characteristics – Infiltration & Storativity – 2D/3D ERT, PUMPING TEST, ...

AUTODESK – Civil Design for Recharge Structures

Site Identification – **My Maps**

Collect App – On ground data collection related Surveys on DEMAND SIDE

IN HOUSE developed MOBILE APPs for M&E

IOT based groundwater level probes

Lysimeter – **Soil Moisture Variations**

Evapotranspiration – Spatial Crop/ Plant Identification

Softwares that we use...



















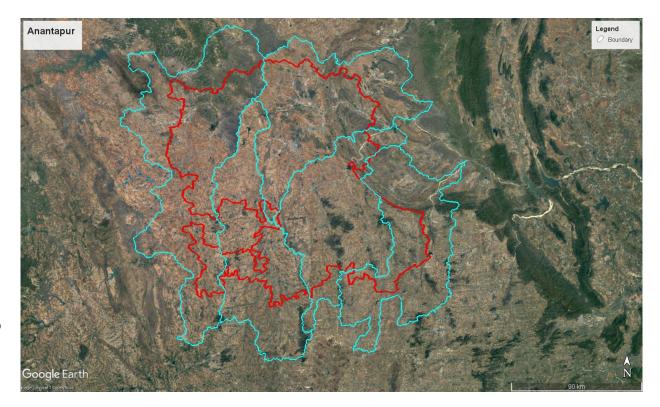


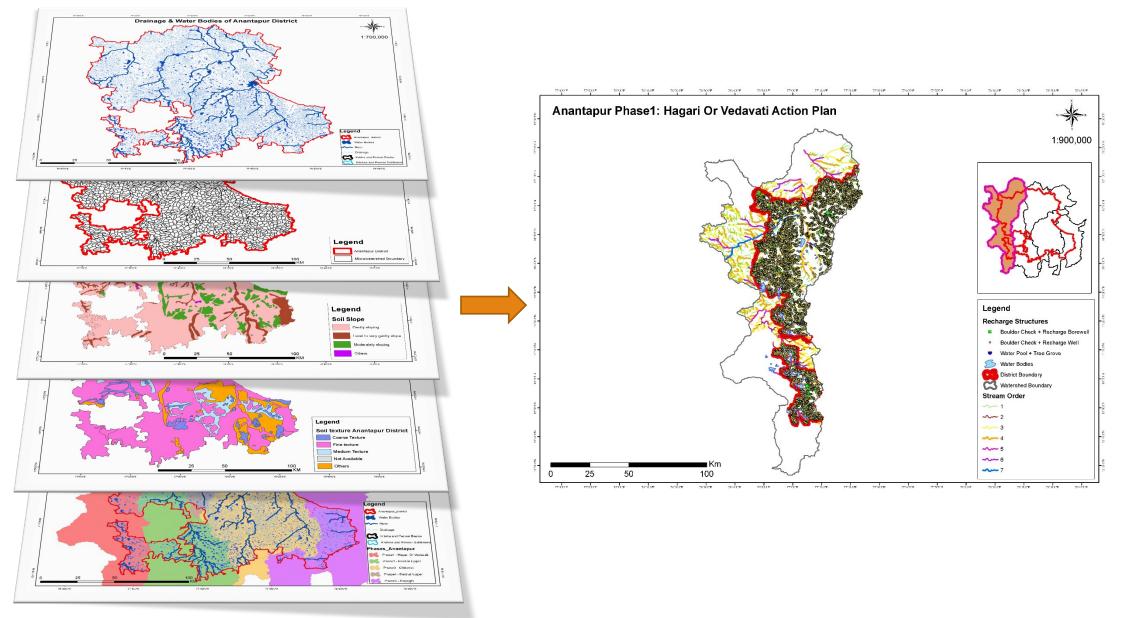
Use of GeoSpatial Technology



Action Plan Preparation

- ✓ Drainage Network
- ✓ Hydrological Boundary
- ✓ Geomorphology & Lithology
- ✓ Land Use Land Cover
- ✓ Soil texture, Soil Slope
- ✓ DEM, Elevation, Contour Maps
- ✓ Administrative Boundary



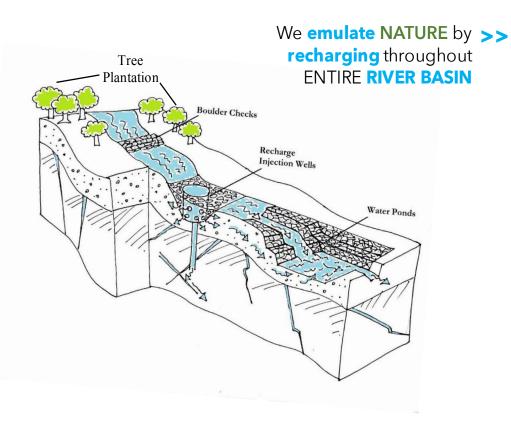


Thematic layers are stacked one over the other in ArcGIS for studying multiple themes together and arriving at the action plan

AoL Solution in Hard Rock Terrain

through Managed Aquifer Recharge





TREE PLANTATION

reduces soil erosion and recharges ground water

01

BOULDER CHECK DAM

slows down speed of water, reduces soil erosion.

02

RECHARGE & INJECTION WELLS

recharges groundwater (Shallow and Deep Aquifer) 03

WATER POOLS

revives lakes and larger water bodies

04

- Improving Groundwater table by Managed Aquifer Recharge across entire RIVER BASIN
- Slow down the runoff and Optimum recharge across river basin

Awards & Recognition





FEATURED IN THE 2019 EDITION OF LIMCA BOOK OF RECORDS AS " MOST EXTENSIVE RIVER REJUVENATION WORK BY AN NGO"



AWARD BY ITV
NETWORK FOR ART
OF LIVING'S
EXTENSIVE WORK
IN REVIVING 42
RIVERS IN INDIA

INDIA GEOSPATIAL
APPLICATION
EXCELLENCE AWARD IN
2019 FOR EXTENSIVELY
USING REMOTE SENSING
AND GIS TECHNIQUES FOR
RIVER REJUVENATION
ACTIVITY. GEOSPATIAL
APPLICATION EXCELLENCE
AWARD FOR USING
GEOSPATIAL TECHNOLOGY
IN RIVER REJUVENATION
PROJECT



EXEMPLARS 202122 AWARD BY
ROTARY CLUB OF
BANGALORE FOR
ENVIRONMENT
CONSERVATION
PROJECTS



HAL - IAHV'S KEY PARTNER @ KUMUDVATHI

AWARDS & RECOGNITION FOR HAL;







Led by @SriSri, the @ArtofLiving Foundation has, over the years, successfully rejuvenated 48 rivers flowing across 5 states, viz. Maharashtra, Karnataka, UP, AP & Tamil Nadu, benefitting 34.5 million people in 12,077+ villages.



Narendra Modi and 9 others

12:43 PM · Mar 28, 2022 · Twitter Web App

