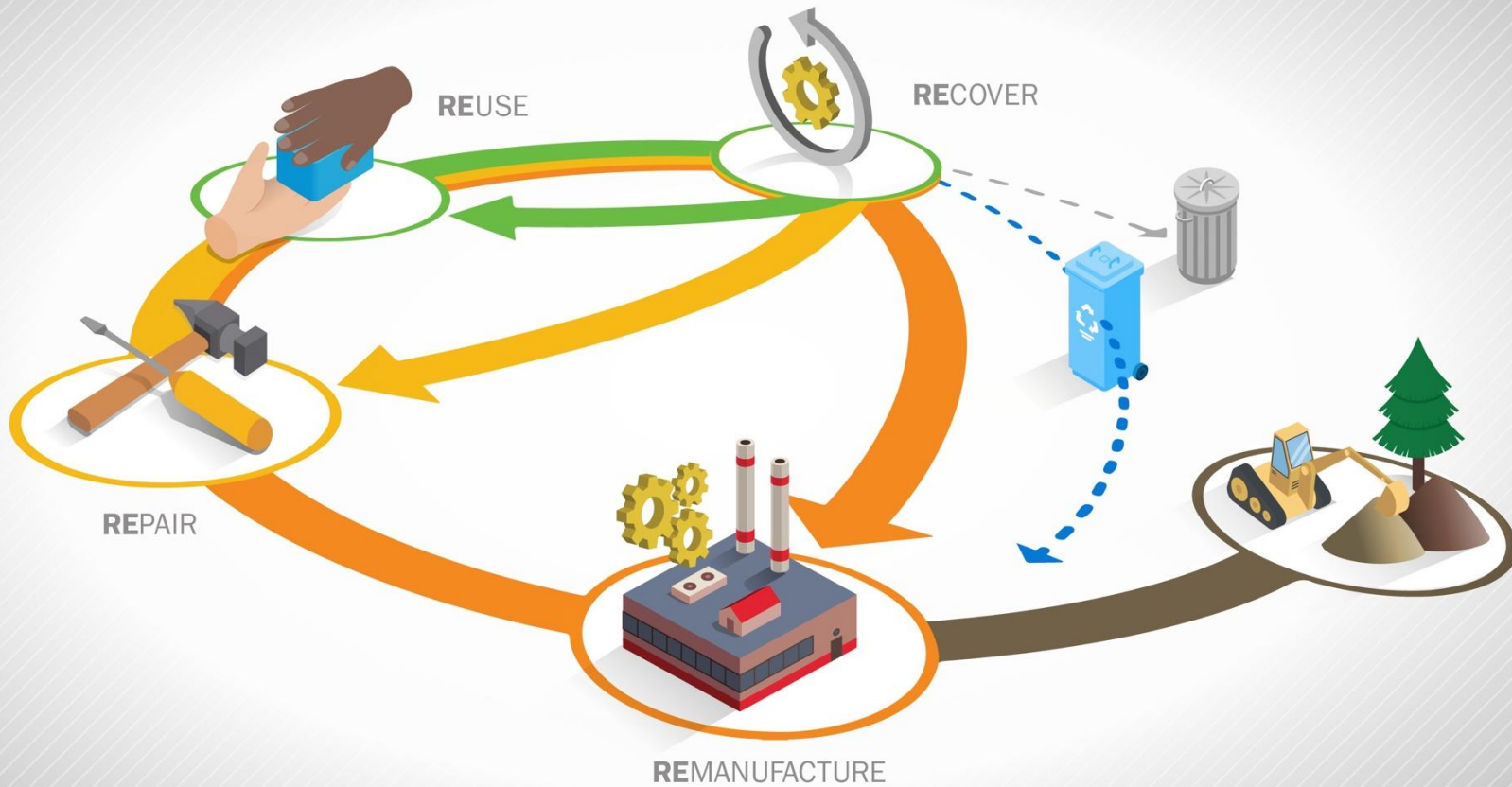




U.S. DEPARTMENT OF ENERGY



# Re-X Before Recycling Prize Phase 1 Applicant Checklist

The purpose of this document is to be a resource to help participants review their submission materials to check that they are complete. Use of this checklist is optional. Using this checklist or template does not guarantee selection as a winner and competitors should always defer to the [official rules document](#).

## 90-Second Video

Post your publicly accessible, 90-second video online (e.g., on YouTube).

- The real-world opportunity for a Re-X supply chain that your innovation will enable.
- Your solution and why it is transformative.
- Who you are and why you will be successful.

## Cover Page

The cover page is not a separate document upload and will be filled out via HeroX.

- Project name
- Link to your 90-second online video
- Team members (names, contacts, and links to their LinkedIn profiles)
- Your city, state, and nine-digit zip code
- The topic area you are addressing
- Website (if applicable).

## Narrative Questions *(Not to exceed 2,500 words)*

Use the following template: <https://www.herox.com/ReXBeforeRecycling/resource/1565>

### Section 1: Opportunity (20%)

#### Re-X Supply Chain Opportunity:

- Have you provided a detailed description of the Re-X supply chain opportunity, including the specific industry or domain it addresses?

#### Timing and Viability:

- Is there an explanation of why the opportunity hasn't been realized, why now is the right time, and a clear path to economic viability for the supply chain?

#### Evidence-Based Validation:

- Have you included evidence-based validation through methods like interviews or case studies? Are estimates and assumptions reasonable for waste stream, interventions, end markets, and expected impacts?

### Section 2: Innovation (20%)

#### Innovation Concept Description:

- Have you thoroughly described your innovation concept and how it advances the current state of affairs?

#### Value Proposition and Re-X Supply Chain Viability:

- Is there a clear articulation of your innovation's value proposition and how it contributes to establishing a viable Re-X supply chain? Have you explained whether it saves money, increases effectiveness, or provides other benefits?

**Anticipated Challenges and Solutions:**

- Have you provided details on anticipated challenges to realizing the supply chain opportunity? Have you outlined how your innovation can overcome these challenges effectively?

**Section 3: Accomplishments and Team (20%)****Team Introduction:**

- Have you introduced your team, highlighting the knowledge and skills that make your team capable of realizing the innovation?

**Readiness and Resource Needs:**

- Is there a description of your team's readiness to meet your goals? Have you indicated whether your team requires additional talent and/or resources?
- Include any letters of intent or support to strengthen your application.

**Experience and Diversity:**

- Have you detailed your team's experience in trying new things, solving difficult problems, and overcoming barriers to bring ideas to reality? Have you highlighted your team's diversity?

**Efforts to Advance Innovation:**

- Have you described your team's efforts to advance the innovation prior to or after the announcement of this Prize phase? Have you highlighted key learnings and achievements?

**Section 4: Plan (20%)****Innovation Development and SMART Goals:**

- Have you described your current position in the innovation's development cycle and developed a plan with SMART goals to advance it towards implementation in a viable supply chain?

**Proposed Success Metrics:**

- Is there a description of your team's proposed metrics to determine success? Have you considered using example metrics provided in Appendix C?

**Risk Assessment and Mitigation:**

- Have you outlined risks associated with your innovation and provided strategies to mitigate them?

**Analysis and Collaboration with National Lab:**

- Have you described any analysis, such as LCA or TEA, that has been conducted? Have you explained how collaborating with a national lab for analysis will contribute to your success?

## Section 5: Community Benefits Plan (10%)

### Identify Affected Communities:

- Have you identified the communities the supply chain will affect? Have you described the challenges or problems these communities are facing and how your proposed innovation will benefit them?

### Engagement Strategies:

- Is there a description of specific strategies and activities planned to engage, educate, gain trust, and obtain buy-in from these communities?

### SMART Goal Inclusion:

- Have you included at least one SMART goal addressing Diversity, Equity, Inclusion, Accessibility (DEIA), workforce implications, or environmental justice?

## Summary Slide

Create public-facing submission summary slide. The slide should be a PowerPoint slide submitted as a PDF.

- Have you crafted a one-slide submission summary that includes technically specific details but is easily understandable by a diverse audience?
- Is the information presented in a format suitable for standard printout and conference room projection, ensuring readability for most people?

## Analysis Support Work Slide

The analysis support work slide should be a PowerPoint slide submitted as a PDF.

### Previous Analysis:

- Have you briefly described any analysis, such as Life Cycle Assessment (LCA) or Techno-Economic Analysis (TEA), that your team has already conducted?

### Technical Support and Consultation from National Lab:

- Is there a description of how technical support and consultation from a national lab will enhance your team's understanding of the supply chain opportunity, advance your innovation, and quantify environmental and economic impacts?

### Preferred Types of Analysis:

- Have you identified which types of analysis would provide the most valuable insights, if known?

### Top Three Choices of National Lab:

- In order of preference, have you listed the team's top three choices of a national lab (NREL, ORNL, Argonne, LBNL, or PNNL) to provide analysis support? Have you provided the reasons for each preference?