



DEVELOPING TECHNOLOGY 2020'S PROJECT MANHATTAN SOUTH

Investing in manufacturing communities' partnership

GENERAL INFORMATION

Experience: Developing Technology 2020's Project Manhattan South

Country: United States of America

Coordinating Institution: Economic Development Administration (EDA), U. S. Department of Commerce

Other institutions involved: Technology 2020, Oak Ridge, Tennessee, U. S. A.

Duration of the experience: September 30, 2013 – September 29, 2014

Area of the successful experience: ICTs and investment

DETAILED INFORMATION

1) Description

The Economic Development Administration's (EDA) investment in Technology 2020 (Tech2020) paid for the development of an implementation-ready strategy called Project Manhattan. This strategy improves the competitiveness of an eight-county area known as the Cumberland Regional Business and Agribusiness Marketing Authority (CRBAMA). This strategy leverages Technology 2020's Advanced Manufacturing and Prototype Center of East Tennessee (AMP) and the Advanced



Composites Employment Accelerator (ACE) programs and is instrumental in expanding the advanced manufacturing sub-cluster around the nuclear supply chain. The strategy is vital in creating, locating, and expanding manufacturing firms to support the Uranium Process Facility at the Y-12 National Security Complex and other customers, as well as prepare these firms for export of products to offset displacement of jobs because of reduction of workforce at the uranium facility.



2) Beneficiaries

The Investing in Manufacturing Communities Partnership program concentrates on economically distressed counties with the sole purpose of improving their manufacturing base.

The CRBAMA area meets two requirements for distress (low per-capita income and out-migration) and this strategy should provide a path forward that will help improve wages that will increase per-capita income and lead to increased retention and growth of residents, thereby reducing out migration.

The benefits of this program are:

- Recruitment of industry to the clusters
- Increased sustainable manufacturing jobs
- Industrial diversification
- Manufacturing expansions
- Improved industrial infrastructure
- Increased wages

3) Implementation

Technology 2020's plan is encouraging partnerships to help expand the advanced manufacturing sub-cluster around the nuclear supply chain and to encourage and facilitate advanced manufacturing start-ups and expansions within the region. This plan accelerates the access to advanced manufacturing techniques to the manufacturers in the CRBAMA counties. The strategy also leverages what ACE and AMP have created. The strategy expands the impacts by utilizing new and existing economic development tools, a 'one-voice' regional collaboration (Regional Advanced Manufacturing Partnership - RAMP), and the development of public-private partnerships with manufacturers. The implementation of this strategy is developing regional manufacturing capabilities thereby creating globally competitive sustainable jobs in the eight-county area.



Technology 2020's implementation for Project Manhattan South takes advantage of a short-term opportunity (construction of the Uranium Processing Facility - UPF) to solve the following long-term problems.

- Job losses due to productivity improvements upon completion of UPF
- Atrophy of the nation's nuclear supply chain
- Regional unemployment
- Overall decrease in high-wage manufacturing jobs

4) Accomplishments and Results

One of the accomplishments of Project Manhattan South has been the growth of the Regional Advanced Manufacturing Partnership (RAMP). RAMP’s mission is to lead the creation of an advanced manufacturing industry cluster through regional engagement and participation in:

- Development and implementation of manufacturing and process technologies
- Development and retention of a capable and competent workforce
- Development of a mature, local advanced manufacturing supply chain
- Development of an integrated network of advanced manufacturers to increase awareness and access to regional assets

Tech2020 held a Regional Advanced Manufacturing Partnership Convention and Expo in 2014 and 2015 with more than 600 attendees.

Since the beginning of this project, Tech2020 has been involved in 140 advanced manufacturing projects. In conjunction with one of this region’s assets, Oak Ridge National Laboratory (ORNL), Tech2020 has created two co-labs; one at Tech2020’s incubator and the other at ORNL’s Manufacturing Demonstration Facility (MDF). These co-Labs have eleven tenants. Through this project, Tech2020 helped to create 22 new companies and create 66 new jobs.



Tech2020 held three boot camps for 30 small manufacturers located in the project area that needed assistance in increasing their participation in the advanced manufacturing cluster.

To assist with developing an educated workforce, one of our regional partners, Pellissippi State Community College, received approval from the Tennessee board of Regents to offer a degree in Manufacturing Sciences with a concentration in Advanced Manufacturing with a

Subtractive and an Additive option for the embedded certificates, reflecting current industry needs. An Additive Manufacturing certificate program for veterans was offered fall 2014 semester.

Another of our regional partners, the University of Tennessee Center for Industrial Services (UT-CIS) is continuing to work with Y-12 to engage advanced manufacturers in opportunities within the nuclear supply chain, particularly with the Y-12 Uranium Processing Facility project. CIS is supporting efforts led by the East Tennessee Economic Council and Project Manhattan South to map the nuclear supply chain sector in the Tennessee valley region.

5) Offers of cooperation with the region to exchange good practices

- Sharing of information via e-mail between January 1, 2016 and December 31, 2016
- Workshops between January 1, 2016 and December 31, 2016
- Mentoring between January 1, 2016 and December 31, 2016

6) Main contact information:

Mr. Stephen Williams
Executive Director
Regional Advanced Manufacturing Partnership (RAMP) Technology 2020
1020 Commerce Park Drive
Oak Ridge, Tennessee 37830
stephen@tech2020.org

7) Additional contact information:

Mr. David Snider
CFO, and VP Business Development,
Technology 2020,
1020 Commerce Park Drive
Oak Ridge, Tennessee 37830
snider@tech2020.org

Dr. Melissa Muendel
Director of Research
Technology 2020,
1020 Commerce Park Drive
Oak Ridge, Tennessee 37830
muendelm@tech2020.org

The collection of experiences showcasing successful projects implemented by stakeholders in countries of the Americas is one of the most important tasks of the Inter-American Competitiveness Network (RIAC). There are more than 200 experiences available in the Signs of Competitiveness in the Americas Reports 2012 -2015: www.riacreport.org.

The Organization of American States (OAS) serves as the RIAC Technical Secretariat to facilitate the knowledge sharing between countries, multilateral and academic institutions. The experiences and intellectual contributions presented by RIAC members for the 2015 Signs of Competitiveness in the Americas Report will provide valuable input for the RIAC Annual Meetings and the panel discussions during the IX Americas Competitiveness Forum (ACF) to be held in Guatemala City, on November 16-18, 2015.

For the latest information about the RIAC and the 2015 Signs Report follow us on Twitter @riacnet.org #RIACreport.