Innovation Panel:
Beyond Supply Chain Solutions

Moderator:
Jennifer Potts, Director Industrial Participation and Offsets | Bell

Panelists:
William Regli, Director Institute for Systems Research | University of Maryland
Tariq Farwana, Managing Director | StrateSphere
Sherry Barone, CEO | At the Table Productions
WHAT DARPA TAUGHT ME ABOUT INNOVATION

William Regli
Director
Institute for Systems Research
Clark School of Engineering

UNIVERSITY OF MARYLAND
7 “Easy” Questions

How we think: The Heilmeier Catechism

Important questions to consider when approaching DARPA with ideas:

- What are we trying to do? (no jargon!)
- How does this get done at present?
- What is new about your approach?
- If we succeed, what difference do we think it will make?
- How long do we think it will take?
- Can we transition?
- How much will it cost?
The hard part

- Find the (right) problem
- Ask the right question
- Take Risk  → must be a chance of failure
- Create the community
Business Model Innovation
Projects designed to evolve for the next generation of businesses
Business Model Innovation

• **Borrow capacity** from U.S. & global middle market companies (MMCs) in specific sectors of interest to **build local capacity**
• **Small and Medium Enterprises** (SMEs) as an economic driver
• Creates **quick, scalable impact** in-country, addressing specific manufacturing, technology & supply chain needs while supporting down-stream creation of new industries and companies
Human Capital Development

Projects designed to innovate workforce readiness
Human Capital Development
Experiential Learning

• **Builds expertise & skills** around emerging sectors through public-private partnerships with local & global institutions
• Addresses **human capital development** for long-term benefits to both the country and future industrial partnership projects
• **Accelerates the development of a capable workforce** in specific foundational pedagogies or specific proficiencies
• Creates in-depth relationships and long-term engagement with partner country
Innovation Districts
Projects designed around the intersection of learning and working
Innovation Districts
Converging Learning and Working

• Creates environments **connecting business & educational platforms** across multiple investments to prepare for current/future market needs
• Collaborative spaces to enable intersections of industries, R&D, educators and workforce to spur innovation
• Supports growth of new/existing businesses & economic diversity
• **Reduces the transactional cost of doing business**
• Creates attractive **hubs for future FDI, local investment and local/global talent**
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Beyond Supply Chain Solutions

SHERRY BARONE, CEO & Co-Founder of At the Table Productions

SOLVING THE TRANSPORATION DILEMMA

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INNOVATION IS BEYOND WHAT IS NOW

WHO WE ARE:
• Solving the world’s congestion with innovative solutions for transportation

EXAMPLE:
• Acid batteries to Lithium now to Nano-carbon fuel cell technology
• Steel Rail tracks to using Nano-Carbon rails that cut down energy emissions, sparking a massive cottage industry
• Technology creating in-country opportunities with a high financial return

WHY WE ARE HERE:
• To encourage you to solve big problems
• Build awareness of new opportunities
• To think differently

Today’s challenging environment creates opportunity for forward-thinking Governments & Companies
THE PROBLEM

- Dilapidated commuter transportation
- Outmoded equipment (track, signal and electrical systems)
- No security from terrorist attacks
A SOLUTION

HIGHLAND SUPERSONIC TRANSPORT (HST):

- Rapid mass transportation system @ 769 MPH/1126 km/hr
- Lightweight, noiseless, all weather and aesthetically pleasing vehicle
- Superstructure that forms a scalable transit loop
- Low carbon footprint
- Adaptable system that grows with technology adding virtual reality unmanned cars
- The continuous movement of pods for passengers and freight
- Hyperspectral sensor for biological and chemical threats
WHAT OPPORTUNITIES CAN HST DELIVER?

- Boosts country’s economy:
  - Software development
  - Manufacturing hardware
  - System integration
- Creates commerce within terminal stations including parking structures/ lots
- Replaces old infrastructure
- Integrates multiple military applications with AI and VR technology
- Utilizes universities to build fuel cell technology
- Expands technology into markets such as healthcare and government disaster relief
LARGE SCALE GOVERNMENT INITIATED PROJECTS CAN CHANGE ECONOMIES

- Utilize a consortium of offset obligors
- Seek out projects beyond simple short term supply chain for job growth
- Be the first to co-develop the latest and most advanced technical solutions
- Countries looking to be on the cutting edge already include Canada, Germany and Japan…

Don’t be left behind
THANK YOU
Merci.
Thank you.