



Coastal Bioshield case study India



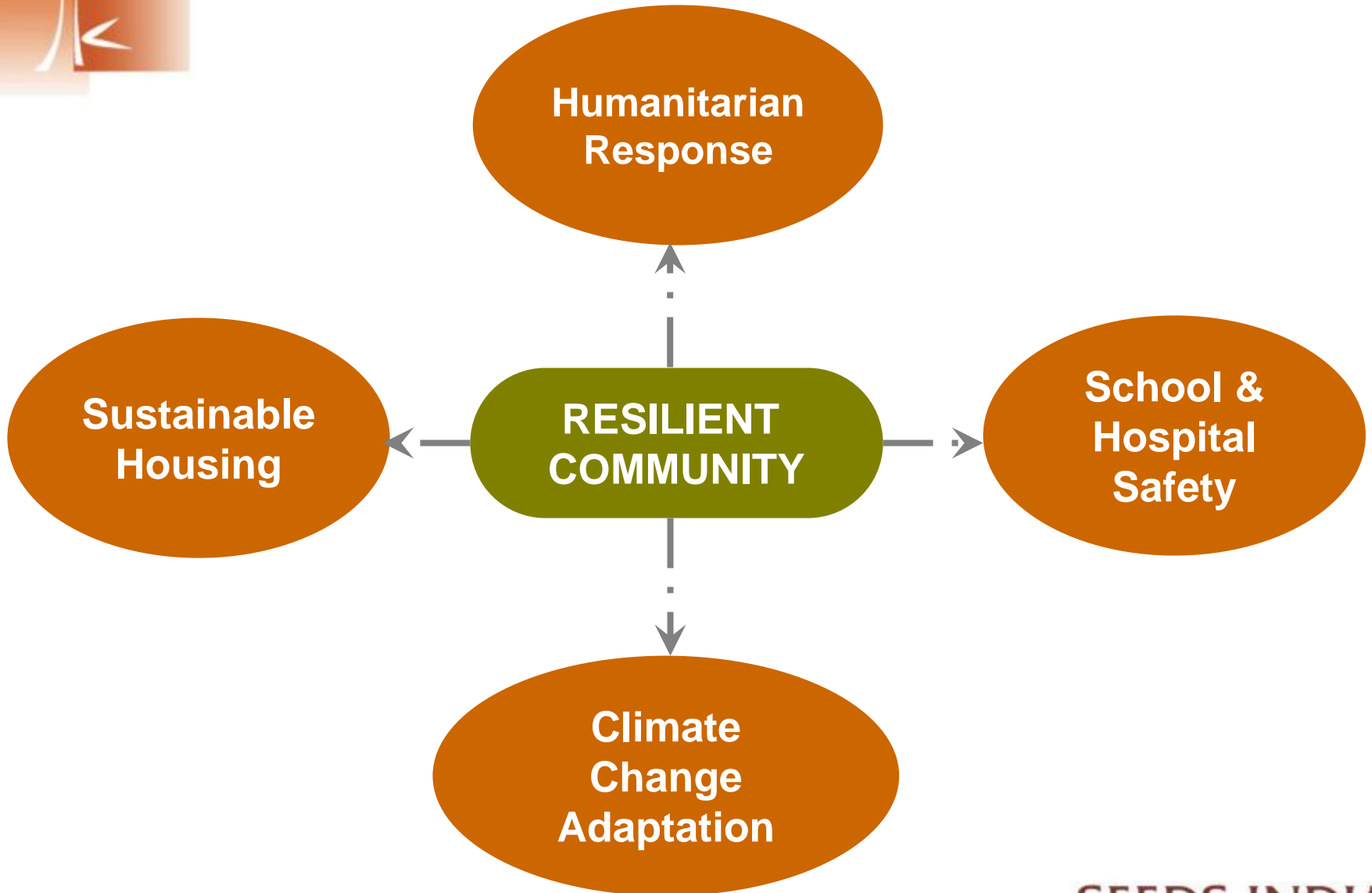
About SEEDS

Founded in 1994 with the aim of making vulnerable communities resilient to disasters

Mission: Equipping the most vulnerable with appropriate tools and technologies, sharing knowledge and skills, and promoting linkages among the stakeholders to prevent life loss and suffering.

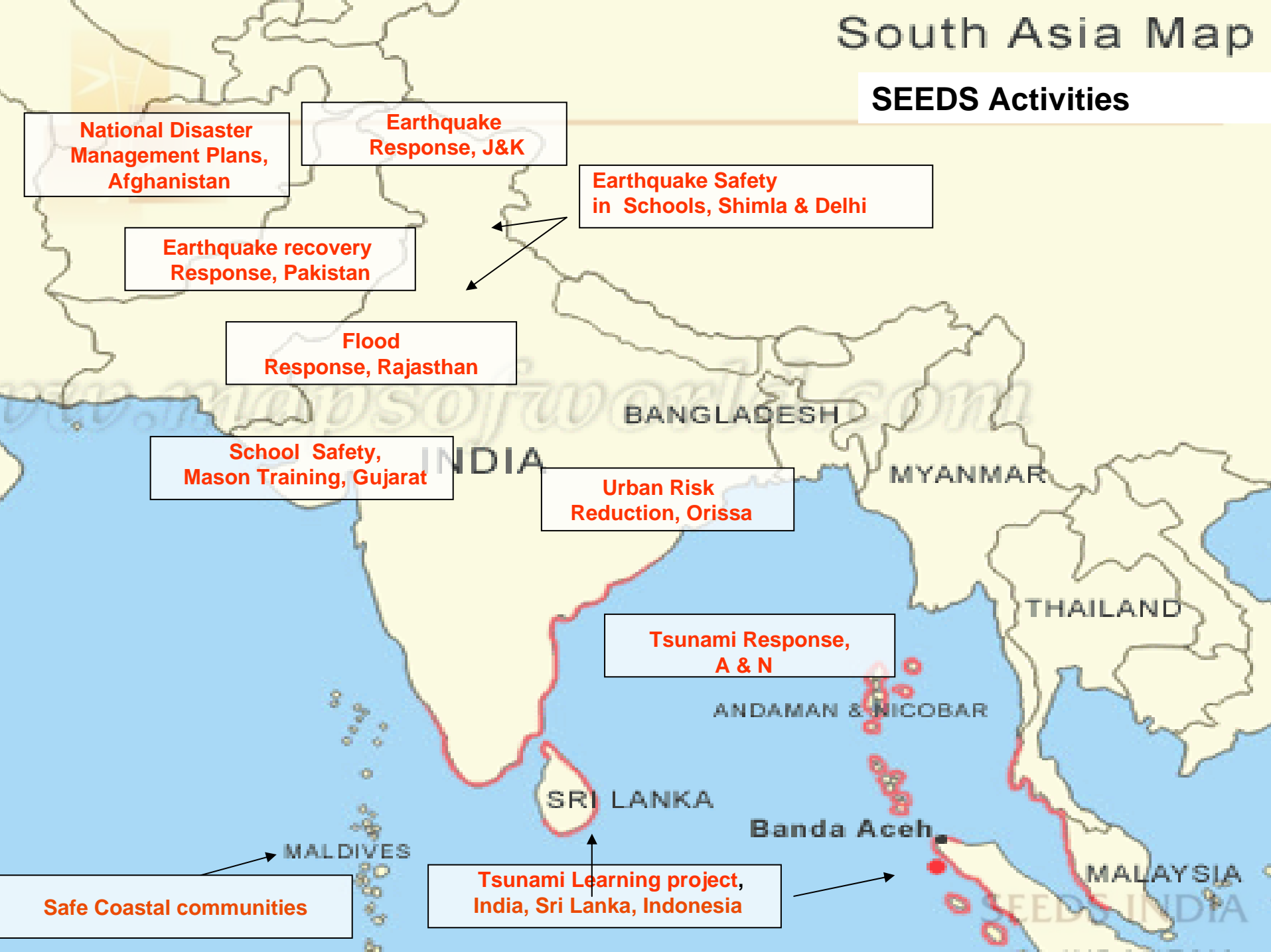
Vision: Resilient Communities

Focus Areas



South Asia Map

SEEDS Activities



National Disaster Management Plans, Afghanistan

Earthquake Response, J&K

Earthquake Safety in Schools, Shimla & Delhi

Earthquake recovery Response, Pakistan

Flood Response, Rajasthan

School Safety, Mason Training, Gujarat

Urban Risk Reduction, Orissa

Tsunami Response, A & N

Safe Coastal communities

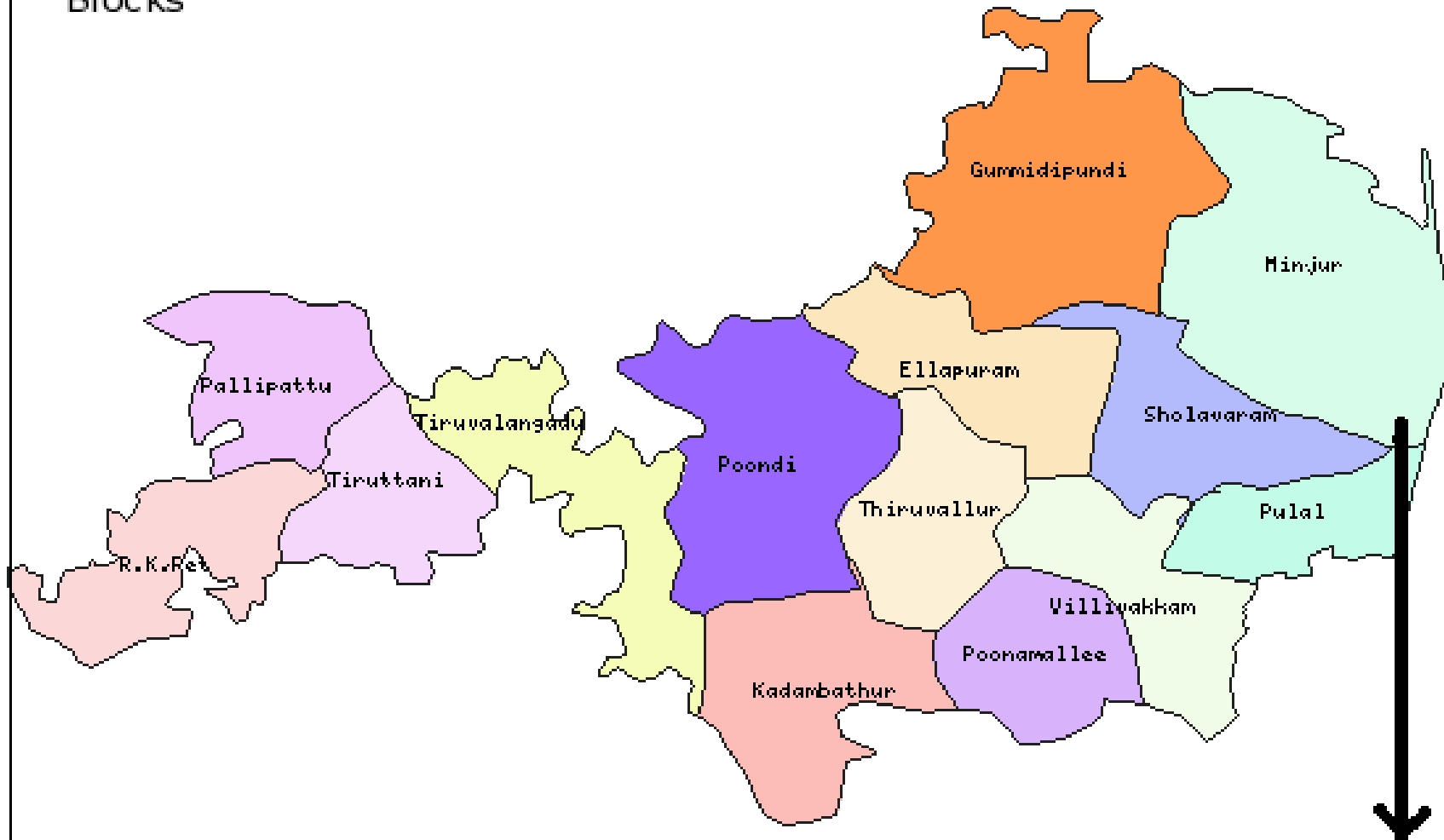
Tsunami Learning project, India, Sri Lanka, Indonesia



**Strengthening Resilience of
the local coastal communities
through
establishing Bioshield in the
disaster prone coastal
districts of Tamil Nadu
South India**

Thiruvallur District

Blocks





Thiruvallur : Minjur Block
Panchayat Villages



→ Light house village panchayat

(Map Not to Scale)
Digital Map Source : TWAD Board, Chennai
Web Design : NIC, TNSC

Light House Village Panchayat

Koonan Kuppam



Sambaspalli Kuppam



Thirumalai Nagar



Light House Kuppam



Light House Nadu Kuppam



Nakkathuravu



Karimanal



Pettai



Pallikuppam



Arangem Kuppam



Vairavan Kuppam





Present Situation of the Residents of Light House Panchayat

- Eleven villages are among the 40 villages that were affected by Tsunami in the District
- Relief and monetary incentives have been given to them
- Government is now constructing Insitu house in all the villages
- However, intensive disaster preparedness exercises have been very minimal
- Awareness program have been carried out by other NGOs among the SHGs
- The fear of sea water rising and entering their village exists



SEEDS Initiative

Strengthen Resilience of the local coastal communities through

- Establishing Bioshield (Vegetation Belt)
- School Eco-clubs
- Village Knowledge Centers (VKC)
- Information Dissemination through Mobile Cell Phones



SEEDS INDIA

Bio shield (Vegetation Belt)

- **Vegetation between sea and living habitat**
- **Barrier for**
 - Sea borne calamities
 - Sea erosion
 - Strom
 - Sand dust
- **Useful as**
 - Shelter
 - Economic value



Community Based Bioshield Development



Consultation :

Traditional Fishers Political Organization

Multi species :

Casuarinas (1m), Pungamia (4m), Thespesia (4m), Neem(4m), and Coconut (5m)

Badam and local variety...as requested by the community

Bio-shield plots:

Identified by the *Panchayat*

Maintenance and Management

- Arranged and organized by the *Panchayat*
- Involving respective villagers and also neighboring villagers

Value addition

- Sand bar cultivation (only in two plots)
- Vegetables – Flat beans, Bendi, tomato, brinjal, green and water melon

Consistent Facilitation, Orientation and Support by SEEDS India



Activities to Develop Residents' Awareness

School ECO-clubs

- **Fortnight meetings, discussion**

Village Knowledge Centers

- **Information pertaining various disasters**
- **Specifically on Sea Borne Disaster**
- **Livelihood**
- **Education**
- **Health**
- **Government and Public related**
- **Very local specific**

Voice mail information dissemination

- **ICT friendly and demystification**



Benefits

Immediate return:

Labour opportunities generated to carry out the different activities pertaining to the development of the bioshield

Short term:

Innovative practices like cultivation of vegetables through sand bar cultivation method

Long term:

Timber from selected species, enhancement of ecological services like under water table, and development of sand dunes.



CHALLENGES

Financial Viability

Common gain

Watering of plants

Ground water levels



At Present...



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Thank you

www.seedsindia.org

