



**INVEST INDIA**  
NATIONAL INVESTMENT PROMOTION  
& FACILITATION AGENCY



सत्यमेव जयते

Office of the  
Principal Scientific Adviser  
to the  
Government of India



# Environmental Infrastructure and Technologies Needs for Building a Decarbonized Society in India

12<sup>th</sup> Jan 2023

# Prime Minister's Science, Technology, and Innovation Advisory Council (PM-STIAC)



## NATIONAL MISSIONS



Natural  
Language  
Translation



Quantum  
Frontier



Artificial  
Intelligence



Biodiversity



Electric  
Vehicles



Genomics



Deep Ocean  
Exploration



Waste To  
Wealth



AGNIi

# Structure and Focus Areas

## Office of PSA Programme Support

PSA / MoS PMO/STI Thematic Agenda (STAS-G)  
Empowered Technology Group

High impact programme interventions

*Energy & Climate Change*

*Infra & Industry*

*R&D Technology Scaling Hubs*

*Modular Hospital –  
Sustainable construction*

*Agri*

*Social / Education*

*Innovation Hubs*

*Capacity Building Comm.  
Innovation Hub*

*Health*

*Security*

*MSME Technology Upgrades*

*Rural*

**Tech Scouting**

*Industrial*

*Focus domains:*

*AI*

*Quantum*

*Robotics*

*Cyber physical*

*Materials*

*Energy*

# Execution Process

## Priorities and pain-points

- Technology roadmapping
- Field visits to frontiers

## Technology use-cases

- Operational Scenarios
- Technology Capability Maps and Stacks

## Identify technologies : Startups + labs + enterprise

- Technology assessment frameworks
- Technology showcases to stakeholders
  - Pathway 1 – Ready for deployment*
  - Pathway 2 – Customization / integration*
  - Pathway 3 – Collaborative R&D*

## Scaling mechanisms

- Iterative technology development
- Trials at field locations
- Government – Industry Technology Roundtable

## RFP action

Office – AGNli Technology Advisory Notes

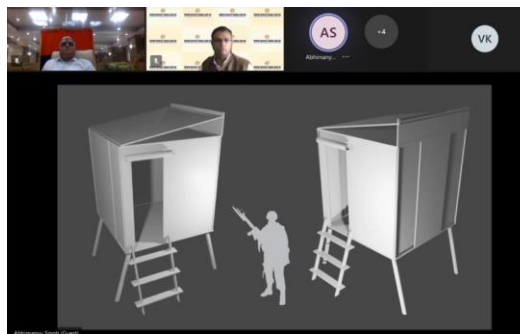
### Field visit to BSF Rajasthan and Kashmir frontiers



### Consultation with senior decision-makers.



### Technology Showcases



### Virtual Technology Showcase to 4 Directorates



### AGNli Driven Innovations assisting the NDRF-led Chamoli relief operations: February 2021



BSF IG Kashmir Meeting with BBNL



Drone footage of Tapovan tunnel

# 1.1 Pain Points | AGNIi Field Visits: *Frontier Rajasthan / Sector S. Jaisalmer* | Apr. 2021



# 1.2. Pain Points | AGNII Field Visits: *Frontier Kashmir* |

*Aug. 2021*



BSF 91Bn TachHQ Peer Baba. Sector Baramulla. Line of Control. Frontier Kashmir. 23 Aug 2021

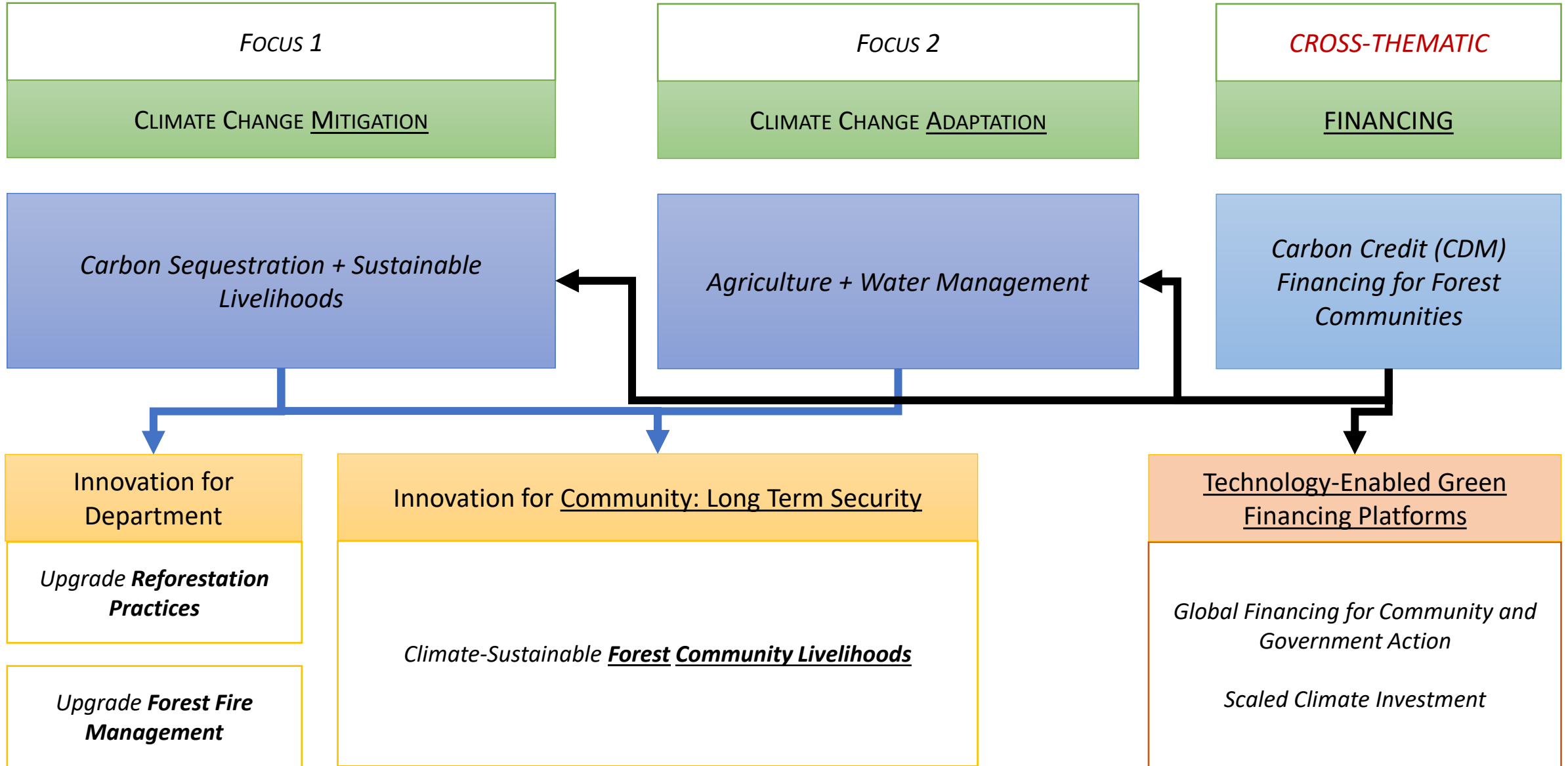


BSF Bn172 TachHQ Balbir Point, Sector Kupwara, Frontier Kashmir 25 Aug 2021

BSF 91 Bn FDL Jabra and Patiala, Nougam. Sector Baramulla. Frontier Kashmir. 24 Aug 2021

## 2. Priorities | AGNIi Director- and Inspectors-General Consultations | Frontiers: RAJ, PB, Jammu, S. Bengal, MZ | Mar-Jun 21







# Technologies for Decarbonization



**1. Alternative energy sources**



**2. The carbon value chain**



**3. Short- and long-term  
renewable energy storage**



# Unlocking the potential of AI for decarbonisation



# Thank You

Please connect with [agnii.gov.in](http://agnii.gov.in) /  
[sustainability@investindia.org.in](mailto:sustainability@investindia.org.in)