



IOWA DEPARTMENT OF NATURAL RESOURCES

LEADING IOWANS IN CARING FOR OUR NATURAL RESOURCES

What is Sustainable Materials Management

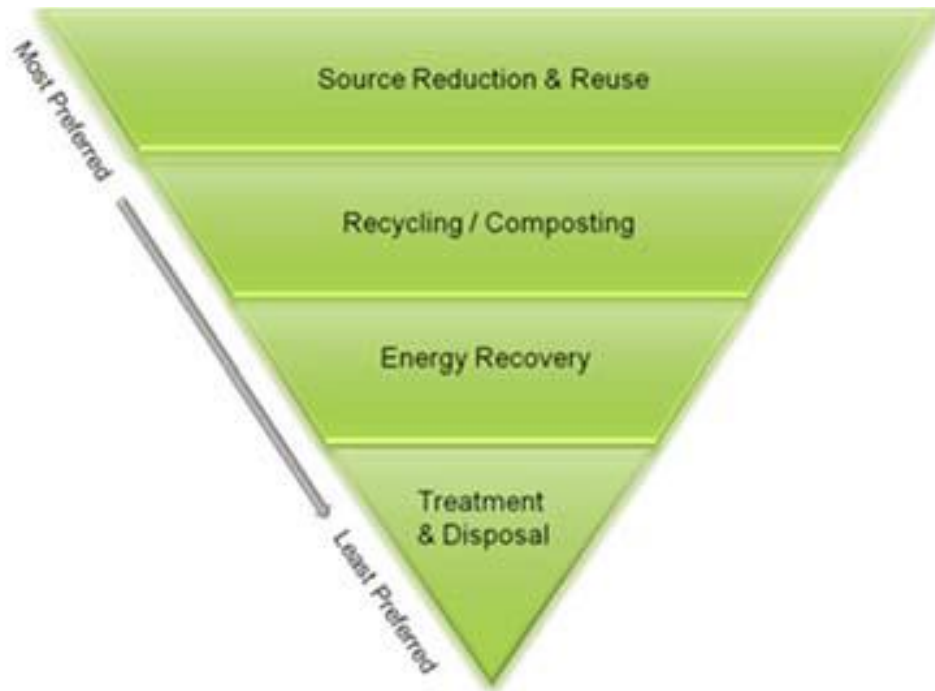


- SMM seeks the most productive use of resources through the entire life cycle, while waste management seeks to minimize and/or manage wastes or pollutants.

Sustainable Material Management's Life-cycle Perspective. US EPA. 2018, August 14)

<https://www.epa.gov/smm/sustainable-materials-management-basics>.

Typical Waste Management Hierarchy




Project Phases

Phase I (Completed): What is SMM and should we do it?



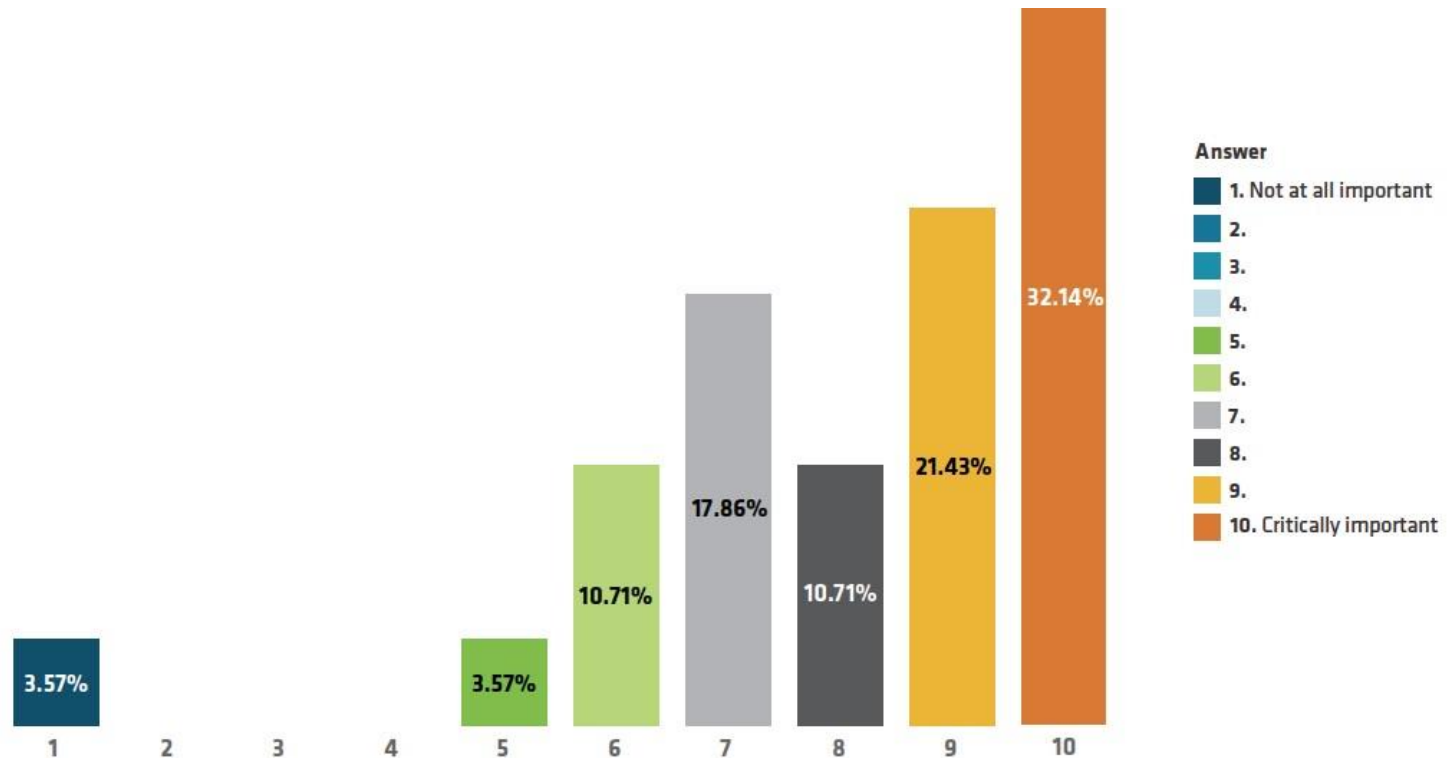
Phase II (Active): Prioritization and timing of what we should do and how we should accomplish it



Phase III (Future): Ongoing Implementation

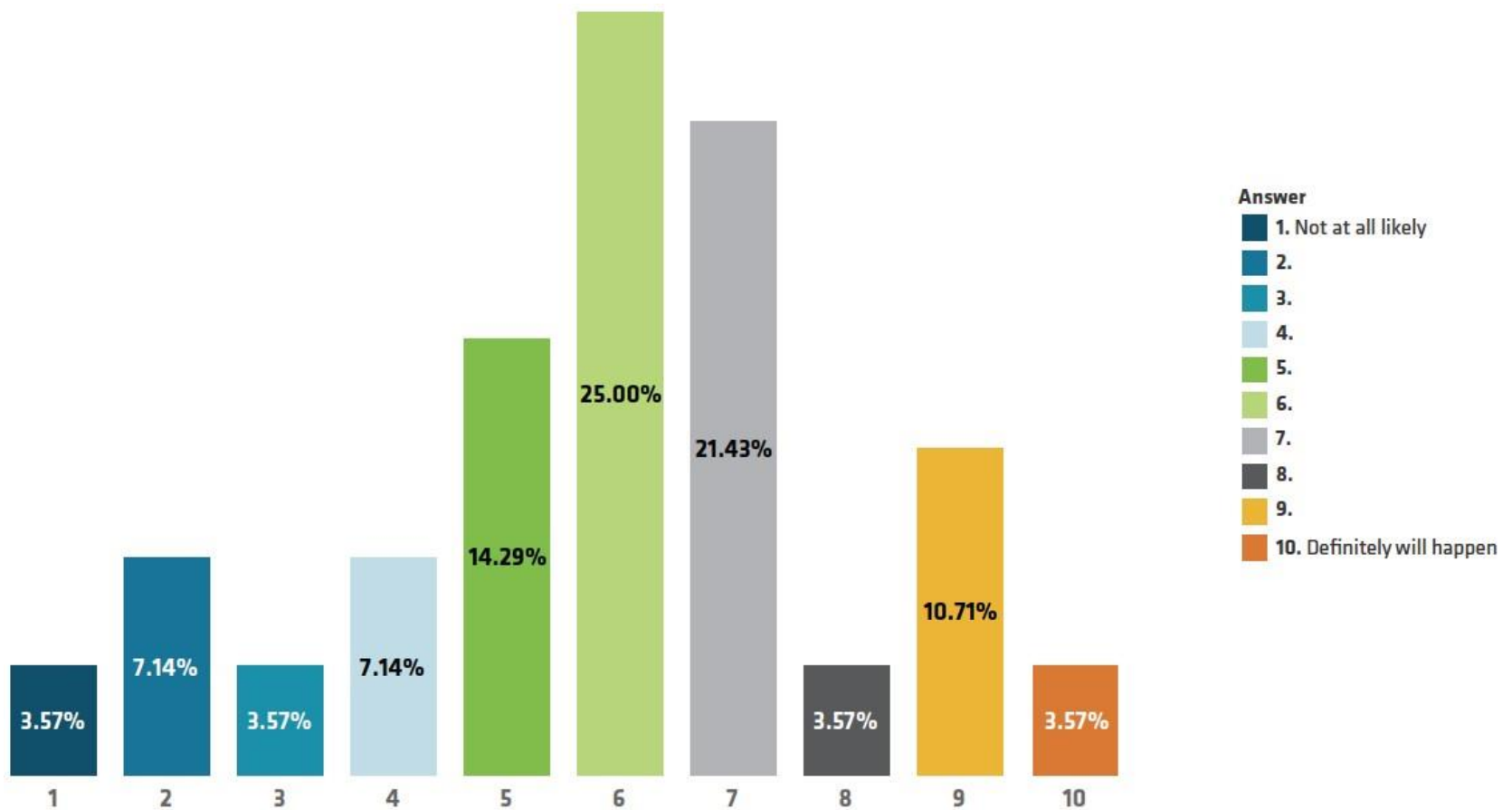
Phase I- Visioning

- Convened stakeholders
- Internal DNR Policy
- Visioning effort
- Surveys



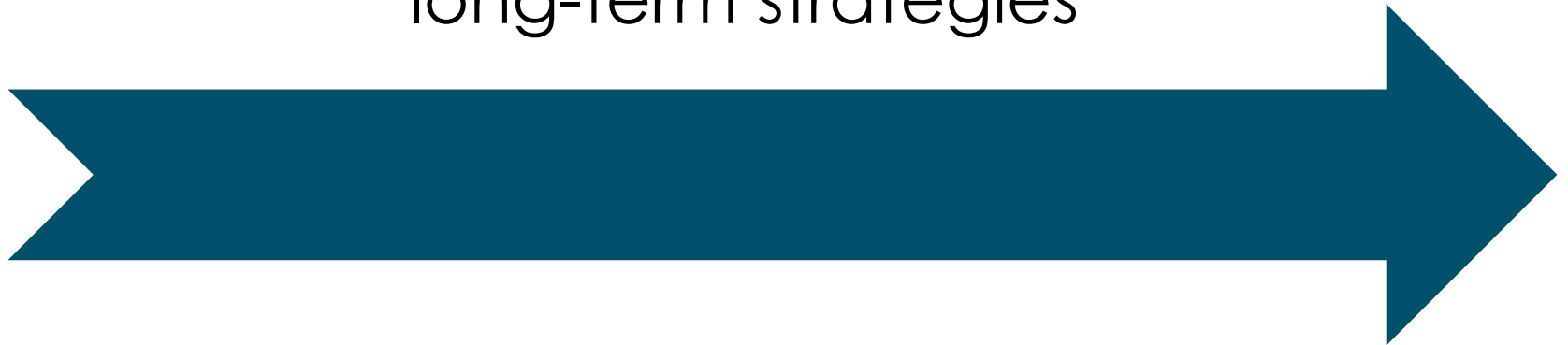
How important do you think it is for Iowa to transition from an integrated solid waste management policy to a sustainable materials management policy? (Aiming for the highest and best use of discarded materials and improved environmental protection)

Phase I (Completed) Feasibility Results

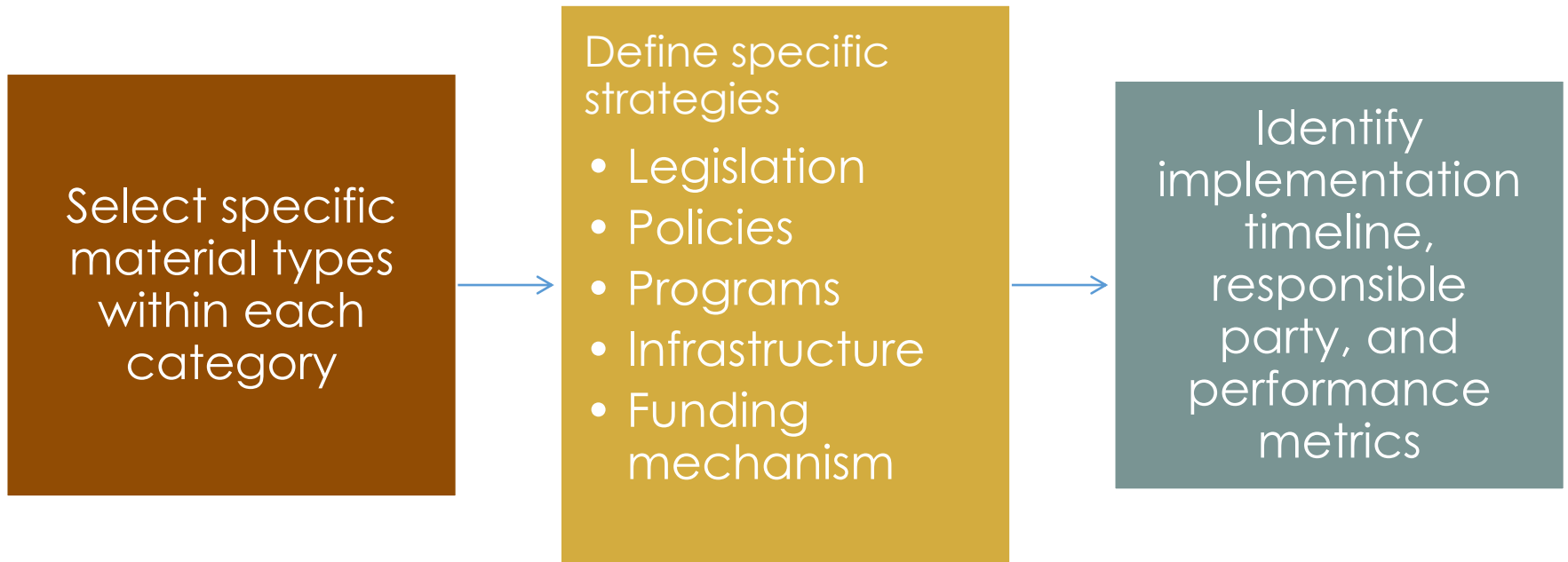


Phase II Goal

Establish a clear direction for implementing an SMM system with immediate, medium and long-term strategies



Process



Stakeholders Reviewed Material Categories



Plastics



Metals



Fibers



Organics



Glass



Construction and Demolition Debris



Household Hazardous Materials/Universal Wastes

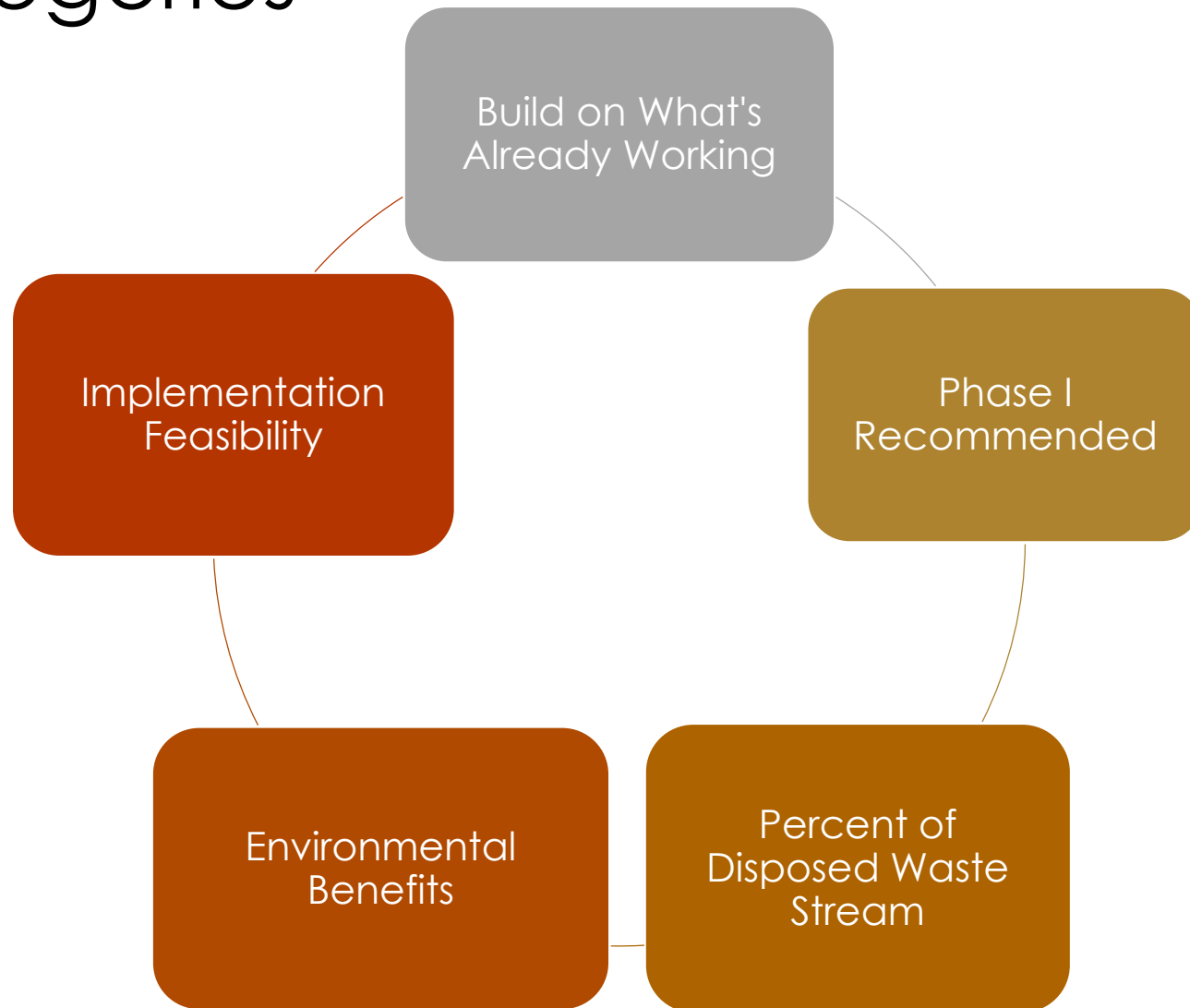


Durable Goods

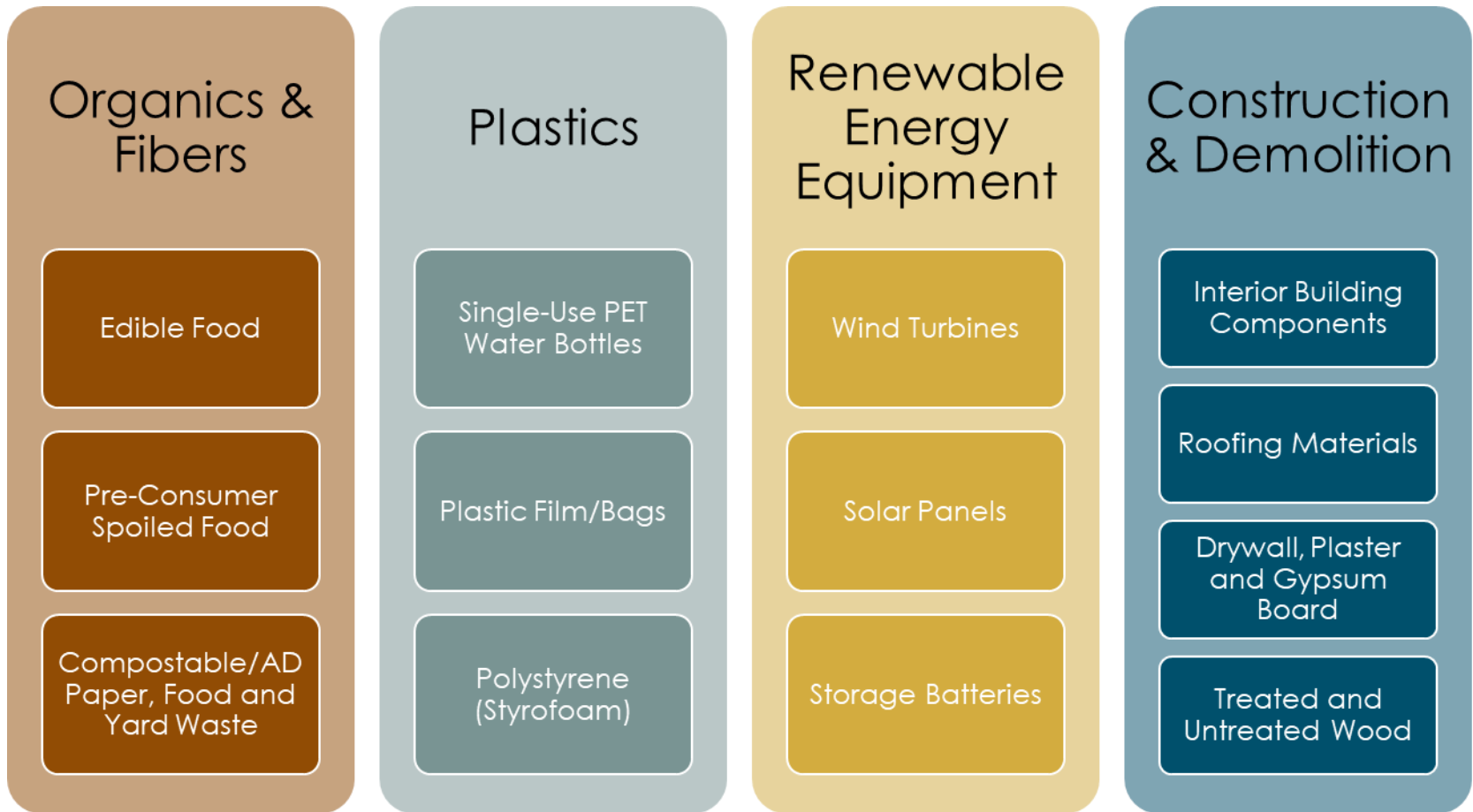


Renewable Energy Equipment

Criteria for Selection of Materials Categories



Materials Selected



Progress To Date

Two stakeholders meetings

Three subcommittee meetings

Focus on exchange of information

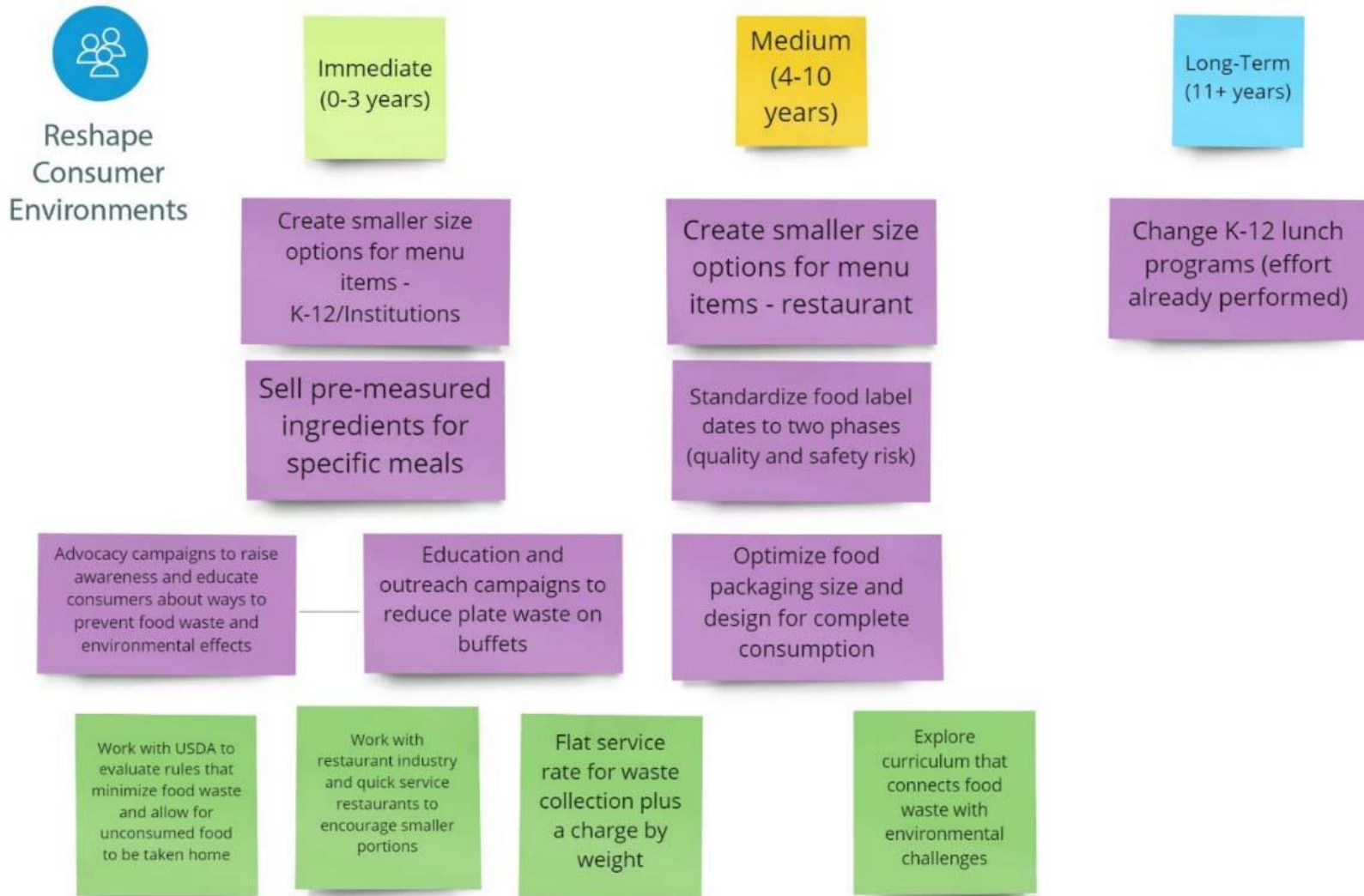
- From Project Team to Subcommittee:
 - What is SMM?
 - How is it already occurring in Iowa?
 - What are other states doing – successfully or not?
- From Subcommittee to Project Team
 - How Iowa entities operate
 - Existing programs
 - Challenges and road blocks

Presentations from subject matter experts

Research on existing Life Cycle Assessments

Evaluation of potential strategies for development and consideration

Organics and Fibers



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Plastics



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Renewable Energy Equipment

Renewable
Energy
Equipment

Next 5
Years

Beyond
5 Years

Encourage
policies to
solve end of
life challenges

Encourage
solutions that
drive businesses
and solutions to
move to Iowa

Encourage
research on
recycling on
RE materials

Consider re-
establishing and
expanding the
renewable energy
tax credit

Promote the
benefits of
renewable
energy

Research what
counts as
recycling in
Iowa - does
burning?

Consider re-
establishing and
expanding the
renewable energy
tax credit -
incentives to rural
electric cooperative

Fair and
equitable
outcomes for
all utilities

Review
ordinances and
determine if
they should be
standardized

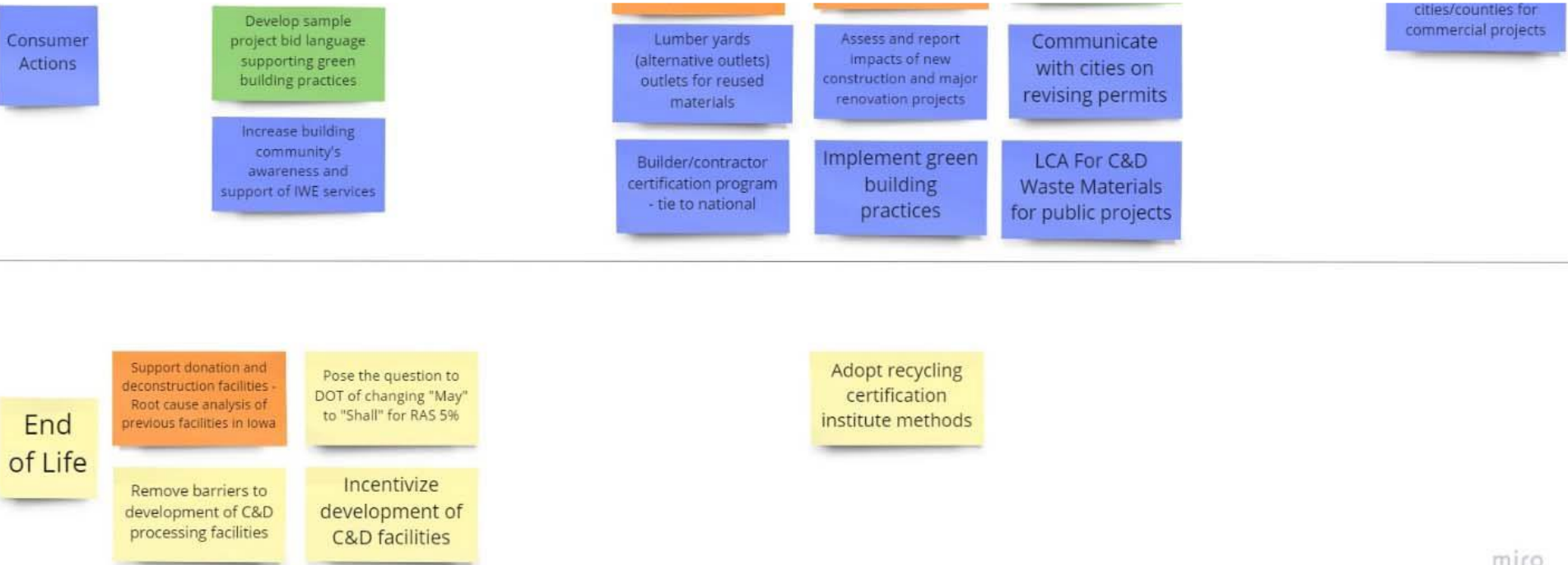
Survey of
installers on types
of waste -
residential or
business and
proper disposal

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Construction and Demolition Debris



Construction and Demolition Debris



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Next Steps

