

Ozone layer protection & soil, water and bio dynamics

**A need based
Science & Technology Communication perspective
An integrated earth sciences framework
to complement India's missions on
climate change mitigation and adaptation**

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Context for valued added S&T Communication: The UV B link

- **India:**
 - **12th 5 – year Plan emphasis on preventive management**
 - **Agriculture**
 - **Community health**
 - **UV B Index of ISRO**
 - **Evolving understanding of pest / vector dynamics & Host plant resistance**
- **Knowledge gaps: India & A global perspective**
 - Individual & synergistic impacts of temp. change & UV B
 - Other physico chemical influences including moisture rainfall & nutrients
 - Biochemical profiles of response by the biotic component
 - Ozone Depleting Substances & global warming
 - Awareness and preparedness of communities about preventive action

Missions & Opportunities: Science & Scientific temper consolidation

- 1. Climate resilient agriculture**
- 2. Water Mission**
- 3. LULUCF**
- 4. Green India**
- 5. Public health**

- **UV B Network of IMD**
- **ISRO IMAP**
- **Solar maps**

Agenda

- A. Research**
- B. Awareness for well informed action**
- C. Community initiatives**
- D. Policy & Plan, Programmes & Projects for preventive action.**

Stimulate demand for Collective & Corrective action

A bottom up approach through applied S&T Communication

- **Logical framework**
 - **Goals, Approaches, Tools and Techniques & Indicators of**
 - **Delivering appropriate information in a timely manner:
Public**
 - **Awareness as a forerunner of training & Capacity building :
Public & providers of alternatives**
 - **Support to mainstream alternatives and other preventive
measures including rewards for well informed action:
Decision makers**
 - **Status of enablers**
 - **Involvement in national missions**

Some low hanging fruits: One year
Towards improved Public Understanding of Science for
Sustainable need based action

- **Vigyan Prasar & IGU / AGU with research centres & experts (ISRO, PRL, NPL, NCL, IMD, MoES, ICMR / VCRC, ICAR / NICRA / Planning Commn, WMO, NASA, UNEP)**
 - **Compendium on**
 - **UV B incidence & Sunburn Index**
 - **Preventive strategies for health**
 - **Impacts on vegetation and adaptive strategies**
 - **Reality checks on**
 - **Present outreach mechanisms and synergies**
 - **Medium term facilitation to sustain term action: 3 – 5 years**
 - **Delivery phase**