

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

Ganga River Basin Environment Management Plan

by



IIT
Bombay



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Delhi



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Guwahati



IIT
Kanpur



IIT
Kharagpur



IIT
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IIT
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Relief





अस्या जलस्य गुणाः शीतत्वम्, स्वादुत्वम्, स्वच्छत्वम्, अत्यन्तऊर्जस्वत्वम्, पथ्यत्वम्, पावनत्वम्, पापहरित्वम्, तुष्यागोष्ठ्यञ्जत्वम्, 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

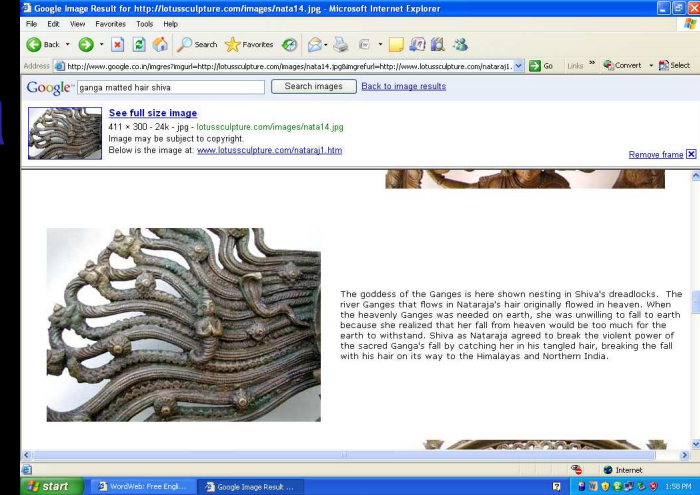
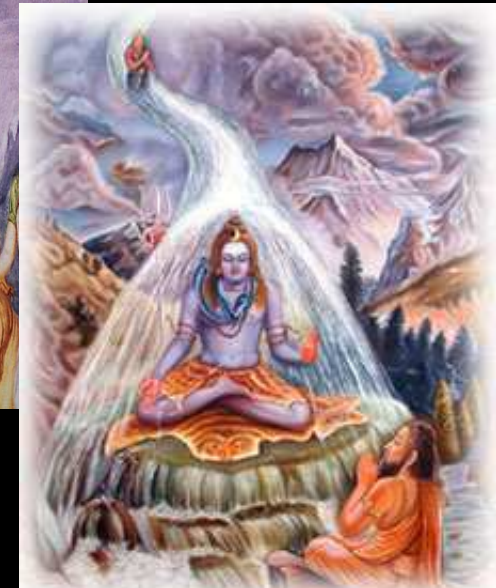
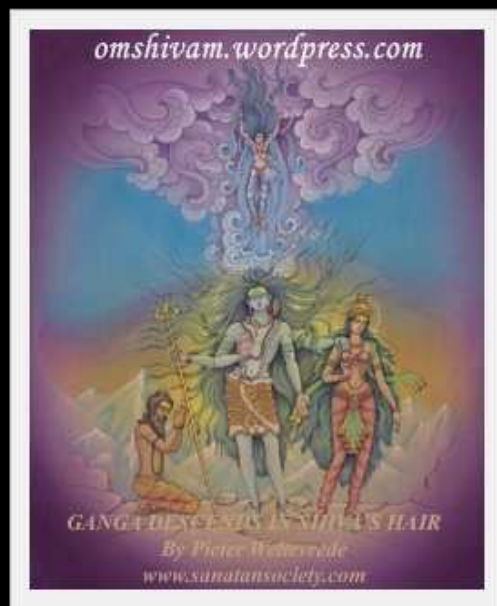
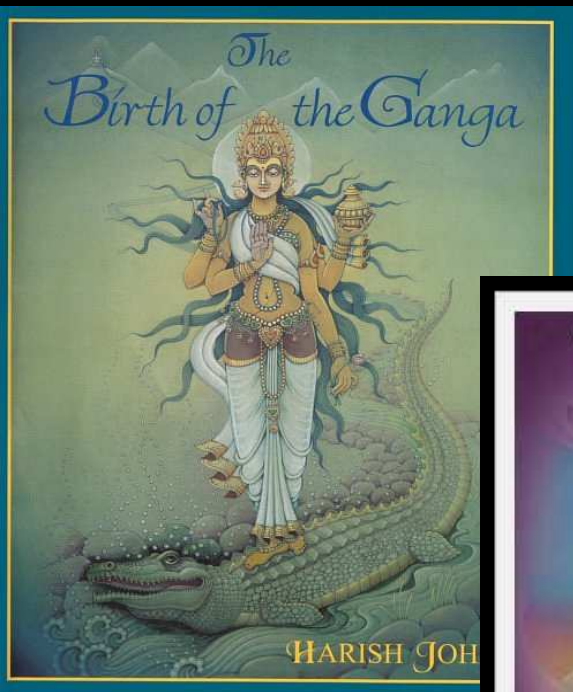
Supportive Capacity and **Assimilative Capacity**

sortia of 7 IITs

GRBMP
RBP View Points

August 9, 2014
WWF India, New

Origin of the River Ganga

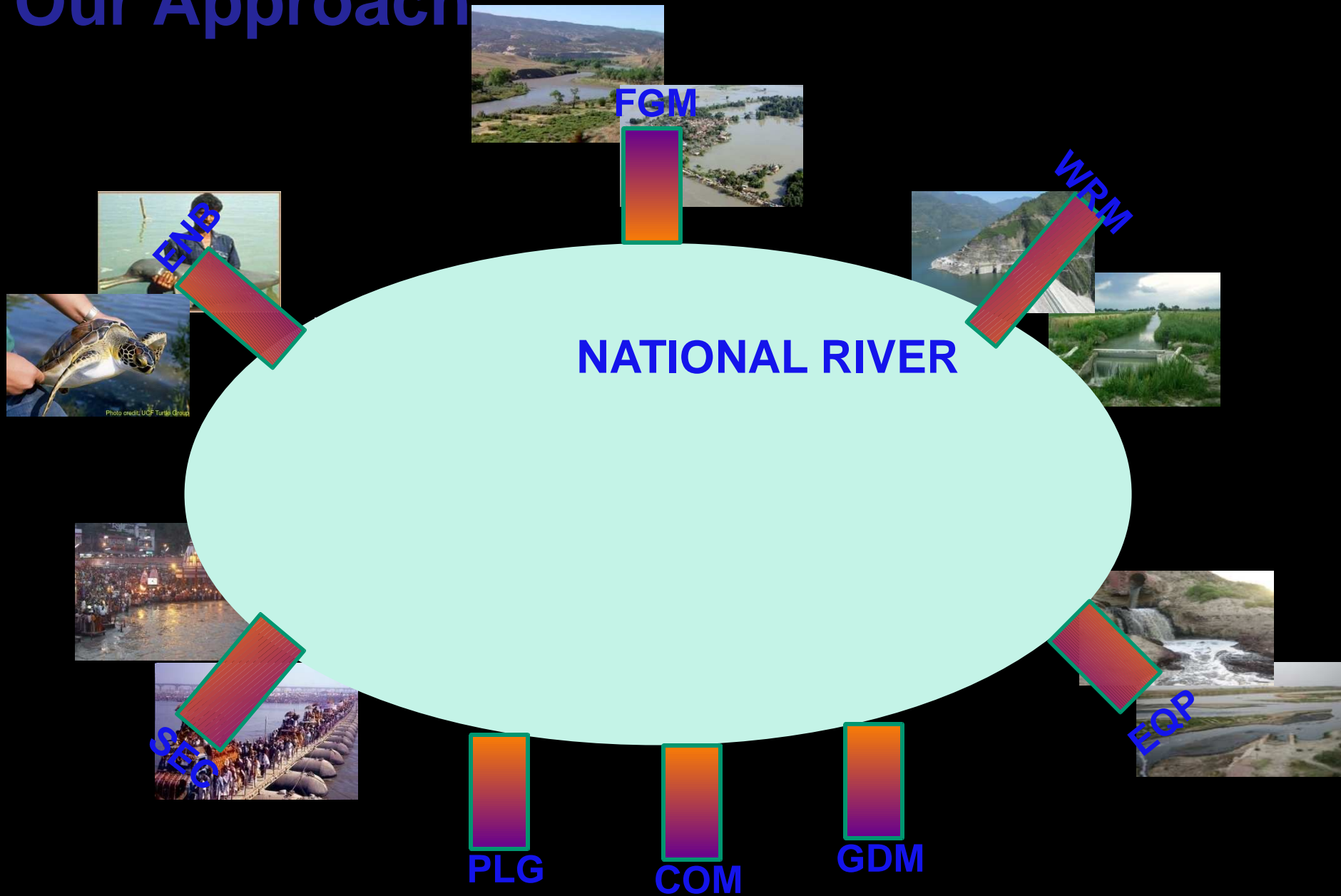


The goddess of the Ganges is nesting
in Shiva's dreadlocks

Origin of the River Ganga



Our Approach

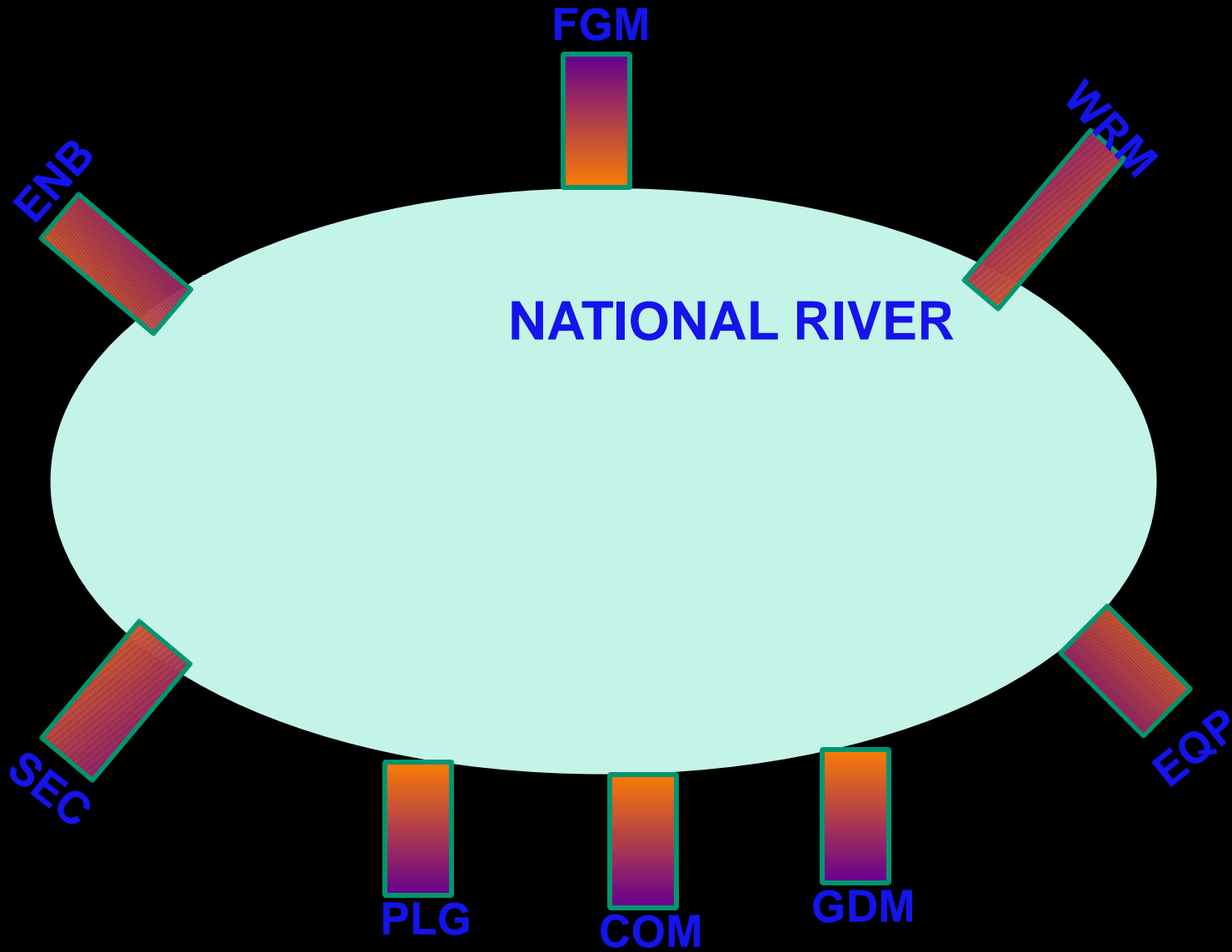


Our Approach

NATIONAL RIVER



Our Approach



The Mantra:

गंगां पुण्यजलां प्राप्य त्रयोदश विवर्जयित् । शौचमाचमनं शैलं निर्माद्विं मलघर्षणम् ।
शास्त्रसंवाहनं क्रीडां प्रतिशुद्धमधोरतिम् । अन्यतीर्थरतिंचैवः अन्यतीर्थ प्रशंसनम् ।
वरप्रत्यागमथाघातं सन्तारं च विधीयतः ॥
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

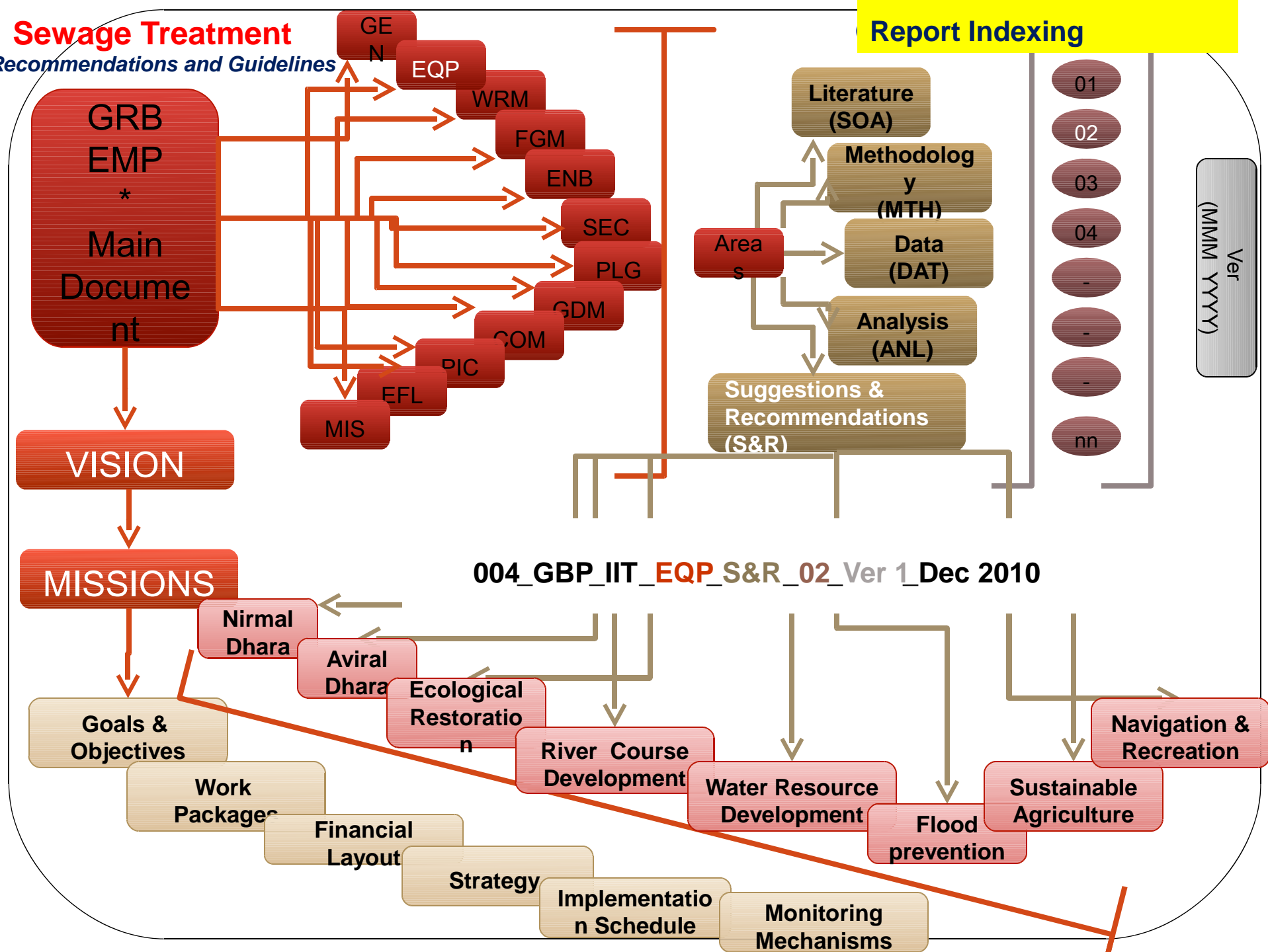
Parts !

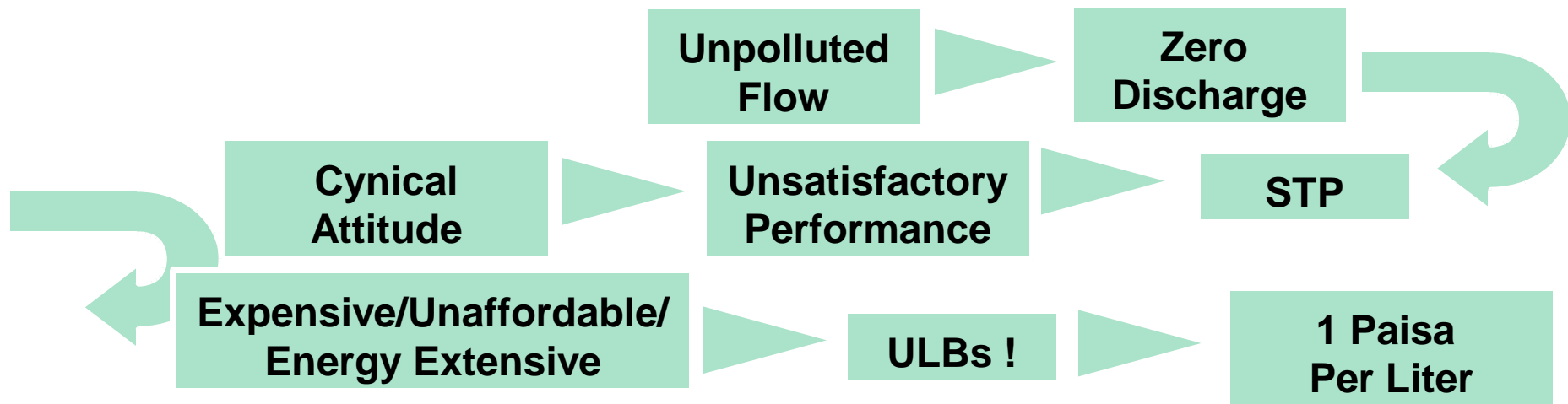
Priority: Immediate Attention; Availability of
Resources; Time Required

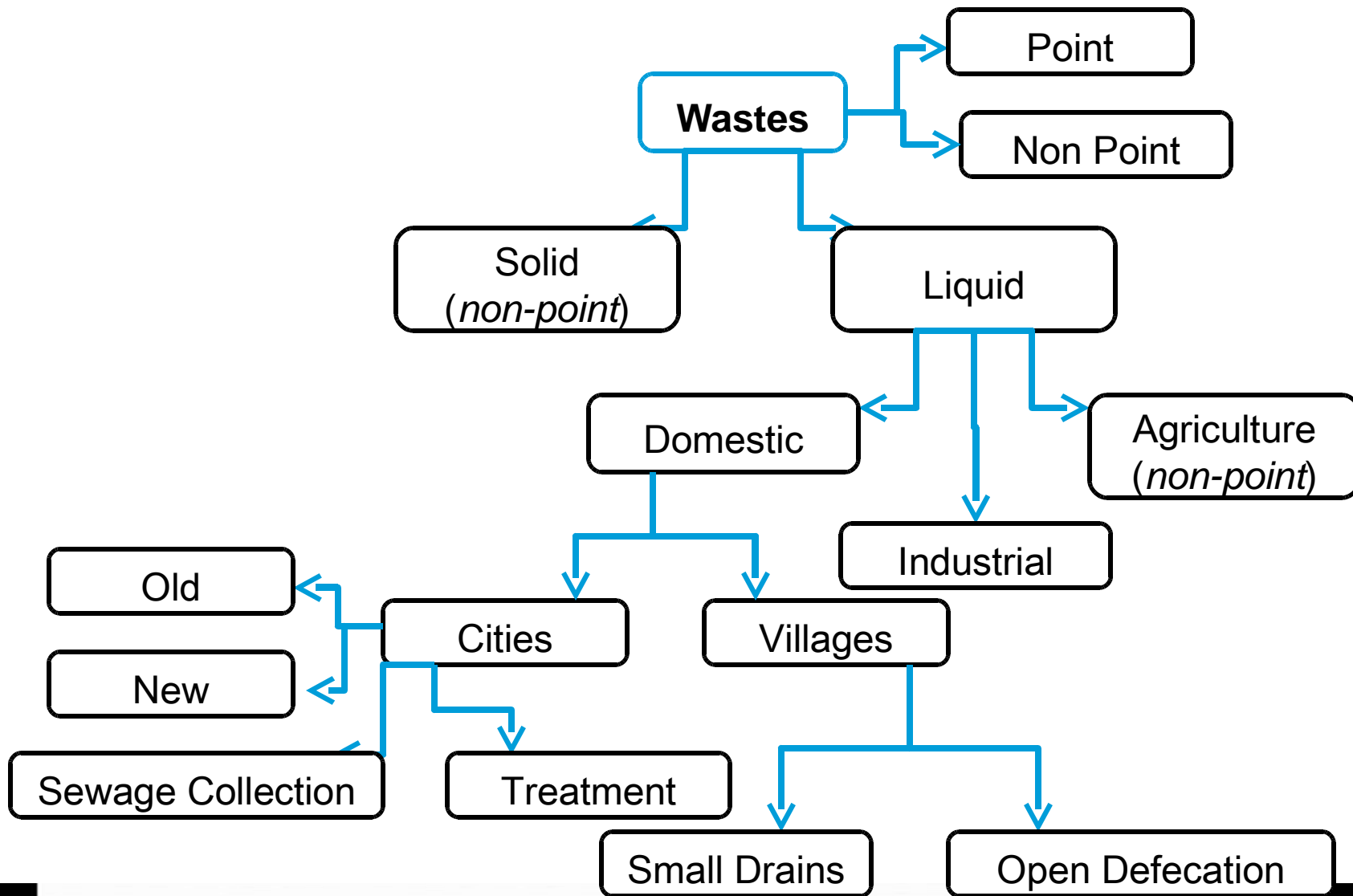
Sewage Treatment

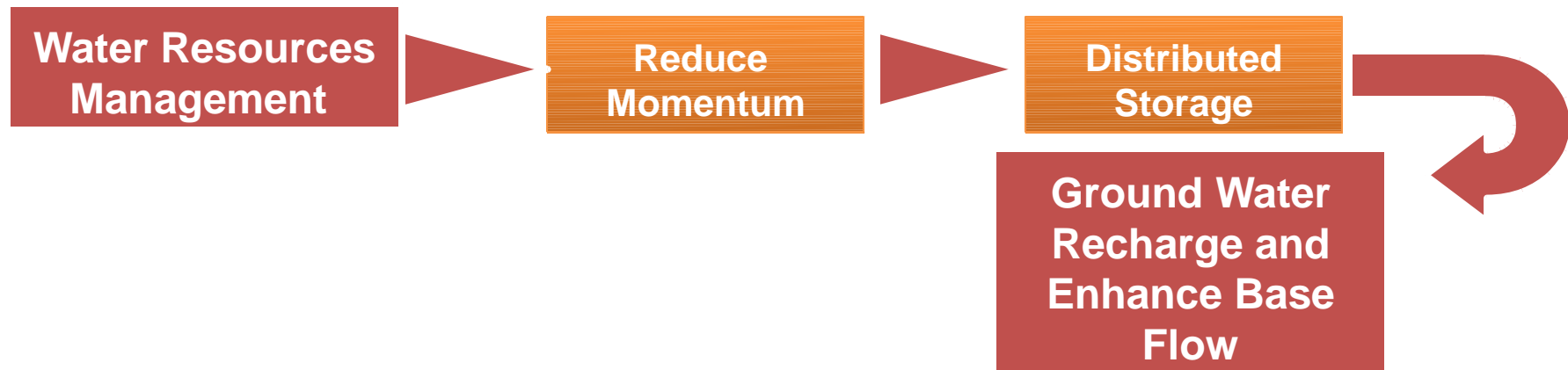
Recommendations and Guidelines

Report Indexing









Ecological Restoration

Environmental Flows

+

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E-Flows Concept

Discharge

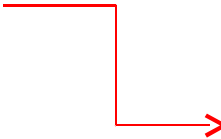
Flood
Year



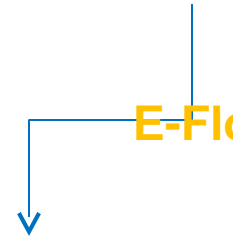
Normal Year



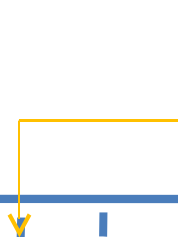
Drought
Year



E-Flow, Normal
Year

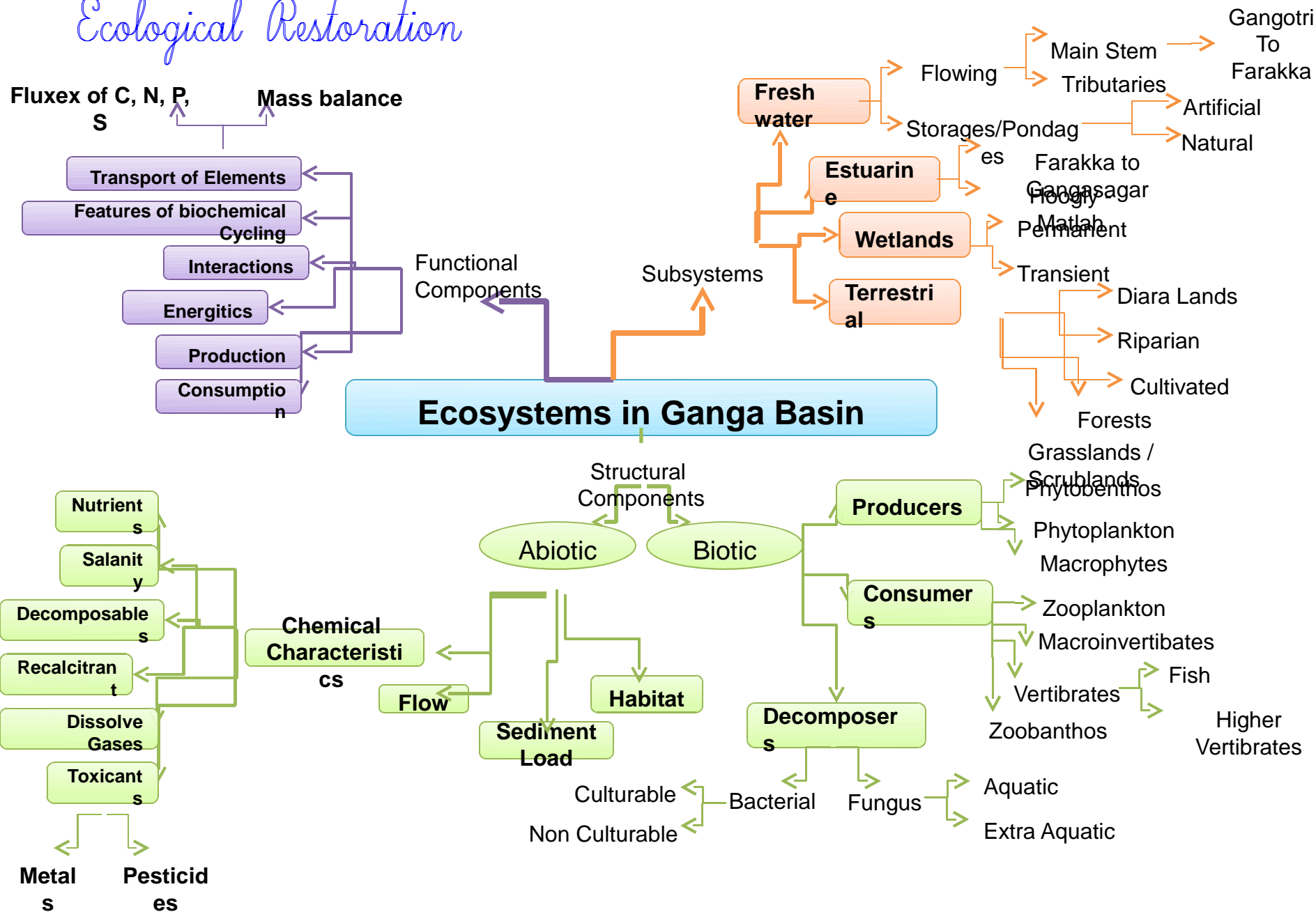


E-Flow, Drought



Jan Feb Mar Apr May Jun Ju Aug Sep Oct Nov Dec

Ecological Restoration



Sustainable Agriculture



*Responsibilities of the Community
&
Community Participation*

Ganga Panchayat ?

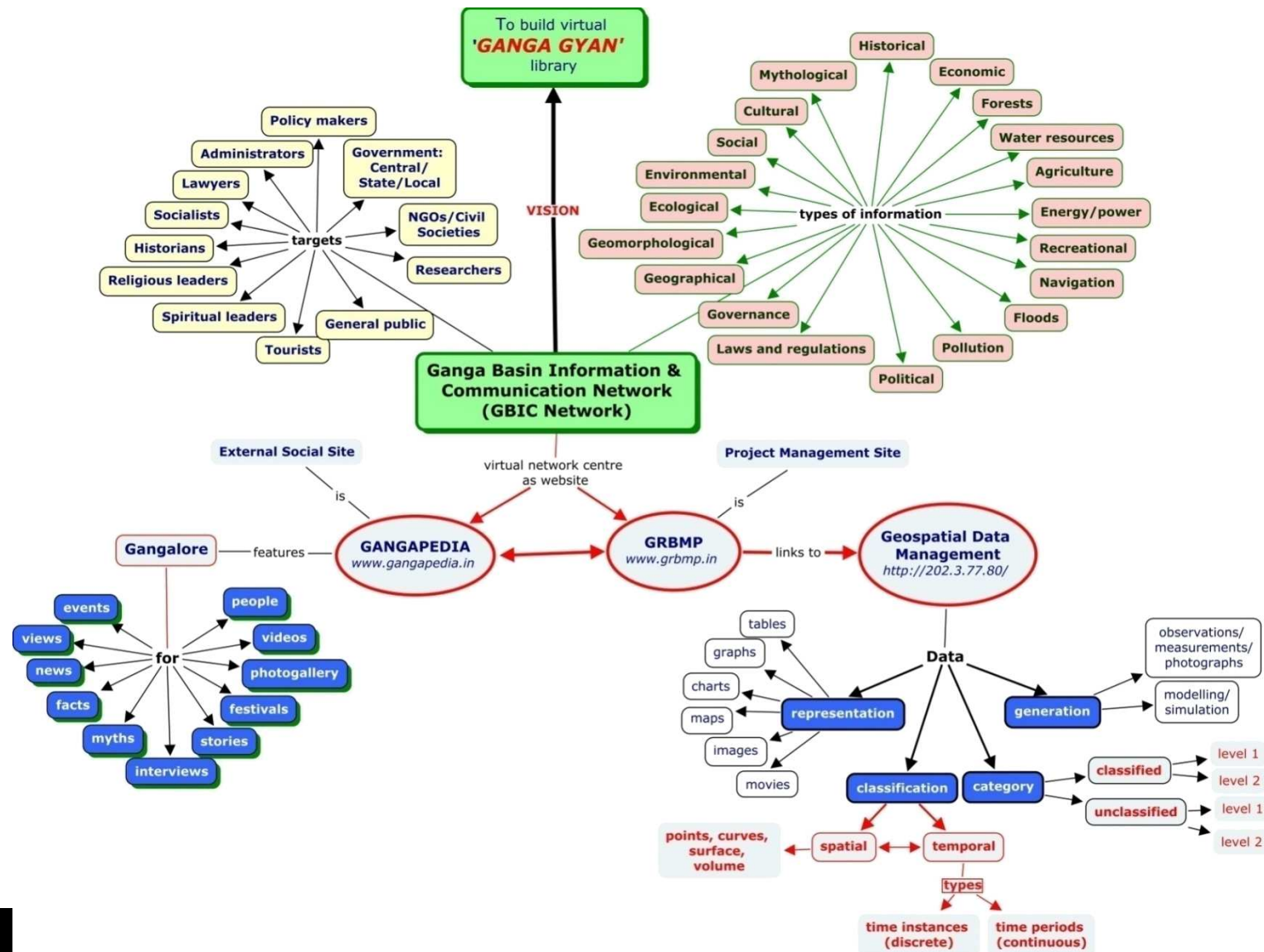
National River !

Policies, Laws and Governance

Active Flood Plane Regulation



Ganga Basin Information and Communication Network



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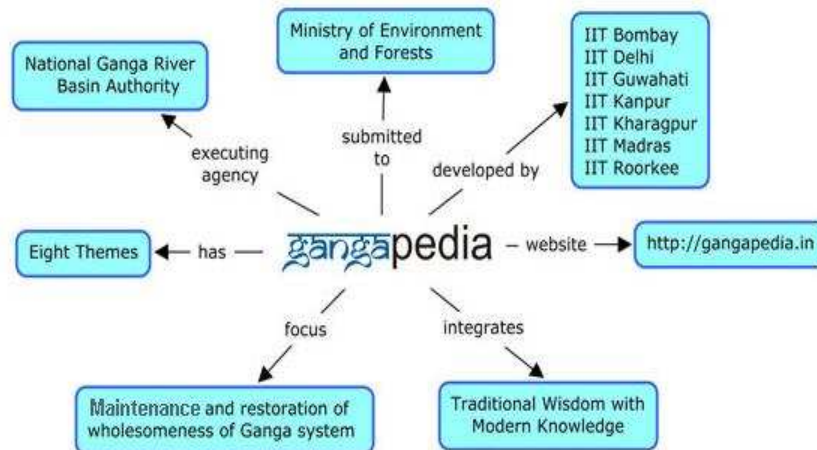
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An integrated river basin management approach that focuses on Maintenance and restoration of wholesomeness of Ganga system and improvement of its ecological health with due regard to conflict of interest in water uses in entire river basin.



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Feedback, Comments and Suggestions

Thank You !