

A State's Initiative: Advancing Flexible Electronics in Northeast Ohio



About NorTech

What we are:

A nonprofit technology-based economic development organization serving 21 counties in Northeast Ohio.

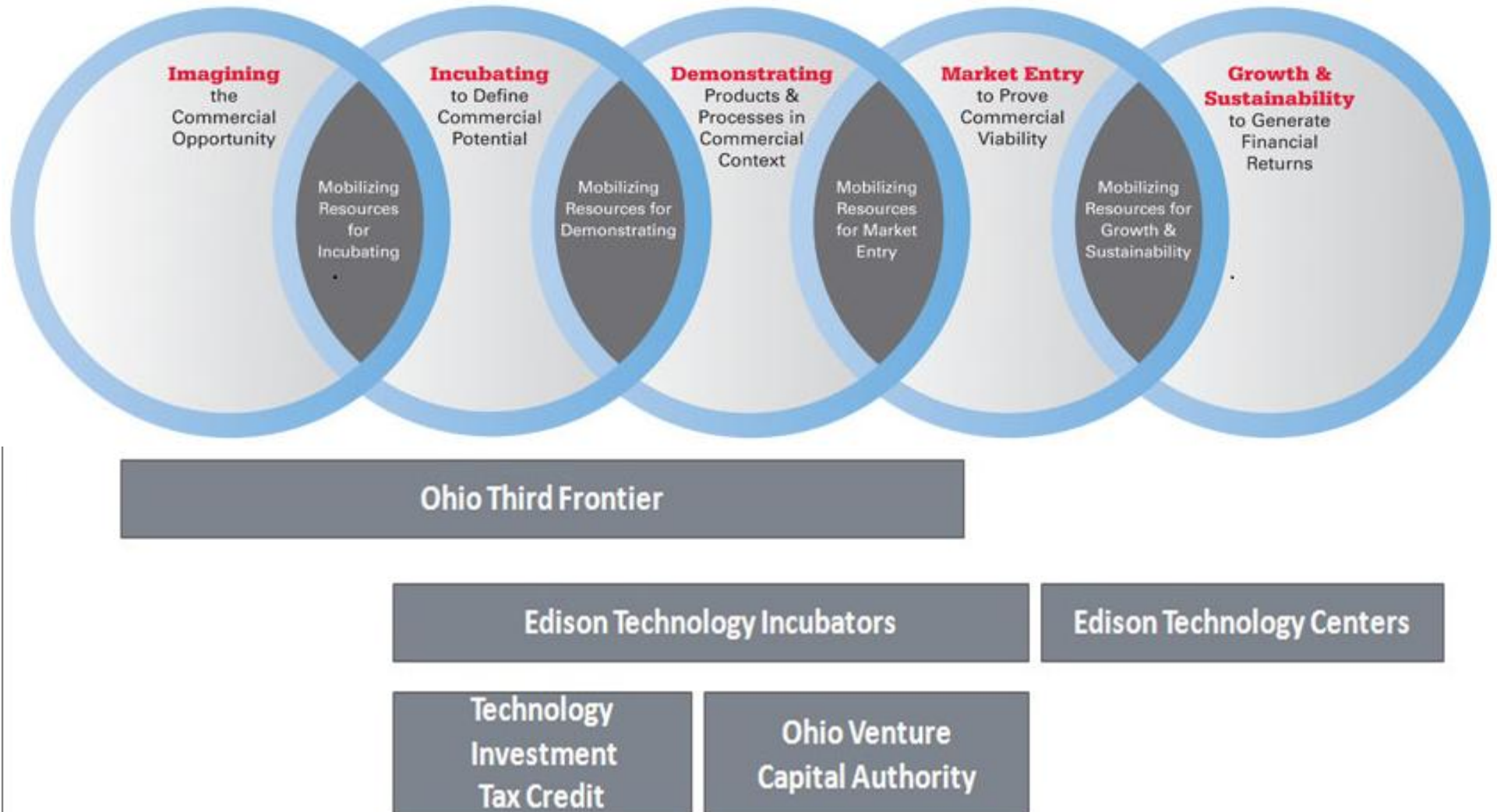
Catalyst for growing Northeast Ohio's emerging technology industries.

Current focus on advanced energy and flexible electronics

What we do

- NorTech drives the development of regional innovation clusters by:
 - Attracting new members to the cluster
 - Building relationships among cluster members for funding, research, and business opportunities
 - Creating roadmaps with regional partners
 - Engaging with federal/state government and policy leaders
 - Collecting, reporting and utilizing data

Ohio's Major TBED Programs Along the Technology Commercialization Continuum



Source: SRI International "Making an Impact" Sept. 2009

Ohio Technology-Based Economic Development (TBED) Programs

Imagining	Incubating	Demonstrating	Market Entry	Growth
Research Scholars Program	Research & Comm. Program	Research Comm. Grant Program	Innovation Ohio Loan Fund	OTF Internship Program
Wright Centers of Innovation	Entrepreneurial Signature Program	Venture Capital Authority		Edison Centers
R&D Center Attraction	Pre-Seed Funds	Advanced Energy Program		Target Industry Attraction Fund
	Tech Investment Tax Credit	Advanced Materials Program		
	Edison Incubators	Fuel Cell Program		
	Wright Projects	BioMedical Program		

Source: Ohio Dept. of Development website: http://www.development.ohio.gov/Technology/Industry_and_Technology.htm

Flexible Display and Electronics Cluster

Ohio Third Frontier Investment

Ohio TBED Program	Year	Amount
Action Fund	2003	\$375,725
Wright Projects	2003	\$1,640,000
Research Commercialization Grant Program	2005	\$174,657
Wright Projects	2005	\$100,000
Research Commercialization Grant Program	2006	\$700,000
Research & Commercialization Program	2007	\$23,937,840
Research Scholars Program	2008	\$15,292,382
Research & Commercialization Program	2008	\$5,000,000
Research & Commercialization Program	2009	\$4,900,000
Advanced Energy Program	2010	\$965,000
Advanced Materials Program	2010	\$2,918,000
TOTAL	2003 – 2010	\$56,003,604

Photovoltaics Cluster

Ohio Third Frontier Investment

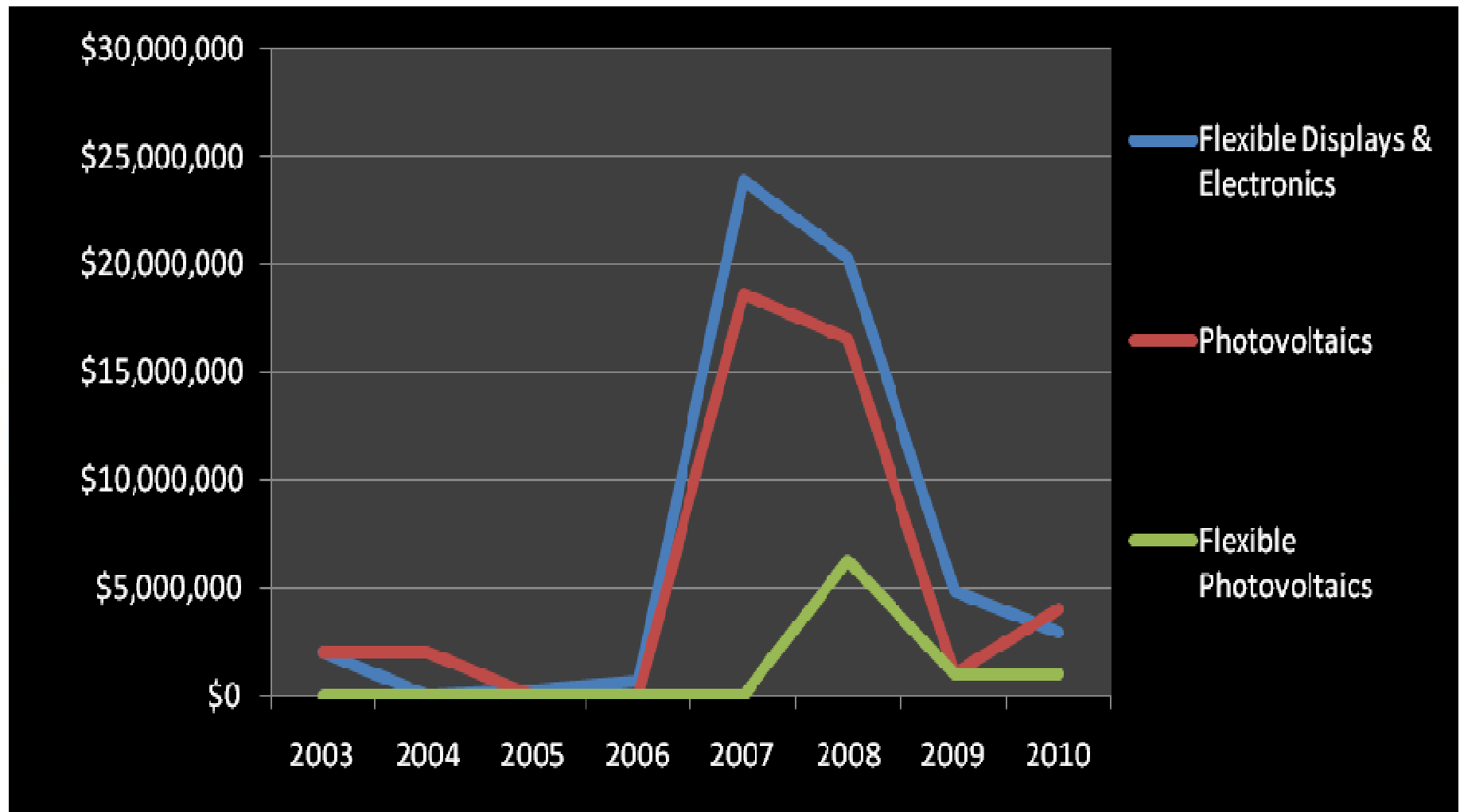
Ohio TBED Program	Year	Amount
Wright Projects	2003	\$2,000,000
Wright Projects	2004	\$2,000,000
Wright Centers of Innovation	2007	\$18,635,238
Research Commercialization Grant Program	2008	\$350,000
Advanced Energy Program	2008	\$2,346,924
Research Scholars Program	2008	\$8,938,462
Research & Commercialization Program	2008	\$8,900,000
Advanced Energy Program	2009	\$995,577
Photovoltaic Program	2010	\$4,032,171
TOTAL	2003 – 2010	\$44,198,372

Flexible Photovoltaics

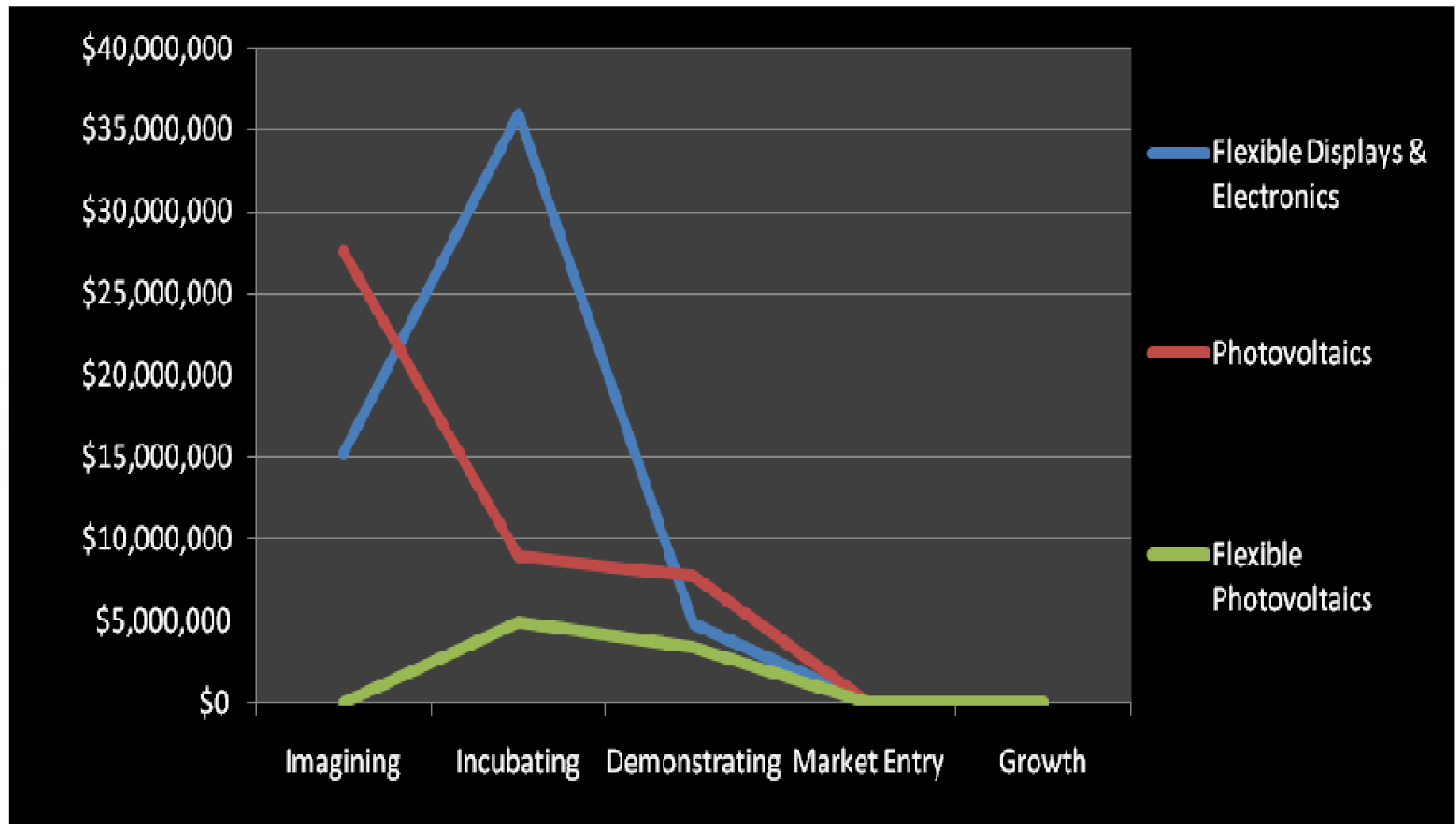
Ohio Third Frontier Investment

Ohio TBED Program	Year	Amount
Advanced Energy Program	2008	\$996,924
Research Commercialization Grant Program	2008	\$350,000
Research & Commercialization Program	2008	\$4,900,000
Advanced Energy Program	2009	\$995,577
Photovoltaic Program	2010	\$999,271
TOTAL	2008 – 2010	\$8,241,772

Ohio Third Frontier Investment per Year



Ohio Third Frontier Investment Along the Technology Commercialization Continuum



Expanding Ohio's Focus on Advancing Flexible Electronics

- Define and Implement Shared Agenda via Strategic Roadmaps
- Connect Complementary Competencies Across State Regions
- Create Cluster Development Program for Flexible Displays & Electronics
- Leverage State Resources to Generate Market Pull

Dr. Byron C. Clayton

Vice President

(216) 363-6895

bclayton@nortech.org

www.nortech.org

