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# 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 8.1 New thinking on sustainability

| Elements | Question |
|---|---|
| Key dimensions | What is it that must become sustainable? |
| Core processes | How is it that sustainability might proceed? |
| Behaviour principle | Which norms (computational and conceptual) could facilitate transitions towards sustainability? |
| Performance goals | What would be the alternative, generic, society-wide outcomes desired? |
| Implementation conditions | Which conditions facilitate implementation of sustainability strategies? |
| Decisions and policy choices | What are the decisions that must be addressed? |

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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, emmision of GHG's etc.
- **Cyber Space -** actors, actions, the Internet layers model

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# 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.

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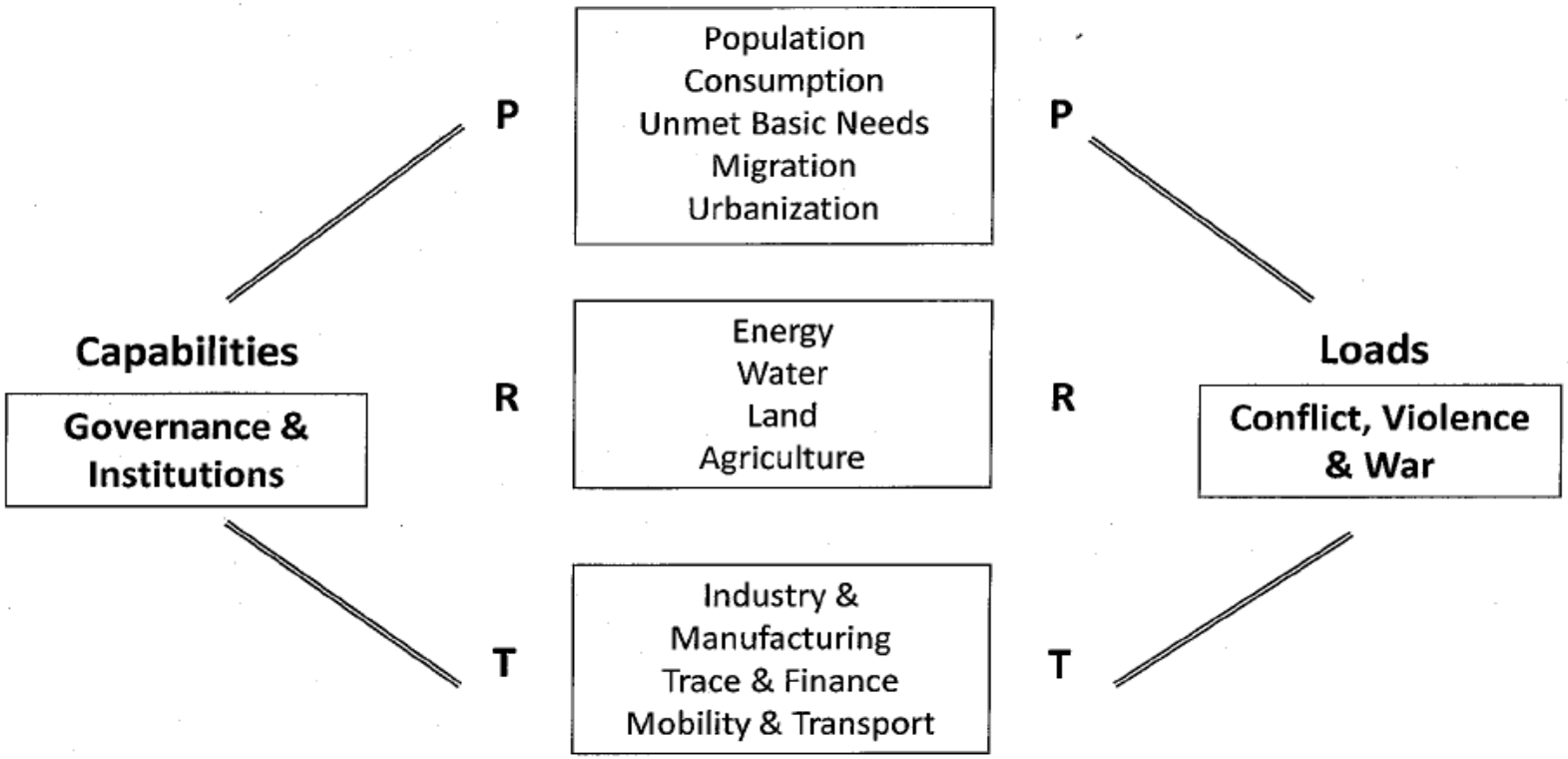
# Barriers to Knowledge on Sustainable Development – Cyber Era

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

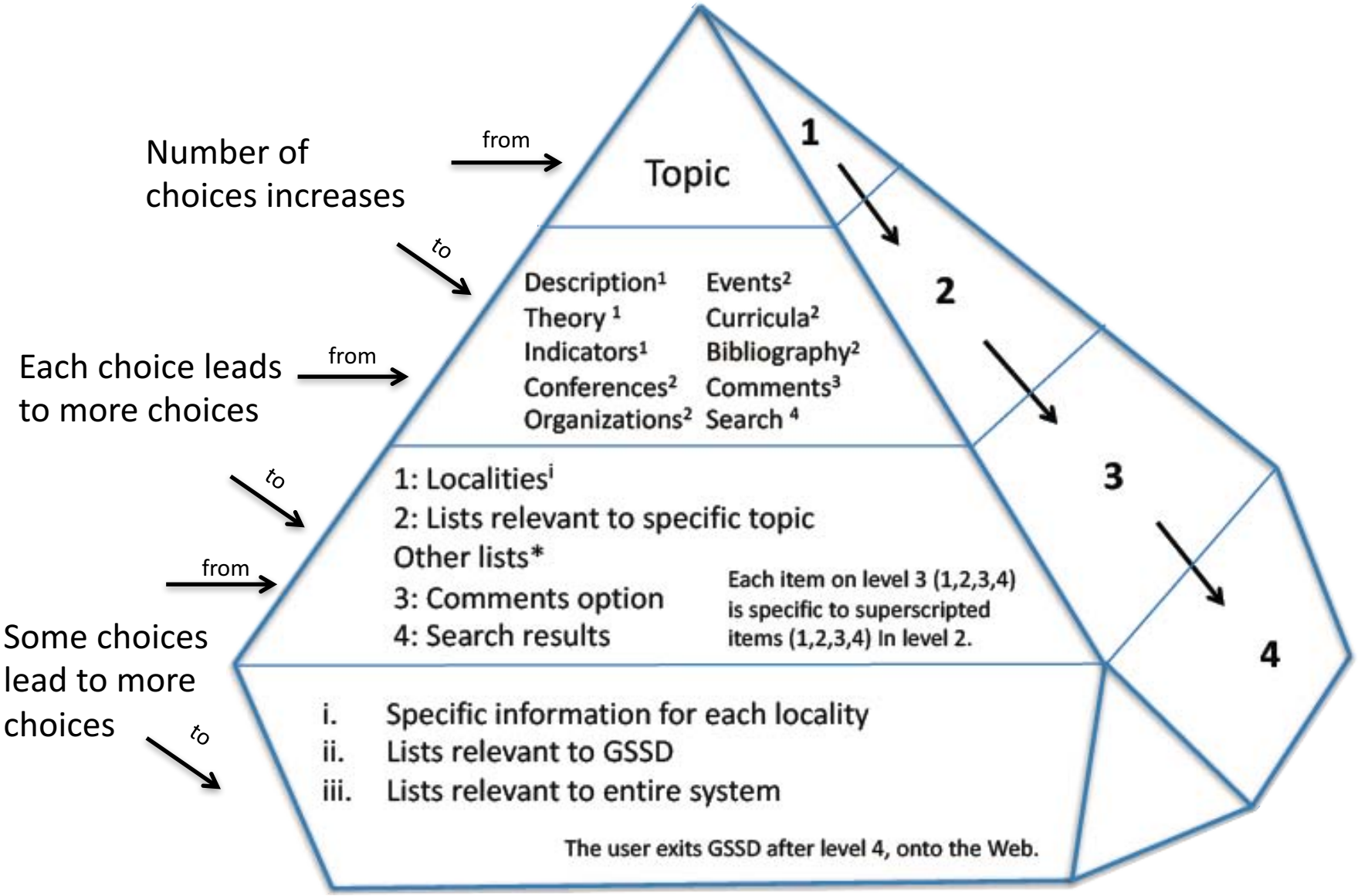
# Solution Strategies to Reduce Barriers
# Knowledge Barriers

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**

# Content Architecture



# GSSD on the WWW – from topic to user access




*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.

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Fall 2016