### Overview of Cleveland's Health Care Industry and BioEnterprise Initiative

November 14, 2007



### **Overview**

- Regional Health Care Base: 2002
- Transformation: Role of State
- BioEnterprise and Entrepreneurship
- Lessons Learned



## **Cleveland Health Care Base**

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Nationally-recognized leaders in clinical care and research ...













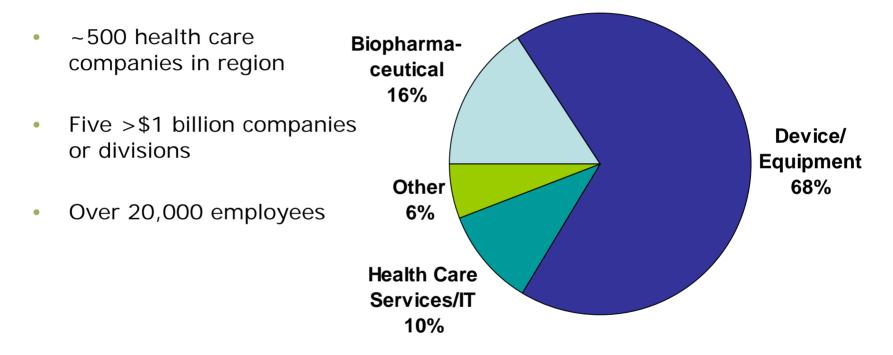
 Numerous nationally-distinctive programs including:

> \$450 Million in annual research

- Cardiovascular
- Cancer
- Neurology
- Orthopedics
- Surgery
- Pediatrics
- Medical imaging
- Biomedical engineering
- Stem cells & tissue engineering
- Advanced materials
- Molecular diagnostics
- Anti-infectives
- Prions
- Destination for innovation and care
  BIOEnterprise

### **Cleveland Health Care Base**

#### ... a broad industry base...



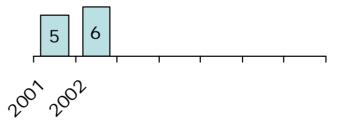


### Weak Commercialization

...However, few companies were attracting growth equity

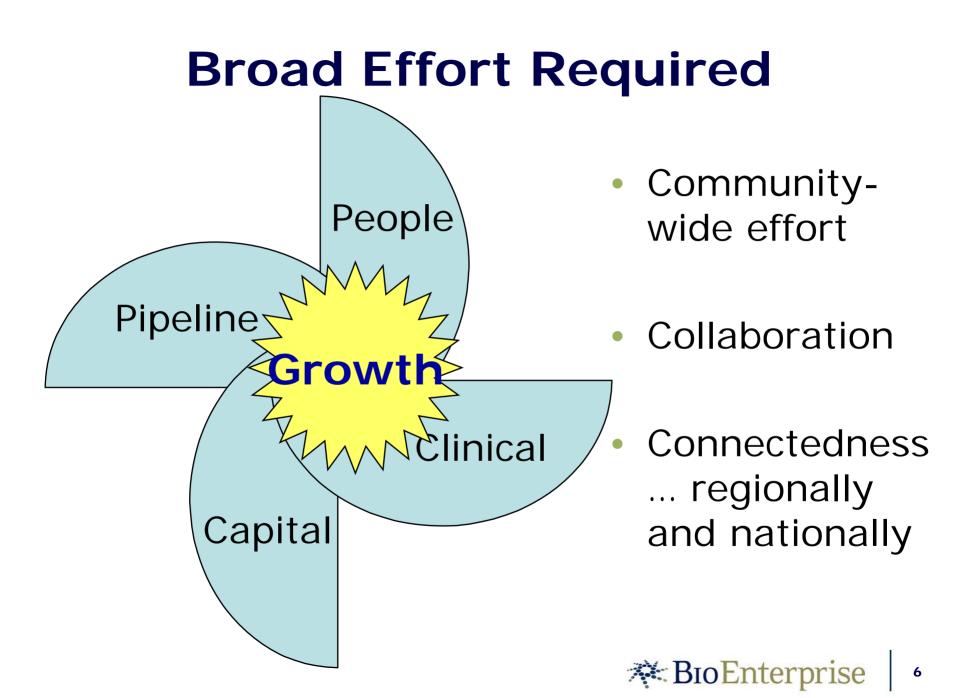
CLEVELAND AREA HEALTH CARE VENTURE INVESTMENT \$ Millions CLEVELAND AREA HEALTH CARE VENTURE INVESTMENT Companies Financed







Source: Dow Jones Venture Wire; Venture Source; BioEnterprise



## 2002: Commitment to Growth

- Private
  - Renewed focus on entrepreneurs and innovation
  - Technology transfer culture capabilities significantly enhanced
  - Investment firms and professional services
- Public
  - \$1.6 Billion in Third Frontier program
- Philanthropic
  - Fund For Our Economic Future: \$60 million
  - Investments for capital formation



## **Third Frontier Initiative**



Department of Development

- \$1.6 Billion, 10-Year Initiative
- Funding for:
  - Research distinctiveness and translation
  - Capital formation and attraction (seed and venture)
  - Entrepreneurial infrastructure (inc. BioEnterprise)
  - Company acceleration
- Characteristics of program:
  - Multi-institution collaboration required
  - Nationally competitive and nationally assessed
  - Leverage (9:1 ratios)



# **BioEnterprise Initiative**



#### <u>Mission</u>

Be the leader in biosciences industry growth focused on recruiting and attracting entrepreneurs, **creating**, **accelerating**, **and retaining start-ups**, and nurturing and promoting a vibrant business environment

#### Approach Market-back catalyst, consultant, and funding connector

#### **Results**

- Over 60 companies accelerated
- >\$565 million in new growth funding raised by companies
- Technology offices have completed over 160 deals and collected more than \$65 million in licensing revenues
  BIOEnterprise

## Approach

#### Choose/create opportunities that are fundable...

- Regional entrepreneurs
- Institutions
- Foreign recruitment
- Company creation

...position companies to raise capital...

- Experienced management support
- Clinical and research collaborations
- Business development
- Network of bioscience capabilities

...from targeted, interested investors

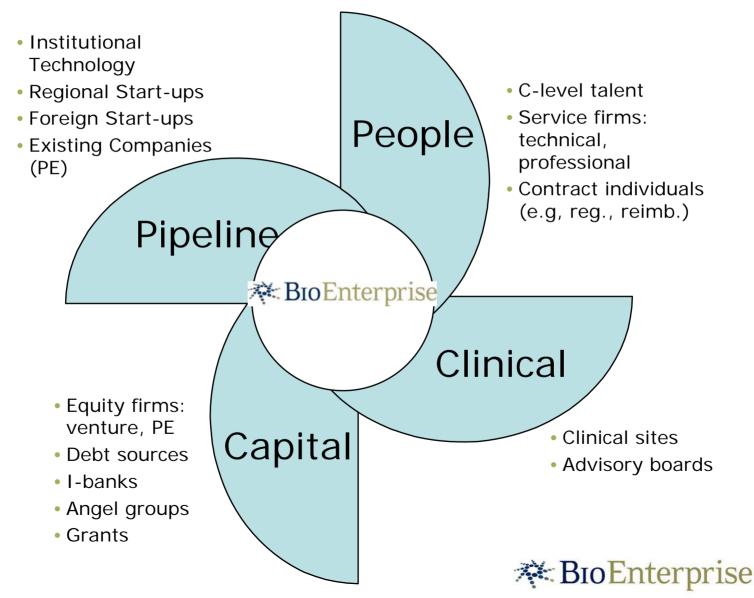
- Access to capital
  - Venture/equity
  - Strategic
  - Debt
  - Grant

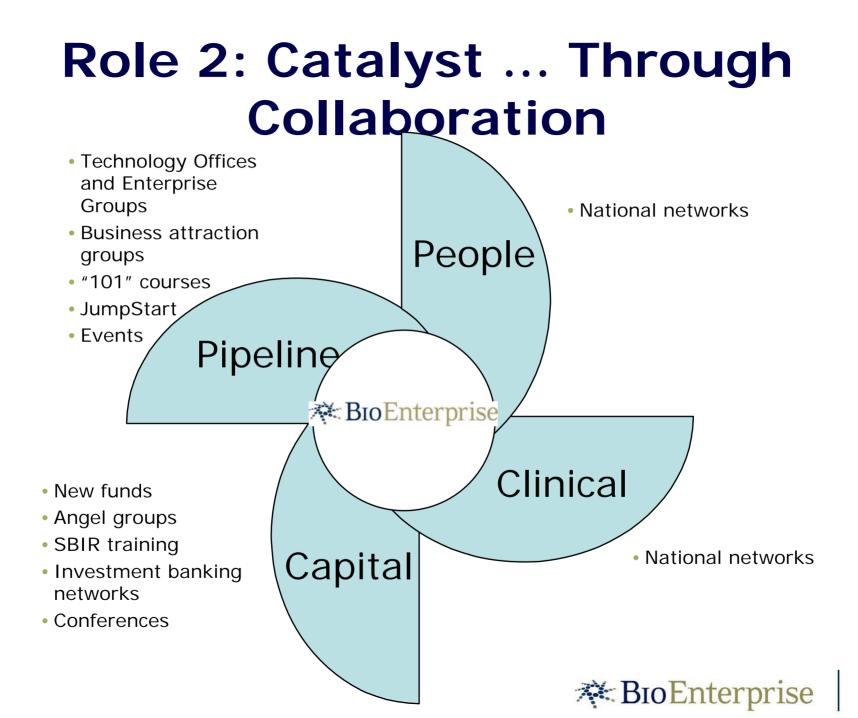
Market-back Approach

BIOEnterprise

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## **Role 1: Connector**





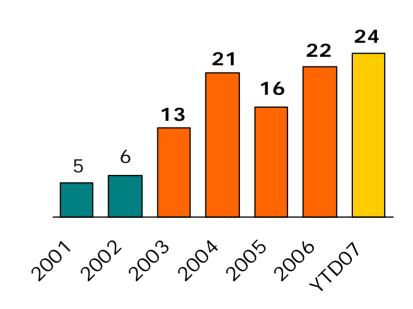
### Entrepreneurship Infrastructure

- Skilled and Resourced Intermediaries
  - BioEnterprise Initiative
  - Institutional Technology Offices
  - Combined >40 professionals
- Regional Healthcare Equity Environment
  - 11 venture firms (regional and national)
  - 4 Seed funds
  - 3 Angel groups and funds
  - 5 private equity groups
- Funded by private, philanthropic, and public sectors

### **Venture Investments**

A vibrant, bioscience start-up environment...

EQUITY INVESTMENTS \$ Millions



**COMPANIES FUNDED** 

**BIOEnterprise** 

### **Investment Destination**

#### ...Which has attracted national investment dollars

#### EXTERNAL EQUITY INVESTORS IN CLEVELAND COMPANIES, 2004-Present





### **Midwest Health Care** Investments, 2007

MINN.

\$212.7

WIS.

\$39.7

#### Where health care dollars go

Ohio health care companies attracted the most investment dollars among companies in 10 peer states and one peer region so far this year, according to a guarterly study by BioEnterprise. Ohio leads perennial favorite Minnesota by 23 percent, as of Sept. 30.

#### **Health care investments**



SOURCE: BioEnterprise Midwest Health Care Investment Report

W. VA.

Health care

investments

Top five states

MICH.

in millions of dollars

WESTERN

(through Sept. 30)

PA.

THE PLAIN DEALER

### **Related Developments**

- Global Conferences
  - CCF Medical Innovations Summit
  - IBF Global Healthcare Investing Conference
  - Clinical conferences
- Global Medical Mart (2009)
  - Permanent and temporary exhibition space for medical technology companies
  - Trade and clinical shows

## Key Success Factors: BioE

- Small, invested Board
- Single metric with targets based on aspirational benchmarks
- Simple model, easy to communicate
- Private-sector approach
- Strong support and complementary developments

