

Goverment of India





Unnat Bharat Abhiyan

Transforming Rural Livelihood through Science and Technology

शिक्षित भारत – सक्षम भारत – स्वस्थ भारत – संपन्न भारत- आत्मनिर्भर भारत

Three days National Write-shop on preparedness of Road Map and Draft Plan of Action on LSDGs in PRIs

July 04, 2022

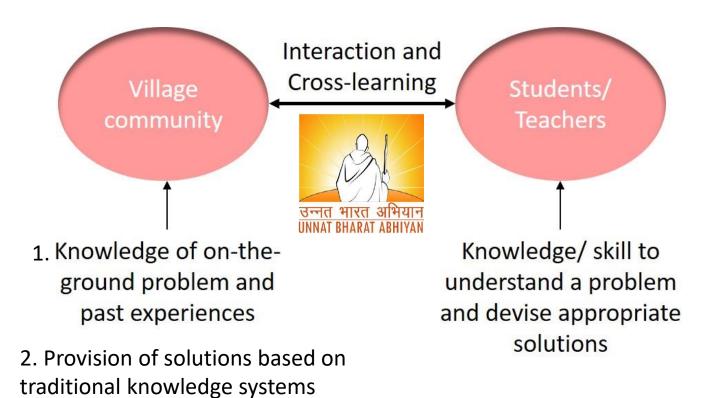
Manavee Ajit Singh Senior Project Scientist, Unnat Bharat Abhiyan Indian Institute of Technology Delhi Email: unnatbharatabhiyaniitd@gmail.com



Unnat Bharat Abhiyan facilitates sustainable rural development through Higher Education Institutions



The need to orient the academic system to practically understand societal issues and address real-life challenges in villages is realized!



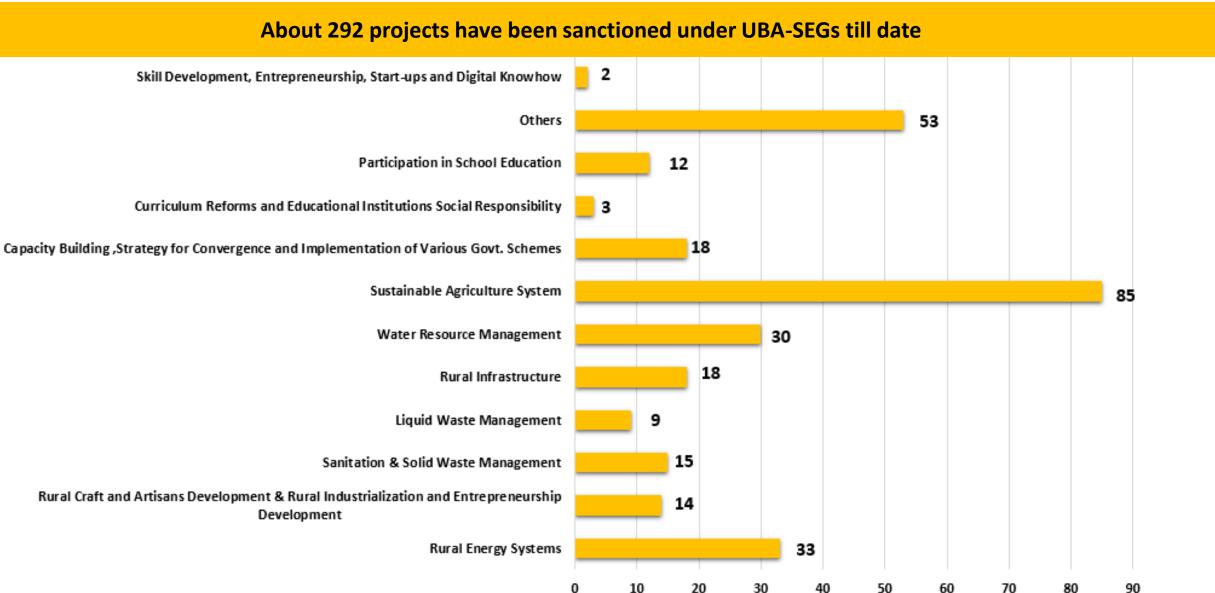
- Development of mechanisms for coordination among educational institutions, implementation agencies, and grassroot stakeholders
- Holistic and sustainable development of village clusters through utilization of local resources and technological interventions, leading to livelihood generation
- Reorientation of academic curricula and research programs in alignment with the local needs

Opportunity to enable faculty and students of higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth of villages



Projects sanctioned under UBA Subject Expert Groups







Technology interventions guided by UBA-SEGs

Technology development and customization



Universal Load Carrier Trolley



Environment controlled, automated green house for high-valued agro produce in Vidarbha region



Development of Digital classrooms

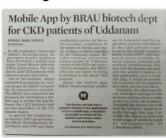


Mobile Hydraulic Lift



Provision of Better Health Conditions through a Mobile App for Kidney patients in Pathavaraka village, Uddanam region





Lake restoration

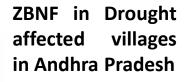


Solar Tunnel Greenhouse Dryer Coupled with Biomass Backup Heater and Automated Coconut Broom Making Machine



Machine for Baria, Seviyan, Pickle, Murabba, Cotton Razai and Pattal making machine



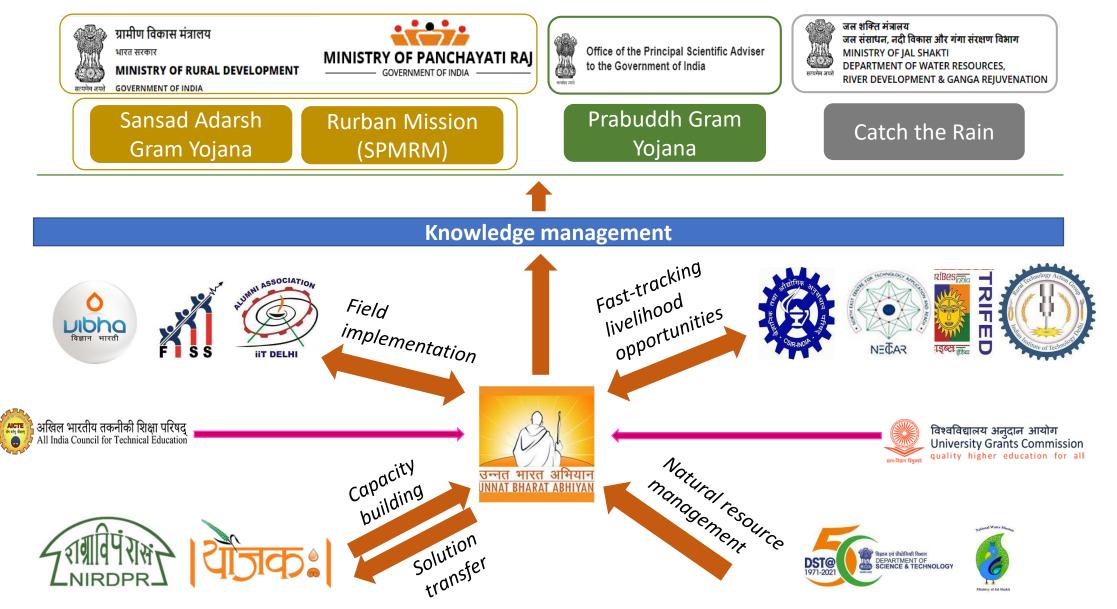






Convergence for facilitation of holistic and sustainable rural development







Fast-tracking livelihood creation in rural areas through technology diffusion



To boost livelihood with little and moderate skill sets, especially for rural set-up

Diffusion of rural technologies for societal benefits through UBA network

Technology pitching and demonstration events for garnering stakeholder interest

Planning, implementation, capacitybuilding monitoring and evaluation through UBA network

> Establishment of National Rural Technology Demonstration Centers

Establishment of National Rural Innovation Facility for Skills and Rural Entrepreneurship Development Framework to assess suitability of technologies for deployment in rural areas created by CSIR-UBA

A repository of 82 CSIR technologies created based on the above framework

Technologies shortlisted for implementation by CSIR-UBA based on region-specific relevance

3 Technology pitching and demonstration events – online, offline, hybrid modes – showcasing about 40 CSIR technologies Participation from over 2000 UBA institutions, over 50 CSIR scientists, representatives from VIBHA, NECTAR and other stakeholders



Fast-tracking livelihood creation in rural areas through technology diffusion



Pan-India

- Over 40 CSIR technologies demonstrated
- Above 50 potential technology seekers identified across multiple states
- Pilot phase: development of technology implementation strategy is in progress

Northeast India

- 2 startup events as part of 2 technology conclaves respectively were organized in collaboration with NECTAR
- 4 select startup projects mentored by UBA out of which one is funded by NECTAR
- Setting up of technology demonstration and rural entrepreneurship centres is underway at Khanpara and Dima Hasao districts in Assam

Key Impact

CSIR Technologies for Rural Livelihood

Building Atmanirbharta with Science and Technology

A Joint Initiative of CSIR, UBA and VIBHA



CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR) Vigyan Sanchar Bhawan, New Delhi

Launched by Shri Jitendra Singh, Hon'ble Union Minister of State of the Ministry of Science and Technology and the Ministry of Earth Sciences on January 14, 2022

Framework for assessment of the suitability of CSIR technologies for deployment in select geographies (work in progress)

		Basic Information	34	lient Features of Process/Tech
1	Title of the technology		Tentative supply chain (source	
2	Describe the technology		of raw material, machinery to	
	(salient features)		possible market)	
3	Objective of development/		Can it be a part of circular	
	purpose of the technology		economy?	
4	Equipment and machinery		How can the end product(s) be	
	required		utilized?	
5	Duration to the first output			
	after installation		Is/are the end product(s)	
6	Is the product output seasonal		biodegradable? What about the	
	or continuous?		waste products obtained in the	
7	Quality and stability of the		process?	
-	obtained product(s)		Possible chain of value	
8	Market demand of the		addition	
0	product(s)		Can the complete value chain	
9	Resources required (raw	naterial, energy, water etc.) for	be made locally?	
			How everything from top to	
	operationalization of the technology		bottom can be made in the	
10	Climatic and geographical		village itself (circular and	
10	conditions required		local)?	
	(temperature, rainfall,		How to implement the	
	humidity, winds, terrain, soil		technology from root to tip?	
	condition etc.)		Can the technology be	
11	Area footprint of the process		implemented at family-level or	
12	Gestation period of the project		is external manpower required?	
13	Minimum economic unit size		Training days or months	
14	Indicative investment (please		required to learn the	
	provide separately for		technology properly	
	minimum-sized unit and for	teemology property	Additional Information	
	larger units)			Additional Information
15	If the technology is a plant/		Manpower required to run the	
	crop etc.,		technology	
	• What is the shelf life of the		Status of commercialization of	
	crop?			
	 Compared to the parent 		the technology. Please provide	
	variety, what diseases is it		details.	
	prone to and the incidence of infection?		Scale of funding required	
			Budget with breakage	
16	Advantages of the indicated		Type of certification(s)required	
	technology over other similar		for the product	
	commercially-available technologies (please share		Risk(s) involved with the	
			technology/ process/ product	
	Grande Grande Grande			

Technology photos

supporting data)

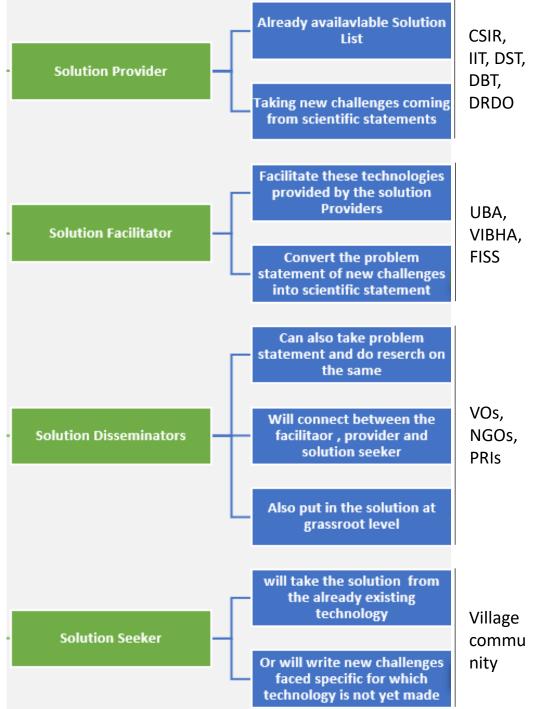


Tech4Seva

Technology Outreach as an Enabler for Inclusive & Sustainable Development

Tech4Seva is a process to bring all stakeholders (technology providers, disseminators, facilitators, and seekers on a common platform in realtime to facilitate rural development through S&T.



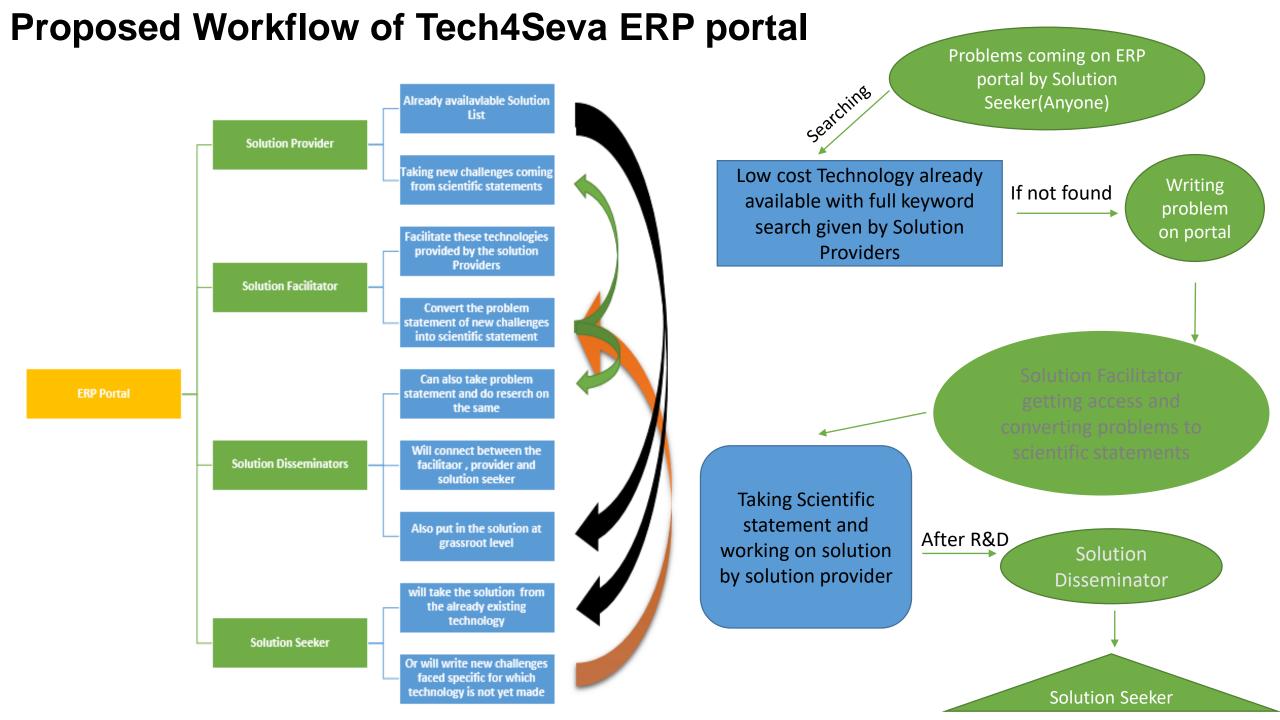


TECH4SEVA 2019

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Lipha

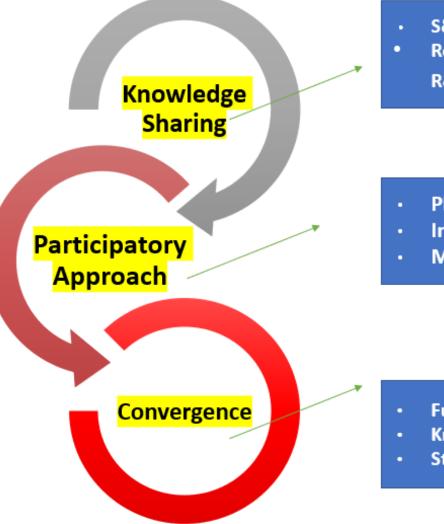
TECH4SEVA 2021





Ethos of UBA





S&T Intervention **Reorientation of** R&D Design

- Planning Implementation
- Monitoring

- Funds
- Knowledge
- Stakeholders





Unnat Bharat Abhiyan resonates with the UN 2030 Agenda and **Atmanirbhar Bharat Abhiyan**





Unnat Bharat Abhiyan is striving to transform rural development and make villages self-reliant through initiatives on:









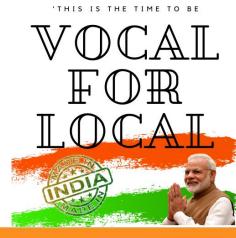
EQUALITY





Transforming rural livelihood through S&T interventions

- Women empowerment and gender equality
- Sustainable food and water production and management
- Natural resource management and protection



If we have to build a nation, we should start from the villages

> SHRI NARENDRA MODI. HONORABLE PRIME MINISTER OF INDIA



Thematic Areas





Sustainable Agriculture



Water Management

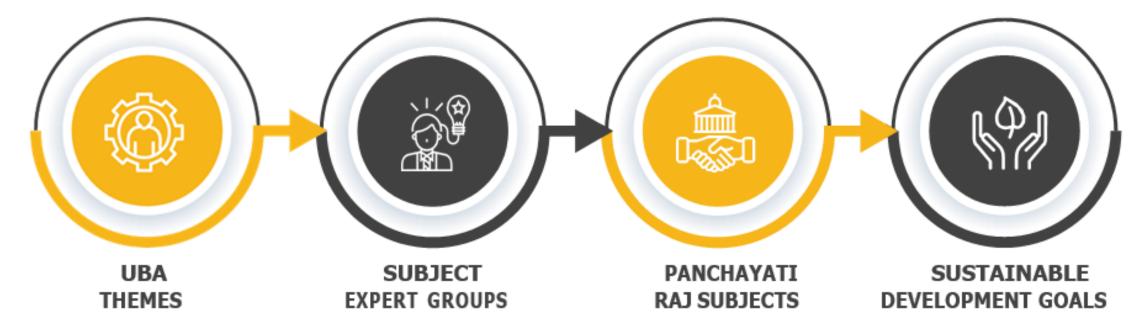


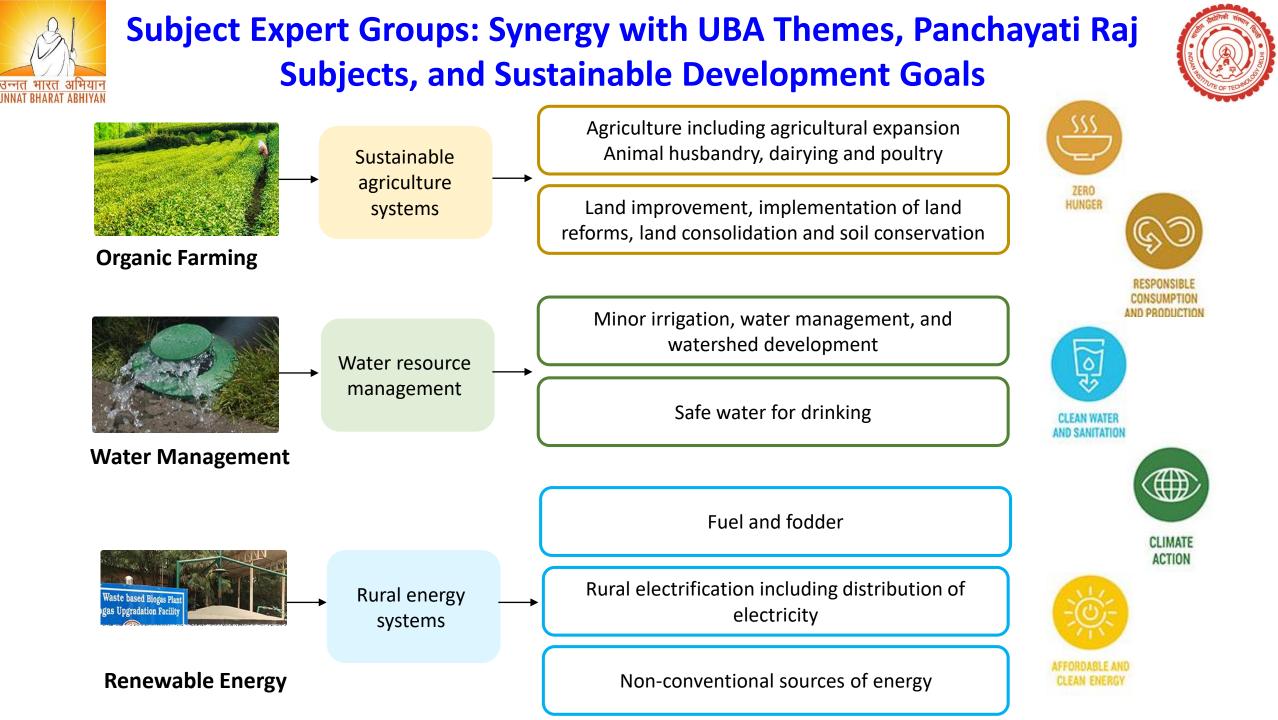
Renewable Energy System

Basic Amenities

Artisans, Industries and Livelihood

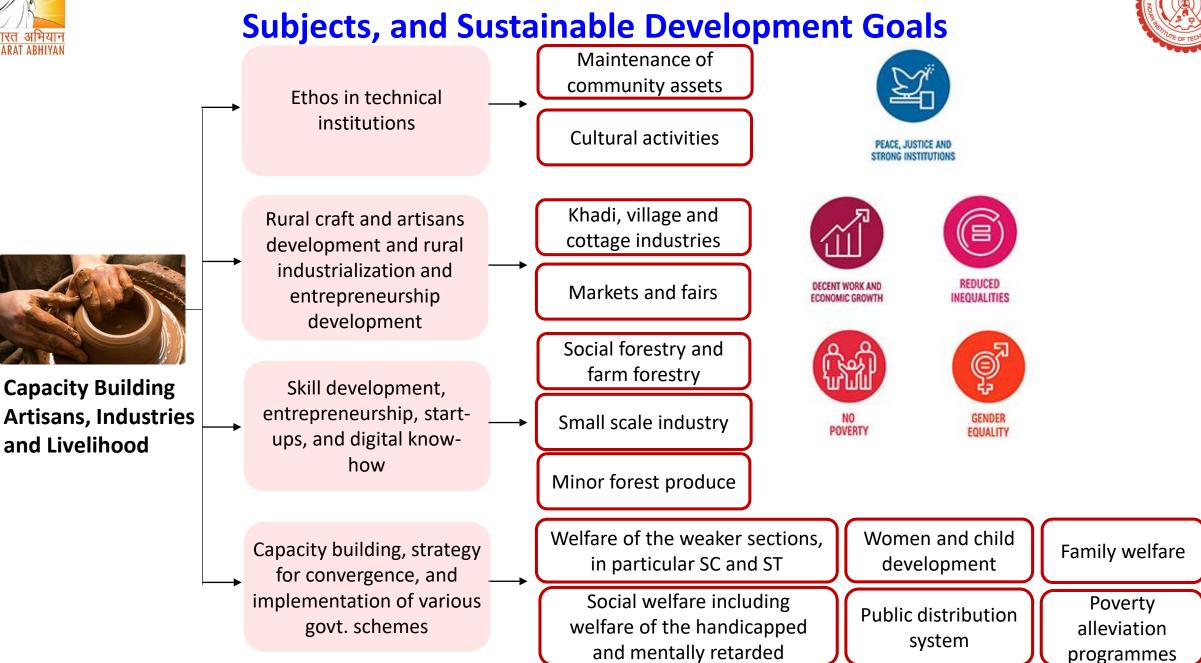
SUBJECT EXPERT GROUPS' SYNERGY WITH

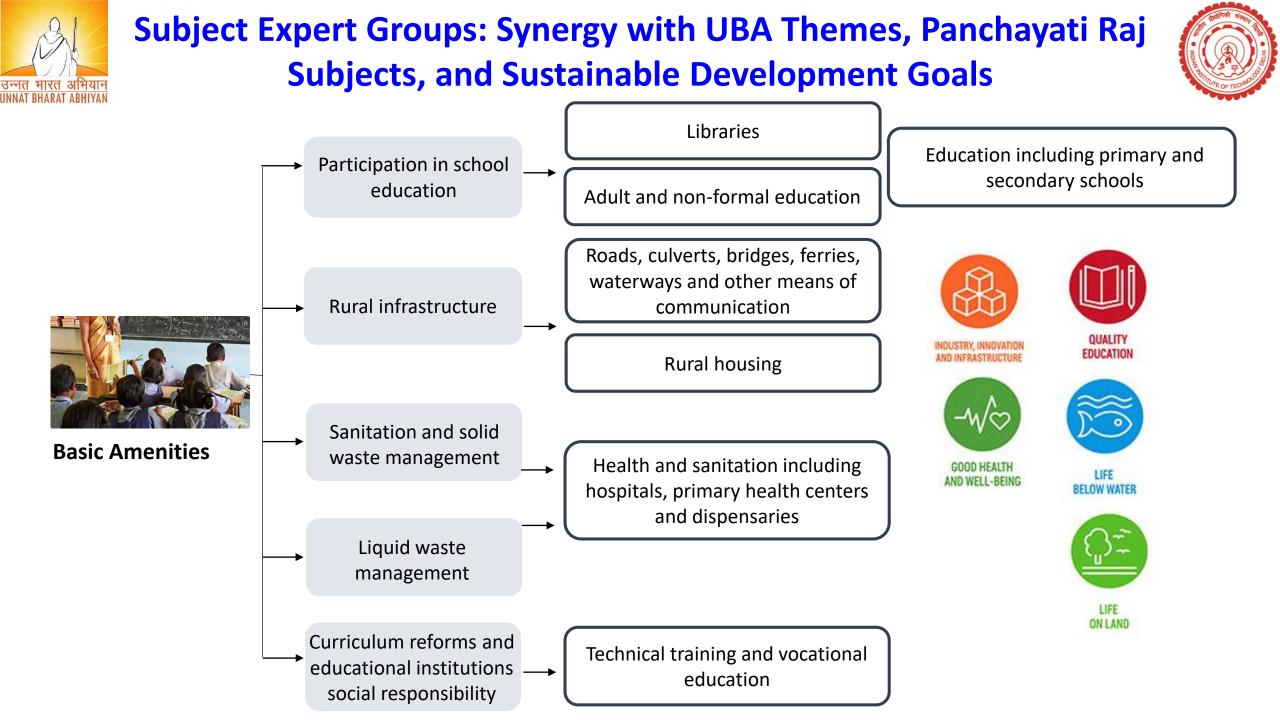






Subject Expert Groups: Synergy with UBA Themes, Panchayati Raj





The future of India lies in its villages.

