

Tuesday, August 9, 2011
WWF-India Conference Hall, New Delhi

River Basin Planning-Viewpoints

Ganga River Basin Environment Management Plan

by



IIT
Bombay



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Delhi



IIT
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GRBMP
RBP View Points

August 9, 2011
WWF India, New Delhi

Relief





अस्या जलस्य गुणाः शीतत्वम्, स्वादुत्वम्, स्वच्छत्वम्, अत्यन्तऊर्ध्वत्वम्, पथ्यत्वम्,
पावनत्वम्, पापहरित्वम्, तुष्यामोहव्यञ्जनत्वम्, कीपनत्वम्, प्रज्ञादायित्वञ्च, इति राजनिर्घण्टः।

The qualities of the Ganga water are:

Coolness, sweetness, transparency, high tonic property, wholesomeness, potability, ability to remove evils, ability to resuscitate from swoon caused by dehydration, digestive property and ability to retain wisdom

Challenge

Protecting the river system

- Continuously flow ( )
- Un-polluted Flow ( )
- Longitudinal, lateral and vertical connectivity
- Adequate space for various river functions
- Ecological entity

Adequate provision of soil, water and energy
Growing population, urbanization, industrialization and agriculture

Our Philosophy

Can not afford to Experiment with River Like Ganga!

Precautionary Principles must apply wherever
knowledge gaps and uncertainties exist

Apply modern science and new technologies but with
traditional wisdom

Gyan Dhara + Jana Gyan

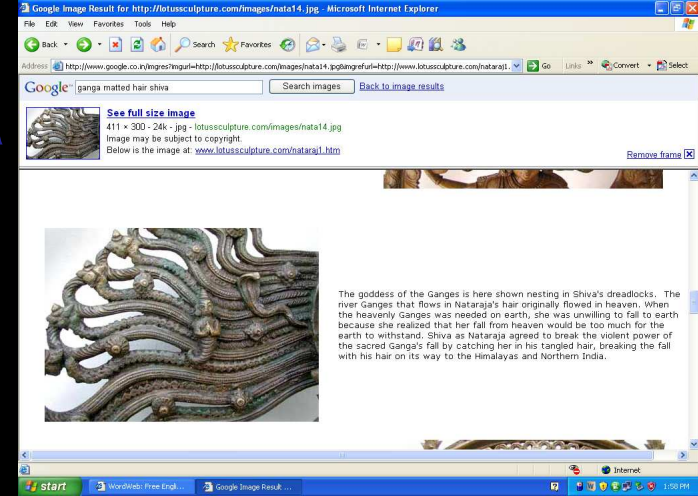
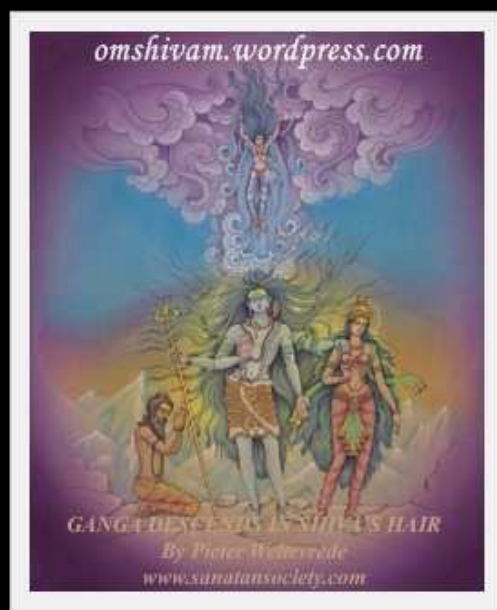
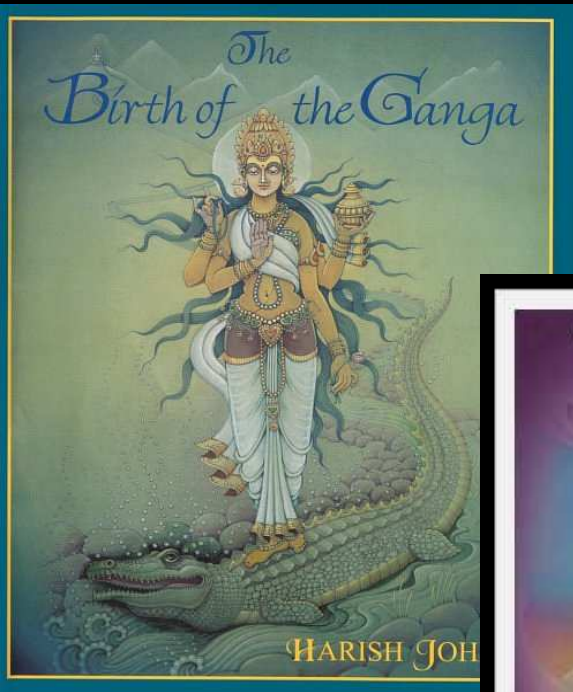
Supportive Capacity and **Assimilative Capacity**

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GRBMP
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Origin of the River Ganga

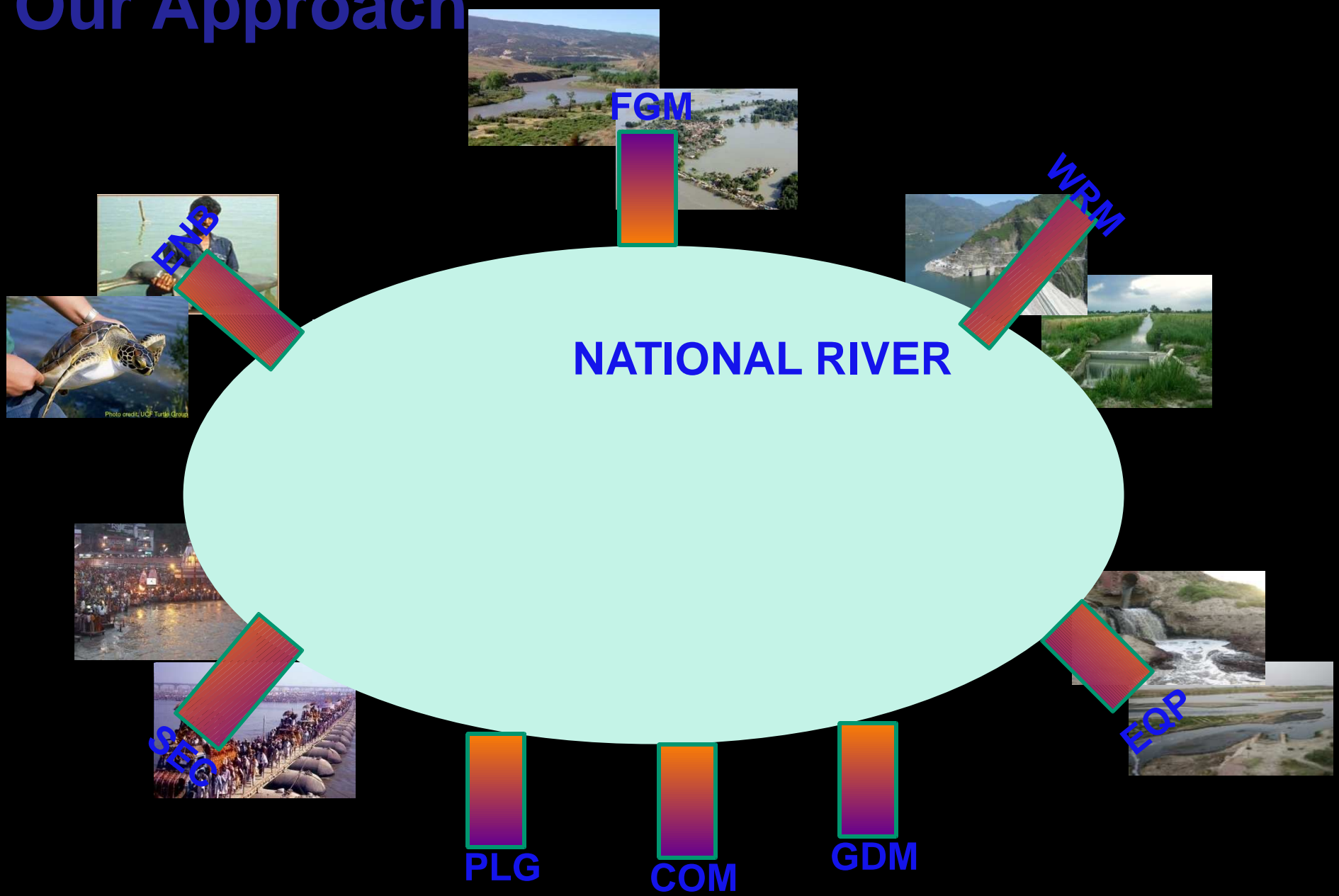


The goddess of the Ganges is nesting in Shiva's dreadlocks

Origin of the River Ganga



Our Approach



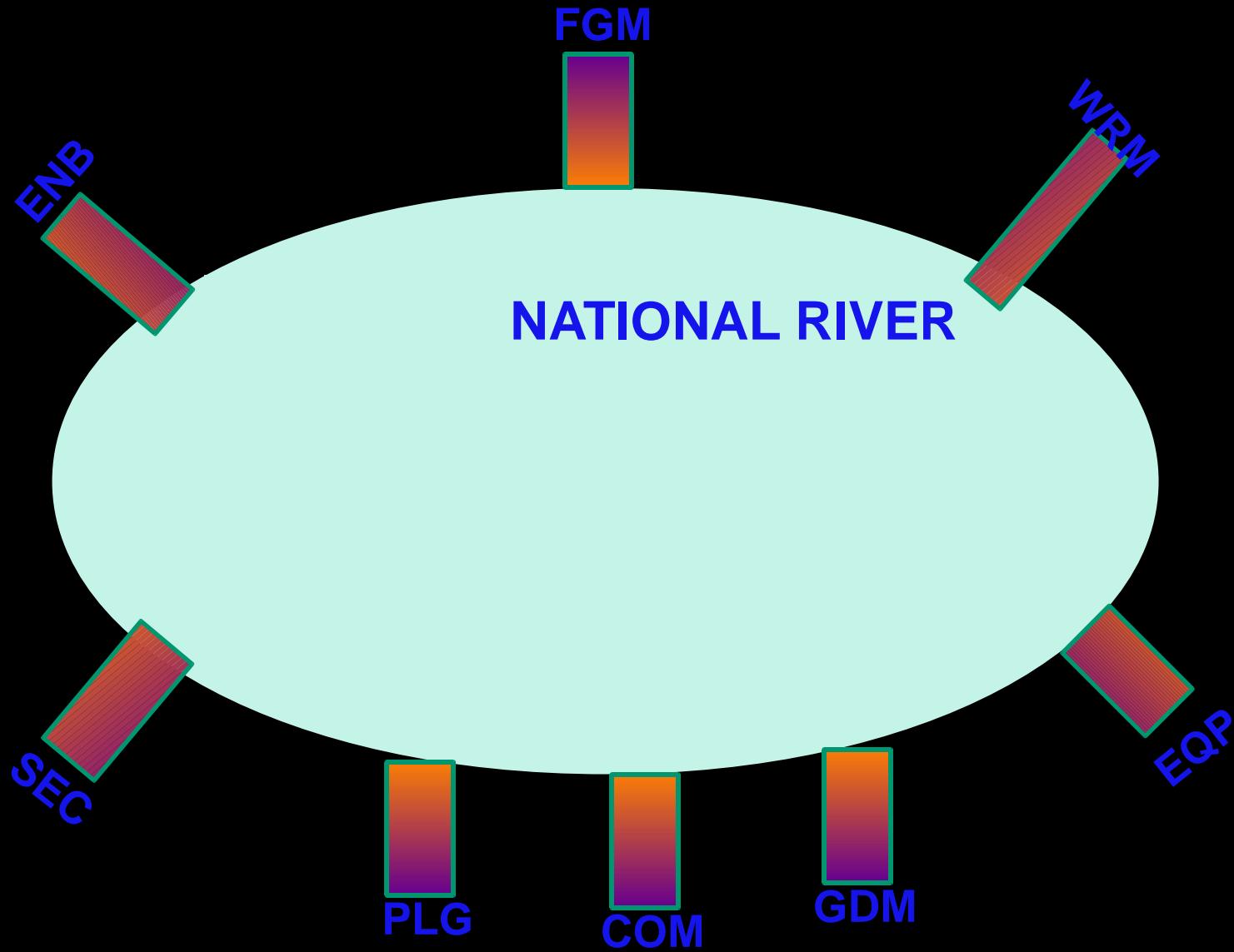
Our Approach



NATIONAL RIVER



Our Approach



The Mantra:

गंगां पुण्यजलां प्राप्य त्रयोदश विवर्जयेत् । शौचमाचमनं शैवं निर्माल्यं मलयर्षणम् ।
शात्रसंवाहनं क्रीडां प्रतिशुद्धमथोरतिम् । अन्यतीर्थरतिंचैवः अन्यतीर्थं प्रशंसनम् ।
वस्त्रत्यागमथाघातं सन्तारंच विशेषतः ॥
ब्रह्मानन्दपुराण (८०० ई०)

Thirteen actions are prohibited on approaching the scared waters of the Ganga, namely:

- ❖ Defecation
- ❖ Ablutions
- ❖ Discharge of wastewater
- ❖ Throwing of used floral offerings
- ❖ Rubbing of filth
- ❖ Body shampooing
- ❖ Frolicking
- ❖ Acceptance of donations
- ❖ Obscenity
- ❖ Offering of inappropriate praises or even hymns in a incorrect way
- ❖ Discarding of garments
- ❖ Beating and
- ❖ Swimming across, in particular

- ❖ मलत्याग
- ❖ धार्मिक / पूजन सामग्री धोना
- ❖ अपजल (गन्ध पानी) का विसर्जन
- ❖ चढ़ावे के फूल इत्यादि फेंकना
- ❖ मेल धोना
- ❖ स्नान में रसायनिक (साबुन इत्यादि) का प्रयोग
- ❖ जल क्रीड़ा करना
- ❖ दान की मांग करना
- ❖ अश्लीलता
- ❖ गलत मंत्रों का उच्चारण
- ❖ वस्त्रों को फेंकना
- ❖ वस्त्रों को धोना
- ❖ तैर कर पार करना

Our Strategy

Thought Process: Whole to Parts

Working: Parts to Whole

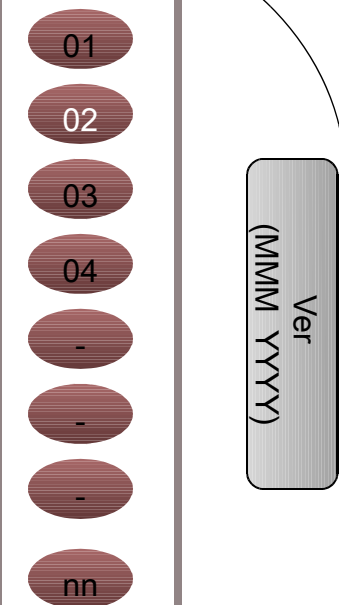
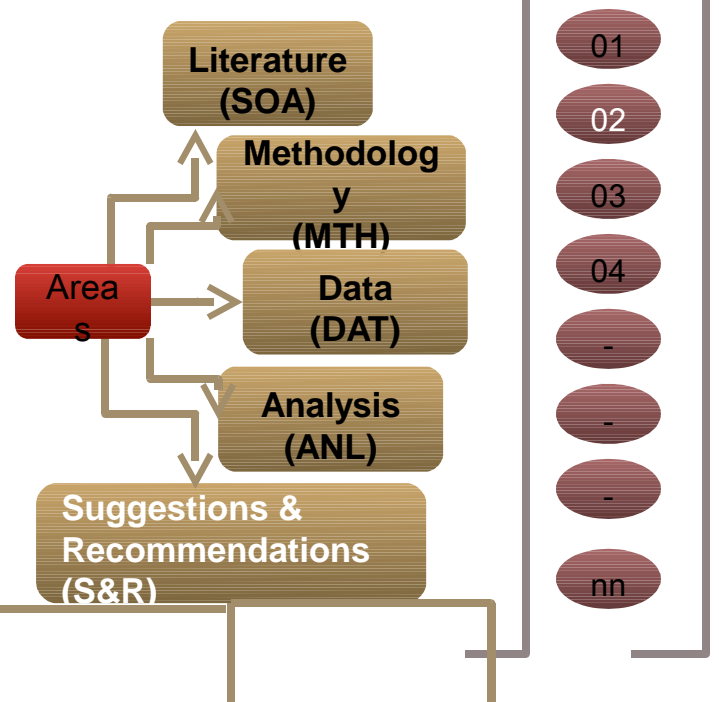
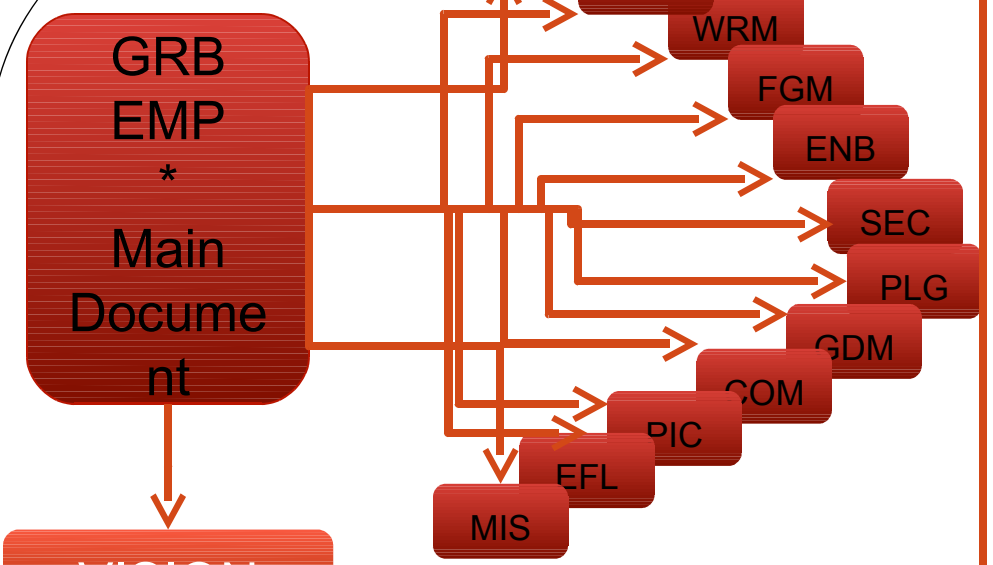
Parts !

Priority: Immediate Attention; Availability of
Resources; Time Required

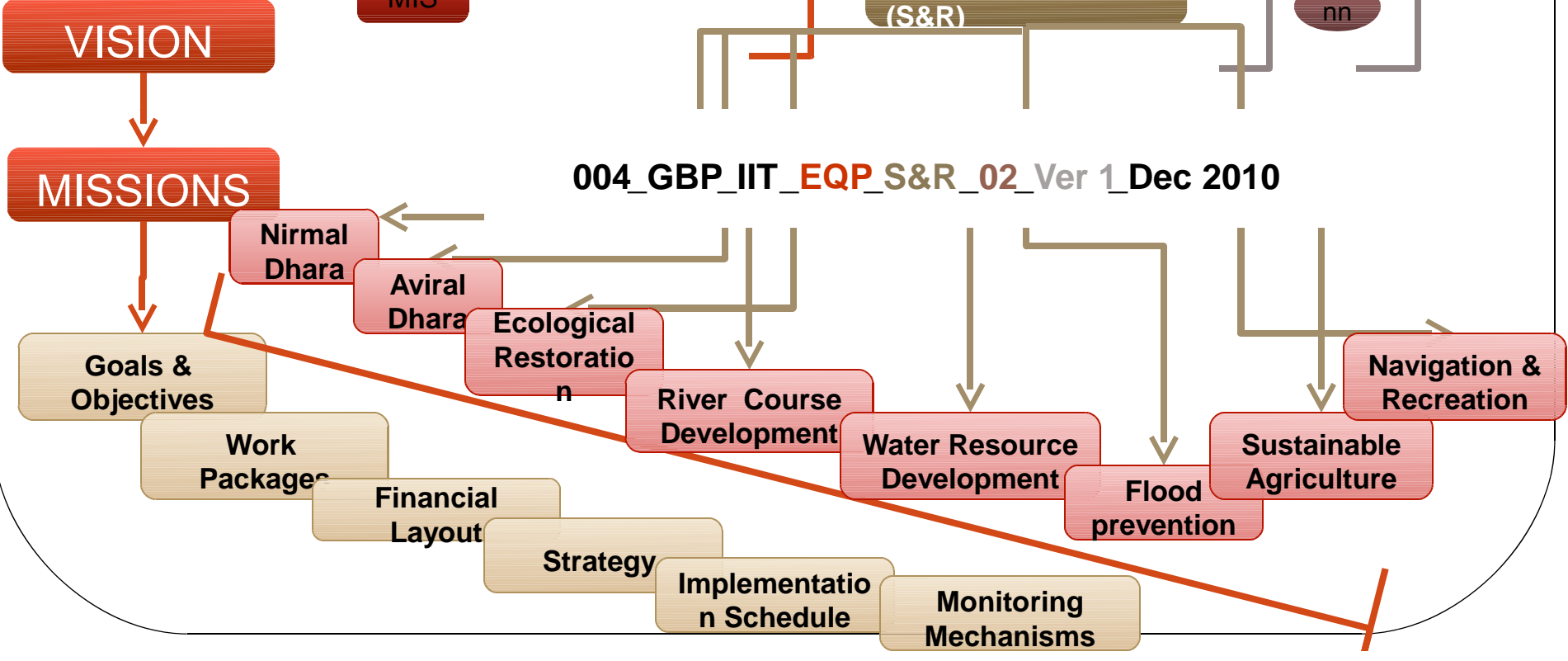
Sewage Treatment

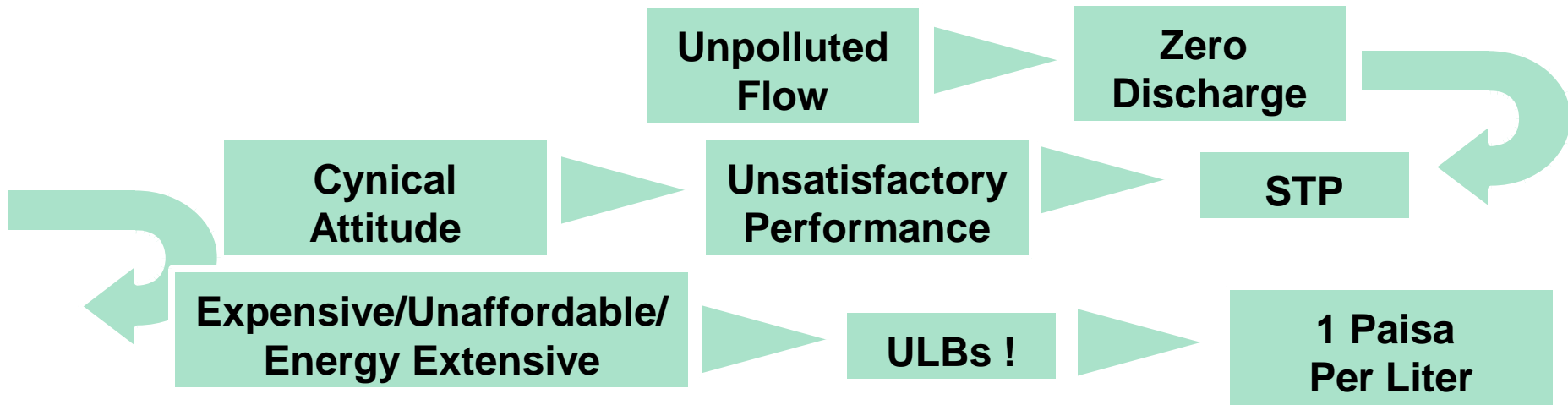
Recommendations and Guidelines

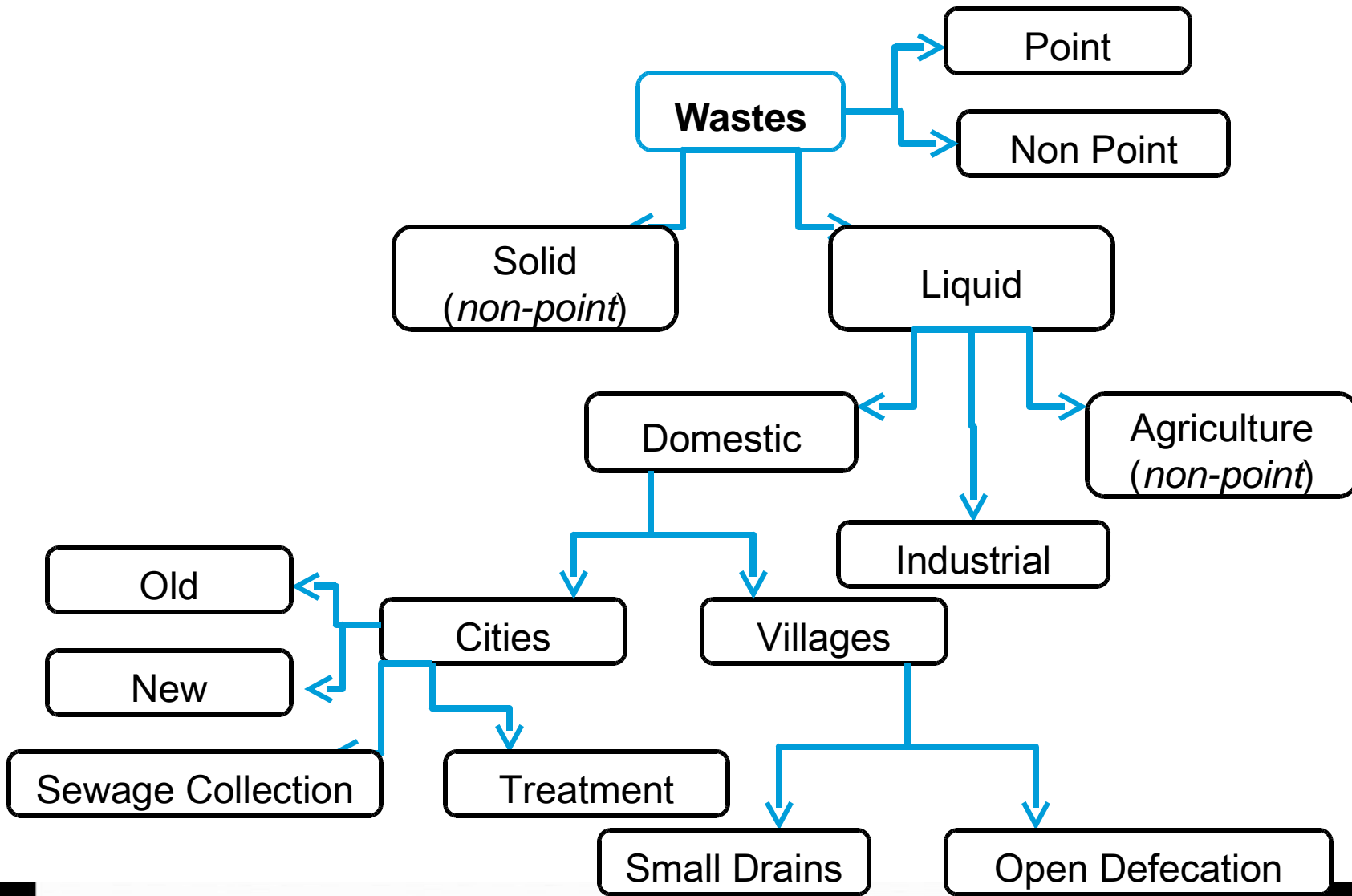
Report Indexing



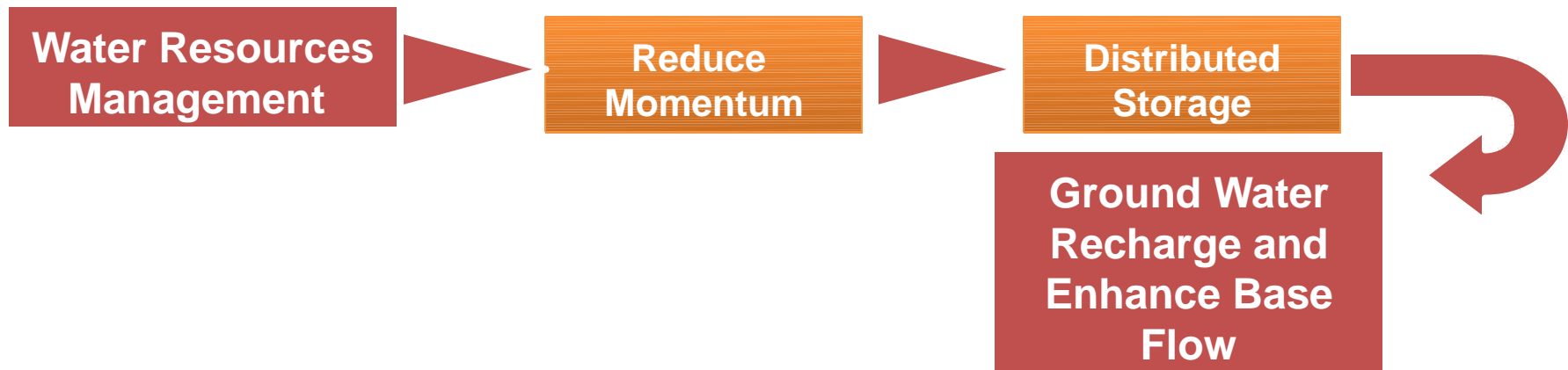
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Aviral Dhara



Ecological Restoration

Environmental Flows

+

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E-Flows Concept

Discharge

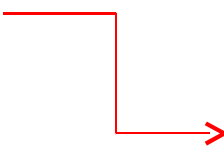
Flood
Year



Normal Year

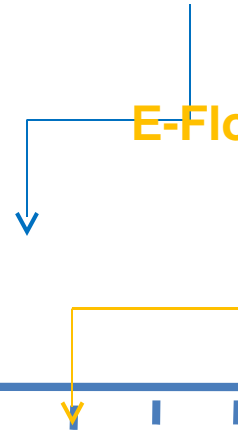


Drought
Year

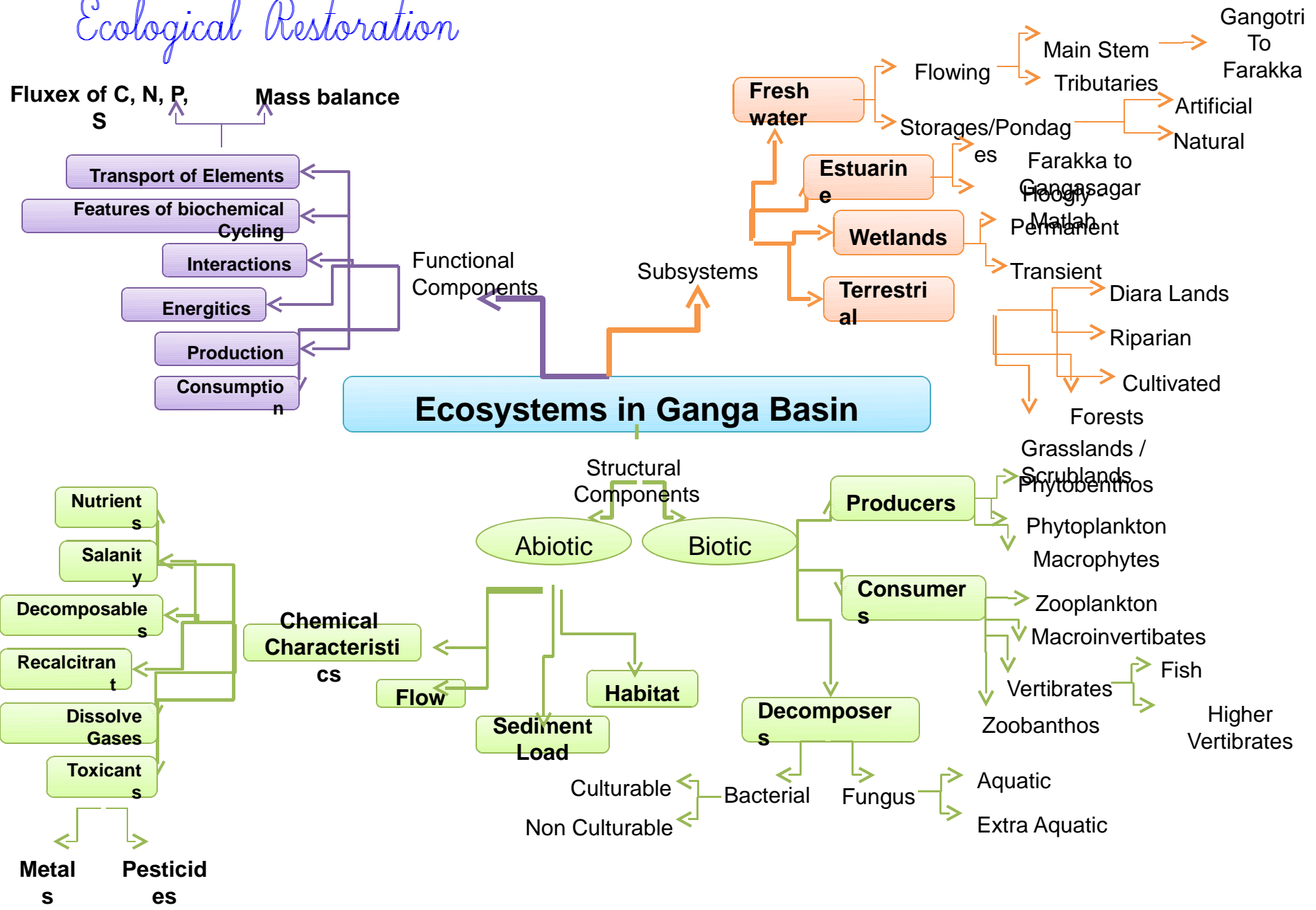


E-Flow, Normal
Year

E-Flow, Drought



Ecological Restoration



Sustainable Agriculture



*Responsibilities of the Community
&
Community Participation*

Ganga Panchayat ?

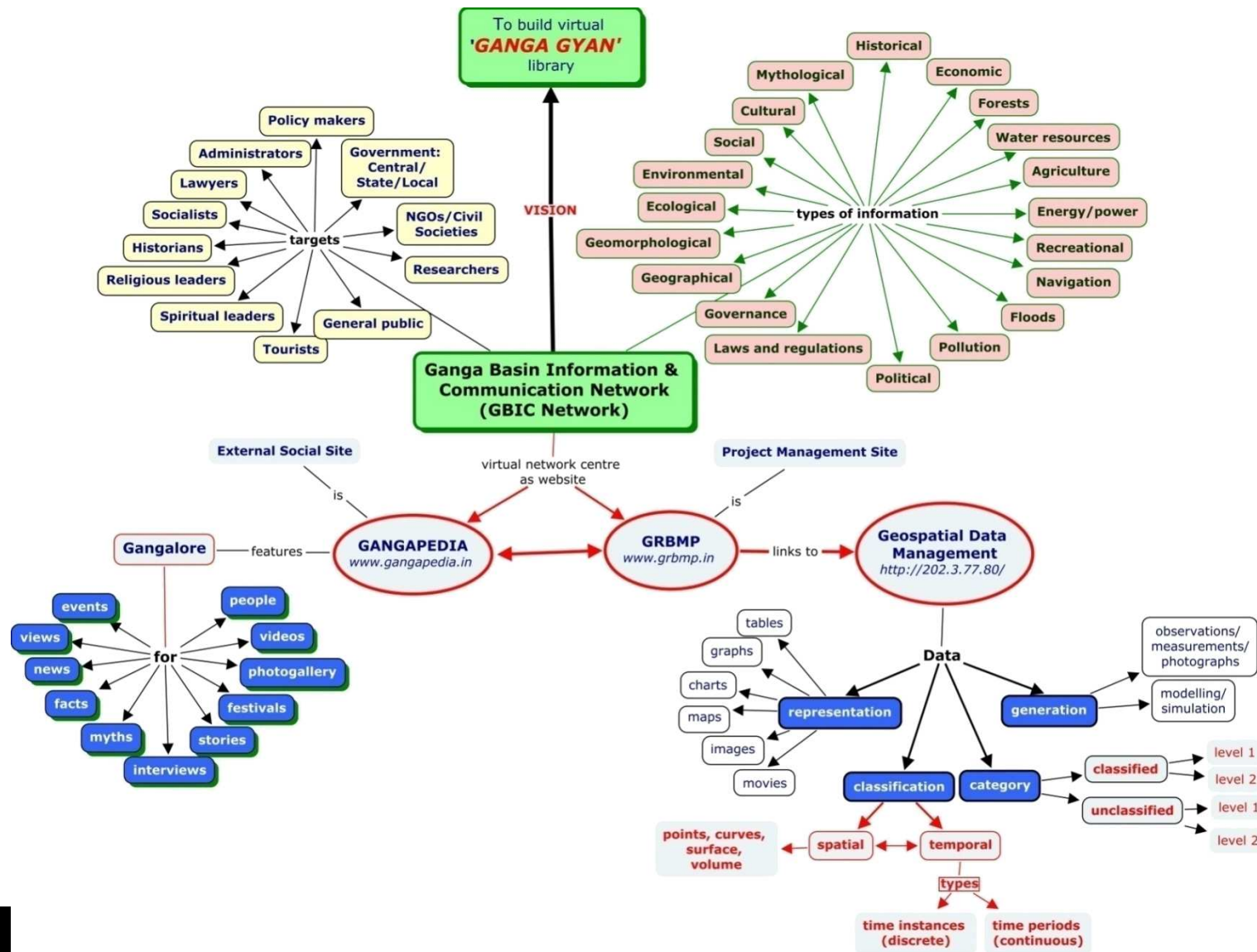
National River !

Policies, Laws and Governance

Active Flood Plane Regulation



Ganga Basin Information and Communication Network



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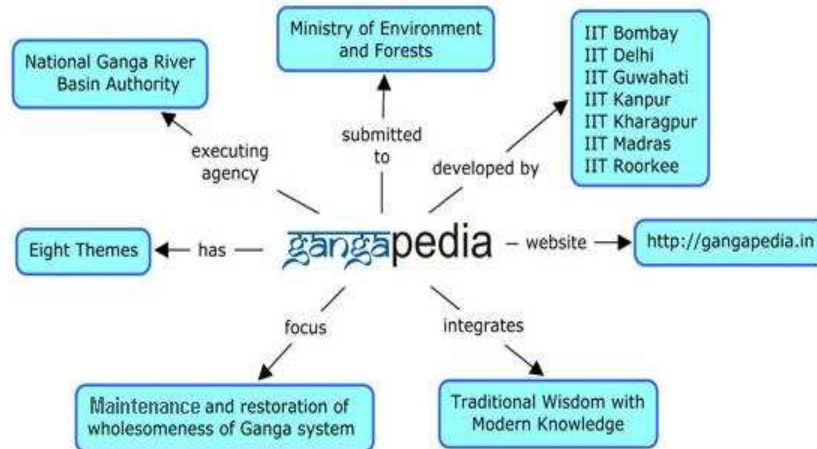
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- Messages

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An integrated river basin management approach that focuses on Maintenance and restoration of wholesomeness of Ganga system and improvement of its ecological health with due regard to conflict of interest in water uses in entire river basin.



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Feedback, Comments and Suggestions

Thank You !