Trends in Sustainability
Circular Economy, Supply Chain, and Systems Thinking

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Sustainability

- A collaborative, evolving, and adaptive framework for decision making to sustain our present and future generations

Economic
- Financial Viability
  - Consistent Profitable Growth
- Risk Management

Sustainable Society

Environmental
- GHG emissions
- Water and Chemical Use
- Solid Waste & Recycling
- Energy Efficiency

Social
- Respect for Ind.
- Equal Opportunity
- Diversity
- Living Wage
MSU Sustainability Spartans In Action - 4 C's

- Curriculum
- Culture
- Community
- Campus

- Living & Learning Laboratory
- Improve the Physical Environment
- Become an Educational Leader in Sustainable Energy
- Leading by Example
- Invest in Sustainable Energy Research and Development
- Partnerships

MSU’s Sustainable Future
Sustainability challenges in a global and connected economy

- Energy Systems
- Climate Change
- Sustainable Transportation and Electrification
- Biodiversity
- Water
- Solid Waste Management & Recycling
Systems thinking and lifecycle analysis are necessary to understand, define, and innovate solutions to the wicked problems in our transforming global environment.
Evolving Topics and Trends around Sustainability

1. Evolving the conversation on recycling to focus on consumption and full systems analysis

2. Expanding to a circular economy
   - Extended producer responsibility
   - Domicology

3. Sustainability in finance & accounting
   - Investing; Insurance; Bond Ratings; Financing; Risk

4. Understanding the Supply Chain
   - Scope 3 carbon emissions; risk; vulnerability
   - Coronavirus: emissions, health care, markets
   - OPEC Market: Saudi Arabia & Russia
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Frequent Areas of Discussion often associated with Sustainability

- Energy Systems
- Climate Change
- Sustainable Transportation and Electrification
- Biodiversity
- Water
- Solid Waste Management & Recycling

Demonstrate the complexities of the challenges in a global and connected economy

Systems thinking and lifecycle analysis are necessary to understand, define, and innovate solutions to the wicked problems in our transforming global environment.
Evolving Topics and Trends around Sustainability

- Evolving the conversation around recycling and expanding it to include consumption and full systems analysis.
- Discussion expanding to a circular economy
  - Extended producer responsibility;
  - domicology;
- Sustainability in finance and accounting
  - Investing; Insurance; Bond Ratings; Financing; Risk
- Understanding the Supply Chain –
  - impact on scope 3 carbon emissions; risk; vulnerability
  - Coronavirus – impact on emissions; on health care; markets