17.181/17.182
Critical Drivers – Social Mechanisms & Cognitive Factors
Week 5 Outline

1. LEFT OVER Week 4

2. THE CRITICAL DRIVERS

3. GLOBAL SYSTEM for SUSTAINABLE DEVELOPMENT
<table>
<thead>
<tr>
<th>Elements</th>
<th>Question</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key dimensions</td>
<td>What is it that must become sustainable?</td>
</tr>
<tr>
<td>Core processes</td>
<td>How is it that sustainability might proceed?</td>
</tr>
<tr>
<td>Behaviour principle</td>
<td>Which norms (computational and conceptual) could facilitate transitions towards sustainability?</td>
</tr>
<tr>
<td>Performance goals</td>
<td>What would be the alternative, generic, society-wide outcomes desired?</td>
</tr>
<tr>
<td>Implementation conditions</td>
<td>Which conditions facilitate implementation of sustainability strategies?</td>
</tr>
<tr>
<td>Decisions and policy choices</td>
<td>What are the decisions that must be addressed?</td>
</tr>
</tbody>
</table>

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Dimensions of Globalization

- **Demographic** – people crossing borders voluntary or otherwise
- **Resources** - energy, raw materials, etc.
- **Technology** – knowledge, skills, ideas, equipment, management, organization, etc.
- **Economic** - goods, services, capital, trade, financial transactions, production systems and structures
- **Communication** - connectivity, reach, messaging etc.
- **Security** – vulnerabilities, sensitivities, threats, etc.
- **Environmental** - effluents, emission of GHG’s etc.
- **Cyber Space** - actors, actions, the Internet layers model
Transformative Effects of Globalization

- **Population** – new labor markets, new identities, new societies, pressures on the social contract, even new states

- **Resources** - new access to sources of “power”

- **Knowledge & Technology** – leapfrogging, greater efficiency, enhanced value added, new VA-sources

- **Economic** - transformations in consumption patterns, import demands, composition of goods and services,

- **Communication** - creation of virtual communities, cyberpolitics, impacts for state authority, global civil society

- **Security** – new fears, new $ allocations to manage fears

- **Environment** - climate change, impacts on biosphere etc.
Week 5 Outline

1. LEFT OVER Week 4
2. THE CRITICAL DRIVERS
3. GLOBAL SYSTEM for SUSTAINABLE DEVELOPMENT
Barriers to Knowledge on Sustainable Development – Cyber Era

1. Ambiguity of “Sustainability” as Concept
2. Explosion of Information
3. Gaps in Digital Capabilities
4. “Knowledge-Bias” from Developed States
5. The Matter of Language on the Internet
Solution Strategies to Reduce Barriers
Knowledge Barriers

1. Ambiguity of “Sustainability” as a Concept
   • Conceptual Framework
2. Explosion of Information
   • Management Strategy
3. Impediments to Provision of Knowledge
   • Submit Site (provide your knowledge)
4. “Knowledge-Bias” from Developed States
   • Support Networking
5. The Matter of Language on the Internet
   • Provide Multilingual Functionality
Number of choices increases

Each choice leads to more choices

Some choices lead to more choices

*Superscripts (1, 2, i, etc.) denote the ability to advance to a lower level.

NOTE: Labels (1, 2, 3, 4) are the level sequence on the WWW.