

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

IPPSR Policy Forum

March 11, 2020

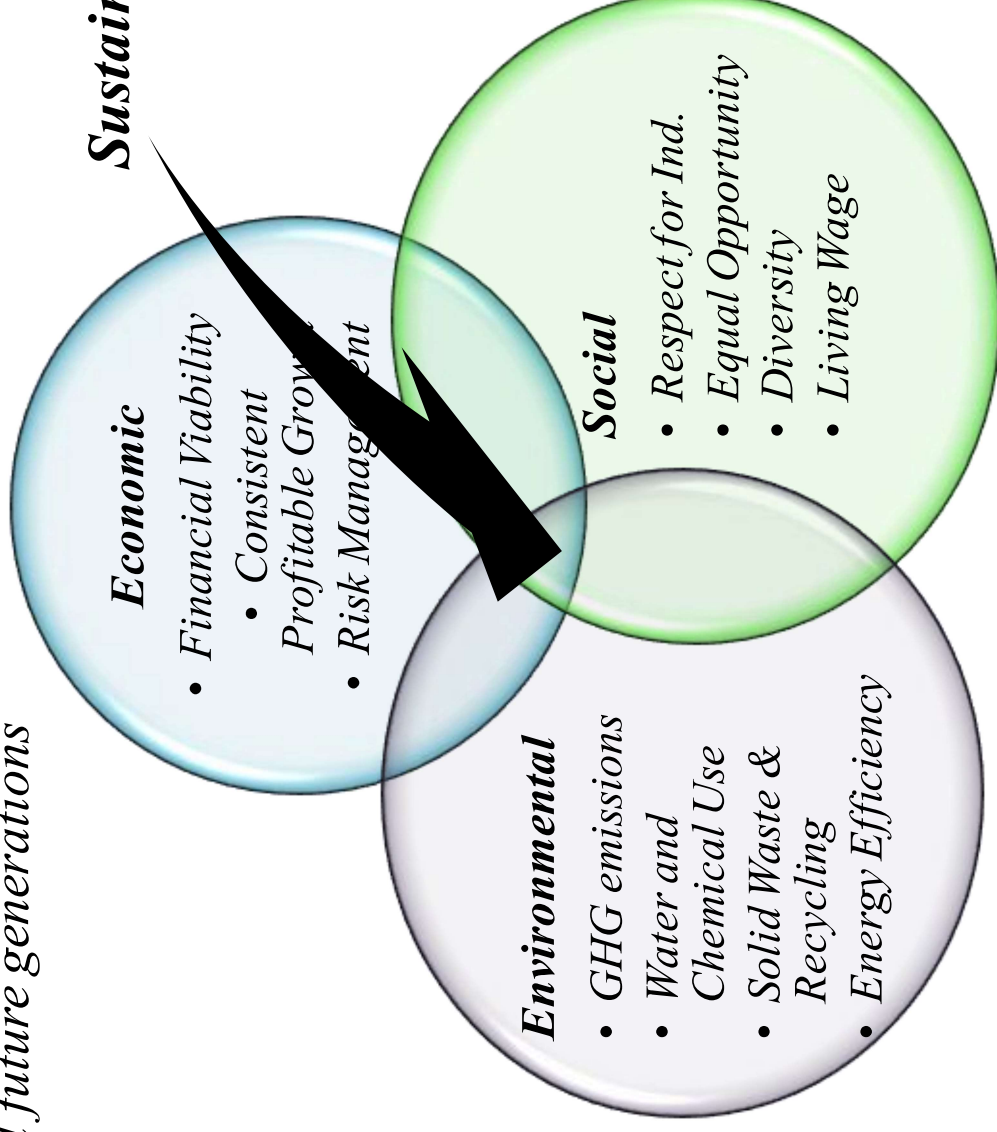
Amy Butler, MSU Director of Sustainability

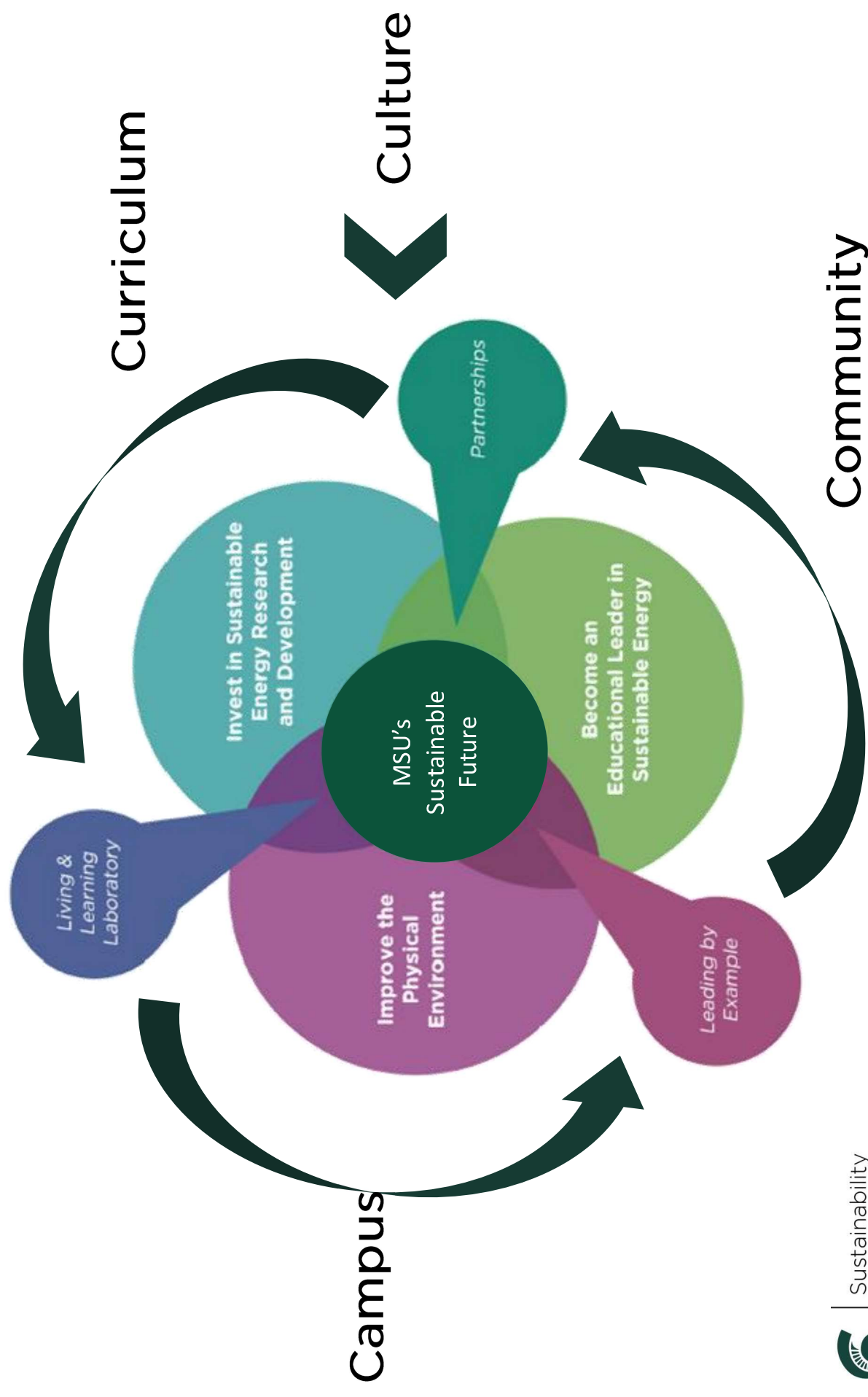


Sustainability
MICHIGAN STATE UNIVERSITY

Sustainability

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



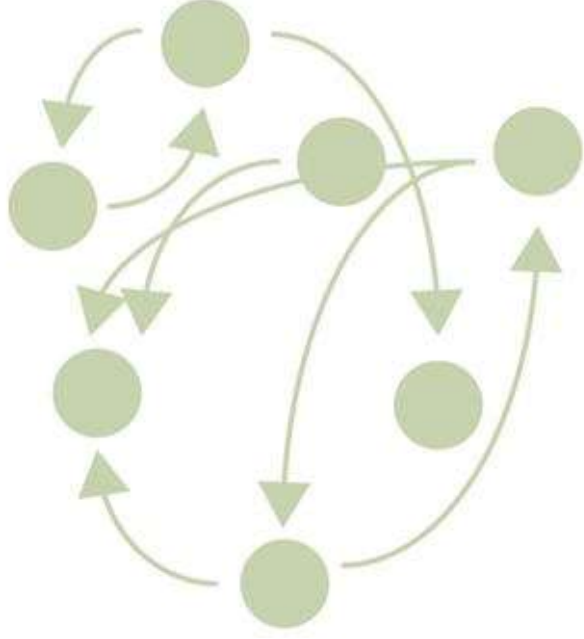


Sustainability challenges in a global and connected economy

- 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 the conversation on recycling to focus on consumption and full systems analysis



Expanding to a circular economy

Extended producer responsibility
Domicology



Sustainability in finance & accounting

Investing; Insurance; Bond Ratings;
Financing; Risk



Understanding the Supply Chain

Scope 3 carbon emissions; risk; vulnerability

- Coronavirus: emissions, health care, markets
- OPEC Market: Saudi Arabia & Russia

Follow Up Contact Information:

Amy Butler
Director of Sustainability
butle223@msu.edu
517-355-1751
begreen@msu.edu
<https://sustainability.msu.edu>

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 the conversation around recycling and expanding it to include consumption and full systems analysis.
- Discussion expanding to a circular economy
 - Extended producer responsibility;
 - domiciology;
- 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