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17.181 / 17.182 Sustainable Development: Theory and Policy
Spring 2009

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Agriculture

Activities & Conditions

Agriculture

- Agricultural Production
- Management of Supply and Demand

Sustainability Problems

Impacts of Chemicals and Pollutants

- Impacts on Land, Water and Air
- Damages Due to Irrigation Systems

Damage to Natural Systems

- Damning/Diversion of Rivers
- Wasting of Water via Evaporation
- Impacts of Production Choices

Socio-Economic Dislocations

- Ecological Dislocations
- Economic Impacts
- Social Impacts
- Hazards and Wastes
- Mismanagement and Misuses of Technology

Scientific & Technological Solutions

Improved Agricultural Practices

- Better Farm Machinery and Irrigation Systems
- Less Damaging Fertilizer Application Methods
- Improved Capital/Labor Balances
- Minimizing Use of Hazardous Chemicals
- Principles and Practices

Biotechnology Innovations and Use

- Improved Genetically Engineered Plans
- Improved Breed Productivity
- Advances in Tissue Culture

Social Economic, Political & Regulatory Solutions

Improved Markets and Mechanisms

- Effective Financial Instruments
- Improved Market Access and Performance
- Reliable Sources of Finance for Agriculture
- Market-Based Measures for Regulation

Government Oversight

- Provision of Resources
- Enforcing Standards in Inputs and Processes
- Monitoring of Stocks, Performance and Quality
- Innovation in Policies and Credit Facilities

Improved Socio-Economic Conditions

- Reduction/Termination of Debt
- Improved Income Distribution
- Better Working Conditions
- Enhanced Role of Women
- Improved Health and Sanitation Conditions

New Policy Responses

- Formal Intra and International Cooperation
- Informal Intra and International Activities
- Enhanced Institutional Collaboration
- New Policies and Principles

Agriculture

Activities &
Conditions

Agriculture

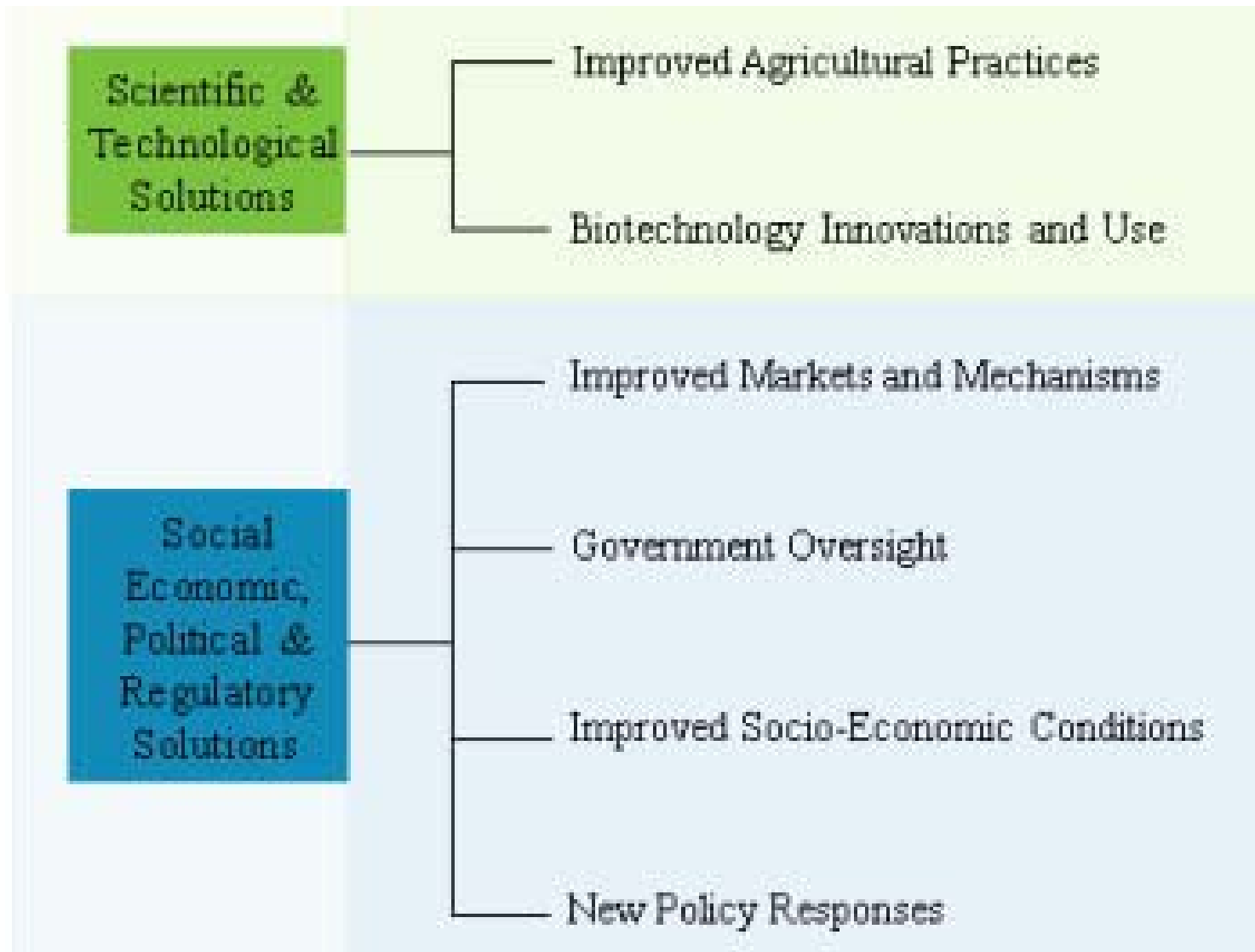
Impacts of Chemicals and Pollutants

Sustainability
Problems

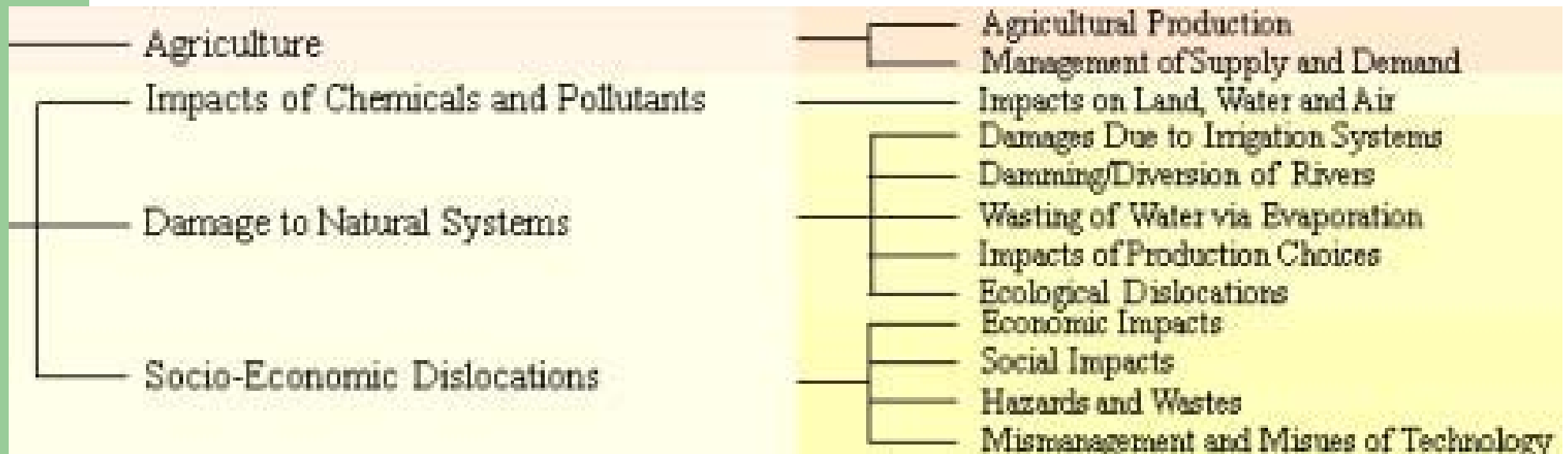
Damage to Natural Systems

Socio-Economic Dislocations

Agriculture



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