



BILL & MELINDA
GATES *foundation*

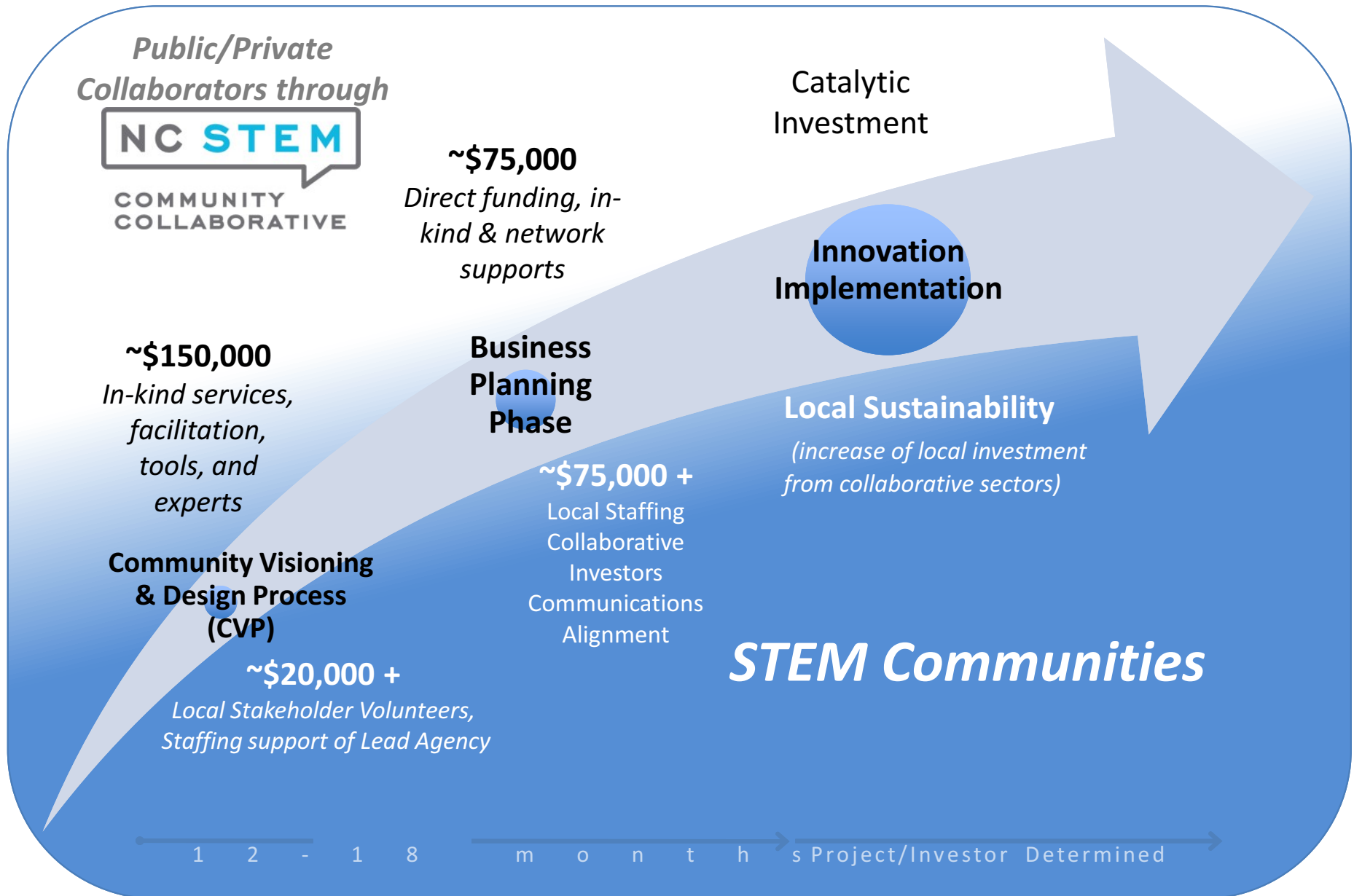
Battelle
The Business of Innovation



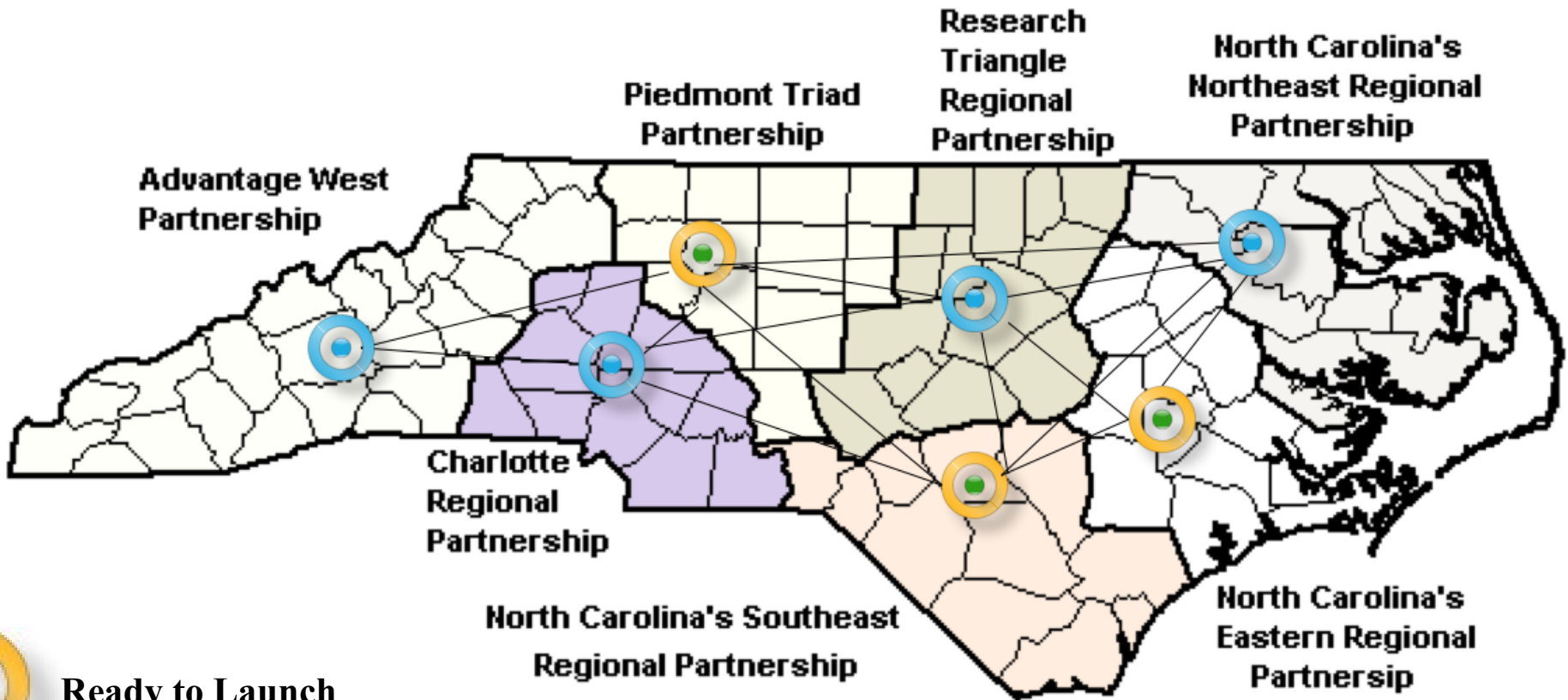
NC STEM Community Collaborative Brief

Karl Rectanus

After Creating a Locally Supported Community Visioning Plan,
STEM Communities Co-Invest in a Valuable Business Plan
to Ensure Education & Economic Impact, Local Sustainability & Network Collaboration



Building a Network of STEM Communities



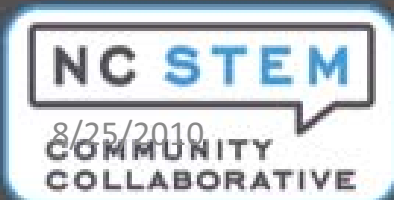
Ready to Launch

3 STEM Communities engaged in 2009



Emerging/Incubating Communities

Future STEM Communities being identified Summer 2010



STEM Communities Build Local Capacity

Community Visioning & Design Process:

Over a 6-9 month period, a local STEM Community Design Team **engages its citizens**, identifies **economic and education assets**, and uses a **design process to create needed education innovations**. All STEM Communities invest in sustainable, equitable, scalable, and collaborative approaches by using:

- Communications & Networking Outreach
- Community-wide Meetings
- Procedural Design
- Facilitated Events & Meetings
- Digital Knowledge Capture
- Network-wide Knowledge Sharing
- Interstate Network Building

Local STEM Design Teams include:

- Business Leaders
- Economic Development Partners
- 3+ Levels of Education
- Government Leadership
- Other Community Leaders
- Innovation Thought Partners:
 - NC DPI
 - Regional Partners
- NC STEM
 - Community Liaison
 - State/National Experts
 - Organized Resources

Design principles

Principle 1: Equity: *Make STEM literacy and economic opportunity attainable for ALL NC Students as soon as possible.*

Principle 2: Sustainability; *Drive scalable and sustainable innovations for continuous STEM improvement.*

Principle 3: Community Engagement; *empower communities and their educators in creating new STEM education platforms tied to local needs.*

Principle 4: Innovative Professionals; *Empower and support a culture that nurtures the creation of innovative STEM professionals.*

Principle 5: Collaborative Network: *Incubate and support collaboration and network behavior for STEM excellence.*



How to Get Engaged in 2010

NC STEM Community Collaborative will:

- **Partner in communities** to deliver Community Visioning & Design Process and impact education innovation tied to local economic needs
- **Recruit private and public sector investments** to support innovation that ties education to local economies
- **Grow and connect STEM network of resources in NC & beyond**

Collaboration to Move the Needle

- **Consider Engaging with the NC STEM Network through the Community Visioning & Design Process**
- **Identify lead non-education and education institutions**
- **Consider committing to Design Principles through Letter of Agreement**

NC STEM

8/25/2010
COMMUNITY
COLLABORATIVE



NC STEM welcomes the opportunity to work closely with you to improve the future for our children and our economy.

Thank you!

Karl Rectanus

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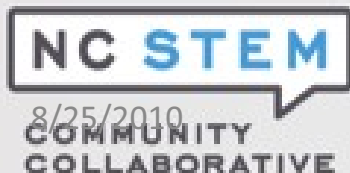
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INNOVATION PLANS

Davie County

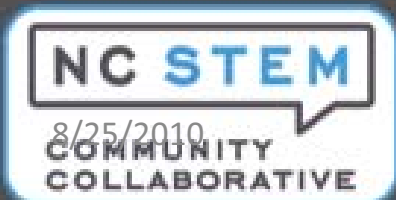
A sustainable K-20 STEM culture by ***building innovative external and internal professional development models for teachers*** in collaboration with business, industry, government, higher education, school and private partners.

Lenoir County

A ***STEM HUB*** that networks internal and external STEM resources to promote experience-based learning opportunities for teachers and students. The hub will serve as an incubator of innovation in areas such as industry-based curricula, STEM research, blended education technology and professional development.

Ft. Bragg Region

Create a ***regional distributed learning network of enhanced technology classrooms*** that will promote and enable integrated learning, investigation, and questioning.



Network of STEM Innovation

Recent Examples of Alliances & Collaborations of Value to NC

Public Private Alliances:

- STEM Communities activating resources this spring to build business plans. Memorandum of Understanding documenting public-private collaborations in each STEM Community.
- Adviser to and advised by the NC Joining Our Business & Schools (JOBS) Commission, chaired by Lt. Governor Walter Dalton
- Collaborating with multiple public and private organizations, associations and innovative programs for education innovation, including NC New Schools Project, Kenan Fellows, NC Chamber and others

Network Tools and Communications

- In partnership with MCNC, NC Science Math & Technology Education Center, and WRAL's LocalTechwire.com, launched STEMNews serving over 100,000 tech-savvy business readers
- Investigating statewide instance of National Lab Day (<http://www.nationallabday.org>) with CTE, NC Science Teachers and DPI, connecting teachers and students to scientist
- Supporting NC Science Festival and other events through direct and in-kind investment

