

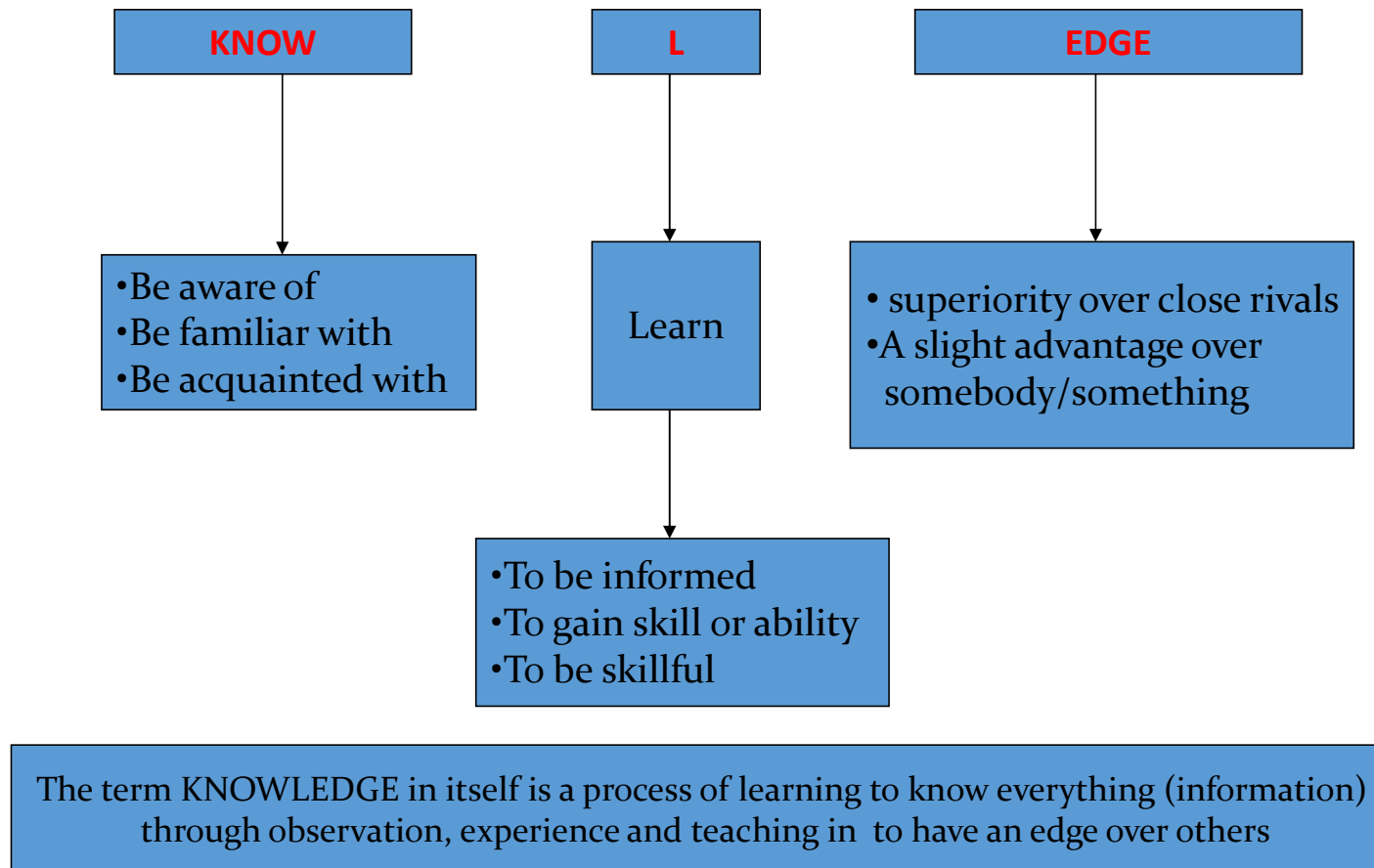
Knowledge Management in Climate Change

Dr P K Bhattacharya
Associate Director & ENVIS Coordinator, TERI



Creating Innovative
Solutions for a
Sustainable Future

Decoding **KNOW...L....EDGE**

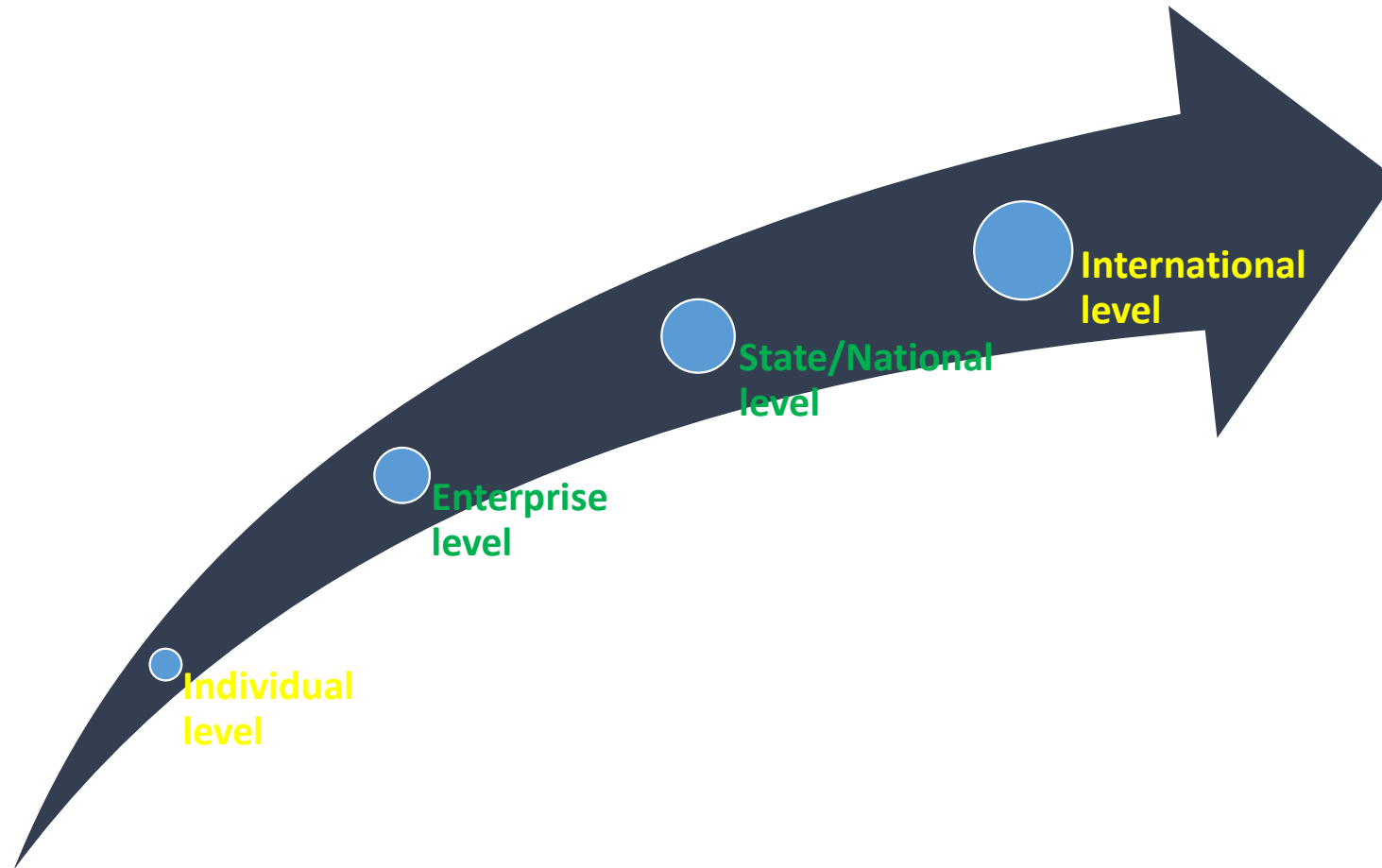


Knowledge Iceberg



The "Iceberg" metaphor describes the relationship between Explicit & Tacit Knowledge

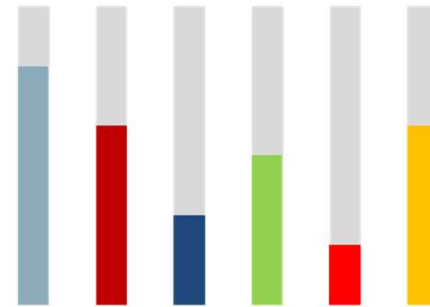
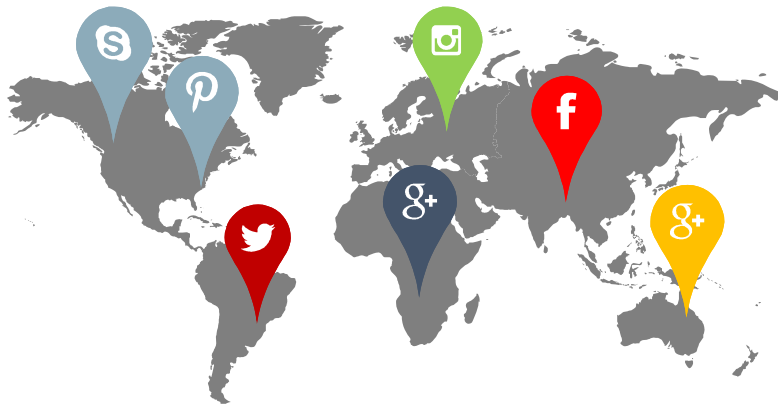
Knowledge Management Types



New “My KM.in ”

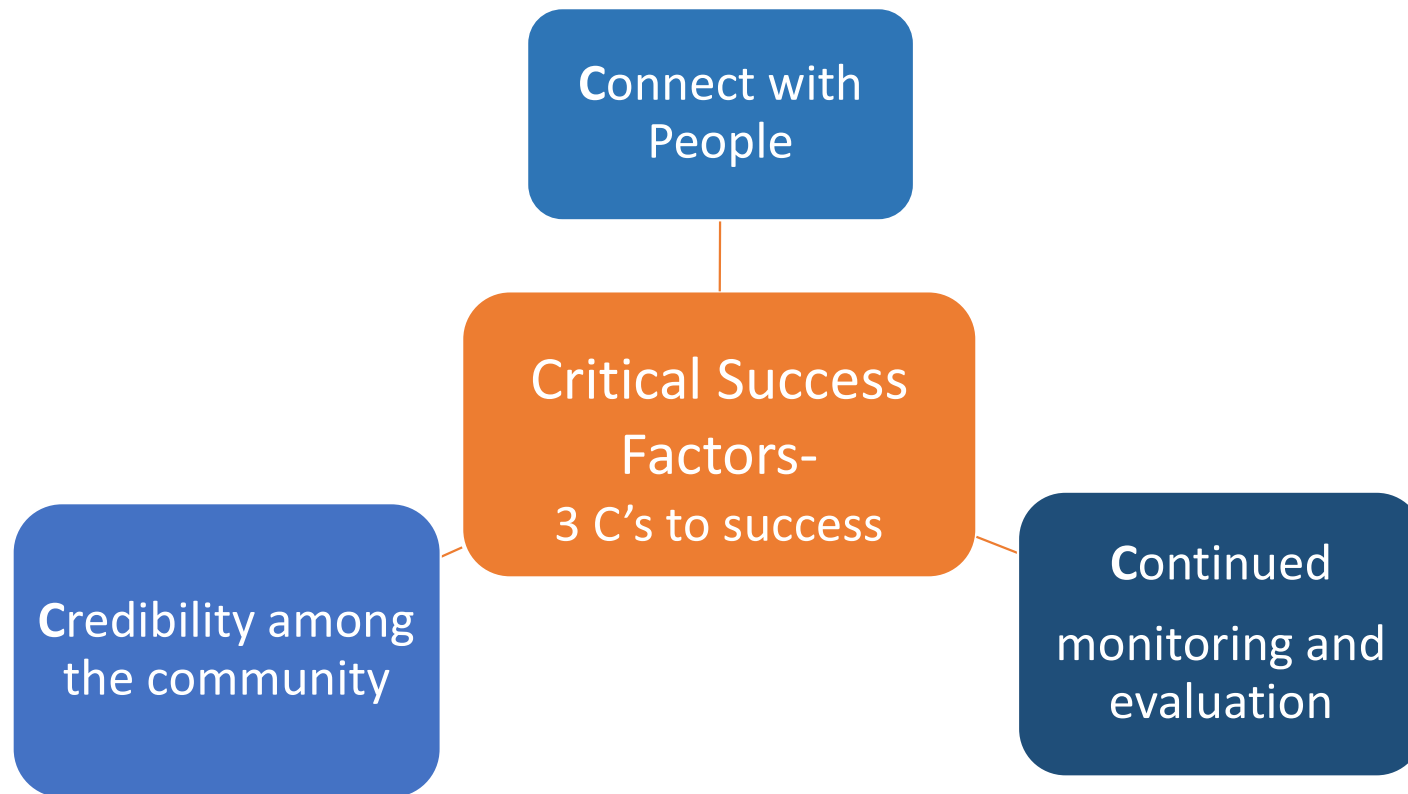


Integration with Social Media & Analytics



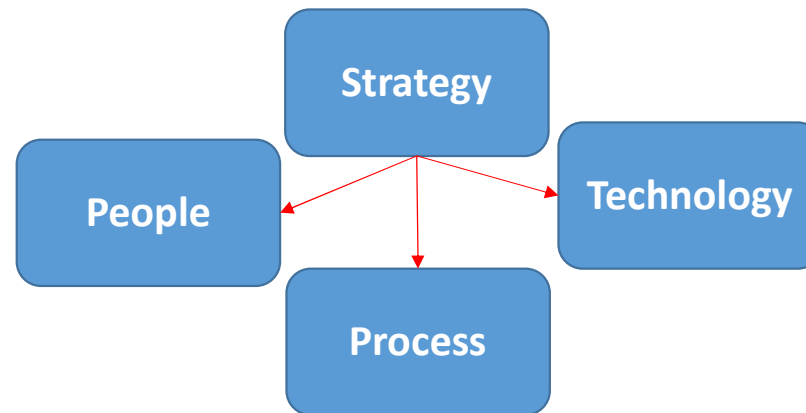
Connectivity and
Measurement Index.

Critical Success Factors



Transformational KM Strategy

- Which factors are crucial for research that can be addressed through KM?
- Which knowledge resource adds most value, and what investments are required to realize this value
- What are the highest priority initiatives

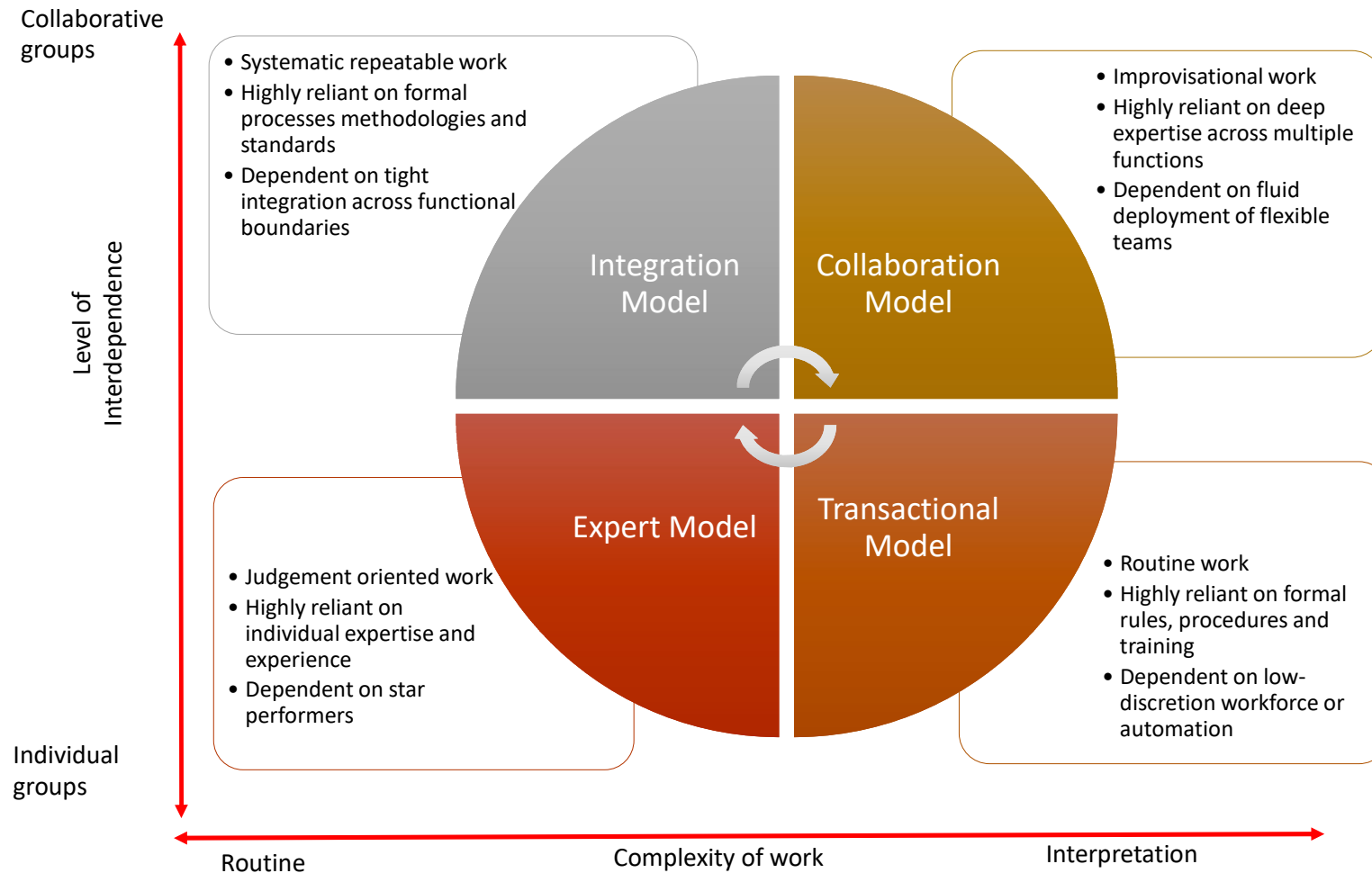


- How do you create a culture
- Which people need to be empowered to contribute the right knowledge
- Are priorities aligned with measurement

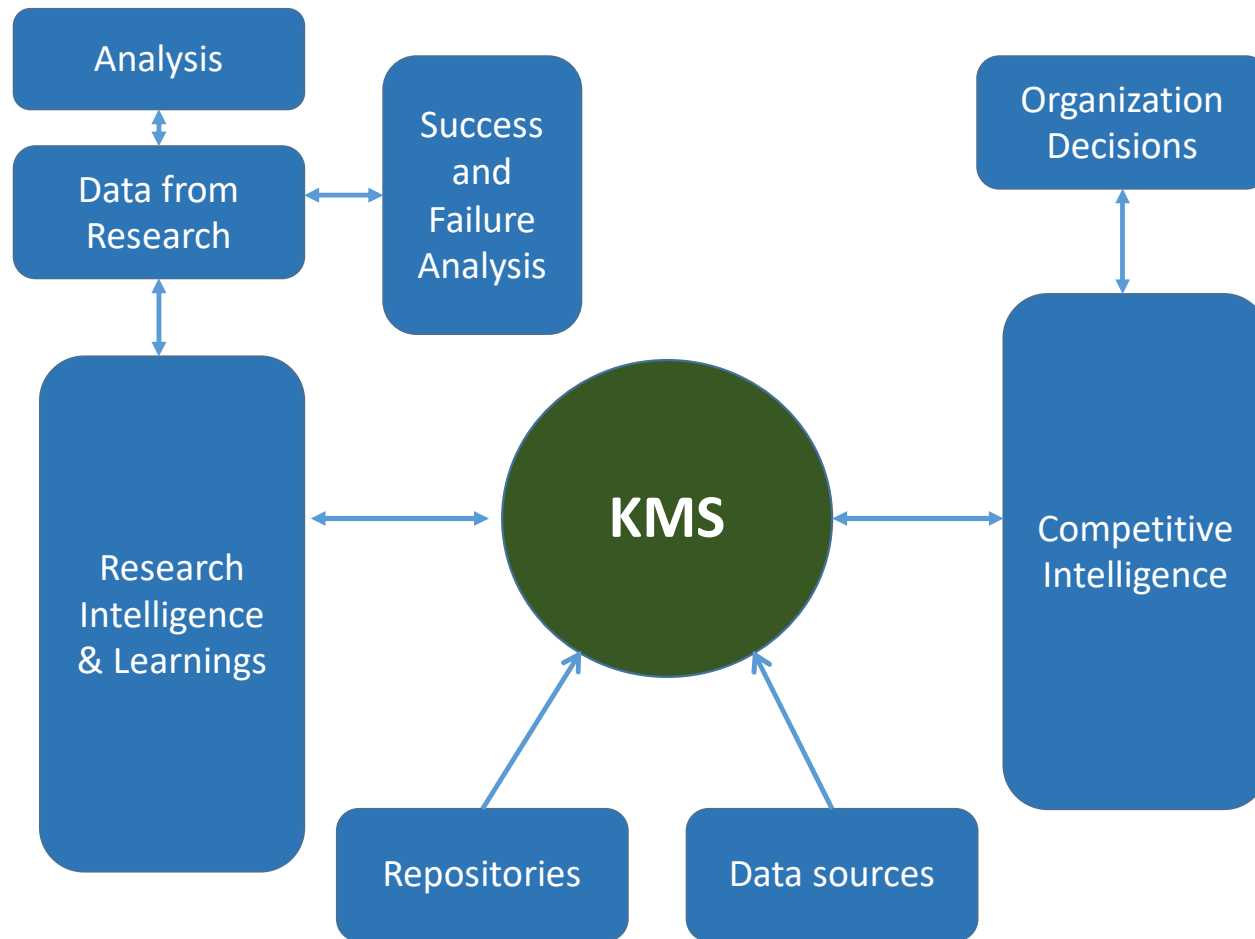
- What tools are currently in place?
- What tools are needed to enable the environment
- How do you fill the gap

- Area the right processes in place to:
 - Capture, refine and create knowledge
 - Disseminate, share and apply knowledge to deliver research/business value

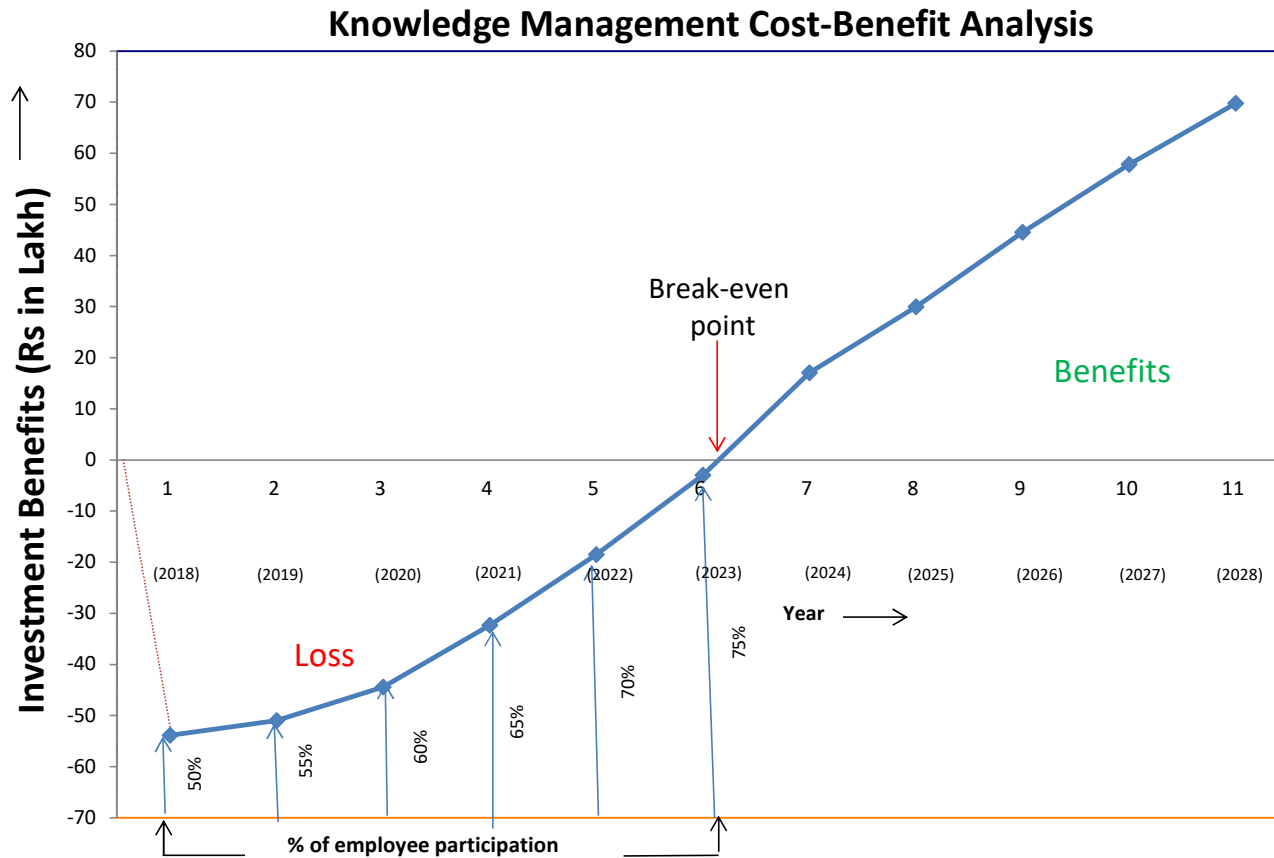
Knowledge Management Framework: Work Models



Sustainable Competitive Advantage

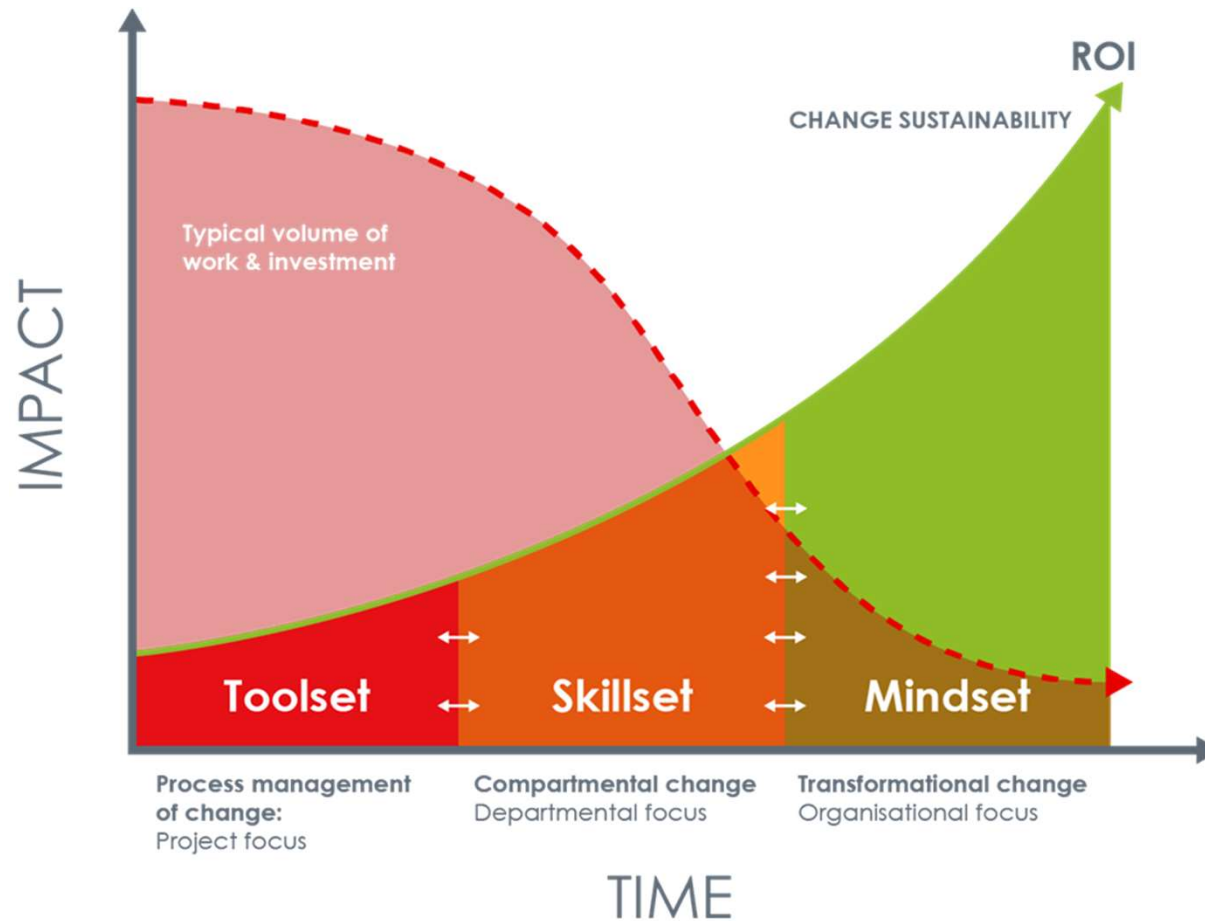


Knowledge Management Rol Benefits



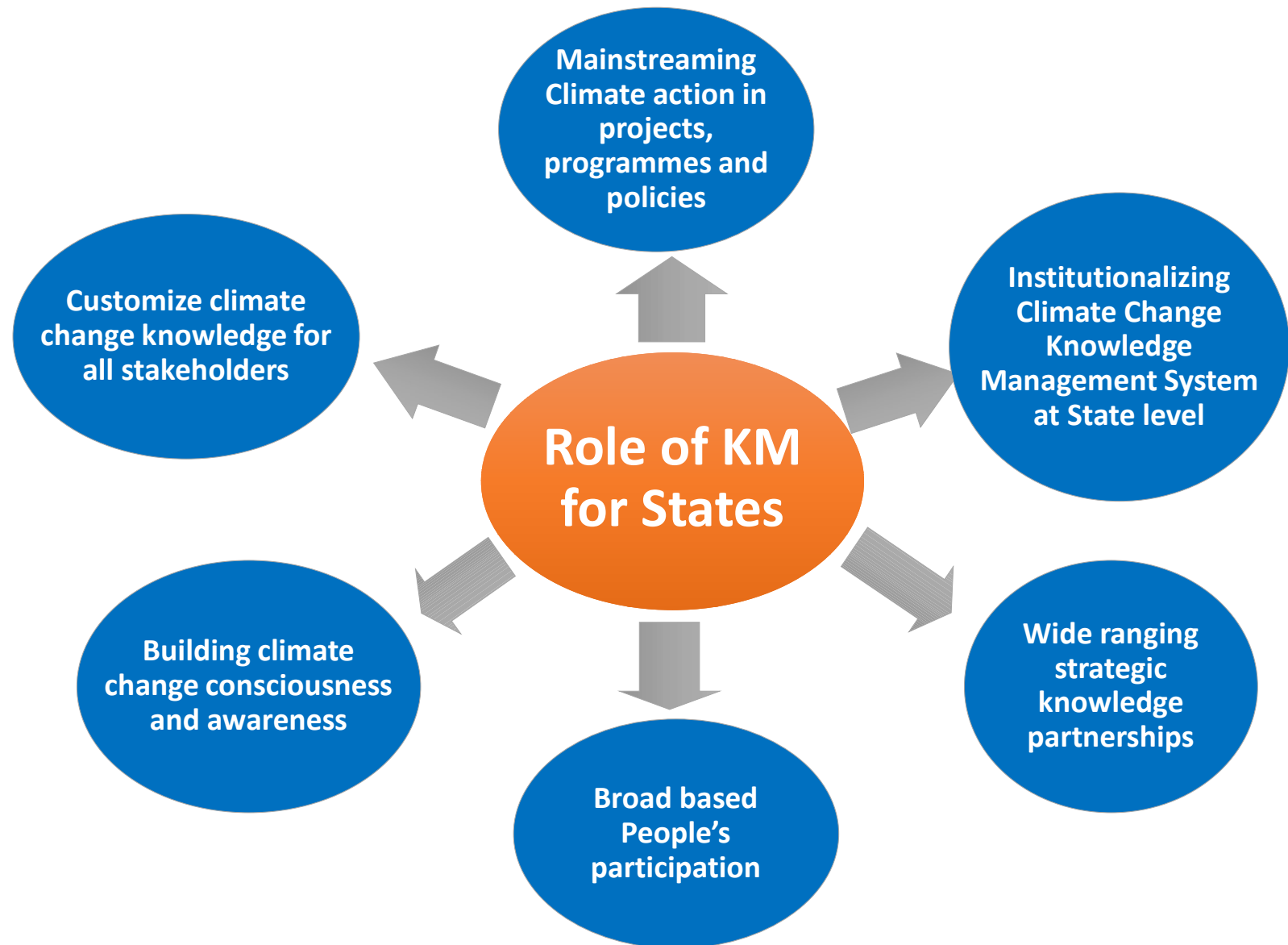
- All knowledge items available for consultation as required
- Organization memory retained
- Work duplication minimized
- Saves time for productive work
- Collaborative work possible
- Knowledge driven value added services creation are possible through derived competitive advantages
- Evidence based decision making leads to error minimization at community level

Knowledge Management Strategy (Impact Measurement)



Value of Knowledge Management in Climate Change

- Knowledge Management facilitates climate change best practices and examines barriers to use of knowledge for climate change mitigation, adaptation and disaster risk reduction
- Immediate benefits:
 - Knowledge professionals and researchers to improve practices and come together as a community to solve a local/global issue
 - Data scientists to leverage KM and artificial intelligence (AI) technologies to build and analyze large datasets to support climate action
 - Donors, to contribute towards significant societal benefits made possible through better KM driven assessment and its contribution towards more informed decision-making



Key Activities of Climate Change KM

- Education and Training
- Resource Development
- Networks and Strategic Partnerships
- Engaging Communities
- Knowledge Portal
- Communication and Outreach



Education and Training

Low levels of awareness and limited understanding of climate change issues is an impediment for implementing adaptation measures

- Organize and capture proceedings of technical sessions, workshops, dialogues on Climate Change
- Develop education and training resource material

Target Group: Research professionals, Policy makers, Communities, Children and Youth

Purpose

- Build capacity of all interested stakeholders and encourage public participation for devising adequate response measures for Climate Change
- Open lines of communication and build trust and ownership for the climate change activities



Knowledge Resource Development

Inadequacy of information may lead to declining stakeholder interest, and may not be possible to generate all the resources at a single source

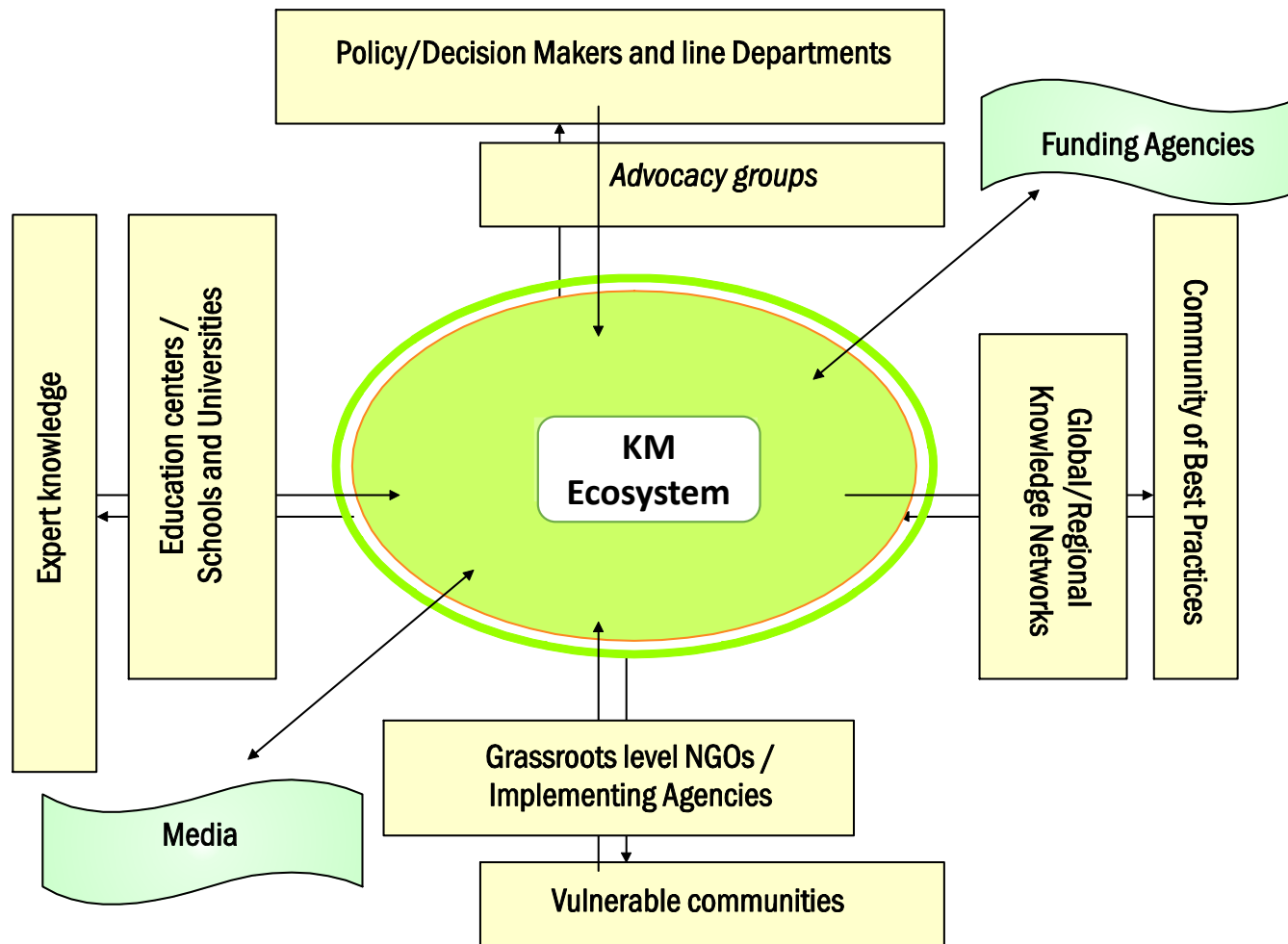
- Employing innovative ways to engage various sources of knowledge by
 - collaborating with different partner organizations and stakeholders in sourcing and generating new knowledge catering to user needs
 - motivating, facilitating and coordinating newer research relevant to the State
- KM should ensure **Quality; Quantity; Reliability** and **Accuracy** of the knowledge resources

.....*Knowledge Resource Development*

- Collecting research studies and scientific assessments including:
Research studies to develop climate scenarios for the State
- Compilation of latest scientific studies and reports on Climate Change
- Climate Change Policies and latest developments
- Inventory of experts and organizations who are working in different areas/ themes
- Information about best practices and FAQs
- Policy briefs specific to the State
- Audio/Video clips on climate change



Networks and Strategic Partnerships in State



.....Networks and strategic partnerships



Scope of KM work

- Identify knowledge needs and gaps
- Stakeholder mapping
- Inventory of good practices



Building Networks

- Inventory of relevant forums/knowledge networks with a brief description of their topical focus
- Networks could be theme specific engaging policy makers, scientists and members from the civil society or specific to user groups e.g network of Children and Youth
- Networks will be facilitated by a moderator



Clear rules and guidelines

- Clear roles and terms of engagement
- Identification of common rules and mechanisms for knowledge sharing and transfer
- Clear guidelines for conflict resolution and an exit strategy



Incentives

- Identify local champions who will be recognized and awarded
- The incentives can be financial awards or non-financial which are reputational in nature
- Credit based incentive structure

Climate Change KM in Practice: TERI Cases


Role of TERI ENVIS Resource Partner

Established in 1984 under ENVIS Programme of MoEFCC, Government of India

- **Location:** Knowledge Resource Centre, TERI, New Delhi
- **Operational:** since July 1984
- **Expertise areas:** Renewable Energy and Climate Change
- **Mode of activities:** Research, Surveys, and Trainings/Workshops, GSDP, NES
- **Major features:** GSDP, Research outputs in Renewable energy, Sustainable development, climate change, Online databases
- **Contact us:** www.terienvis.nic.in




Conducting Green skill Development




Contributing to National Environment Survey



Engaged in Community-driven Environmentally Sustainable Village Programme



Identifying & bridging knowledge gap on RE & climate change research



Information dissemination through communication tools to support Research and Policy

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ENVIS Resource Partner on Renewable Energy and Climate Change

Hosted by The Energy and Resources Institute, Delhi
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Plastics are useful, cheap and extremely popular. Global demand has quadrupled in the last forty years and is expected to continue to rise, with correspondingly negative consequences for the environment and human health. The public is generally aware of the environmental harm caused by plastics at the end of their life cycle in particular, such as when they release greenhouse gases and air pollutants when burned, or pollute water and soil in the form of microplastics. [Read more](#)

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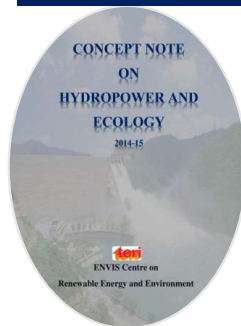
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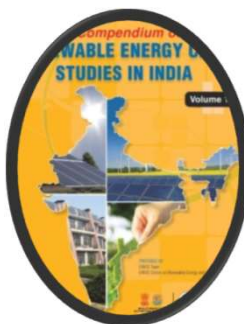
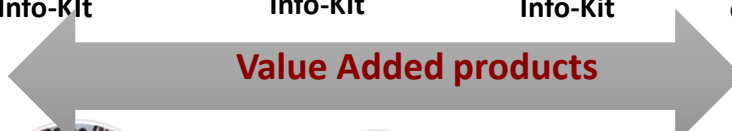
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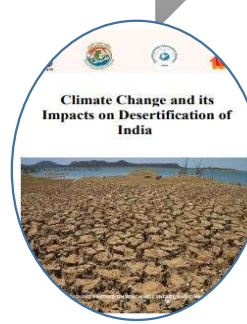
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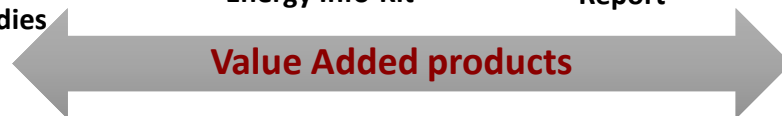
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**Climate Change
and its impacts on
Desertification of
India**



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Green Skill Development Programme (GSDP)

Sustain and Enhance Technical Knowledge in Solar Energy Systems

18 GSDP trainings conducted in different parts of India

7 Ongoing GSDP trainings

Trained over 780 students; 50% students are earning livelihood

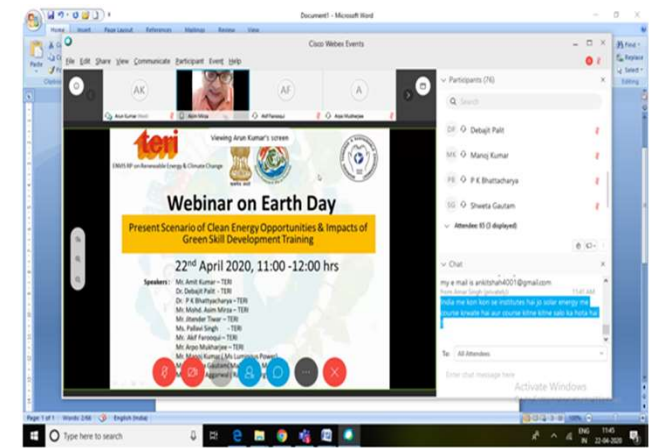
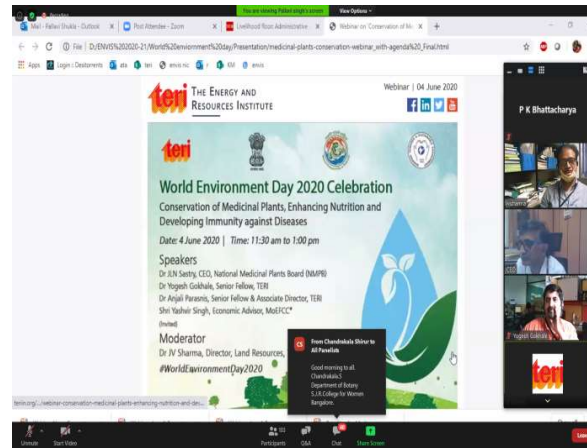
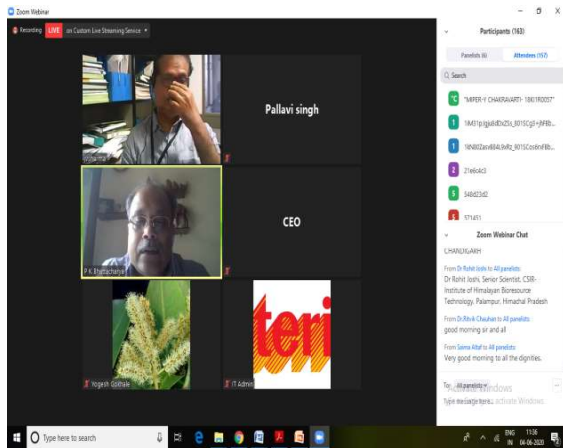
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Solar Installation



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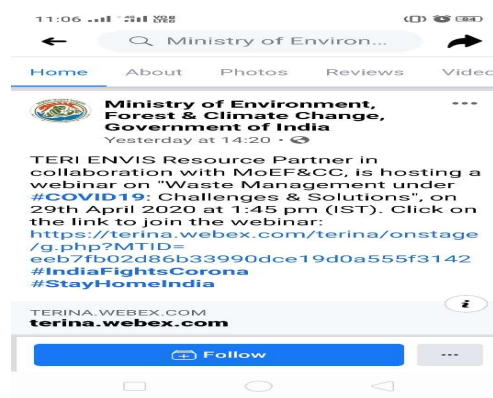


Stakeholder's outreach



Promotion & Outreach

- Promotion of ENVIS through webinars, annual seminar in different parts of India
- GSDP programmes & livelihood generation at different parts of India
- Success Stories of GSDP trainees in MoEFCC Portal
- Promotion of Webinar through MoEFCC twitter handle



- Aggressive promotion through local & online media, community level awareness generation, e-mails of publications, social media campaign etc
- Promotion through online & offline brochures, posters, leaflets



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World Bank
World Bank; Washington, DC

» [Emergency food security assessment: Tigray Region, Ethiopia](#)

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World Food Programme; Rome

» [Are cities in Southern India breathing safe air?: an air quality analysis of 10 cities from South India](#)

Akanksha., Chanchal, Avinash Kumar
Greenpeace India; Bengaluru

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Press Information Bureau, 30 April 2022

» [Climate change may increase risk of new infections](#)

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Events

» [Climate Week 2022: World Conference on Climate Change & Sustainability](#)

Virtual
22-25 August 2022

» [22nd Meeting of the Contracting Parties to the Barcelona Convention and its Protocols](#)

Antalya, Turkey
07-10 December 2021

» [UN Climate Change Conference of the Parties \(COP26\)](#)

Glasgow, UK
31 October 2021 - 13 November 2021

» [Tackling the food waste funding gap: financing food waste prevention to combat climate change](#)

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Abstract Database

The Abstracts Database is a comprehensive reference source of literature abstracts on climate change. About 35 national and international journals are scanned and the database updated regularly. The abstracts broadly deal with policy issues; science of climate change; impacts, vulnerability and adaptation issues; greenhouse gas emissions and mitigation; economics of climate change; climate change and energy security; and ozone layer depletion.

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- [India's emissions in a climate constrained world](#)

Author : Singh K

Source : Energy Policy 39(6): p.3476-3482

- [Optimal mitigation strategies with negative emission technologies and carbon sinks under uncertainty](#)

Author : Fuss S, Reuter W H, Szolgayová J and Obersteiner M

Source : Climatic Change 118(1): p.73-87

- [Simulating potential impacts of future climate change on post-rainy season sorghum yields in India](#)

Author : Chadalavada K, Gummadi S, Kundeti K R, et al

Source : Sustainability 14 (1)

- [Assessing the impact of climate resilient technologies in minimizing drought impacts on farm incomes in drylands](#)

Author : Samuel J, Rao C A R, Raju B M K, et al

Source : Sustainability 14 (1)

- [Toward a climate mobilities research agenda: Intersectionality, immobility, and policy responses](#)

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Year of Publication : International Union of Forest Research Organizations (IUFRO); Vienna
Publisher : 2020
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2020

Author(s): Medimorec N, Enriquez A, Hosek E, Peet K, Cortez A

The report outlines how passenger mobility trends in urban environments have been impacted from the first weeks of the global COVID-19 pandemic. It does not provide a complete picture of how passenger transport is being impacted.

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Reports

Transport, Climate Action and Sustainable Development

2018

Author(s): SLOCAT Partnership, IsDB Technical Partner on Sustainable Transport

This report, the result of the second phase of IsDB and SLOCAT collaboration, emphasises that a successful implementation of sustainable transport measures in the context of the Paris Agreement and the 2030 Agenda must involve concerted and coordinated efforts to more closely link the processes of developing, implementing and tracking progress toward Nationally-Determined Contributions (NDCs) and Voluntary National Reviews (VNRs)

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Decarbonising Transport in India: Learning from Life Cycle Assessment

Workshop Summary

Publication Year: 2021

Author(s): International Transport Forum (ITF)

Abstract:

This publication presents a summary of the workshop "Life cycle assessment methods to support India's efforts to decarbonise transport" organised by the International Transport Forum and the National Institute for Transforming India (NITI Aayog) in April 2021. Seventy-seven international and Indian experts took stock of existing work on assessing life-cycle emissions in transport and explored how current knowledge can support India's policies to decarbonize transport. The workshop also identified policy priorities and potential regulatory gaps arising from new vehicle technologies, fuel types and mobility services entering the mass market.

Country: India

Publisher/Organisation: International Transport Forum (ITF)

Rights: International Transport Forum (ITF)

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<https://www.ndctransportinitiativeforasia.org/resources-list/india-life-cycle-assessment-emissions-transport-itf>

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