

Supporting Manufacturing Leadership Through Sustainability

E3: Economy, Energy, and Environment

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What Is E3?

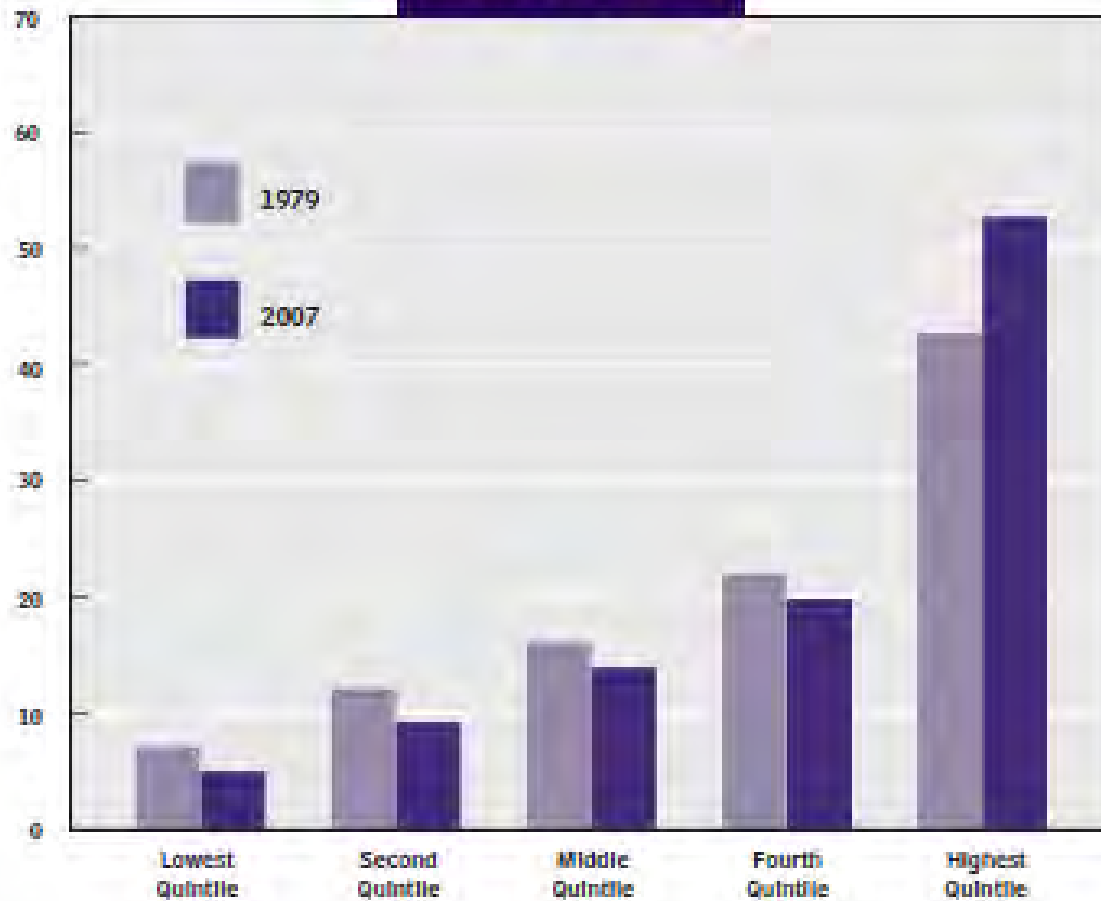
A model framework for collaboration among manufacturers, utilities, local, state, and federal governments, and local manufacturing community ecosystems

- Strengthens local economies
- Helps manufacturers become more profitable
- Creates and retains jobs
- Improves environmental and energy performance



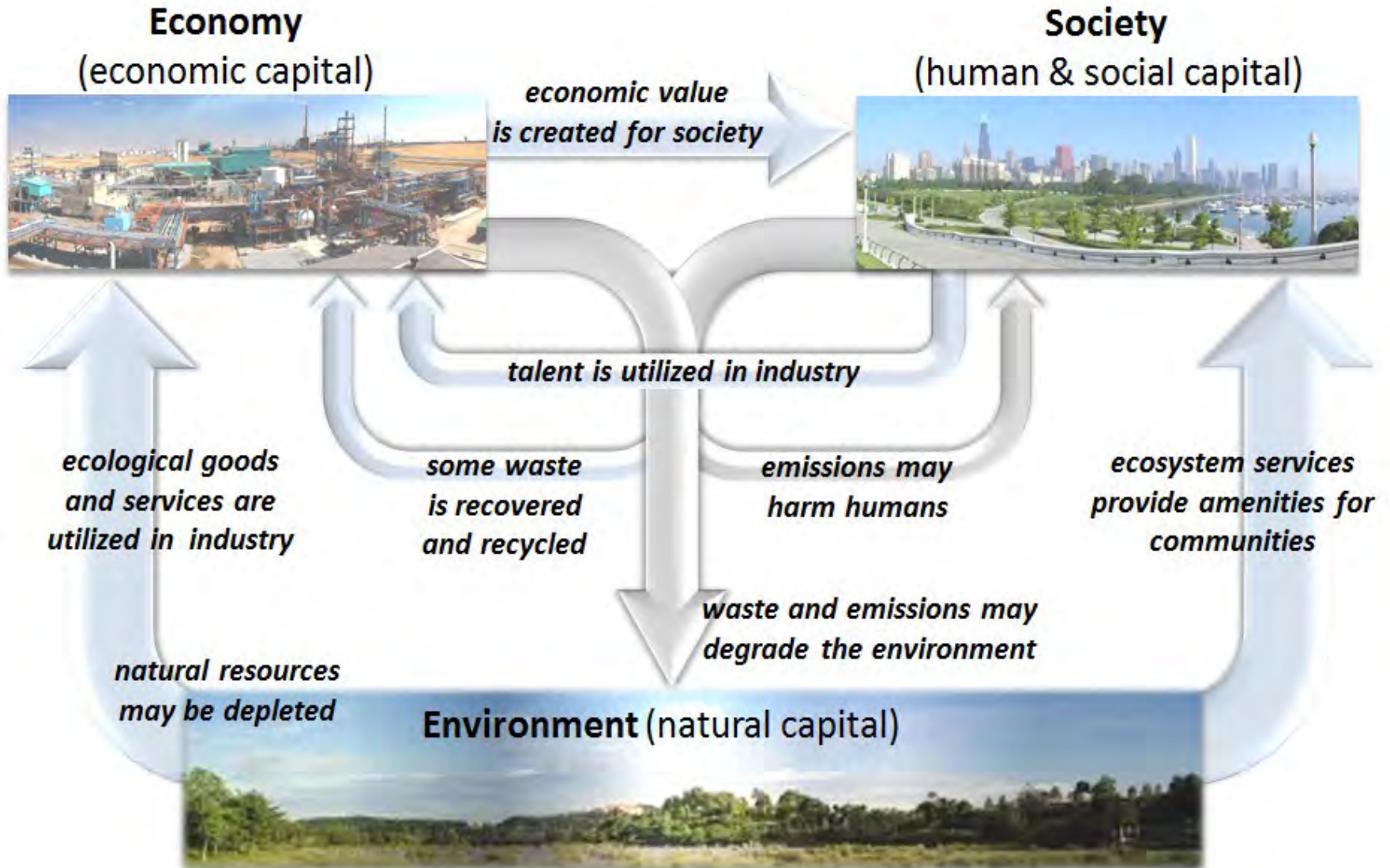
OCTOBER 2011

Trends in the Distribution of Household Income Between 1979 and 2007



Shares of Income After Transfers and Federal Taxes, 1979 and 2007

Triple Value Model



What Does E3 Deliver in Practice?

Support to Manufacturers:

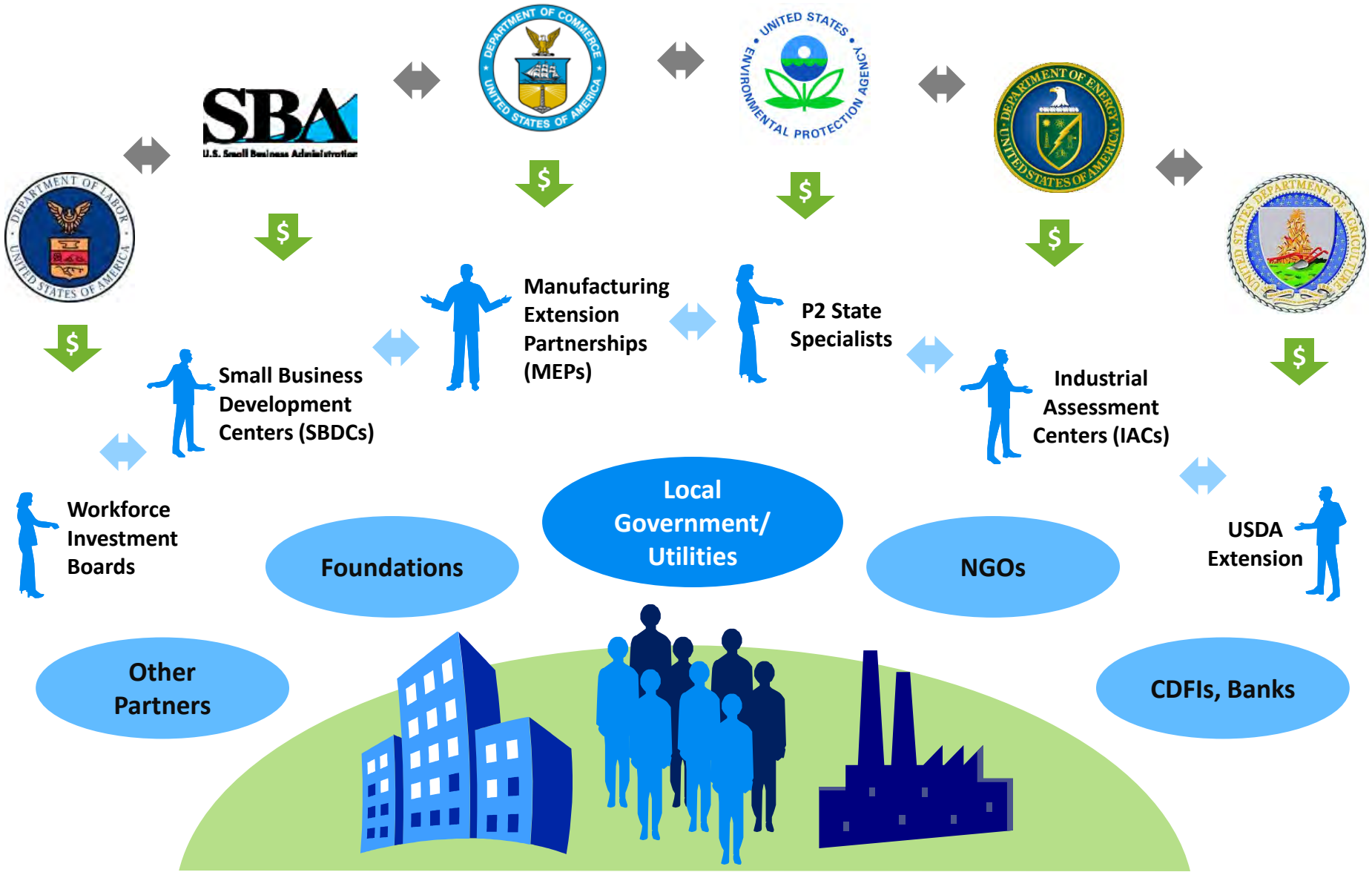
1. Coordinated technical assessments of local businesses
2. Post assessment recommendations
3. Implementation support
4. Training and continuous improvement support
5. Long-term engagement and problem-solving support



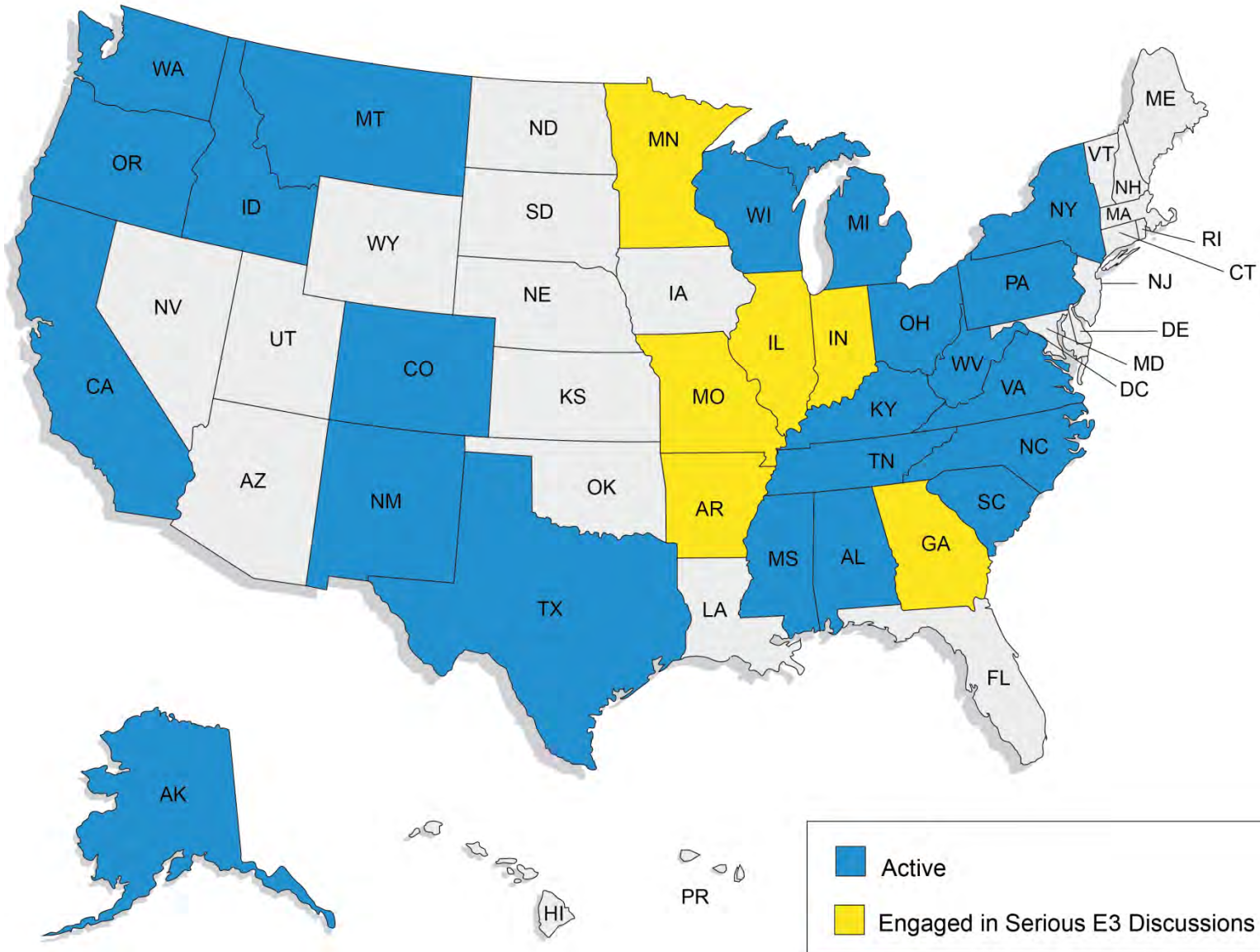
A Framework for Community Collaboration
that connects initiatives, programs, projects,
and actors



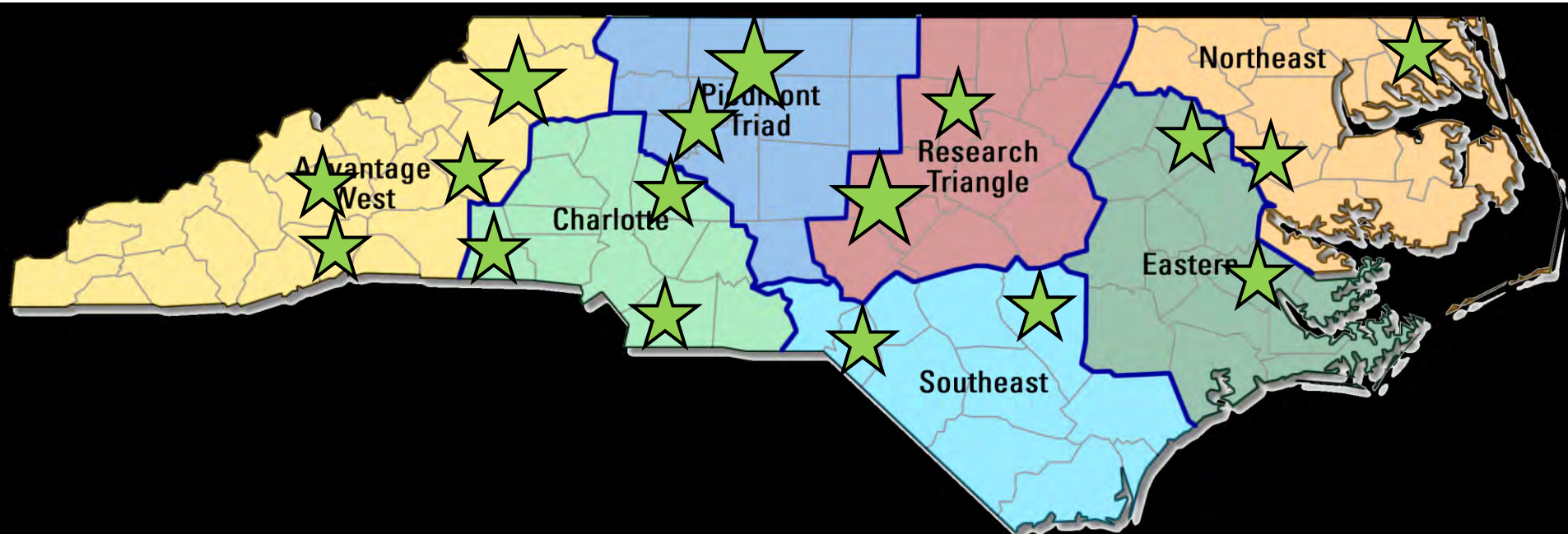
How Does E3 Do This?



A Growing Number of Communities Nationwide are Using the E3 Framework

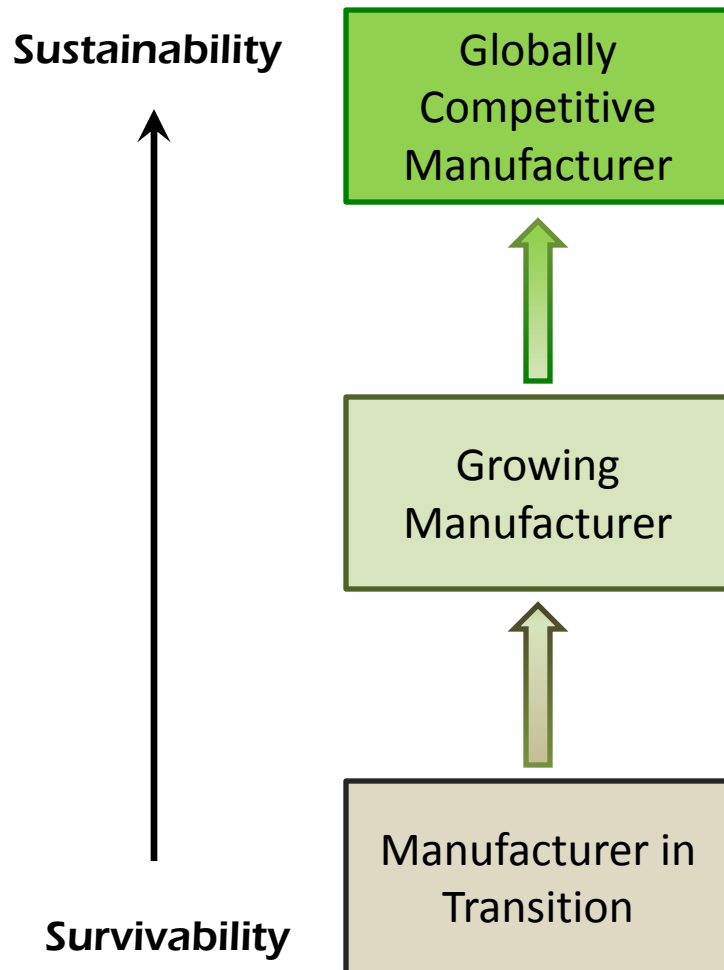


E3 on the Ground in North Carolina



E3 North Carolina has worked with over 45 manufacturers statewide. The effort has identified over \$20 million in savings opportunities. Roughly 20% of the participating manufacturers have been independently surveyed and reported over \$9.3 million in realized savings.

One North Carolina E3 Manufacturer's Sustainability Journey



- Facility hopes to quadruple revenue by 2015.
- Combined economic impact of \$10+ million and 125 new jobs.*
- Participated in Tech Scouting with Local MEP.
- Received grant from Martin County, NC Committee of 100 to continue work on sustainability.
- Improved quality and reduced waste.
- Reduced energy use throughout the facility.
- Joined North Carolina E3 in 2011

E3 Texas: A Manufacturing Success Story



UEMC is a woman owned business with over 50 years experience in contract sewing, screen printing and other textile related manufacturing. UEMC produces body armor, aircraft components and other sewn goods. TMAC, the local MEP center, directed an E3 assessment at UEMC in October 2009.

Linda Jordan, the CFO of UEMC, says that E3 is about much more than just saving the company money and energy. **“The impact reaches far beyond energy, dollars or the environment. It is about people and community. When TMAC conducted our E3 assessment last year we had 100 people employed on the floor. We are now up to 279 employees. Every dollar that we don’t have to spend on wasted energy or materials is one more dollar that we have available to invest in our workforce. That has a direct impact on the quality of life for our local community.”**

Getting Started with E3

Four Steps to Progress:

Step 1



**Select areas with
available
resources**

Step 2



Establish team

Step 3



Secure funding streams

Step 4



**Engage
manufacturers**



E3 Within President's IMCP Initiative

The Investing in Manufacturing Communities Partnership (IMCP) is designed to:

- Help communities “race-to-the-top” to improve their manufacturing ecosystem
- Help guide the creation of local backbone organizations to assess community/regional strengths and weaknesses and then create a tune-up strategy that can help attract capital toward priority needs
- Target communities who are prepared to make good use of implementation dollars where available and TA and best practices more generally
- Develop a “playbook” that any community can use to make use of the best science and experience available

E3, IMCP and the Climate Action Plan

Tuning up manufacturers and their supporting community eco-systems can also reveal opportunities to build a low carbon 21st Century economy consistent with the Climate Action Plan which calls for America to:

- cut carbon pollution
- prepare for the change that is already happening
- be international leaders



For more information on the E3
Program, please contact:

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