Outputs, Outcomes & Impact

Engineering Research Center for Sustainable Urban Communities
Simple Logic Model
# Outputs vs. Outcomes and Impact

## Program Goal(s):

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
<th>Expected Outcomes</th>
<th>Long-term Impact</th>
<th>Measurement Indicators</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Activities</td>
<td>Short Term By End of Year 1</td>
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<tr>
<td></td>
<td>Participation</td>
<td>Intermediate By End of Year 5</td>
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Our focus is here!
Logic Model for MRSEC CDCM Education and Outreach Evaluation

**Resources**
- NSF MRSEC Funding
- UT Austin CDCM and UT MCOP
  - Research Experience
  - Interdisciplinary Senior Investigators, Faculty and Program Support
  - Undergrads, Grad, Postdocs
  - Industry, Community and K-5 Partnerships
  - UT Student Enrollment and Matriculation Data
- Existing UT Programs/Resources
- UT Austin Center for STEM Education Evaluation

**Activities**
- CDCM Summer School
- Undergraduate Research: REU
- Grad/Postdoc Recruiting
- Teacher Outreach: RET, Stuff
- Entrepreneurial Greenhouse
- Industry-University Nexus
- Arts + Sciences Collaborative
- Stuff: Materials for the Masses
- Faculty Recruiting Seed Project Support
- External Evaluation

**Participation**
- Number and Diversity of Participants in:
  - CDCM Summer School
  - Undergraduate Research (REU)
  - Grad students
  - Postdocs
  - Teacher Outreach
  - Entrepreneurial Greenhouse
  - Industry-University Nexus
  - Arts + Sciences
  - Stuff: Materials for the Masses
  - Mentors in the above activities

**Outcomes Short-Term (1-3 Years)**
- Establishment of CDCM UT MCOP Initiatives
- Increased REU Participation, Materials Science Understanding and Research
- Increased Postdoc Participation, Research
- Increased Teacher Participation, K-5 Materials Science Teaching Efficacy
- Increased Appreciation for STEM Transferrable Skills
- Increased sense of belonging in STEM
- Increased integration of arts and sciences

**Outcomes Long-Term (4-6 Years)**
- Broadened REU Participation, Matriculation and STEM Graduate School Enrollment
- Broadened Grad/Post-doc Participation; Career Progression
- Broadened teacher participation and increased student reach
- Entrepreneurial Greenhouse Start-Up Activities
- Industry-University Nexus Spin-Outs, Patents, and Licensing Agreements
- Broadened faculty and Seed Projects

**Impacts**
- Center Participants Prepared for Success in Broad Range of Materials-Related Career Endeavors
- Far-Reaching Appreciation for the Broader Impacts of Materials Science and Materials-Based Technologies
- Broader Participation at All Levels of the UT and Extended Materials Communities
Outputs vs. Outcomes and Impact

Activities you do or accomplish

Results due to the activities

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NSF Smart and Connected Community Awards