

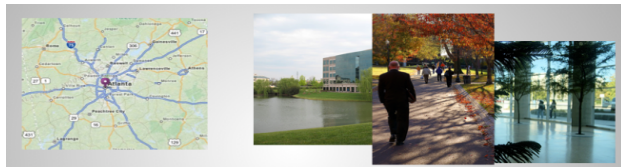


## S.M.A.R.T Community Exchange (SCE)

### Committed Enhancing the Skills and Experience of U.S. Military Veterans

S.M.A.R.T Community Exchange (SCE) is committed to empowering U.S. Military Veterans of all ages. Our advocacy efforts are geared to ensure that all Veterans obtain the best job training so that they become the most successful and well adjusted in our nation's history.

We enhance the skills of our Veterans through training that expose Veterans to new opportunities, enhance their job skills, empower their economic independence, and help foster Veterans readjustment to civilian life.



#### Workforce Training

The key aspect of our program is comprehensive hands-on job training and reintegration workforce training. This is one of the most critical parts of a Veteran's readjustment to civilian life. While serving, many veterans learn real life professions but there is a large portion of our servicemen and women that do not. Our plan to help reintegrate these Veterans into society must include vocational training. Along with SCE partners, we can offer our Veterans the head start and marketplace **job training** they will need to reenter society as productive citizens.

#### Training Programs

All SCE workforce training programs are provided and supported by our sponsors, all size enterprises and organizations representing numerous industries from around the world. SCE helps the corporate partners maintain a competitive advantage by preparing workers for skill sets needed tomorrow as well as today. Training is versatile and regimen is shaped specifically for the skills that our sponsor is looking to develop in its employees. Training is conducted in online classrooms, mobile labs or onsite at the company.

SCE also unites the skills and experiences of military Veterans with other professionals to rapidly deploy emergency response teams into crisis situations. The Veteran-Focused Response concept; Many Veterans returning home after fighting years of war, can find a renewed sense of purpose for their skills and experiences through Disaster Mitigation, Management and Response, as Climate Risk present many of the same problems that confront troops; limited resources, unstable populations, horrific sights, sounds and smells. The skills cultivated on those same battlefields – risk assessment and mitigation, teamwork and decisive leadership – are invaluable in crisis situations.



#### S.M.A.R.T Community Exchange - New York

New York, a fast growing high-tech corridor in the North East, is not only a fast growing S.M.A.R.T Community business hub in North America, but the leading S.M.A.R.T Community Finance Hub.

The SCE New York can accommodate hundreds of domestic and international companies, and their R&D facilities and employees from around the world.

The SCE New York delivers S.M.A.R.T Community market applications, project management support, and staffing needs in technology, finance, engineering, energy, environment, defense, materials science, infrastructure, transportation, disaster response and reconstruction, and more.

Sponsorships, please contact: Tana Torrano, [Tana@MarketVision.org](mailto:Tana@MarketVision.org).

To learn more go to:

[www.SMARTCommunityExchange.com](http://www.SMARTCommunityExchange.com)  
[www.EClassroomHub.com](http://www.EClassroomHub.com)  
[www.EcoCommerceExchange.com](http://www.EcoCommerceExchange.com)



**S.M.A.R.T Community Exchange (SCE) presents:**

## **Low Carbon Cool Chain Transport System (LCCCTS) Training Program**

Low Carbon Cool Chain Transport System (LCCCTS) is now ready for launch in the US.

Veterans participating in this program now have the opportunity to be trained for new jobs.

We believe that new Low Carbon Cool Chain Transport System (LCCCTS) can significantly impact the local food industry. This award winning technology is truly a game changer, meeting the emerging needs of the market. It puts the breaks on inefficient refrigerated trucks, dry ice, and non-reusables, enabling widespread use of energy saving vehicles. The LCCCTS can be leased for low entry, it is easy to operate, and requires minimal labor to maintain.

### **Background**

In July 2009, the Chamber of Eco Commerce (CEC) partnered with an international team of experts to research the concept of a Low Carbon Cool Chain (LCCC), and to explore its potential in the U.S.

High unemployment levels and low educational attainment levels, make traditional economic development efforts difficult. A LCCC training program offers an exciting chance for economic development that draws from and builds on the community's assets and roots.

LCCC education program supports entrepreneurial expansion and economic development by allowing entrepreneurs access to new technology, tools and know-how they will need to operate Low Carbon Cool Chain Transport Systems (LCCCTS).

### **Overview**

LCCC training program is now ready for launch in the the U.S. The groundwork for this has been laid in terms of training program development, market research, and strategic alliances. The program is now at a stage where it is of the highest priority to penetrate the market quickly and efficiently. The LCCCTS is designed to improve existing cool chain infrastructure, help build stronger regional food systems, and enable transformative supply chain change across the regions.

### **Economic Development**

We support entrepreneurial expansion and micro-enterprise development by providing training to entrepreneurs; how they can operate LCCCTS to deliver fresh foods effectively for public consumption and sale. This summary is an overview of the concept of our training program and its potential as an economic development tool. The recommendations contained herein should be used to advise CEC stakeholders, as the project moves forward.



## Training

CEC provides access to training to individuals through SMART Community Exchange (SCE) online training platform, and strategic alliances with private and public partners, including [USDA Food Hubs](#).

## Growth

The demand for temperature controlled food and non-food delivery services is increasing in many markets. One important factor is the movement of manufacturers and retailers to urban markets, as well as the changing tastes and lifestyles of consumers in more mature markets. This has resulted in high levels of investments by logistics companies and their associate suppliers, as they have acquired or partnered local players in order to access these markets and to open temperature controlled operations in regions to serve the growth in prosperity of local populations. In addition, temperature monitoring and control are essential mechanisms in cold chain management, because they are necessary for maintaining food safety and quality.

## Origin of the Project

LCCC training program is a result of a partnership between the CEC of Atlanta, and an international group of cool chain experts. The program efforts are centered on four key program areas including new technology, entrepreneurial and enterprise development, and marketing and branding.

In 2011, CEC commissioned a study that defined the needs and opportunities for Eco Commerce projects. The LCCC was among the recommendations that emerged from that study. The LCCC training program became an economic development program, and a four year (2012-16) work plan was drawn from the document.

CEC stakeholders saw the potential of LCCC training to help promote local entrepreneurial and micro-enterprise development playing on the local assets. The stakeholders also realized this project's potential to address their own goals of community support, and savings in energy and resources. Stakeholders met in March 2012 to discuss and further explore the LCCC training program model and launch of a global Low Carbon Cool Chain initiative (2012-16). While the first LCCC training program will be launched in Atlanta, all stakeholders recognize its ability to serve stakeholders across the U.S., and worldwide, as an economic development tool.

## WHY LCCC Training?

The income and poverty level data suggests that there is a significant need for new and innovative economic development opportunities in communities.

Educational attainment data demonstrates that economic development initiatives need to consider and suit the comparatively low education levels of current residents. A LCCC training can provide hands-on education and advisory for this population and provide a bridge to new jobs in rural and urban areas as communities look at longterm economic development strategies and plans.

Of note, many micro-enterprises (defined as 5 or fewer employees) are currently helping to bolster the struggling economy of communities.

Drawing from their roots and the unique cultural heritage of regions, many small businesses are producing locally inspired products and services, but lack effective training and support. With these



limitations, however, these entrepreneurs struggle to grow their businesses to scale and to have a true impact on their local economies.

LCCC training can serve as an economic engine, both local and regional in scope, which draws from and builds on the community's assets. It can be a comprehensive approach to economic development by combining resources, technical support, access to capital, marketing strategies, and even value-added

tourism opportunities to support local entrepreneurship and a community's economic growth and revitalization. This collective endeavor is not only a more efficient use of capital, it also adds to the support, visibility, and capacity of individual businesses, leading to the long-term sustainability and success of the project as a whole.

LCCC training has numerous benefits for a community and its local entrepreneurs. With local roots, communities are primed to benefit from the LCCC training model. As a general rule, LCCC does not require high levels of academic skill; therefore the LCCC training can benefit target populations with comparatively low levels of educational attainment, while growing and fostering an entrepreneurial spirit in communities which can translate beyond the food industry sector.

### **Benefits**

Small businesses are the backbone of the American economy and remain a strong fiscal constant, especially in times of economic downturns and recessions.

Micro-enterprises contribute significantly to job creation and help our nation's struggling economy, in addition to fostering the entrepreneurial spirit and encouraging community investment in communities across the county.

- More than 87% of all businesses in the U.S. are micro-enterprises (5 or fewer employees)
- Micro-enterprise employment represents 18.2% of all private employment in the U.S.
- On average, micro-enterprises are responsible for an annual almost one million new jobs created in the U.S.
- Micro-enterprise development is a strong public investment with an estimated \$2.06 to \$2.72 for every \$1 invested, and returns sales, income and property taxes to local and state coffers.
- More than 80% of small businesses fail within their first five years – through lack of money, skills or both.
- Nearly 87% of business graduates remain in business.



# ECO Commerce Exchange



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'Where Media and Technology Connect to Get Your Story Out'

[www.SMARTCommunityExchange.com](http://www.SMARTCommunityExchange.com)

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## COLD CARGO TRACKING, MONITORING AND SHIPPING CONTAINER PRODUCTS & SERVICES



### THE SOLUTION & PRODUCT

For Food or Medical Safe & Green Transport and Storage

*'Cool Temperature Delivered in a Box - Without the use of External Power'*

- ◆ Insulated cold boxes with telematics, sensors, biodegradable cold element
- ◆ Proprietary, patented, and patent-pending ◆ NO AC power required – energy efficient and cool temperature maintained for over 200 hours ◆ Various measurements \*temp, humidity, organic elements, etc ◆ Commercially available in Europe, ready for food hubs/aggregators/operators worldwide
- ◆ Aligned with leading EV makers, for energy-efficiency, and USDA for Food Hubs across the U.S.

### THE CHALLENGE

1. Today, up to 40% of perishable products are wasted or spoiled between production and reaching the consumer
2. NO Energy-efficient cool chain solutions other than this unique and the First-Mover in the market.
3. Food safety monitoring (breaking cool chain) is increasingly important with outbreaks of salmonella and E-Coli on the rise, causing more deaths each year
4. Something simple, cost-effective, lower maintenance, green, with more stable and even temperature control is needed.
5. Profitable business in Europe already, USA rapidly growing. Cool chain industry is growing fast - (19%) in USA and in EU, (50%) in Asia, and (33%) rest of the world
6. Waste problem of disposables increasing; globally transport companies and auto manufacturers looking for adequate solutions, green delivery in major international urban hubs is strong market for restaurant 'fresh' delivery, local food hubs and co-ops
7. Telematics enables route optimization for max fuel savings; clients have yielded 30% fuel savings.
8. Inefficient refrigerated trucks vs. non-refrigerated EVs; 30% fuel and 40% maintenance savings.

### BUSINESS MODELS AVAILABLE

Commercial fleet sales, leasing, independent operators, food hubs, partnerships for key uses and value chain/supply ◆ Investment required, but rapid payback and financing assistance available ◆ Overall ROI is less than 2 years based on traditional solutions (ice, boxes, disposal, waste, energy use).



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## **REFERENCE**

### **USDA Food Hubs**

<http://www.ams.usda.gov/AMSV1.0/foodhubs>

### **CSA (Community Supported Agriculture)**

<http://www.nal.usda.gov/afsic/pubs/csa/csa.shtml>

### **USDA Food Blog**

<http://blogs.usda.gov/tag/food-hub/>

### **Regional Food Hubs**

<http://www.ams.usda.gov/AMSV1.0/getfile?dDocName=STELPRDC5088011>

### **Healthier Food Choices for Federal Employees (GSA)**

<http://www.gsa.gov/portal/content/104118>

### **Health and Sustainability Guidelines**

<http://www.cdc.gov/chronicdisease/resources/guidelines/food-service-guidelines.htm>

### **Sustainable Procurement**

<http://www.chamberofecocommerce.com/partnerprojects/sustainableprocurement.html>

### **Low Carbon Cool Chain Initiative 2012-16**

[http://www.chamberofecocommerce.com/images/LCCC\\_2012-16.pdf](http://www.chamberofecocommerce.com/images/LCCC_2012-16.pdf)

### **Urban Renewal for Cool Chain**

[http://www.chamberofecocommerce.com/images/PR\\_6\\_June\\_2012.pdf](http://www.chamberofecocommerce.com/images/PR_6_June_2012.pdf)

### **Urban Renewal for Fresh Food Supply**

[http://www.chamberofecocommerce.com/images/PR\\_July\\_1\\_2012.pdf](http://www.chamberofecocommerce.com/images/PR_July_1_2012.pdf)

### **MannaBox**

[http://www.chamberofecocommerce.com/images/Mannabox\\_PR\\_September\\_2011.pdf](http://www.chamberofecocommerce.com/images/Mannabox_PR_September_2011.pdf)

### **Low Carbon Transport**

<http://www.chamberofecocommerce.com/partnerprojects/lowcarbontransport.html>

### **Agriculture**

<http://www.chamberofecocommerce.com/partnerprojects/agriculture.html>

### **Sustainable Agriculture**

<http://www.chamberofecocommerce.com/sustainableagriculture.html>

### **Food and Nutrition**

<http://www.chamberofecocommerce.com/partnerprojects/foodandnutrition.html>

### **Distribution of Organic Products**

[http://www.chamberofecocommerce.com/images/CCS\\_May\\_2011.pdf](http://www.chamberofecocommerce.com/images/CCS_May_2011.pdf)

### **Food Security**

<http://www.chamberofecocommerce.com/partnerprojects/foodsecurityhub.html>