

PRA^YOG

BY IIT BOMBAY

www.prayog.ctara.iitb.ac.in

Problem Statement

The world is facing multifaceted challenges. Academic institutions can play a crucial role in addressing some of these challenges including issues related to economic and gender inequalities, resource scarcity or climate change.

Unfortunately, there is no single platform in India that brings multiple stakeholders together to address development issues.





Transforming lives
through **Technology**



About - PRAYOG

PRAYOG is a new initiative of **IIT Bombay** launched in June 2021, that brings solution seekers and solution providers together to address development challenges.

We seek to leverage the strengths of various stakeholders including government agencies, nonprofit organisations, corporates and academic institutions. We use a 3P approach i.e. product, process and policy to find solutions to development issues in the country.

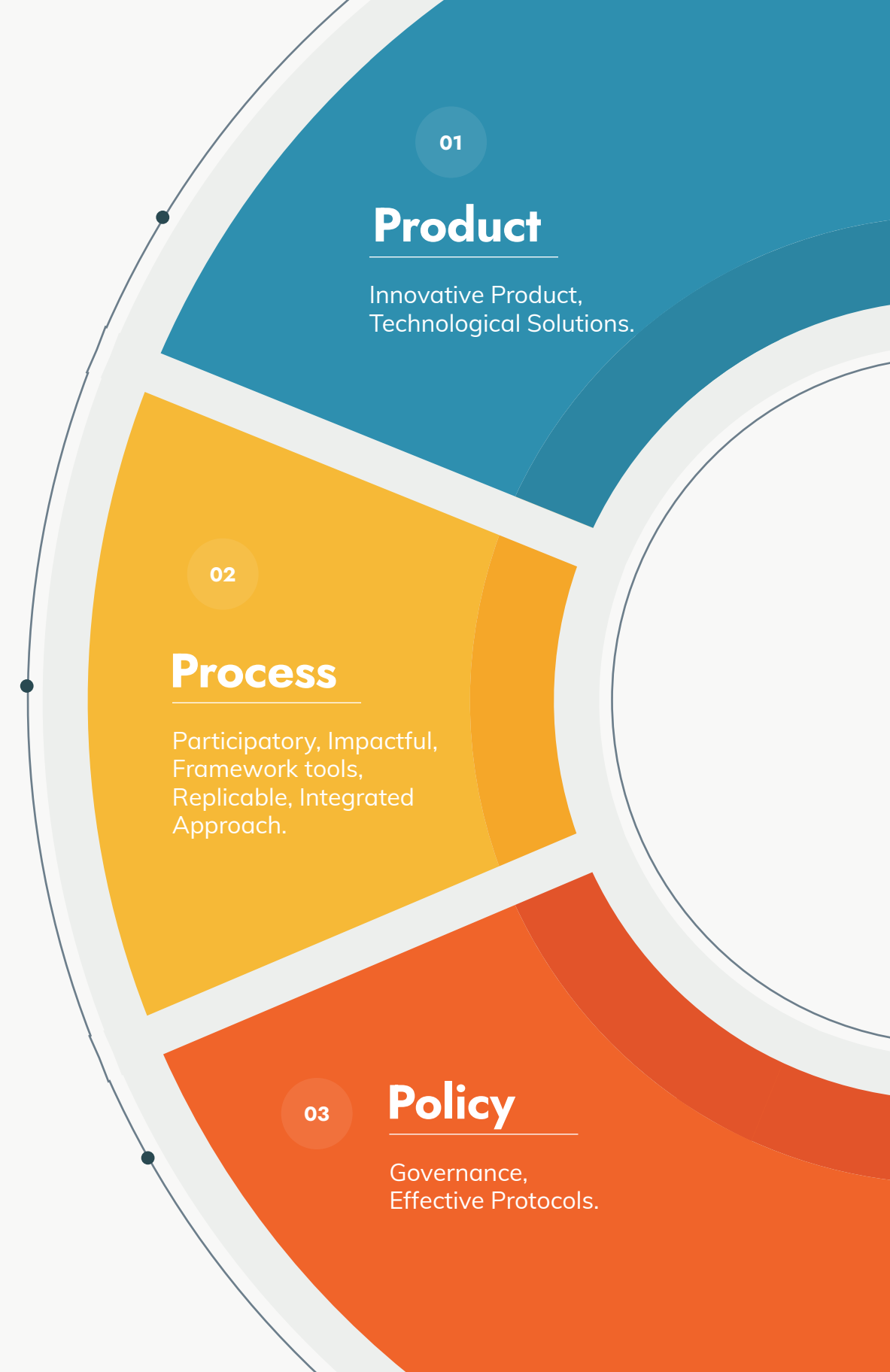
Our aim is to contribute towards achieving the Sustainable Development Goals (SDGs) for India.

● Vision

To build transformational delivery targeted at providing solutions for the country's development.

▼ Mission

Become the first port of call for solving all development problems and be firmly engaged with society to provide innovative technological solutions through multi-stakeholder collaborative association.



Thematic Areas

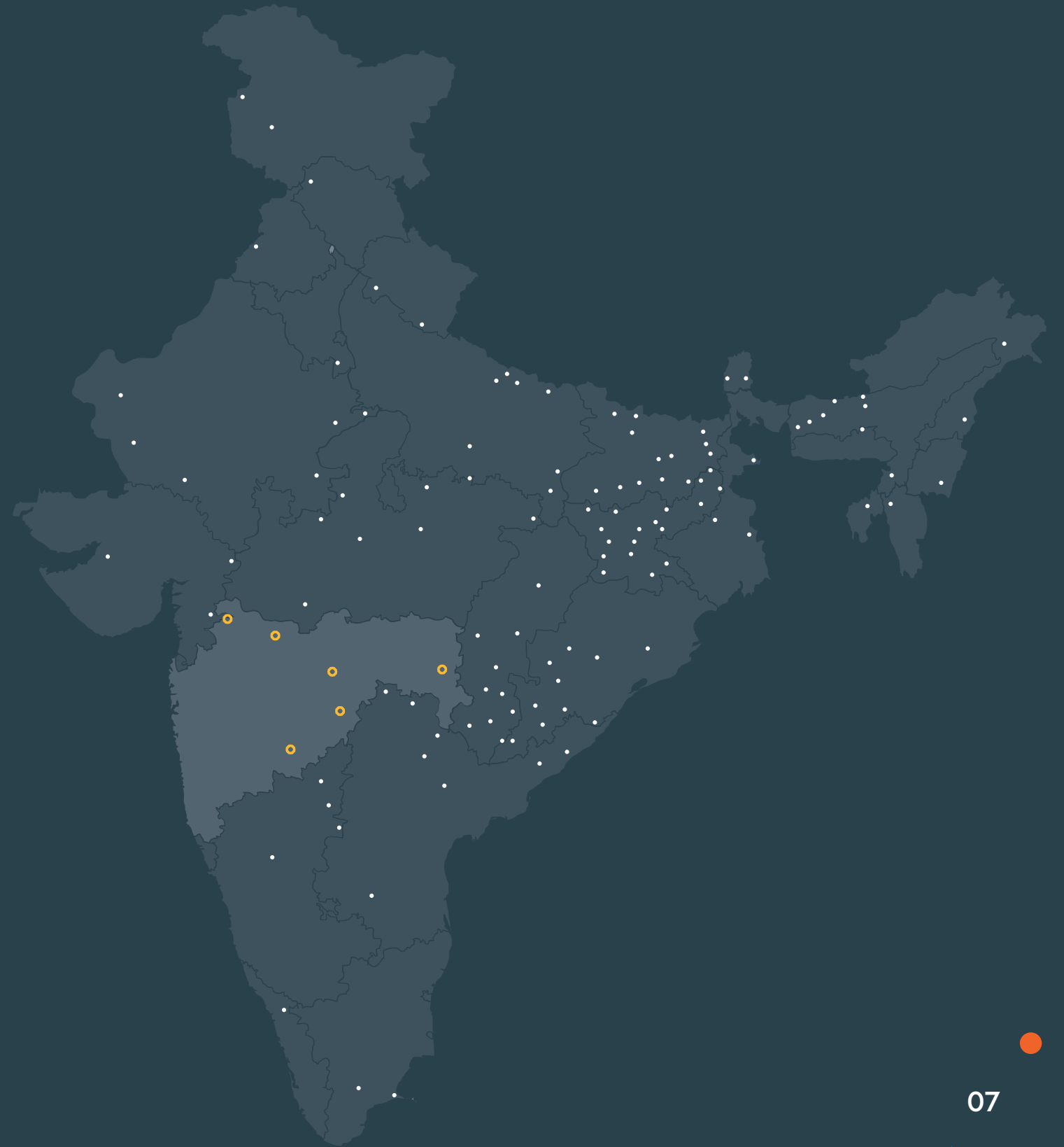
- Education
- Health & Nutrition
- Agriculture & water resources
- Rural development
- Sustainable Development Goals(SDGs)
- Women empowerment
- Rural livelihood
- Monitoring & Evaluation

- Environmental sustainability
- Skill development
- Slum area development
- Water sanitation
- Agroforestry
- Natural resources conservation
- Corporate Social Responsibility
- Program design



Aspirational Districts in India & Maharashtra

This year we are focused on **Maharashtra** and its aspirational districts. In coming years, we aspire to cover the whole of India.





Floating Fish Cages For Inland Aquaculture

Product _____

Name of faculty _____

Duration _____

Description

RuTAG IIT Bombay (in collaboration with NGO Shashwat) designed floating fish cages for inland fisheries department for the tribal communities displaced by the Dimbhe Dam in Pune district of Maharashtra. The project helped enhance fish production from 3.5 tonnes to 10 tonnes. It also improved livelihood opportunities for the communities, as the fishing days increased from 72 to 323.

Project Beneficiary

Fishermen, Ecologist,
Research community

Project Year

2014



Renewable Energy Microgrid For Rural Electrification

Product _____

Name of faculty _____

Duration _____

Description

Designed and implemented a renewable energy microgrid project with people's participation in Shisavli hamlet, Khar-di. The project helped in the electrification of a hamlet in a tribal village that did not have any access to energy.

Project Beneficiary

Village community, Academic institutes, & NGOs

Project Year

2016



Assessing Financial Distress in Farm Households

Process _____

Description

Carried out an evaluation exercise to measure the financial performance of farm and farm households in Yavatmal District. Significant parameters influencing the financial performance of the farm and farm households were identified and solutions suggested.

Project Beneficiary

Farmers, NGOs, Research community

Project Year

2019



Designing a Model WATSAN System for a Large Village/ Small Town

Process _____

Description

Designed a Model WATSAN System for Vadgaon Maval town near Pune. Developed a design tool for its wider application consisting of integrated planning and design of water supply, sanitation, stormwater, and solid waste management.

Project Beneficiary

Residents, ULBs,
Researchers, Consultants,
Govt. Bodies

Project Year

2018



Enhancing access to water & sanitation to slum dwellers in Mumbai

Policy _____

Description

Carried out a systematic, comprehensive study of the water use of low-income consumers in the Slums of Mumbai. The idea was to identify the barriers that lead to denial or inadequate access to water services. The project was supported by Tata Centre for Technology and Design, IIT Bombay.

Project Beneficiary

Slum dwellers, Ecologists,
Policy makers

Project Year

2021



The Impact

PRAYOG works with government agencies, nonprofits, corporates & academic institutions and supports them in finding solutions to various development issues.

We envision a multifold impact that will go beyond a product-based solution into the process, entrepreneurial & policy domains as well. PRAYOG will enhance applied research at IIT Bombay and find solutions to societal issues in a structured way.

Our Team



Dr. Bakul Rao

Professor
Principal Investigator

Has experience of 32 years in the area of Environment of which 18 years have been in the field of Development. She has a Ph.D. in Environmental Science and Engineering from IIT Bombay.



Dr. Parmeshwar Udmale

Assistant Professor
Co-Principal Investigator

He has a PhD in Integrated River Basin Management from Japan and 7 years of post-PhD research experience in Japan, Thailand and India. His expertise is in Water, Agriculture and Rural Development, Disaster Risk Research, and Localisation of SDGs.



Mr. Meghraj Garad

Senior Project Engineer

Meghraj has been working in Development Sector for six years. A Civil Engineer from COEP with a Master's from CTARA, IIT Bombay and was awarded the prestigious MoRD Fellowship.

Our Team



Mrs. Sushama Kulkarni

Assistant Project Manager

B.E & M.Tech. in Electrical Engg. from VJTI, teaching tenure of 27 years. Worked in CEP -QIP in IIT Bombay for 2 years as consultant and coordinator for TEQIP activities. Working with CTARA & PRAYOG for last 2 years



Mr. Shivanand Nalgire

Project Research Engineer

Shivanand has completed Master's from CTARA, IIT Bombay with Bachelor's in Planning from COEP. He was awarded with the prestigious MoRD Fellowship. He is developing the on-premises Data Warehouse system at PRAYOG for data integration, analysis, and reporting to aid the data driven decision making.



Contact Us

Location

📍 Centre for Technology Alternatives
for Rural Areas, Indian Institute of
Technology (IIT), Bombay, Powai,
Mumbai 400076.

Contact

☎️ +91-9819284998
✉️ prayog.ctara@iitb.ac.in
🌐 www.prayog.ctara.iitb.ac.in

Social Media

in Prayog IITB
▶ PRAYOG CTARA IITB
📷 prayog_iitb