

Roadmap #2

Supporting Community-led Climate Innovation in Fragile Settings

To empower community-driven discovery, co-creation and scaling of climate technology

→ This roadmap explores how community-led innovation can emerge in fragile contexts, where local knowledge, inclusive practices and adaptive tools unlock climate resilience, supported by a responsive innovation system.

PHASE 1

Local problem framing

Needs assessment

Ideation workshop

Participatory rural appraisal (PRA)

PHASE 2

Community ideation & collaboration



PHASE 3

Co-development & prototyping

Community Workshops

Engineer and business leaders



PHASE 4

Pilot testing & adaptation

Peer prototyping circles

Monitoring & evaluation analysis

User analysis

PHASE 5

Implementation & feedback

Usage diary method

Train-the-trainers

PHASE 6

Institutional alignment & scaling

Tech adoption checklists

Investment pitching

Policy co-design roundtables



Legend

- 1 Institutions-Community**
Local governments / NGOs, ministries / communities
- 1 Barriers**
Silos / lack of data / exclusion / top-down
- 1 Enablers**
Participatory needs assessment / alignment with NDCs / TNAs
- 1 Digital tools**
Climate risk survey tools / participatory mapping platforms
- 2 Institutions-Community**
Innovation hubs / local governments / research institutes / communities
- 2 Barriers**
Low awareness of innovation processes and entry points / power asymmetries
- 2 Enablers**
Co-design facilitation guides / small grants and stipends for community ideators
- 2 Digital tools**
Mobile apps / tablets to capture inputs
- 3 Institutions-Community**
Innovation agencies / cooperatives / universities / communities
- 3 Barriers**
Lack of funding for prototyping / limited community involvement
- 3 Enablers**
Challenge funding for co-development / partnerships with technical schools
- 3 Digital tools**
Feedback-tracking apps
- 4 Institutions-Community**
Municipal authorities / innovation centres / NGOs / communities
- 4 Barriers**
Weak institutional follow-through / lack of disaggregated data collection
- 4 Enablers**
Adaptive pilot funds / local champions as pilot coordinators
- 4 Digital tools**
Voice and video enabled reporting tools / feedback platforms
- 5 Institutions-Community**
District authorities / NGOs / local councils / communities
- 5 Barriers**
Limited local capacity for maintenance and troubleshooting / feedback loops stop
- 5 Enablers**
Train-the-trainer / peer-led operational teams / dedicated local innovation officers
- 5 Digital tools**
Mobile-based maintenance logs and usage tracking apps
- 6 Institutions-Community**
Ministries / local councils / innovation hubs / communities
- 6 Barriers**
Policy fragmentation / institutional resistance
- 6 Enablers**
Alignment of national climate / sustainability and NSI priorities / multi-level governance
- 6 Digital tools**
Policy dashboards / national open innovation repo

INCUBATOR

ACCELERATOR

VENTURE CAPITAL PRIVATE EQUITY