Background (Challenges & Opportunities)

- India’s current population is 1.3 billion, 67% are rural. Majority are in agriculture.
- Importance of agriculture in Indian economy. Although it contributes only 17% of GDP, the share of workers is about 55%.
- 60% of cultivated area is rain-fed against 40% of area is under irrigation. Improving Irrigation efficiency
- Rural poverty is 38% in 2014-15. Double the Agril Income
- Agriculture is a ‘State Subject’. In other words, the policies of provinces are also important for action.
- Life Style has a major challenge to produce more non cereal crops due to urbanisation
- Thought for 2nd Green Revolution from “food security” to “Income Security” through Knowledge Base
Challenges of Water Availability

<table>
<thead>
<tr>
<th>Year</th>
<th>Population Growth (million)</th>
<th>Water Availability (cubic meter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1951</td>
<td>361</td>
<td>5177</td>
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<tr>
<td>1955</td>
<td>395</td>
<td>4732</td>
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<tr>
<td>1991</td>
<td>846</td>
<td>2209</td>
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<tr>
<td>2001</td>
<td>1027</td>
<td>1820</td>
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<td>2010</td>
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<td>1588</td>
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<tr>
<td>2025</td>
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<td>1341</td>
</tr>
<tr>
<td>2050</td>
<td>1640</td>
<td>1140</td>
</tr>
</tbody>
</table>

*Source: MoWR, Govt. Of India

Land Availability

<table>
<thead>
<tr>
<th>Year</th>
<th>Population Growth (million)</th>
<th>Land Availability (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1951</td>
<td>361</td>
<td>0.37</td>
</tr>
<tr>
<td>1971</td>
<td>548</td>
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<tr>
<td>1991</td>
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<td>0.19</td>
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<tr>
<td>2051</td>
<td>1600</td>
<td>0.13</td>
</tr>
</tbody>
</table>

*Source: 3rd National Symposium on Food Security, Coimbatore
India Irrigation Forum (Our Response)

• **Our vision**
  To provide a platform to the communities for knowledge sharing and improves the quality of lives of millions in India.

• **Our mission**
  Enhance the science based discourse in field implementation and policy making in agriculture water management in India.

Objectives (Value Proposition)

• Providing a platform for networking, interaction and *sharing of knowledge and experiences* amongst various professionals
• **Solving** equitable and on-demand water supply through enhance training and skilling. *(Capacity Building)*
• Providing a world-class **delivery platform** that enhances private sector investment and create greater socio-economic value for more stakeholders faster and cheaper
• Facilitating **cross-sectoral** understanding and dialogue
• Promoting **advances in research**, developments, technology and **successful innovations** in the sector within easy access of field level professionals
• Organising Seminar, Symposium, etc.
Opportunities and Major Tasks

Opportunities

- Availability
- Technology
- ± ve Impact on
  - Natural resources;
  - Environment; and
  - Public health.
- Sustainability.

Major Strategy Tasks

- Regulatory & policy framework
- Integrated Planning
- Efficient Economic mechanisms
- Introduction to PPP approach
- Raising Awareness a convincing
- Decentralization & Participation; and
- Bridging research and Practice.

Need and Sustainable Development

Requirement

- Standards & Guidelines
- Monitoring & Evaluation
- Law Enforcement

Action

- Appropriate Technology
- Operational Rules
- Awareness/Convince

At Abstraction
During Delivery
At End User
Action Plan

• Tackling fragmented water service delivery concerns (Integrated Approach)
• Empowering water users for participation in the planning and implementation process; (Training and Capacity Development)
• Facilitating greater private sector investments in irrigation and drainage infrastructure (create a win-win model)
• Redefining the role of public agencies through Integrated Irrigation Management. (Public Policy Advocacy)
• Technology and Extension Program with R&D
• Sensitise Urban Local Bodies to investment in improving irrigation efficiency to enhance their water security and ecological footprint.

Can we deliberate?

o To bring non-urban metering standards.
o To bring legislation on metering of flow for irrigation
o Legislation on water entitlements at a farm level
o Decision Making under Uncertainty (DMU) arises due to climate changes
o Reuse & Recycle of Irrigation water
Short term deliverables from IIF

- Drainage Sector Improvement (Planning)
- Water Users/Farmers Governance Manual
- Environment Sector Management Guidelines and Training
- Climate Change Adaptation Knowledge and Technology Dissemination with Training
- Training on Market Access, Credit, Crop Insurance, etc.
- Irrigation Efficiency Improvement Program

Our commitments and Way forward

- Act transparently and ethically.
- Collaborate with global leading partners.
- Become a trusted advisor
- Introduce cutting edge technologies and processes.
- **Organisation Structure, Governance and Sustainability** of India Irrigation Forum (IIF)