Minnesota Competitiveness: Creating a State Economic Strategy

For further material on regional competitiveness and clusters: [www.isc.hbs.edu/econ-clusters.htm](http://www.isc.hbs.edu/econ-clusters.htm)
For state economic profiles: [www.isc.hbs.edu/econ-statesregions.htm](http://www.isc.hbs.edu/econ-statesregions.htm)

March 20, 2012
The Economic Challenge for Governors in 2012

Achieving Fiscal Stability

Enhancing State Competitiveness
What is Competitiveness?

• Competitiveness is the **productivity** with which a state utilizes its human, capital, and natural endowments to create value

• Productivity determines **wages, jobs, and the standard of living**

• It is not **what** fields a state competes in that determines its prosperity, but **how productively** it competes
Where Does Productivity Come From?

Businesses and government play different but interrelated roles in creating a productive economy

- Only businesses can create jobs and wealth
- States compete to offer the most productive environment for business
Agenda

1. How is your state doing?  
   State Performance Scorecard

2. Why?  
   Explaining your state’s performance, strengths, and weaknesses

3. Where to go from here?  
   Action Steps
## Minnesota Performance Scorecard

### Prosperity
*GDP per Capita, 2000-2010*

- **Start Position**: 13
- **Trend**: 27
- **Current Position**: 12 (+1)

### Wages
*Average Private Wage, 1998-2009*

- **Start Position**: 11
- **Trend**: 32
- **Current Position**: 13 (-2)

### Job Creation

- **Start Position**: 20
- **Trend**: 26
- **Current Position**: 24 (-4)

### Labor Mobilization
*Proportion of Working Age Population in the Workforce, 2000-2010*

- **Start Position**: 1
- **Trend**: 31
- **Current Position**: 2 (-1)

### Labor Productivity
*GDP per Workforce Participant, 2000-2010*

- **Start Position**: 19
- **Trend**: 26
- **Current Position**: 21 (-2)

### New Business Formation

- **Start Position**: 15
- **Trend**: 29
- **Current Position**: 19 (-4)

### Innovation
*Patents per Employee, 2000-2010*

- **Start Position**: 6
- **Trend**: 14
- **Current Position**: 6 (+0)

### Cluster Strength
*Employment in Strong Clusters, 1998-2009*

- **Start Position**: 30
- **Trend**: 44
- **Current Position**: 39 (-9)

#### Leading Clusters
*by employment size, 2009 (national rank)*

- Processed Food (9)
- Publishing and Printing (7)
- Information Technology (12)
- Medical Devices (4)
- Analytical Instruments (8)
Comparative State Prosperity Performance
2000 - 2010

Source: BEA. Notes: GDP in real 2005 dollars. Growth rate is calculated as compound annual growth rate.

$25,000 $30,000 $35,000 $40,000 $45,000 $50,000 $55,000 $60,000 $65,000
-1.0% -0.5% 0.0% 0.5% 1.0% 1.5% 2.0% 2.5% 3.0% 3.5%

U.S. GDP per Capita: $42,346

High and rising prosperity versus U.S.

High but declining versus U.S.

Low and declining versus U.S.

Low but rising versus U.S.
Comparative State Labor Mobilization Performance
1999-2010

Proportion of Working Age Population in the Workforce, 2010

High but declining versus U.S.

High Labor Force Participation and Participation rising versus U.S.

U.S. Labor Force Participation Rate: 64.7%

Low and declining versus U.S.

Change in Labor Force Participation Rate: -2.4%

Low but rising versus U.S.

Notes: Source BLS.
Comparative State Labor Force Productivity Performance
2000-2010

Real Growth in Gross Domestic Product per Labor Force Participant, 2000-2010

Sources: BEA, BLS. Notes: GDP in real 2005 dollars. Growth rate is calculated as compound annual growth rate.
Comparative State Employee Productivity Performance
2000-2010

High but declining versus U.S.

Highly productive and productivity rising versus U.S.

U.S. GDP per Employed Worker Real Growth: 1.42%

Low and declining versus U.S.

Low but rising versus U.S.

Sources: BEA, BLS. Notes: GDP in real 2005 dollars. Growth rate is calculated as compound annual growth rate.
Comparative State Innovation Performance
2000 - 2010

Patents per 10,000 Workers, 2010

High and declining innovation

U.S. average Patents per 10,000 Employees: 7.77

High and improving innovation rate versus U.S.

Low and declining innovation

Why?
What Drives State Productivity?

1. Quality of the Overall Business Environment
2. Cluster Development
3. Policy Coordination among Multiple Levels of Geography/Government
Why?
What Drives State Productivity?

1. Quality of the Overall Business Environment

2. Cluster Development

3. Policy Coordination among Multiple Levels of Geography/Government
Quality of the Overall Business Environment

Context for Firm Strategy and Rivalry

Rules and incentives that encourage local competition, investment and productivity
- e.g., tax policy that encourages investment and R&D
- Flexible labor policies
- Intellectual property protection
- Antitrust enforcement

Factor (Input) Conditions

Access to high quality business inputs
- Human resources
- Capital access
- Physical infrastructure
- Administrative processes (e.g., permitting, regulatory efficiency)
- Scientific and technological infrastructure

Demand Conditions

Sophisticated and demanding local needs and customers
- e.g., Strict quality, safety, and environmental standards
- Consumer protection laws
- Government procurement of advanced technology
- Early demand for products and services

Related and Supporting Industries

Local availability of suppliers and supporting industries

• Many things matter for competitiveness
• Economic development is the process of improving the business environment to enable companies to compete in increasingly sophisticated ways
Improving the Business Environment
Common Action Items

1. Simplify and speed up regulation and permitting

2. Reduce unnecessary costs of doing business

3. Establish training programs that are aligned with the needs of the state’s businesses

4. Focus infrastructure investments on the most leveraged areas for productivity and economic growth

5. Design all policies to support emerging growth companies

6. Protect and enhance the state’s higher education and research institutions

7. Relentlessly improve the public education system, the essential foundation for productivity in the long run
Why?
What Drives State Productivity?

1. Quality of the Overall Business Environment
2. Cluster Development
3. Policy Coordination among Multiple Levels of Geography/Government
What is a Cluster?

A geographically concentrated group of interconnected companies and associated institutions in a particular field.

**Traded Clusters**
- Compete to serve **national** and **international** markets
- Can locate anywhere
- 30% of employment

**Local Clusters**
- Serve almost exclusively the **local** market
- Not directly exposed to cross-regional competition
- 70% of employment
Example: Massachusetts Life Sciences Cluster

- **Health and Beauty Products**
- **Surgical Instruments and Suppliers**
- **Medical Equipment**
- **Dental Instruments and Suppliers**
- **Ophthalmic Goods**
- **Diagnostic Substances**
- **Containers**

**Teaching and Specialized Hospitals**

**Biological Products**

**Biopharmaceutical Products**

**Research Organizations**

- **Cluster Organizations**
  - MassMedic, MassBio, others
- **Specialized Business Services**
  - Banking, Accounting, Legal
- **Specialized Risk Capital**
  - VC Firms, Angel Networks
- **Specialized Research Service Providers**
  - Laboratory, Clinical Testing

**Educational Institutions**

- Harvard, MIT, Tufts, Boston University, UMass

**Analytical Instruments Cluster**
Example: Houston Oil and Gas Cluster

Upstream

Oil & Natural Gas Exploration & Development

Oil & Natural Gas Completion & Production

Oilfield Services/Engineering & Contracting Firms

Equipment Suppliers
(e.g., Oil Field Chemicals, Drilling Rigs, Drill Tools)

Specialized Technology Services
(e.g., Drilling Consultants, Reservoir Services, Laboratory Analysis)

Subcontractors
(e.g., Surveying, Mud Logging, Maintenance Services)

Specialized Institutions
(e.g., Academic Institutions, Training Centers, Industry Associations)

Downstream

Oil Transportation

Oil Trading

Oil Refining

Oil Distribution

Oil Wholesale Marketing

Oil Retail Marketing

Oil Gathering

Gas Processing

Gas Trading

Gas Transmission

Gas Distribution

Gas Marketing

Oil & Natural Gas Completion & Production

Oil & Natural Gas Exploration & Development

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Specialized Technology Services
(e.g., Drilling Consultants, Reservoir Services, Laboratory Analysis)

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Oil & Natural Gas Completion & Production

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Strong Clusters Drive Regional Performance

- Specialization in **strong clusters**
- **Breadth** of industries within each cluster
- Strength in **related clusters**
- Presence of a region’s clusters in **neighboring regions**

- **Job** growth
- Higher **wages**
- Higher **patenting** rates
- Greater **new business** formation, growth and survival

On average, cluster strength is much more important (78.1%) than cluster mix (21.9%) in driving regional performance in the U.S.

Clusters and Economic Diversification

Note: Clusters with overlapping borders or identical shading have at least 20% overlap (by number of industries) in both directions.
The Evolution of Regional Economies
San Diego

Climate and Geography

U.S. Military

Hospitality and Tourism

Transportation and Logistics

Power Generation

Communications Equipment

Education and Knowledge Creation

Medical Devices

Analytical Instruments

Information Technology

Bioscience Research Centers

Aerospace Vehicles and Defense

Sporting Equipment

Biotech / Pharmaceuticals

Transportation and Logistics

Information Technology

Education and Knowledge Creation

Medical Devices

Biotech / Pharmaceuticals

Traded Cluster Composition of the Minnesota Economy

Minnesota national employment share, 2009

Overall change in the Minnesota Share of US Traded Employment: -0.06%

Change in Minnesota share of National Employment, 1998 to 2009


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Minnesota Job Creation in Traded Clusters
1998 to 2009

Net traded job creation, 1998 to 2009: -40,513

* Percent change in national benchmark times starting regional employment. Overall traded job creation in the state, if it matched national benchmarks, would be -7,594.


* Indicates expected job creation given national cluster growth.*
Minnesota Wages in Traded Clusters vs. National Benchmarks


2012 – State Competitiveness – Rich Bryden

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Productivity Depends on How a State Competes, Not What Industries It Competes In

<table>
<thead>
<tr>
<th>State</th>
<th>State Traded Wage versus National Average</th>
<th>Cluster Mix Effect</th>
<th>Relative Cluster Wage Effect</th>
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<td>Florida</td>
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<td>Kentucky</td>
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On average, cluster strength is much more important (78.1%) than cluster mix (21.9%) in driving regional performance in the U.S.

LQ, or Location Quotient, measures the state’s share in cluster employment relative to its overall share of U.S. employment. An LQ > 1 indicates an above average employment share in a cluster.
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<tr>
<td>41-50</td>
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</tbody>
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Cluster Development
Common Action Items

1. Build on the state’s **existing and emerging clusters** rather than chase “hot” fields

2. Pursue economic diversification **within clusters** and **across related clusters**

3. Create a private sector-led **cluster upgrading program** with matching support for participating private sector cluster organizations
   • Government should **listen** and **remove obstacles** to cluster improvement

4. **Align** other state economic policies and programs with clusters

Clusters provide a framework for organizing the implementation of many public policies and public investments to achieve greater effectiveness.
Why?
What Drives State Productivity?

1. Quality of the Overall Business Environment
2. Cluster Development
3. Policy Coordination among Multiple Levels of Geography/Government
Geographic and Governmental Influences on Productivity

Nation

State

Metropolitan Areas

Rural Regions

Neighboring State

Neighbor State

Nation

Metropolitan Areas

Rural Regions

Neighboring State
Defining the Appropriate Economic Regions

The economies of states are often an aggregation of distinct economic areas with differing circumstances.

Minnesota Metropolitan Areas

- Duluth MSA
- Rochester MSA
- La Crosse MSA
- Grand Forks MSA
- Fargo MSA
- St. Cloud MSA
- Minneapolis MSA
- Minneapolis MSA
- Minneapolis MSA
Wage Performance in Minnesota Metropolitan Areas

Minnesota Growth Rate of Wages: 2.90%
U.S. Growth Rate of Wages: 3.01%

Average Private Wage, 2009

U.S. Average Private Wage: $42,403
Minnesota Average Private Wage: $42,272

Growth Rate of Private Wages, 1998-2009

Source: Census CBP, authors' analysis. Note: “Bubble” size in chart is proportional to employment in 2009.

*Minnesota portion only
Employment Performance in Minnesota Metropolitan Areas

**U.S. Average**
- Private Wage: $42,403

**Minnesota Average**
- Private Wage: $42,272

**Average Private Wage, 2009**

- $20,000
- $25,000
- $30,000
- $35,000
- $40,000
- $45,000
- $50,000
- $55,000

**Growth Rate of Private Employment, 1998-2009**

- U.S. Growth Rate of Employment: 0.52%
- Minnesota Growth Rate of Employment: 0.57%

*Minnesota portion only
Source: Census CBP, authors' analysis. Note: “Bubble” size in chart is proportional to employment in 2009.
Geographic and Governmental Influences on Productivity

1. **Influence and access** federal policies and programs

2. Work with each metro area to develop a prioritized strategic agenda

3. **Connect** rural regions with proximate urban areas

4. **Integrate** policies and infrastructure planning with neighbors

- **Nation**
- **State**
- **Metropolitan Areas**
- **Rural Regions**
- **Neighboring State**
1. How is your state doing?  
   State Performance Scorecard

2. Why?  
   Explaining your state’s performance, strengths, and weaknesses

3. Where to go from here?  
   Action Steps
Agenda

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Biggest Action Item of All
Create an Economic Strategy

- What is the **distinctive competitive position** of the state or region given its location, legacy, existing strengths, and potential strengths?
  - What unique value as a business location?
  - For what types of activities and clusters?

Define the Value Proposition

- **Define the Value Proposition**

Develop Unique Strengths

- What **elements of the business environment** can be unique strengths relative to peers/neighbors?
- What **existing and emerging clusters** represent local strengths?

Achieve and Maintain Parity with Peers

- What **weaknesses** must be addressed to remove key constraints and achieve parity with peer locations?

- Economic strategy requires **setting priorities** and **moving beyond** long lists of separate recommendations.
How Should States Compete for Investment?

**Tactical (Zero Sum Competition)**

- Focus on attracting **new** investments
- Compete for **every** plant
- Offer **generalized** tax breaks
- Provide **subsidies** to lower / offset business costs
- Every city and sub-region **for itself**
- **Government** drives investment attraction

**Strategic (Positive Sum Competition)**

- Also support greater local investment by **existing** companies
- Reinforce areas of **specialization** and emerging cluster strength
- Provide state support for training, infrastructure, and institutions with **enduring benefits**
- Improve the **efficiency of doing business**
- Harness efficiencies and coordination **across jurisdictions**, especially with neighbors
- Government and the private sector **collaborate** to build cluster strength
Harnessing the New Process of Economic Development

Competitiveness is the result of both **top-down** and **bottom-up processes** in which many companies and institutions take responsibility.

**Old Model**

- **Government** drives economic development through policy decisions and incentives

**New Model**

- Economic development is a **collaborative process** involving government at multiple levels, companies, teaching and research institutions, and private sector organizations
Example: Organizing for Economic Development

- Chaired by a business leader and reporting to the governor
- Convenes working groups, provides direction and strength, holds working groups accountable

Coordinating Staff

Effective economic policy also requires coordination within government
Summary

• The goal of economic strategy is to enhance **productivity**. This is the only way to create jobs, high income, and wealth in the long run

• Improving **productivity** and **innovation** must be the guiding principles for every state policy choice

• Improving productivity does not require new public resources, but **using existing resources better**

• Improving productivity demands that governors **mobilize the private sector**, not rely on government alone

• Economic strategy is non-partisan and about getting **results**
Next Steps

1. Reach out to your team

2. Reach out to the business community

3. Take advantage of Harvard Business School data and tools to support this effort. Go to [www.isc.hbs.edu](http://www.isc.hbs.edu).

The prosperity of the **U.S. economy** will depend more on the success of states in improving competitiveness than what happens in Washington.