### **Creating A Competitive South Africa**

Professor Michael E. Porter Institute for Strategy and Competitiveness Harvard Business School

> Johannesburg, South Africa 3 July 2007

This presentation draws on ideas from Professor Porter's articles and books, in particular, <u>The Competitive Advantage of Nations</u> (The Free Press, 1990), "Building the Microeconomic Foundations of Competitiveness," in <u>The Global Competitiveness Report 2006</u> (World Economic Forum, 2006), "Clusters and the New Competitive Agenda for Companies and Governments" in <u>On Competition</u> (Harvard Business School Press, 1998), and ongoing research on clusters and competitiveness. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means - electronic, mechanical, photocopying, recording, or otherwise - without the permission of Michael E. Porter. Further information on Professor Porter's work and the Institute for Strategy and Competitiveness is available at www.isc.hbs.edu

### The Changing Nature of International Competition

#### **Drivers**

- Fewer barriers to trade and investment
- Rapidly increasing stock and diffusion of knowledge
- Competitiveness upgrading in many countries

## Market reaction

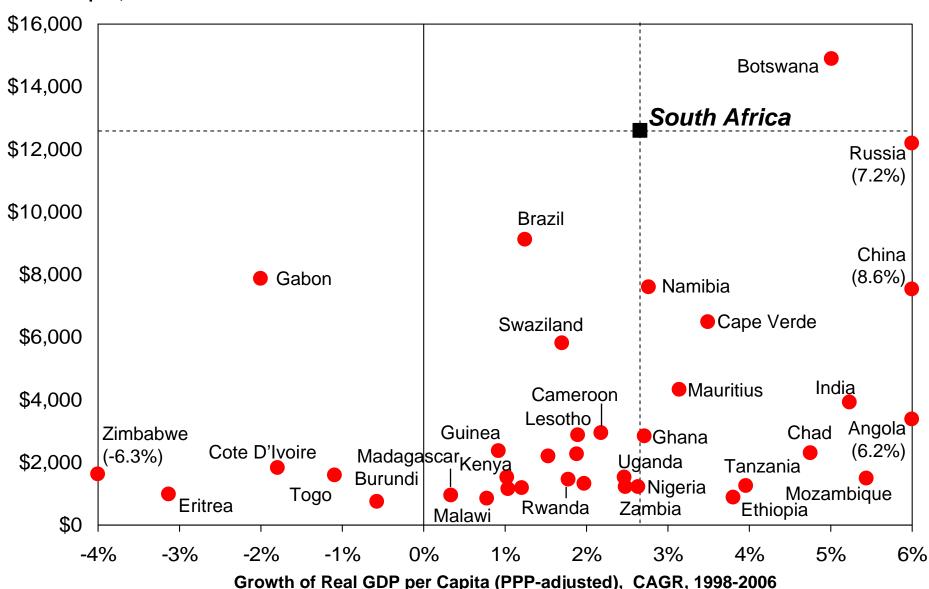
- Globalization of markets
- Globalization of capital investment
- Globalization of value chains
- Increasing knowledge and skill intensity of competition
- Value migrating to the service component of the value chain



Improving competitiveness is increasingly essential to South Africa's prosperity

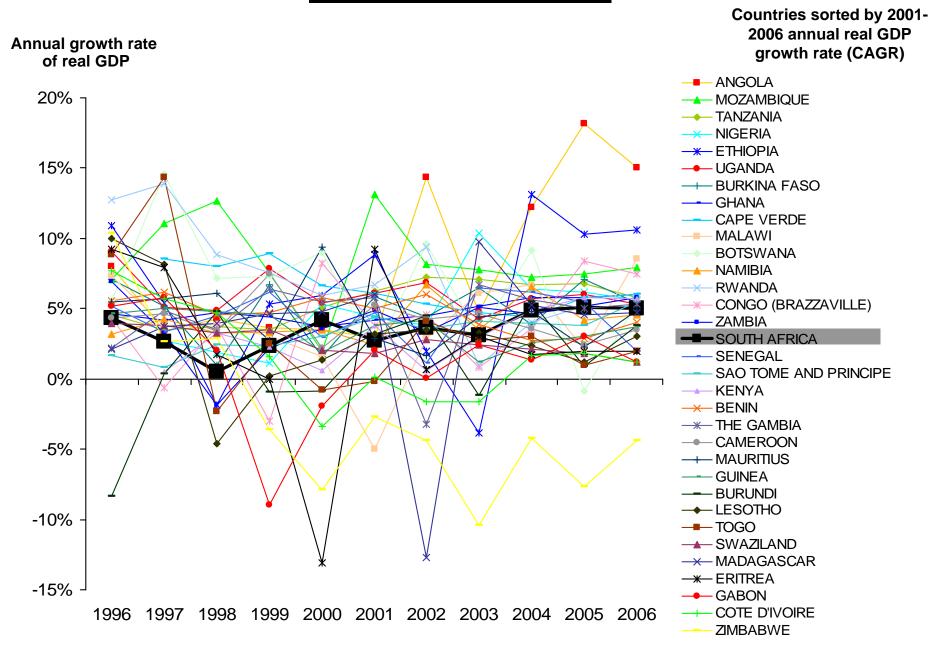
# Prosperity Performance Selected Countries

### Real PPP-adjusted GDP per Capita, 2006



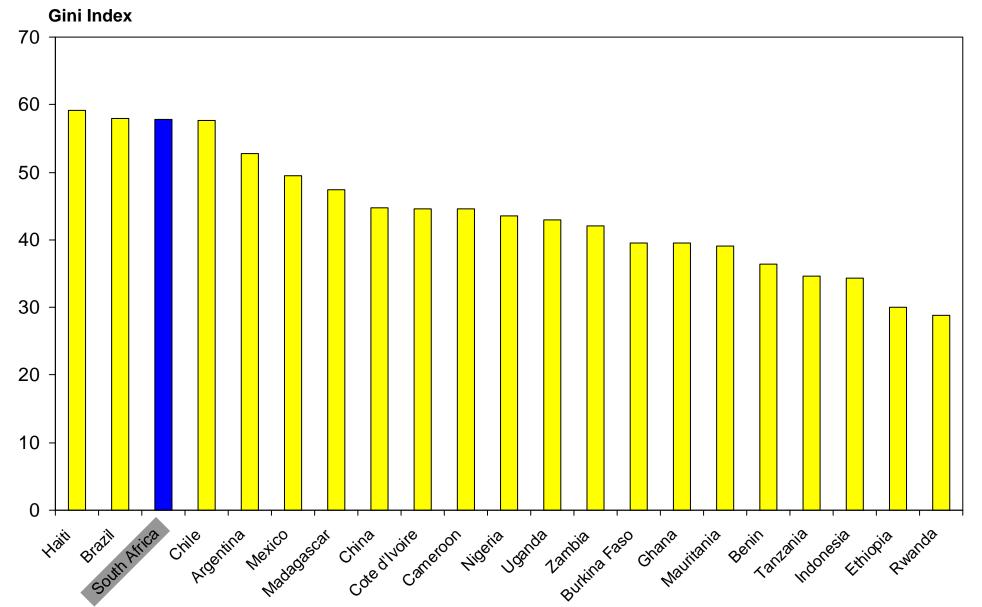
Source: EIU (2007)
South Africa CAON 2007 07-02-07.ppt

# Comparative Economic Performance Real GDP Growth Rates



South Africa CAON 2007 07-02-07.ppt

# Income Inequality Selected Countries



Note: Most recent Gini index data available for each country (1999 – 2003). South Africa's data is from 2000. Source: World Bank, World Development Indicators, 2007.

### **South African Economy 2007**

- Economic growth rates are solid and have reached a higher path since 2003, driven increasingly by domestic demand
- A combination of domestic policies and supportive conditions in the global economy have driven growth

#### However

- Growth rates have not been exceptional compared to other middle income and natural resource-rich countries
- Domestic demand growth is threatening to create unsustainable external balances; export capacity needs to broaden and grow
- Unemployment, inequality, and the social tensions they create recede only slowly

 Is South Africa improving competitiveness fast enough to avoid the risk of macroeconomic and political instability?

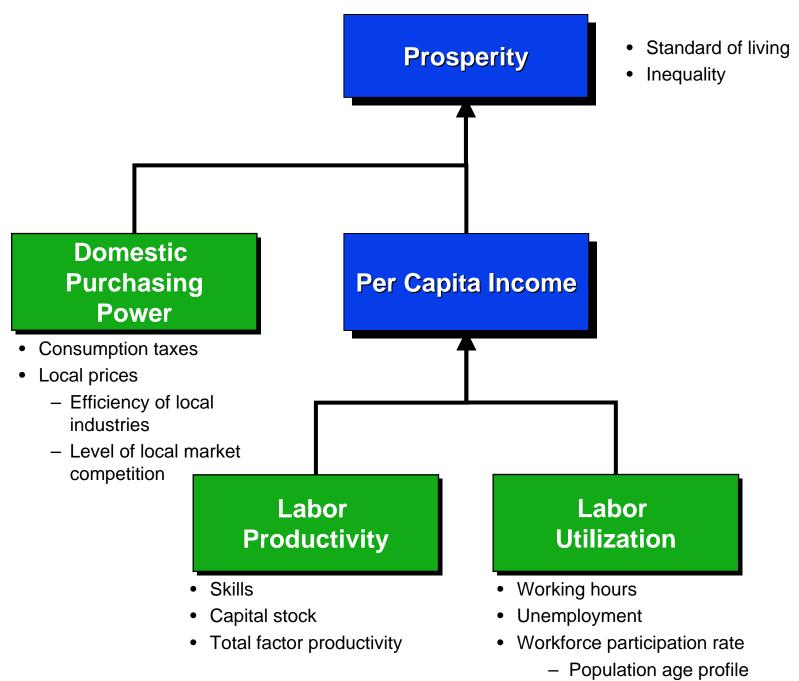
### What is Competitiveness?

- Competitiveness is determined by the productivity (value per unit of input) with which a
  nation uses its human, capital, and natural resources.
  - Productivity sets a the standard of living (wages, returns on capital, returns on natural resources) that a nation can sustain
  - Productivity depends on the prices that a nation's products and services command (e.g. uniqueness, quality), not just on efficiency
  - It is not what industries a nation competes in that matters for prosperity, but how it competes in those industries
  - Productivity requires a combination of domestic and foreign firms operating in the nation
  - The productivity of "local" or domestic industries is fundamental to competitiveness, not just that of traded industries
  - Devaluation does not make a country more competitive

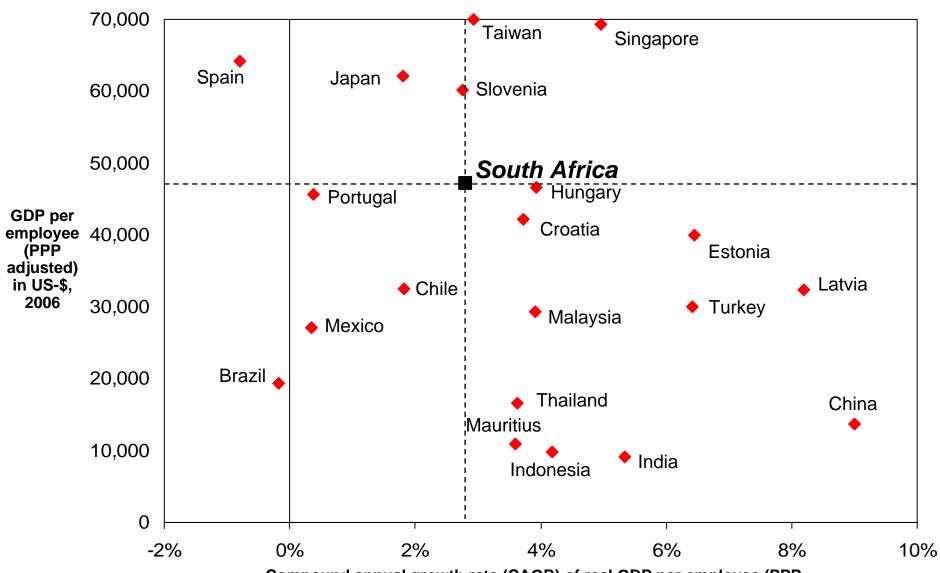


- Only business can create wealth
- Nations compete in offering the most productive environment for business
- The public and private sectors play different but interrelated roles in creating a productive economy

### **Decomposing Prosperity**

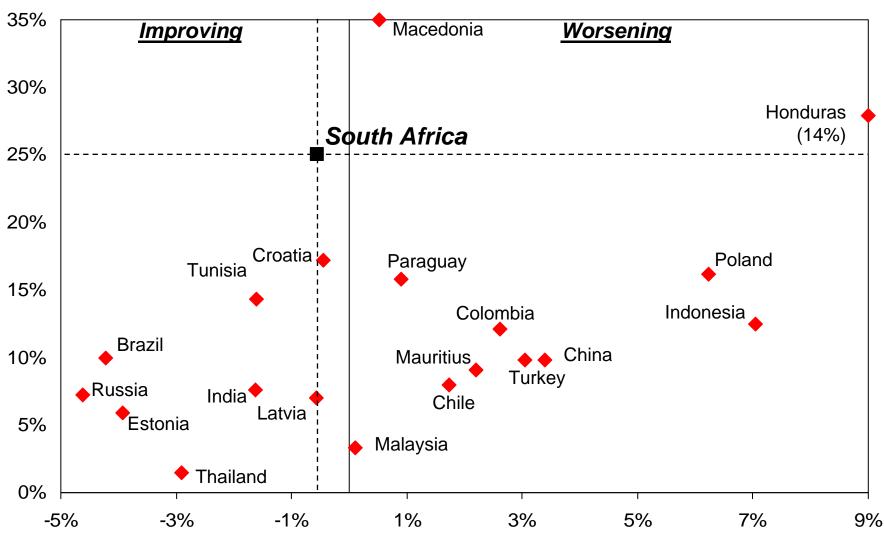


# Comparative Labor Productivity Performance Selected Developing Countries



# **Unemployment Performance Selected Countries**

### Unemployment Rate, 2006

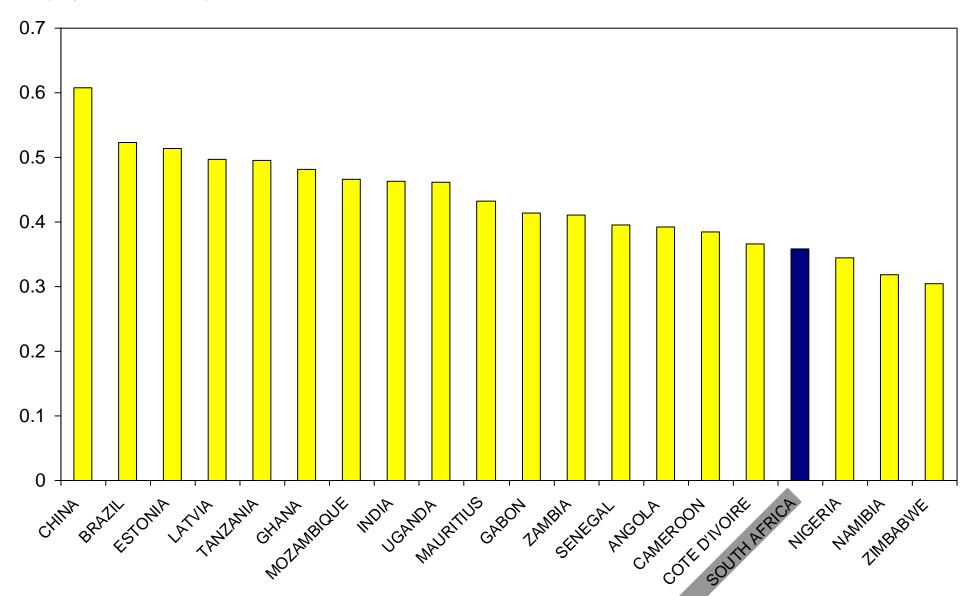


Change of Unemployment Rate in Percentage Points, 1998 - 2006

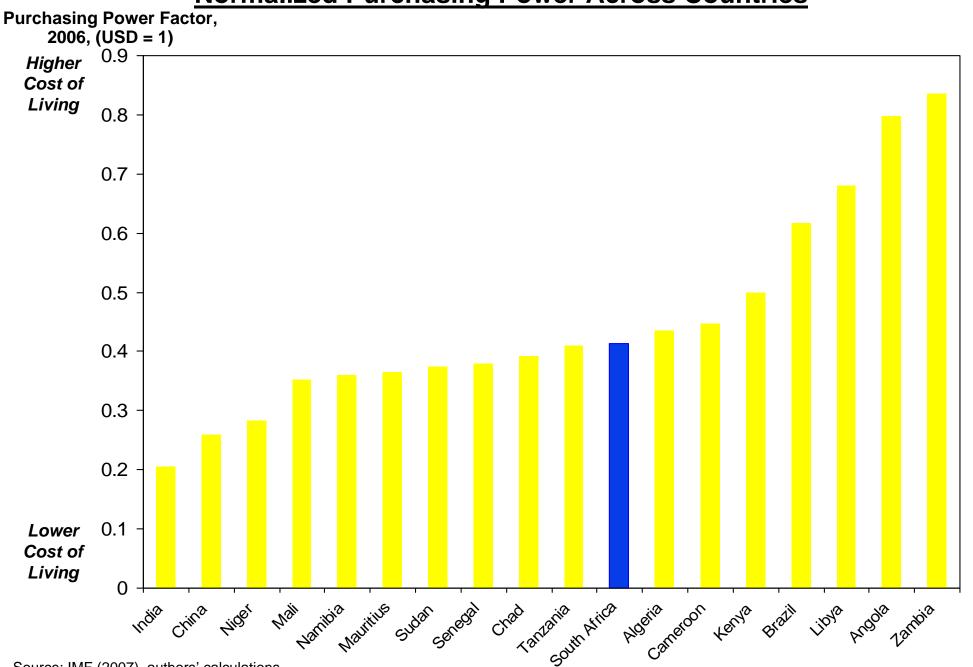
Source: EIU (2007)
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# Labor Force Mobilization <u>Selected Countries</u>

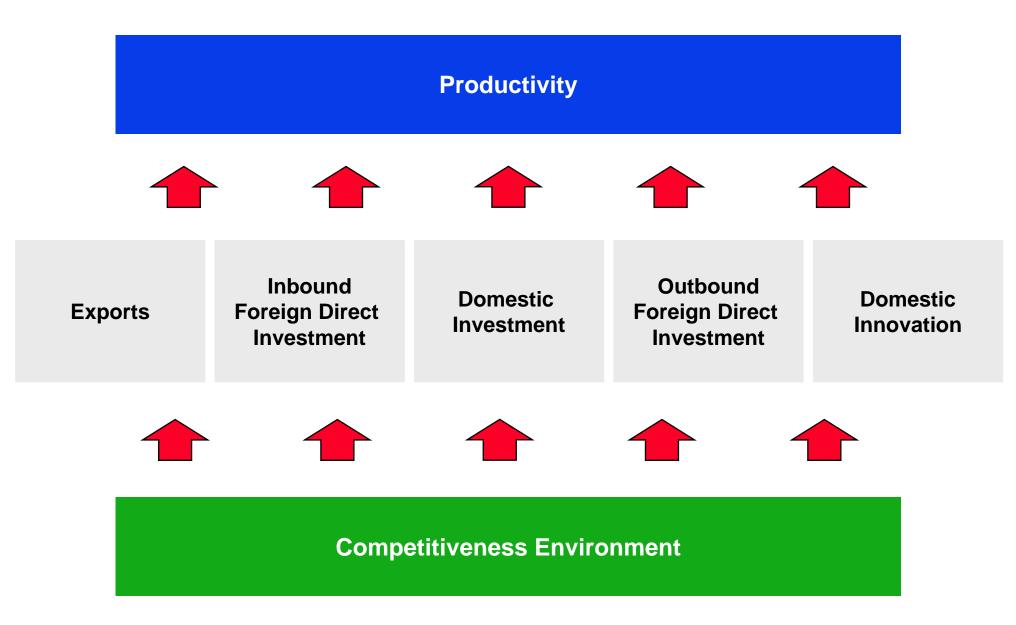
#### Employees as % of Population, 2006



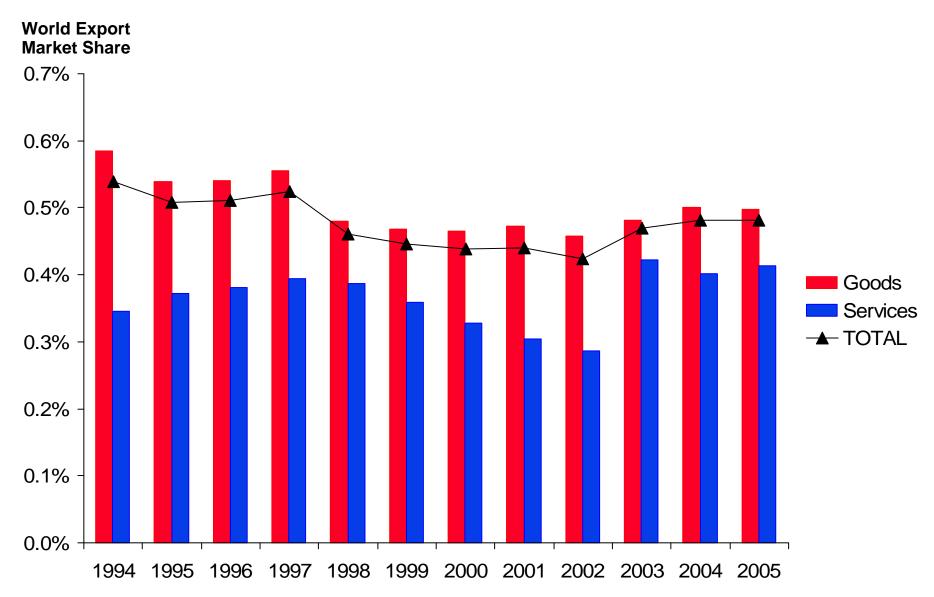
# Domestic Purchasing Power Normalized Purchasing Power Across Countries



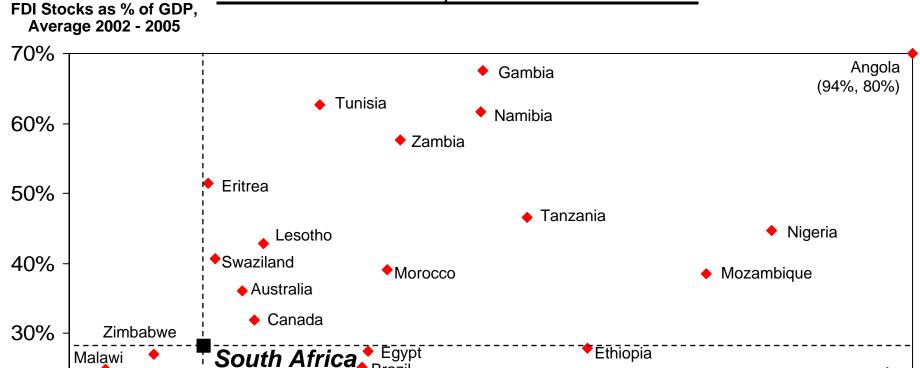
### **Enablers and Indicators of Competitiveness**



# South African Export Performance 1994 - 2005

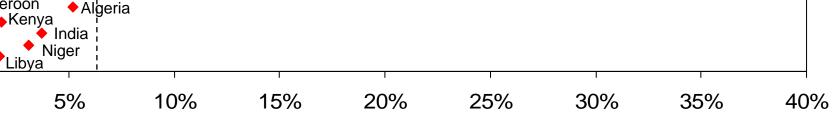


# Inbound Foreign Investment Performance Stocks and Flows, Selected Countries



Uganda

Uganda



Botswana

Mali

FDI Inflows as % of Gross Fixed Capital Formation, Average 2002 - 2005

20%

10%

0%

0%

Ghana

Madagascar

Senegal

Rwanda

Mauritius

Cameroon

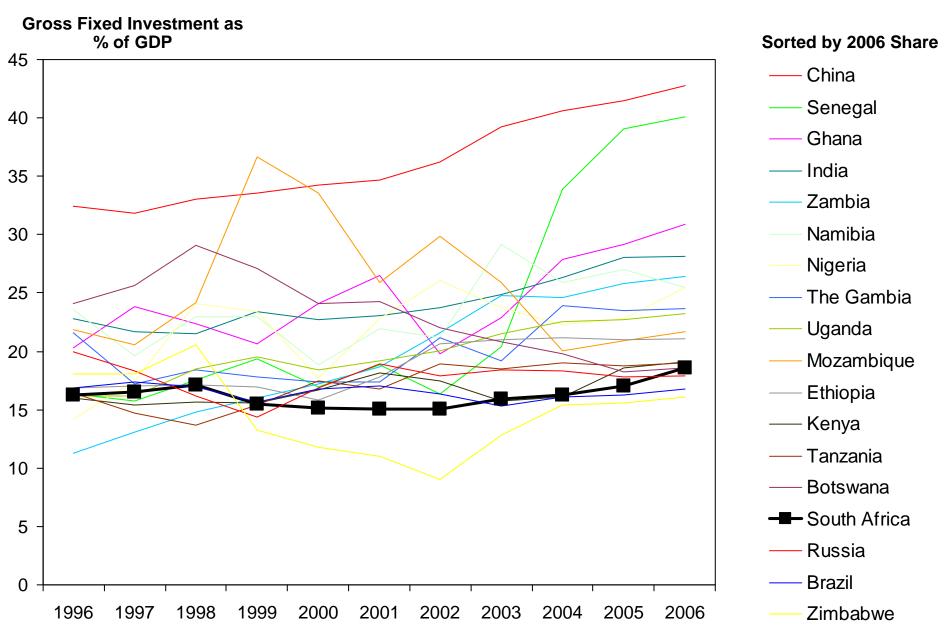
Russia

China

Sudan •

Congo •

# Fixed Investment Rates Selected Countries

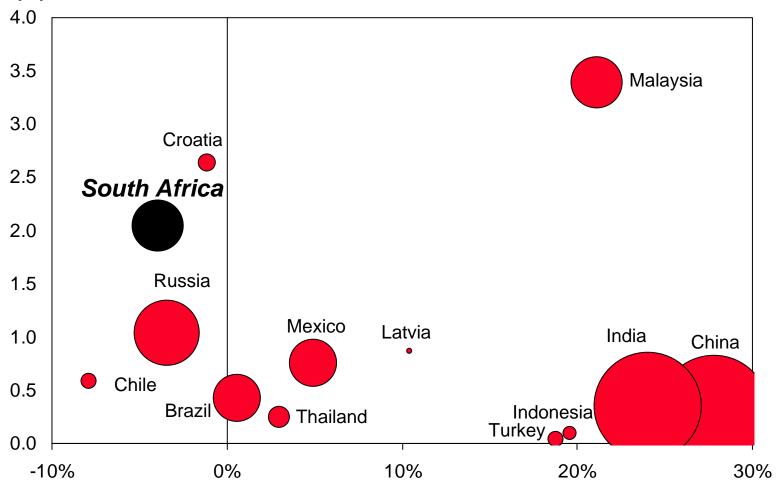


Source: EIU, 2007.

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# International Patenting Output Selected Countries

Annual U.S. patents per 1 million population, 2005



Compound annual growth rate of US-registered patents, 1998 – 2005

### **South Africa's Economic Performance**

#### **Core components of prosperity**

- Productivity is comparable versus peers but growing less dynamically
- The mobilization of the working age population remains dramatically lower
- Labor mobilization is becoming more crucial for future prosperity growth, but job creation still lags the growth of the available labor force

#### Indicators and enablers of competitiveness

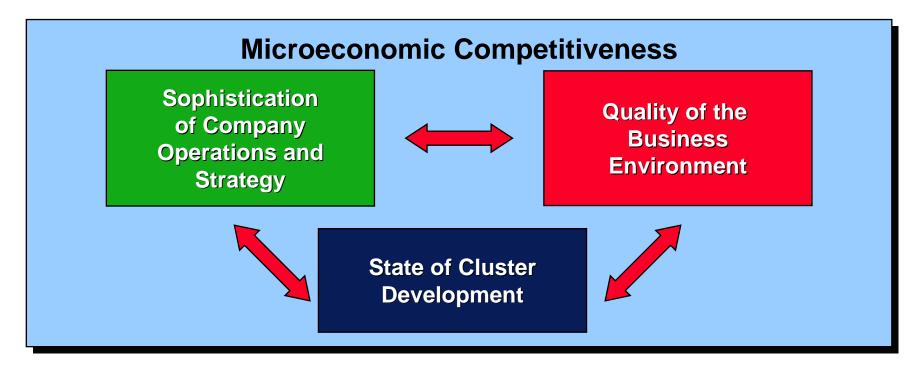
- South Africa's export share has been flat, despite the country's focus on growing natural resource-driven clusters
- Inward foreign direct investment has increased in recent years, but South Africa still remains well below its potential
- Domestic investment is increasing, but continues to fall short of peer countries and the benchmark set by the government
- Innovation output is falling behind peer countries



- South Africa continues to suffer from a 'two-economy phenomena'
  - A formal economy with relatively solid productivity close to global standards
  - An informal economy with low productivity that provides jobs for a large share of the population, especially the poor

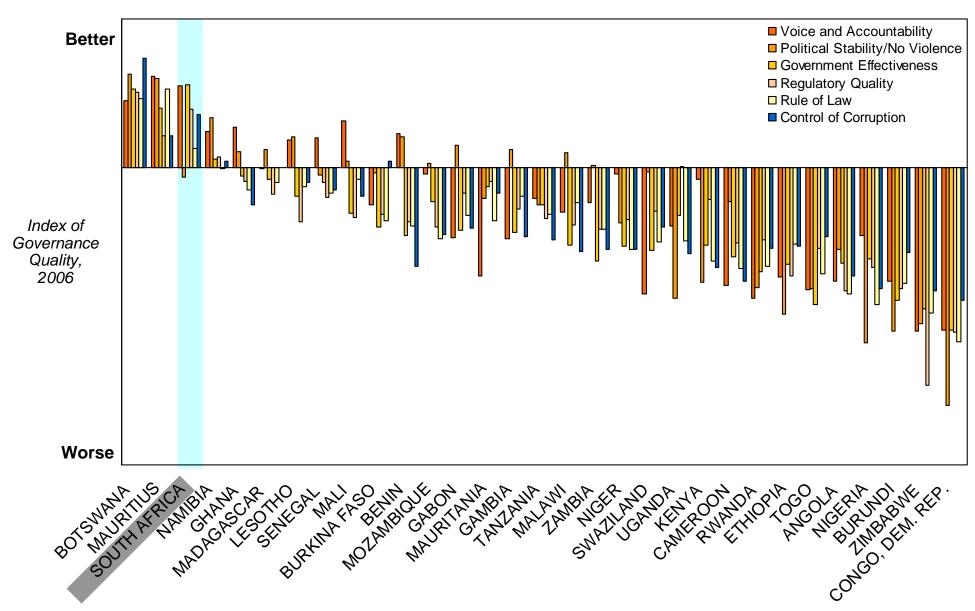
### **Determinants of Competitiveness**

Macroeconomic, Political, Legal, and Social Context



- A sound context creates the potential for competitiveness, but is not sufficient
- Competitiveness ultimately depends on improving the microeconomic capability
  of the economy and the sophistication of local competition

# **Governance Indicators**<u>Selected Countries</u>



Note: Sorted left to right by decreasing average value across all indicators. The 'zero' horizontal line corresponds to the median country's average value across all indicators.

Source: World Bank (2007) South Africa CAON 2007 07-02-07.ppt

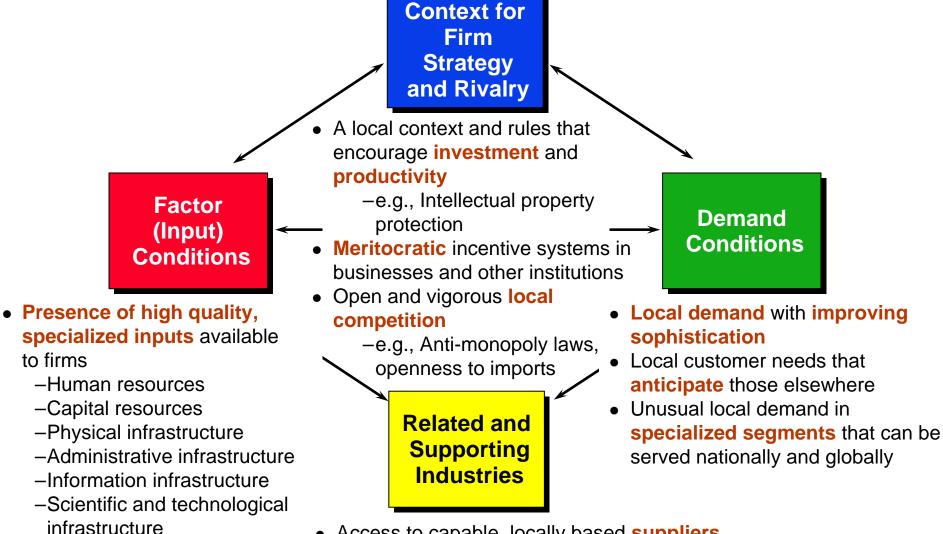
### Prosperity and Human Development Selected Countries

	Rank		HDI components		
Country	GDP per Capita (PPP)	Human Development Index (HDI)	Life Expectancy	Education	GDP per Capita (PPP)
South Africa	55	121	37%	80%	79%
Botswana	58	131	16%	78%	77%
Russian Federation	59	65	67%	95%	77%
Brazil	64	69	76%	88%	74%
Thailand	65	74	75%	86%	73%
Tunisia	69	87	81%	75%	73%
Turkey	70	92	73%	81%	73%
Libyan Arab Jamahiriya	71	64	81%	86%	72%
Iran, Islamic Rep. of	72	96	76%	75%	72%
Kazakhstan	74	79	64%	96%	72%
Namibia	75	125	37%	79%	72%
Gabon	81	124	48%	71%	70%
Algeria	83	102	77%	71%	70%
Venezuela	89	72	80%	87%	68%
China	90	81	78%	84%	68%
Indonesia	116	108	70%	83%	60%
India	117	126	64%	61%	58%
Ghana	127	136	53%	54%	52%
Cameroon	131	144	34%	66%	51%
Uganda	152	145	39%	67%	45%
Congo	165	140	46%	72%	38%

Note: Percentages are relative to best country in the world

Source: UNDP (2006)
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### Improving the Business Environment: The Diamond



 Access to capable, locally based suppliers and firms in related fields



 Successful economic development is a process of successive upgrading, in which the business environment improves to enable increasingly sophisticated ways of competing

-Natural resource availability

**Factor** (Input) **Conditions** 

### **Factor (Input) Conditions South Africa's Relative Position 2006**

#### **Competitive Advantages** Relative to GDP per Capita

Country Ranking, Arrows

indicate a change of ranks s		
Local equity market access	12	
Efficiency of legal framework	16	
Financial market sophistication	18	
University/industry research collaboration	22	
Quality of management schools	22	
Judicial independence	22	
Air transport infrastructure quality	24	
Quality of scientific research institutions	25	

#### **Competitive Disadvantages** Polative to CDP per Capita

Relative to GDF per Capita		
indicate a cha	Ranking, Arrows nge of 5 or more anks since 2001	
Quality of math and science education	119	
Availability of scientists and engineers	96	
Quality of public schools	89 🜉	
Reliability of police services	86	
Telephone/fax infrastructure quality	83	
Quality of electricity supply	68	
Port infrastructure quality	43	
Overall infrastructure quality	41	
Railroad infrastructure development	40	
Ease of access to loans	37	
Venture capital availability	35	

Rank versus 121 countries; overall, South Africa ranks 33rd in 2005 PPP adjusted GDP per capita and 46th in Business Competitiveness.

### **Weaknesses in South Africa's Labor Market**

South Africa continues to struggle with high unemployment and a significant informal economy



- Skill shortages are a clear reason for the persistent unemployment; a large share of the unemployed are low-skilled long-term unemployed
- Labor market rules and regulations are major causes of low job creation in the economy
  - Hiring and firing rules and work procedures are comparable to peer countries; especially after the 2002 modifications to the legislation of the initial post-apartheid period
  - Wage policies, which set unrealistically high minimum wages and uneconomic wage structures within industries, are a serious barrier



 Rising unit labor costs, despite persistently high unemployment, is a sign of clear structural problems in South Africa's labor market



## Context for Strategy and Rivalry South Africa's Relative Position 2006

### **Competitive Advantages Relative to GDP per Capita**

Country Ranking, Arrows indicate a change of 5 or more ranks since 2001

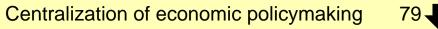
Efficacy of corporate boards	8
Effectiveness of antitrust policy	19 🖒
Intellectual property protection	23
Business costs of corruption	33
Decentralization of corporate activity	34 🖒
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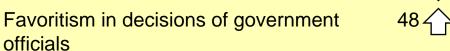
Intensity of local competition

## Competitive Disadvantages Relative to GDP per Capita

Country Ranking, Arrows indicate a change of 5 or more ranks since 2001

Cooperation in labor-employer relations	107
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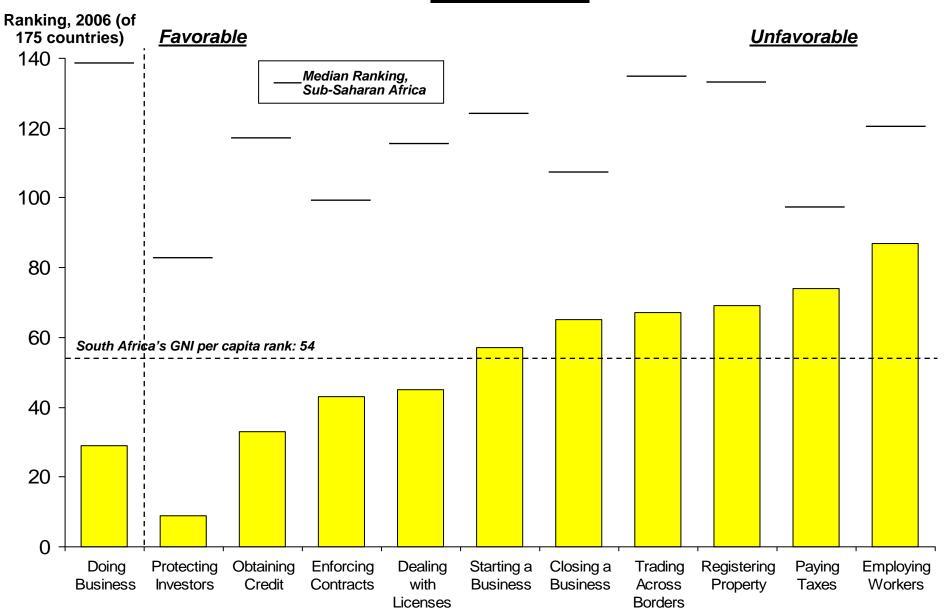




Prevalence of trade barriers 38

Note: Rank versus 121 countries; overall, South Africa ranks 33<sup>rd</sup> in 2005 PPP adjusted GDP per capita and 46<sup>th</sup> in Business Competitiveness.

# Ease of Doing Business South Africa





## Demand Conditions South Africa's Relative Position 2006

### **Competitive Advantages Relative to GDP per Capita**

Country Ranking, Arrows indicate a change of 5 or more ranks since 2001

Laws relating to ICT 26 1 Stringency of environmental regulations 32

Government procurement advanced 32 1 technology products

Presence of demanding regulatory 34 standards

Buyer sophistication 34

Competitive Disadvantages Relative to GDP per Capita

Note: Rank versus 121 countries; overall, South Africa ranks 33<sup>rd</sup> in 2005 PPP adjusted GDP per capita and 46<sup>th</sup> in Business Competitiveness.

Source: Global Competitiveness Report 2006-2007.
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Related and **Supporting Industries** 

### **Related and Supporting Industries South Africa's Relative Position 2006**

#### **Competitive Advantages** Relative to GDP per Capita

Country Ranking, Arrows indicate a change of 5 or more ranks since 2001

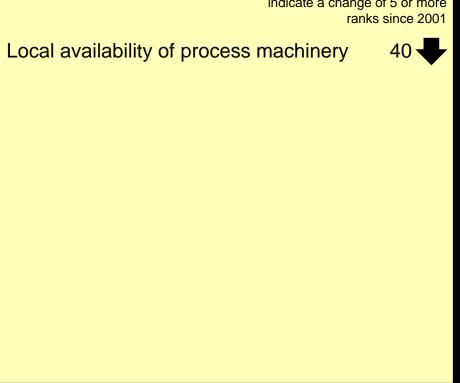
Local supplier quantity 23 -

Local supplier quality 28

Local availability of specialized research and training services



Country Ranking, Arrows indicate a change of 5 or more ranks since 2001



Source: Global Competitiveness Report 2006-2007. South Africa CAON 2007 07-02-07.ppt 28 Copyright 2007 © Professor Michael E. Porter

# Company Operations and Strategy South Africa's Relative Position 2006

## **Competitive Advantages Relative to GDP per Capita**

Country Ranking, Arrows indicate a change of 5 or more ranks since 2001

Extent of incentive compensation	4
Prevalence of foreign technology licensing	11
Reliance on professional management	13 👉
Extent of regional sales	15 👉
Extent of marketing	20
Company spending on research and development	22
Extent of staff training	24
Willingness to delegate authority	27
Breadth of international markets	29

## **Competitive Disadvantages Relative to GDP per Capita**

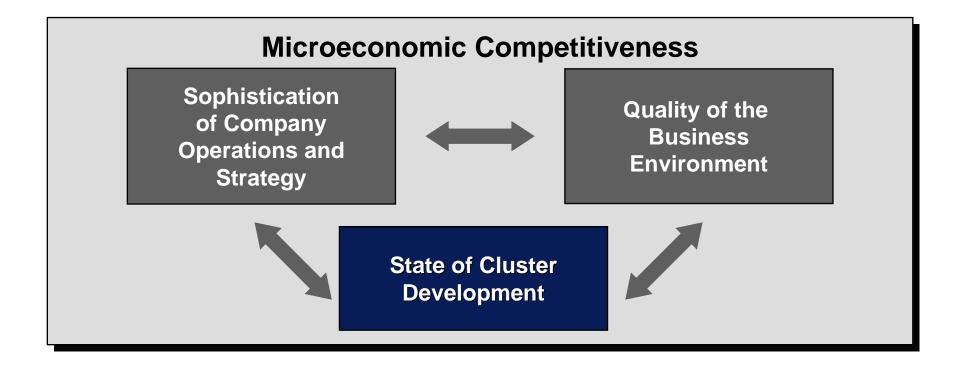
Country Ranking, Arrows indicate a change of 5 or more ranks since 2001

ranks since 2001
83 🖶
73 🖶
52 👉
46 🖶
37
35 🖶

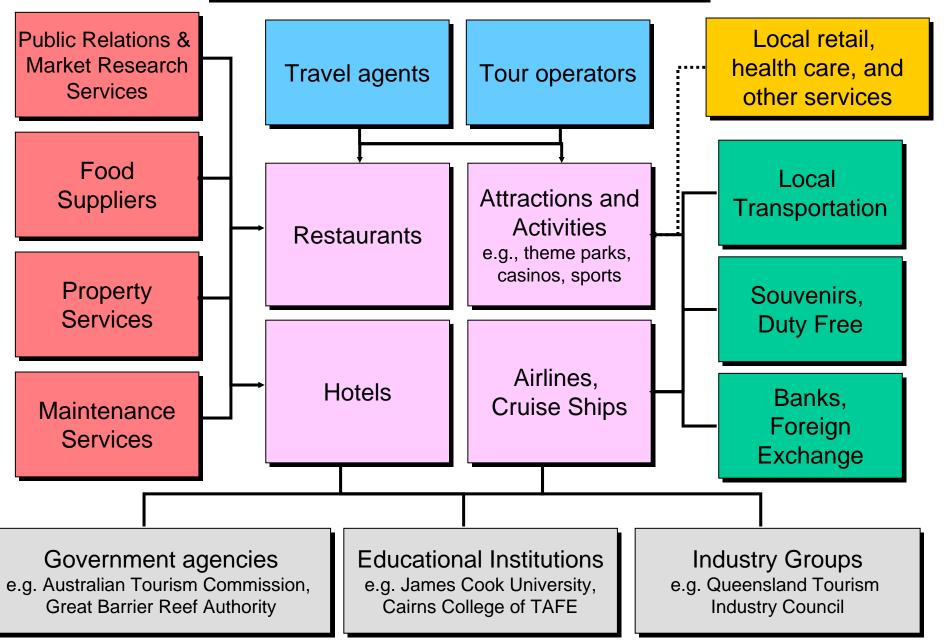
Note: Rank versus 121 countries; overall, South Africa ranks 33<sup>rd</sup> in 2005 PPP adjusted GDP per capita and 46<sup>th</sup> in Business Competitiveness.

### **Determinants of Competitiveness**

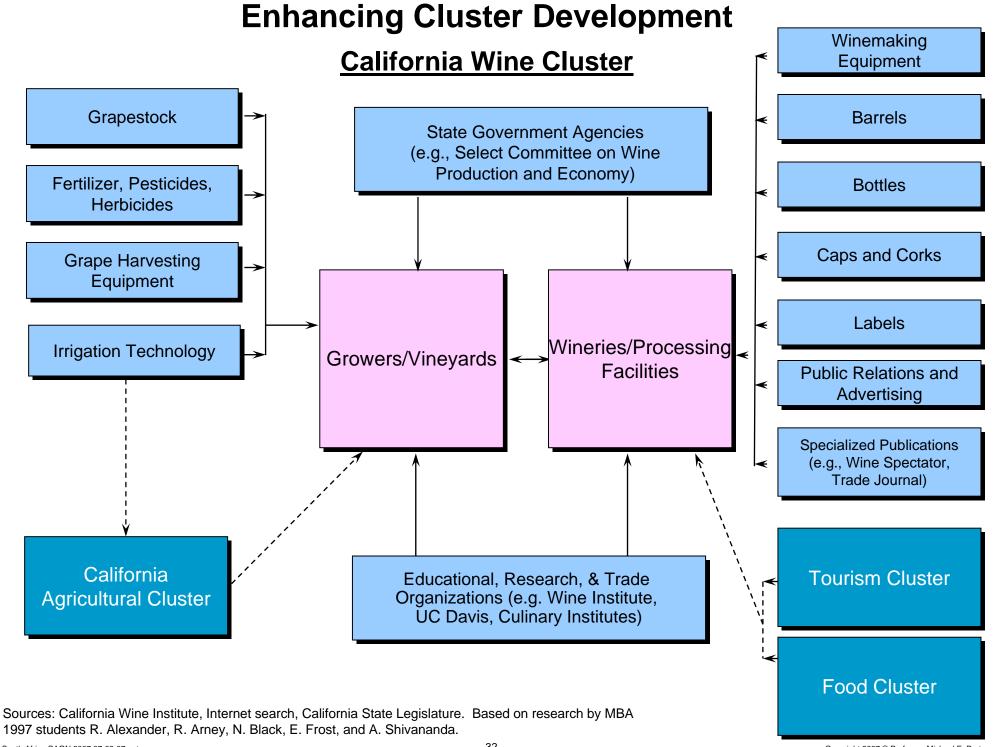
Macroeconomic, Political, Legal, and Social Context



# **Enhancing Cluster Development Tourism Cluster in Cairns, Australia**

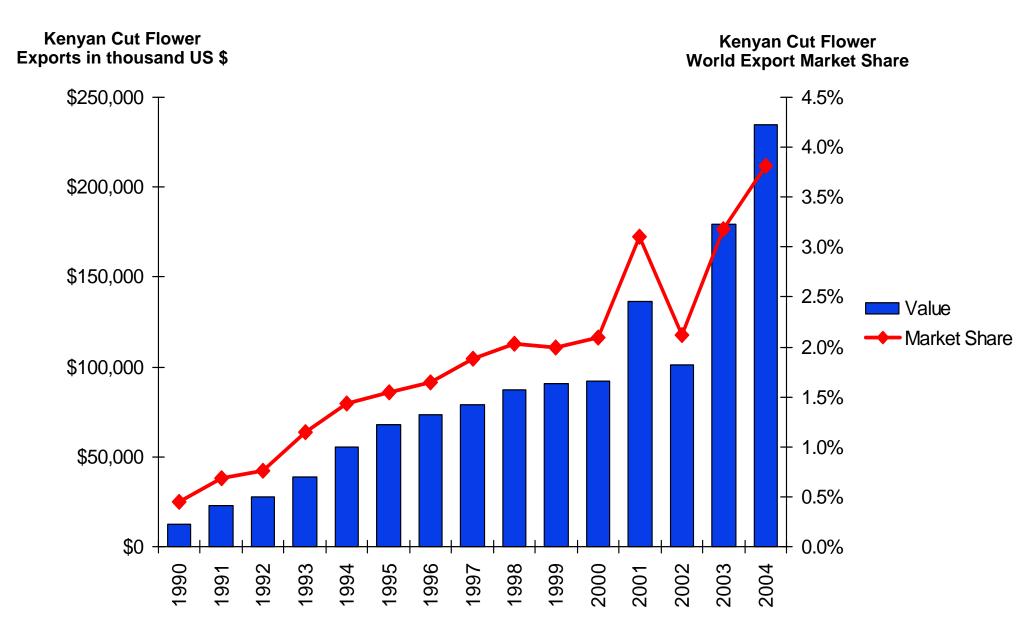


Sources: HBS student team research (2003) - Peter Tynan, Chai McConnell, Alexandra West, Jean Hayden



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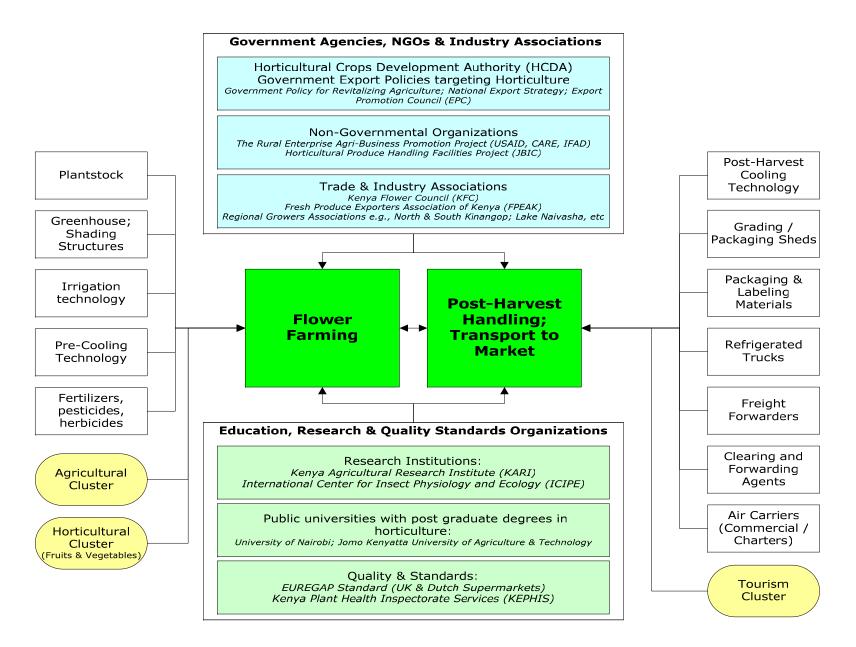
# The Kenyan Cut Flower Cluster <u>Trade Performance</u>



Source: Prof. Michael E. Porter, International Cluster Competitiveness Project, Institute for Strategy and Competitiveness, Harvard Business School;
Richard Bryden, Project Director. Underlying data drawn from the UN Commodity Trade Statistics Database.

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### **Kenya's Cut Flower Cluster**



Sources: HBS student team research (2007) - Kusi Hornberger, Nick Ndiritu, Lalo Ponce-Brito, Melesse Tashu, Tijan Watt

# Institutions for Collaboration Selected Massachusetts Organizations, Life Sciences

#### **Life Sciences Industry Associations**

- Massachusetts Biotechnology Council
- Massachusetts Medical Device Industry Council
- Massachusetts Hospital Association

#### **General Industry Associations**

- Associated Industries of Massachusetts
- Greater Boston Chamber of Commerce
- High Tech Council of Massachusetts

#### **Economic Development Initiatives**

- Massachusetts Technology Collaborative
- Mass Biomedical Initiatives
- Mass Development
- Massachusetts Alliance for Economic Development

#### **University Initiatives**

- Harvard Biomedical Community
- MIT Enterprise Forum
- Biotech Club at Harvard Medical School
- Technology Transfer offices

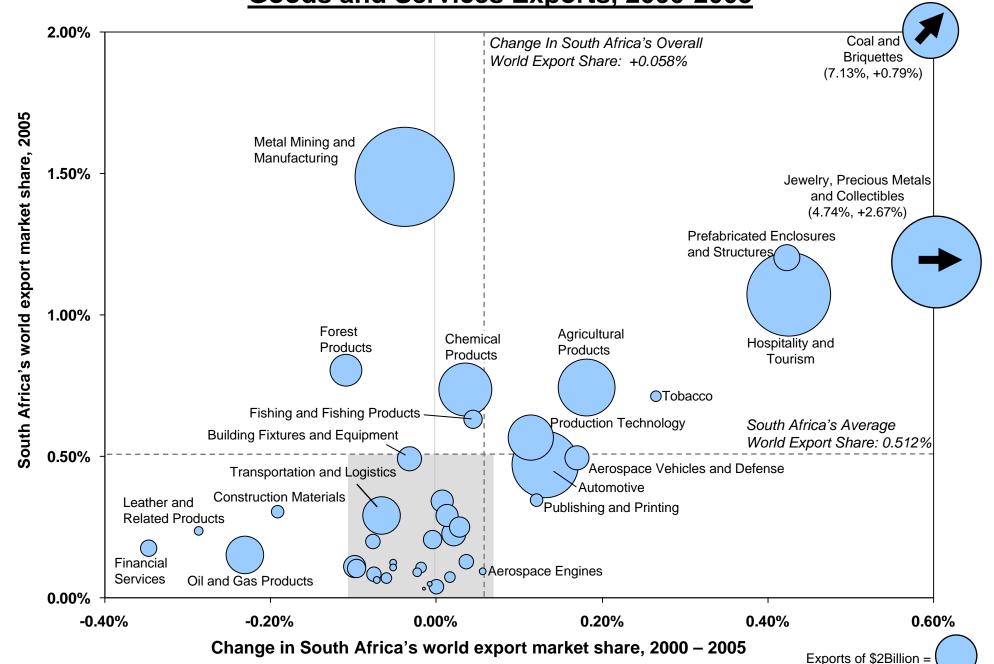
#### **Informal networks**

- Company alumni groups
- Venture capital community
- University alumni groups

#### **Joint Research Initiatives**

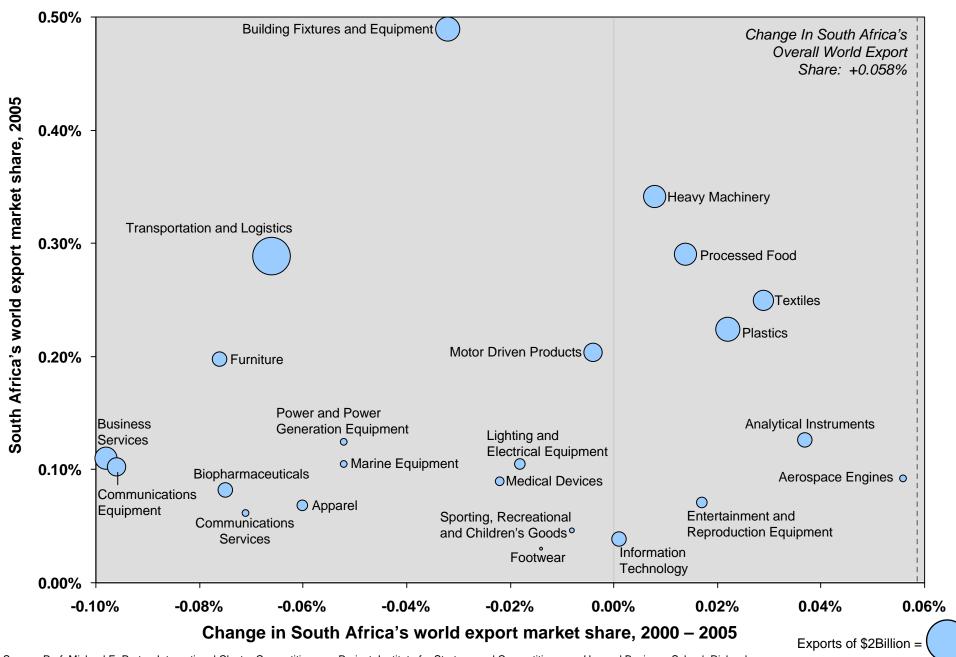
- New England Healthcare Institute
- Whitehead Institute For Biomedical Research
- Center for Integration of Medicine and Innovative Technology (CIMIT)

South Africa Cluster Portfolio Measured by Exports Goods and Services Exports, 2000-2005



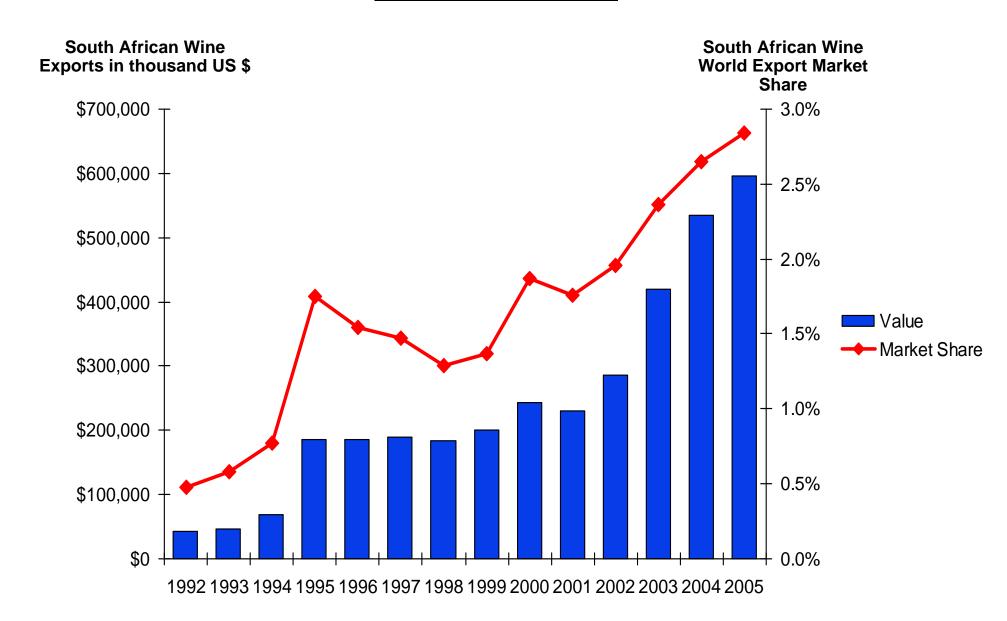
Source: Prof. Michael E. Porter, International Cluster Competitiveness Project, Institute for Strategy and Competitiveness, Harvard Business School; Richard Bryden, Project Director. Underlying data drawn from the UN Commodity Trade Statistics Database and the IMF BOP statistics. Note: Services data 1997-2005.

# South Africa Cluster Portfolio Measured by Exports Goods and Services Exports, 2000-2005 (continued)



Source: Prof. Michael E. Porter, International Cluster Competitiveness Project, Institute for Strategy and Competitiveness, Harvard Business School; Richard Bryden, Project Director. Underlying data drawn from the UN Commodity Trade Statistics Database and the IMF BOP statistics. Note: Services data 1997-2005.

# The South African Wine Cluster <u>Trade Performance</u>



Source: Prof. Michael E. Porter, International Cluster Competitiveness Project, Institute for Strategy and Competitiveness, Harvard Business School; Richard Bryden, Project Director. Underlying data drawn from the UN Commodity Trade Statistics Database.

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# The South African Wine Cluster Changing Government Roles

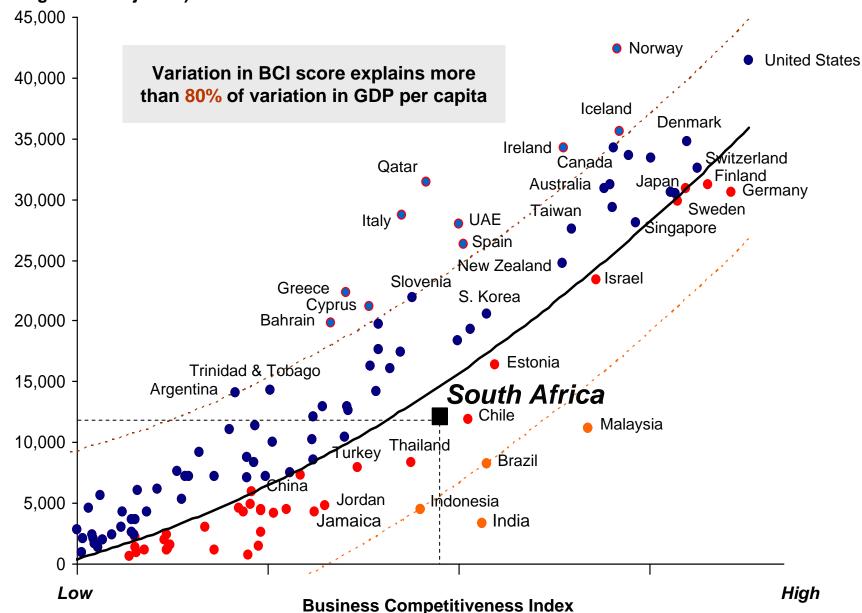
- Until 1997, the South African wine industry was highly regulated through KWV (wine grower's cooperative):
  - Regulated prices
  - Quotas
  - Regulated planting
  - → Surpluses and inefficient production
- After 1997, full deregulation occurred. In 2003, the Ministry of Agriculture announced the Wine Industry Strategic Plan (WIP), a new wine policy around:
  - Competitiveness
  - Black Economic Empowerment (BEE)
  - Resource management
  - Enhanced responsibility devolved to institutions for collaboration, especially South African Wine and Brandy Company (SAWB)

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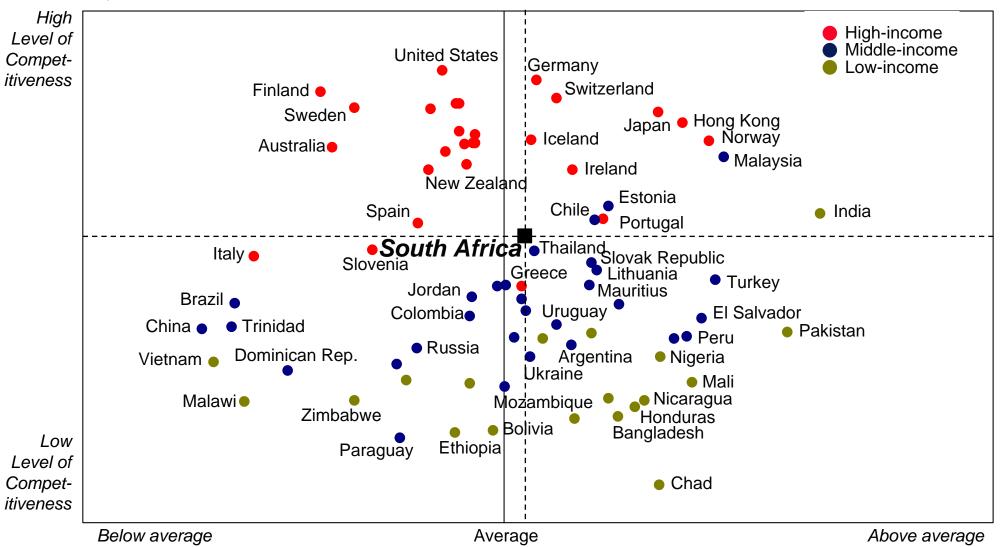
# Ranking Microeconomic Competitiveness Business Competitiveness Index, 2006

2005 GDP per Capita BUSINESS COMPETITIVENESS INGEX, 2006 (Purchasing Power Adjusted)



# **Competitive Dynamism Rate of Competitiveness Improvement**

#### BCI Value, 2006



Dynamism Score, 2002 - 2006

# **South African Competitiveness in 2007**

## **Overall competitiveness**

- South Africa is ranked 33<sup>rd</sup> in the Business Competitiveness Index, down three ranks since 2001
- Competitiveness improvement has been moderate, only slightly above the global average
- South Africa's current prosperity is below the level expected given its competitiveness, pointing towards unexploited potential

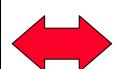
## **Competitiveness profile**

- Strengths are present in company sophistication, financial markets, and some aspects of context for rivalry
- Weaknesses are most visible in infrastructure and skills, especially basic skills

 South Africa is facing critical bottlenecks that limit its ability to exploit its strengths

# **Operational Effectiveness is Not Strategy**





Assimilating, attaining, and extending best practices



Run the same race faster

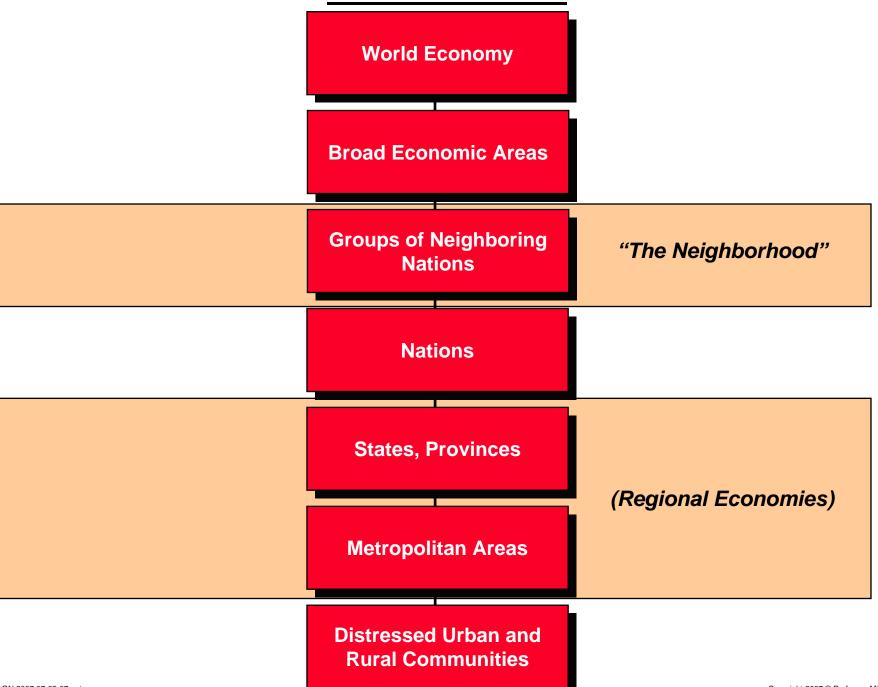


 Creating a unique and sustainable competitive position

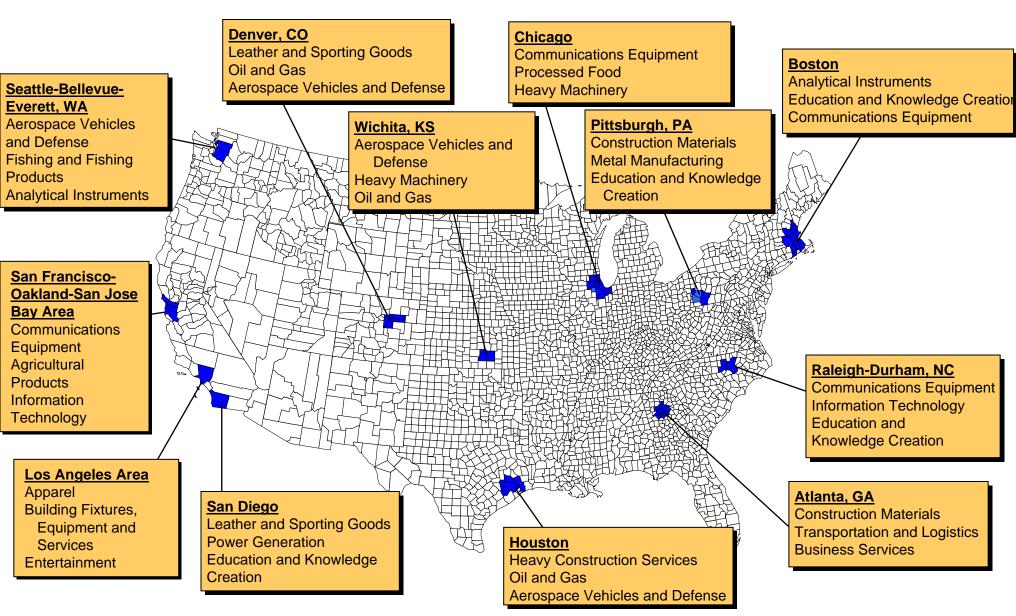


Choose to run a different race

# Geographic Influences on Competitiveness <a href="Levels of Influence">Levels of Influence</a>

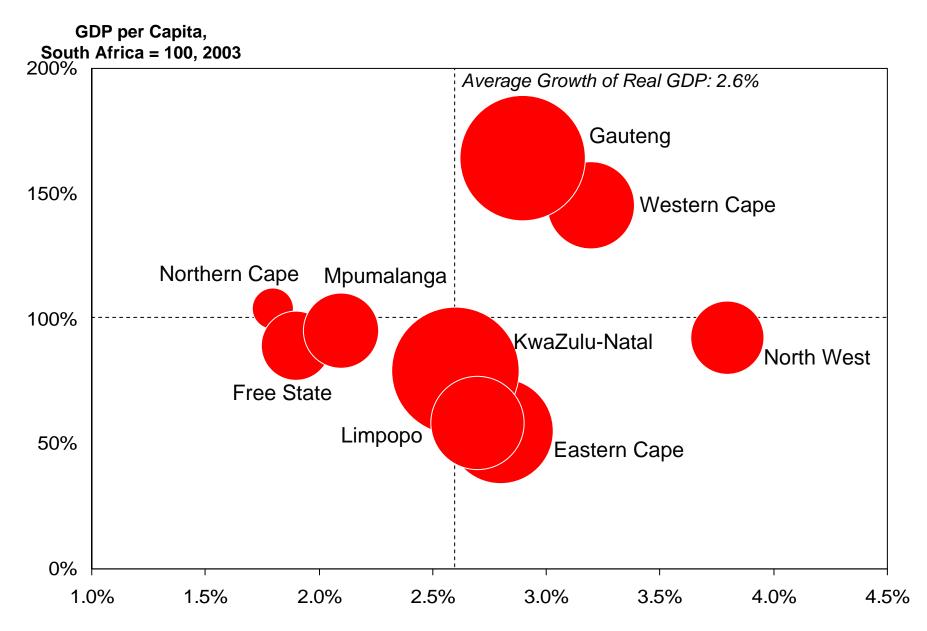


# Specialization of Regional Economies <u>Select U.S. Geographic Areas</u>



Note: Clusters listed are the three highest ranking clusters in terms of share of national employment Source: Cluster Mapping Project, Institute for Strategy and Competitiveness, Harvard Business School

# Comparative Regional Economic Performance <u>South African Provinces</u>

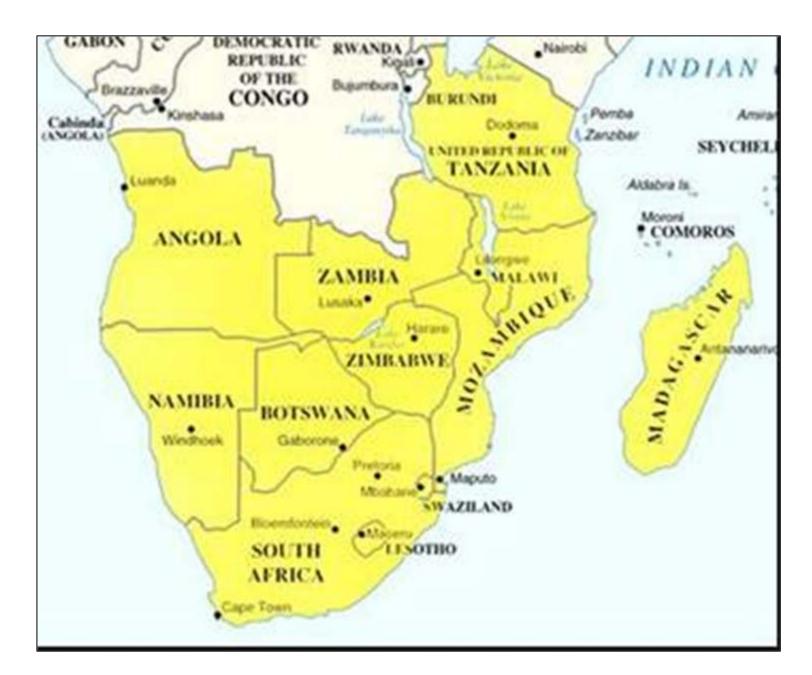


Note: Size of bubble is proportional to population

Source: Statistics South Africa, GDP Annual Estimates, 2004.

Growth of Real GDP, 2003

# South Africa's Role in the Neighborhood



# Regional Economic Coordination **Illustrative Policy Areas**

### **Factor** (Input) **Conditions**

- Improve regional transportation infrastructure
- Create an efficient energy network
- Interconnect regional communications
- Link financial markets
- Facilitate the movement of students to enhance higher education
- Harmonize regulatory requirements for business
- Coordinate programs to improve public safety

### **Context for** Strategy and Rivalry

Coordinate

and fair

policies

antimonopoly

competition

- Coordinate macroeconomic policies
- Fliminate trade and investment barriers within the region
- Simplify and harmonize cross-border regulations and paperwork

#### **Demand Conditions**

- Harmonize environmental standards
- Harmonize product safety standards
- Establish reciprocal consumer protection laws

### Related and **Supporting Industries**

- Coordinate development of cross-border clusters, e.g.
  - Tourism
  - Agribusiness
  - Transport & Logistics
  - Business services

#### Regional Governance

- Share best practices in government operations
- Create regional institutions
  - Dispute resolution mechanisms
  - Regional development bank
- Develop a regional marketing strategy

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# The Process of Economic Development Shifting Roles and Responsibilities

### **Old Model**

 Government drives economic development through policy decisions and incentives

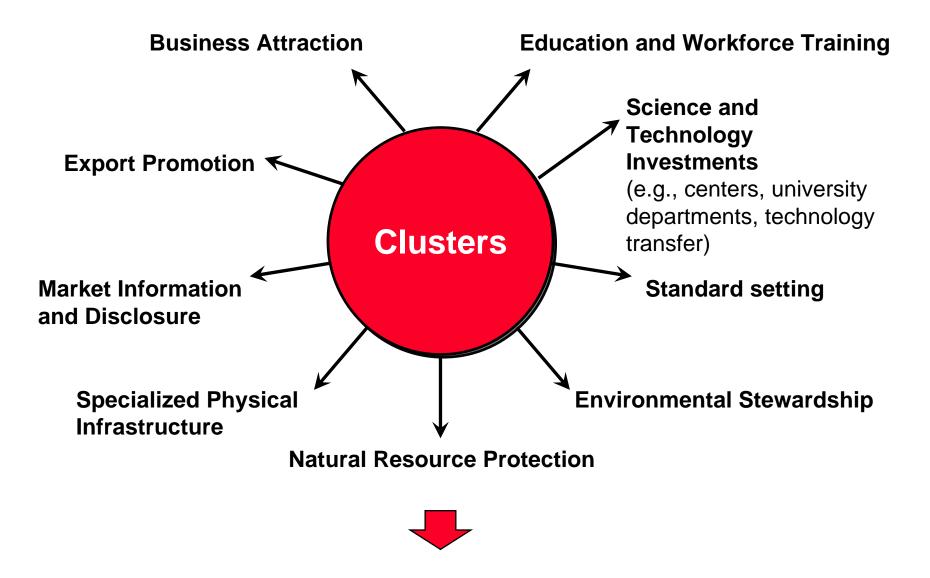


## **New Model**

 Economic development is a collaborative process involving government at multiple levels, the private sector, universities, research institutions, and business associations

 Competitiveness must become a bottom-up process in which many individuals, companies, clusters, and institutions take responsibility

## **Clusters and Economic Policy**



 Clusters provide a framework for organizing the implementation of public policy and public investments towards economic development

## Role of the Private Sector in Economic Development

- A company's competitive advantage depends partly on the quality of the business environment
- A company gains advantages from being part of a cluster
- Companies have a strong role to play in upgrading their business environment

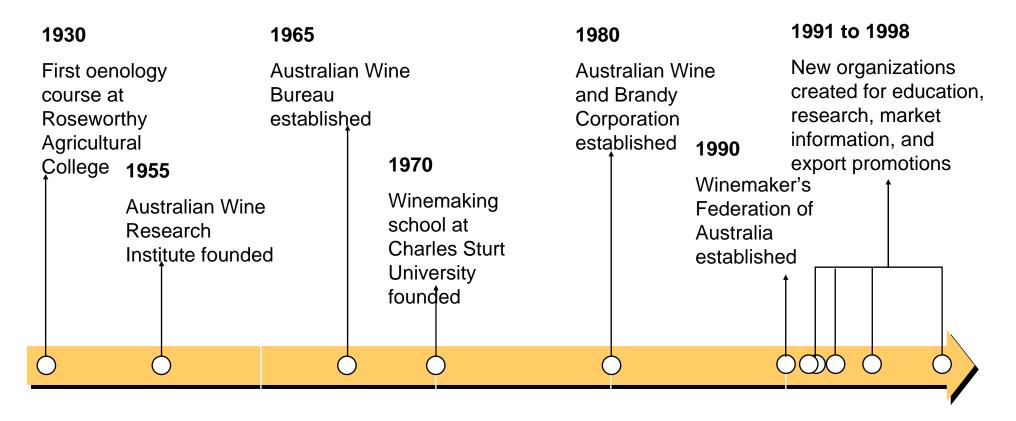


- Take an active role in upgrading the local infrastructure
- Nurture local suppliers and attract foreign suppliers
- Work closely with local educational and research institutions, to upgrade their quality and address the cluster's needs
- Inform government on regulatory issues and constraints bearing on cluster development
- Focus corporate philanthropy on enhancing the local business environment



- An important role for trade associations
  - Collaboration, cost sharing, and increasing influence

# The Australian Wine Cluster Time Line



1950s	1960s	1970s	1980s	1990s
Import of European winery technology	Recruiting of experienced foreign investors, e.g. Wolf Bass	Continued inflow of foreign capital and management	Creation of large number of new wineries	Surge in exports and international acquisitions

# The Australian Wine Cluster Recently founded Institutions for Collaboration

#### Winemakers' Federation of Australia

- Established in 1990
- Focus: Public policy representation of companies in the wine cluster
- Funding: Member companies

## **Cooperative Centre for Viticulture**

- Established in 1991
- Focus: Coordination of research and education policy in viticulture
- Funding: other cluster organizations

### **Australian Wine Export Council**

- Established in 1992
- Focus: Wine export promotion through international offices in London and San Francisco
- Funding: Government; cluster organizations

### **Grape and Wine R&D Corporation**

- Established in 1991 as statutory body
- Focus: Funding of research and development activities
- Funding: Government; statutory levy

## Wine Industry Information Service

- Established in 1998
- Focus: Information collection, organization, and dissemination
- Funding: Cluster organizations

# Wine Industry National Education and Training Council

- Established in 1995
- Focus: Coordination, integration, and standard maintenance for vocational training and education
- Funding: Government; other cluster organizations

# The Evolution of Economies San Diego

Climate and Geography **Hospitality and Tourism** 

Transportation and Logistics

Sporting and Leather Goods

U.S. Military Aerospace Vehicles and Defense

Communications Equipment

**Analytical Instruments** 

**Power Generation** 

Information Technology

Education and Knowledge Creation

**Medical Devices** 

Bioscience Research Centers

**Biotech / Pharmaceuticals** 

**1910 1930 1950 1970 1990** 

# **Defining an Economic Strategy**

## **Value Proposition**

- What is the unique competitive position of the nation given its location, legacy, and existing and potential strengths?
  - What roles with neighbors, the region, and the broader world?
  - What unique value as a business location?
  - For what types of activities and clusters?

## **Developing Unique Strengths**

- What elements of context and the business environment become crucial priorities?
- What existing and emerging clusters should be developed first?

## **Achieving and Maintaining Parity** with Peers

What weaknesses must be addressed to achieve parity with peer countries?

 ASGISA needs to become a true national economic strategy, defining the value proposition of the country in the global economy south Africa CAON 2007 07-02-07.ppt

# National Economic Strategy Singapore

# National Value Proposition

- What roles in regional and world economy?
   e.g., Business, financial, and knowledge hub of Southeast Asia
- What unique value as a business location?
   e.g., Highly efficient place to do business; access to skilled and hardworking staff
- For what range of clusters, activities within clusters?
   e.g., clusters benefiting from a business hub but not dependent on a large home market or physical proximity to markets

# **Creating Unique Strengths**

Macro/political/legal/social e.g., Absence of corruption

#### **National Diamond**

e.g., Singapore's physical infrastructure

#### Cluster Development

e.g., Singapore's logistical services, financial services, petrochemical processing, tourism

#### Company Capabilities

e.g., large number of world-class multinationals with regional headquarters and significant operations in Singapore

#### Geographic Levels

e.g., Growth Triangle, ASEAN

# Mitigating Weaknesses

#### Macro/political/legal/social

e.g., Expand cultural attractions

#### National Diamond

e.g., Upgrade Singapore's research institutions; improve the efficiency of Singaporean domestic economy

#### Cluster Development

e.g., Develop more Singaporean SMEs to deepen clusters; improve the number and quality of IFCs

#### **Company Capabilities**

e.g., build the capability of Singaporean companies and encourage regional strategies

#### Geographic Levels

e.g., Create friendly relationships with ASEAN neighbors

# Government Economic Policy in South Africa The Accelerated and Shared Growth Initiative (ASGISA)

- In 2004, the South African government set ambitious goals in terms of economic growth and social improvements
- In dialogue with the private sector, civil society, and experts, binding constraints to growth were identified

#### **CONSTRAINTS**

- Volatile currency
- Inefficient and costly transport infrastructure
- Skill shortages
- Barriers to entry and competition
- Burdensome regulations for small companies
- Weaknesses in administrative capacity



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#### **RESPONSES**

- Macroeconomic management
- Infrastructure investments
- Skills and education initiatives
- Sector strategies
- 'Second economy' programs
- Public administration reform

## **Sectoral Priorities within ASGISA**

### **TOP PRIORITY SECTORS**

- Business Process Outsourcing
- Tourism
- Biofuels (under planning)

## **NEXT RANK OF PRIORITIES**

- Chemicals
- Metal beneficiation
- Creative industries
- Clothing and textiles
- Durable consumer goods
- Wood, pulp and paper

## The Role of Government in Cluster Initiatives

### Should...

- Actively participate
- Be ready to implement recommendations

## May...

- Convene
- Provide matching funds

### Should not

- Select priority clusters
- Define cluster action priorities

 Debates about the role of government in cluster development are too often focused on which clusters should be supported and how much financing they should get



- Cluster selection is an important but ultimately operative question; focus is necessary to achieve impact and not all clusters have equal potential
- **Financing** is important but cluster policy needs to be more; policy needs to improve the potential for companies to **increase productivity**

# **Backup**

# Cluster Specialization Leading Footwear Clusters

#### **Portugal**

- Production
- Focus on shortproduction runs in the medium price range

### <u>Italy</u>

- Design, marketing, and production of premium shoes
- Export widely to the world market

#### **Brazil**

- Low to medium quality finished shoes, inputs, leather tanning
- Shift toward higher quality products in response to Chinese price competition

#### Romania

- Production subsidiaries of Italian companies
- Focus on lower to medium price range

#### **China**

- OEM Production
- Focus on low cost segment mainly for the US market

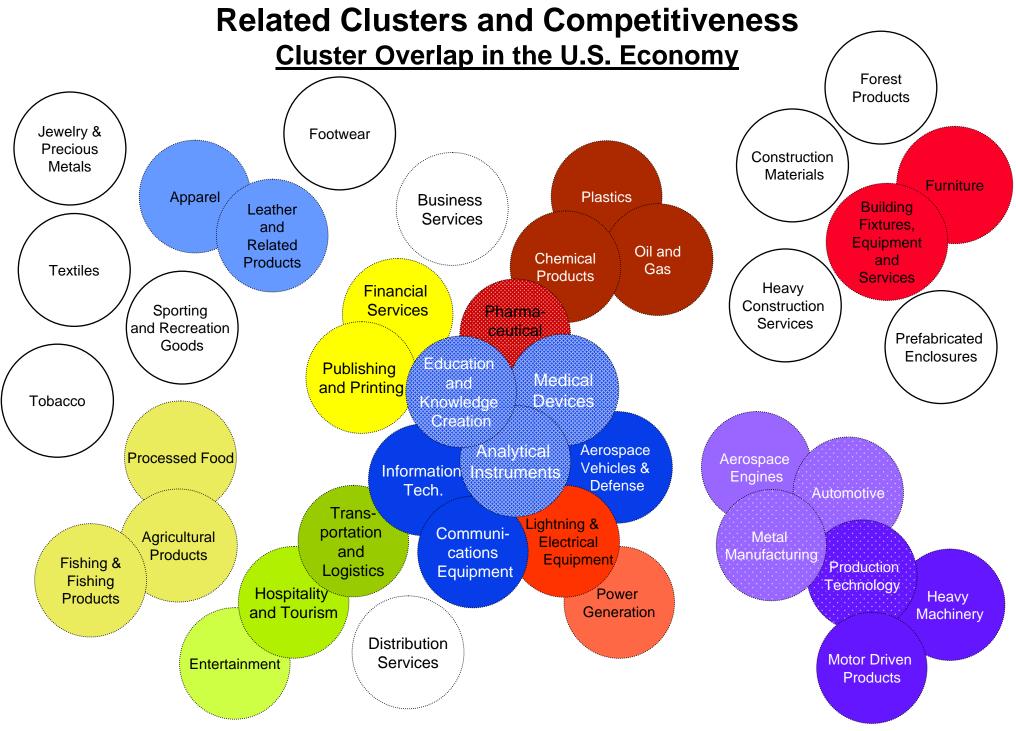


## Vietnam/Indonesia

- OEM Production
- Focus on the low cost segment mainly for the European market

#### **United States**

- Design and marketing
- Focus on specific market segments like sport and recreational shoes and boots
- Manufacturing only in selected lines such as hand-sewn casual shoes and boots



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

# **The Composition of Regional Economies United States, 2004**

	Traded	Local	Natural Resource-Driven
Share of Employment Employment Growth Rate, 1990 to 2004	29.3% 0.7%	70.0% 2.4%	0.7% -1.2%
Average Wage Relative Wage Wage Growth	\$49,367 137.2% 4.2%	\$30,416 84.5 3.4%	\$35,815 99.5 2.1%
Relative Productivity	144.1	79.3	140.1
Patents per 10,000 Employees	23.0	0.4	3.3
Number of SIC Industries	590	241	48

Note: 2004 data, except relative productivity which uses 1997 data.

Source: Prof. Michael E. Porter, Cluster Mapping Project, Institute for Strategy and Competitiveness, Harvard Business School South Africa CAON 2007 07-02-07.ppt 63

# Stages Of Competitive Development Shifting Policy Imperatives



## **Cost of Inputs**

- Macro, political, and legal stability
- Efficient basic infrastructure
- Lowering the regulatory costs of doing business

## **Efficiency**

- Local competition
- Market openness
- Incentives and rules encouraging productivity
- Cluster formation and activation

## **Unique Value**

- Advanced skills
- Advanced infrastructure
- Incentives and rules encouraging innovation
- Cluster upgrading

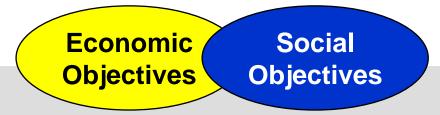
South Africa CAON 2007 07-02-07.ppt 64 Copyright 2007 © Professor Michael E. Porter

# **Government and Economic Development Roles**

- Improve the macroeconomic, political, legal, and social context
  - Establish a stable, predictable, and effective macroeconomic, legal, and political context
  - Improve the social conditions of citizens
- Upgrade the general business environment
  - Improve the availability, quality, and efficiency of cross-cutting or general purpose inputs, infrastructure, and institutions
  - Set overall rules and incentives governing competition that encourage productivity growth
- Facilitate cluster formation and enhancement
  - Identify existing and emerging clusters
  - Encourage and support cluster upgrading
- Lead a collaborative process of economic change
  - Develop and overall economic strategy together with key constituencies
  - Organize the parts of government in a coordinated development agenda
  - Engage multiple levels of government in economic development
  - Create institutions and processes for upgrading competitiveness that inform citizens and mobilize the private sector to take action

# **Integrating Economic and Social Policy**

• In the new thinking on competition, there is **not an inherent conflict** between economic and social objectives, but a long term synergy



- The competitiveness of companies depends heavily on
  - Rising skill levels
  - Safe working conditions
  - A sense of equal opportunity
  - Low levels of pollution (pollution is a sign of unproductive use of physical resources)
- However, efforts to meet "social" objectives must be aligned with productivity and prepare and motivate individuals to succeed in the market system
- Efforts to meet "economic" objectives must include explicit programs to raise human capability, improve the lives and sense of opportunity for individuals, and enhance the broader business environment

# Integrating Economic and Social Policy **Examples**

## **Training**

Organize training investments around clusters

## Housing

Create mechanisms to encourage home ownership; provide incentives for new company formation in the construction cluster; reduce unnecessary costs of housing construction due to regulatory and approval requirement; secure property rights to residents

## **Health Care**

Create incentives for private health insurance; open health care delivery to competition

## **Social Security**

Create incentives for saving; encourage a private pension system that agglomerates investment capital

## **Environmental Quality**

Institute a regulatory regime that encourages movement to more environmental friendly methods; invest in technical assistance in eco-efficient processes and practices

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## **ASGISA** and Beyond: An Early Assessment

- The Accelerated and Shared Growth Initiative (ASGISA) is an important step forward for South African competitiveness policy
  - Fact-driven analysis of specific challenges
  - Identification of key priorities
  - Medium-term perspective with regular assessment of progress



- The ASGISA needs to be 'the' economic action plan for the country, internally consistent and widely accepted as a national objective
- Execution is crucial; even when the policy right area is identified, success depends on specific steps taken and the government's capacity to deliver
- The action plan needs to add a clear geographic dimension, mobilizing South African regions and leveraging integration with neighboring countries

## What are Cluster Initiatives?

Cluster initiatives are collaborative activities by a group of companies, public sector entities, and other related institutions with the objective to improve the competitiveness of a group of interlinked economic activities in a specific geographic region

 Upgrading of company operations and strategies across a group of companies

 Upgrading of clusterspecific business environment conditions

 Strengthening of networks to enhance spill-overs and other economic benefits of clusters

# Towards Sustainable Black Economic Empowerment Selected Policies

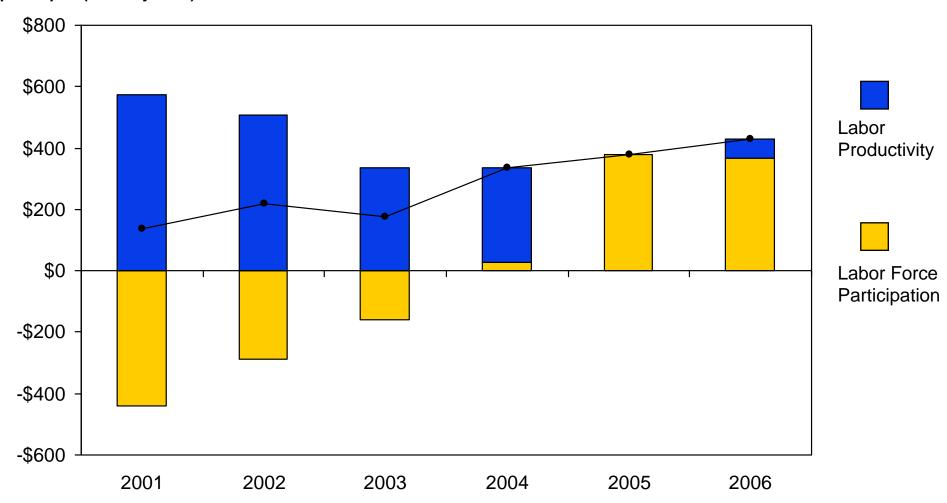
- Improve social conditions
- Improve and extend public education
- Invest aggressively in managerial training for black citizens
- Create incentives and support the hiring and promotion of black employees into low- and middle-management positions in whiteowned local companies as well as multinationals
- Focus on upgrading indigenous local businesses, including in agriculture, local services, and manufacturing businesses serving local needs
- Place early attention to clusters involving small- and medium size enterprises
- Create incentives for risk capital investments in business with significant (>10%) black ownership. Avoid programs that apply only to majority black-owned businesses, especially when other owners are passive investors or private equity firms



There a no short cuts for addressing this long-term challenge

# Decomposing South Africa's GDP per Capita Growth

# Contribution to change in real GDP per Capita (PPP adjusted)



Note: Data before 2001 not available.

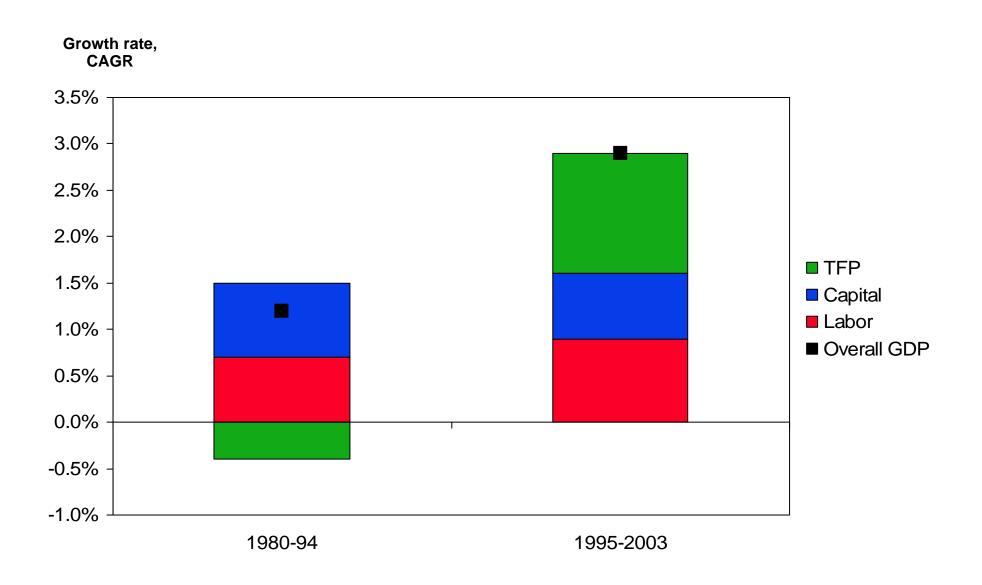
Source: EIU (2007)

# **U.S. Patenting by South African Institutions**

	Organization	Patents Issued from 2000 to 2004
1	SASOL TECHNOLOGY (PROPRIETARY) LIMITED	29
2	WINDSOR TECHNOLOGIES LIMITED	11
3	CSIR	8
4	WATER RESEARCH COMMISSION	6
4	DENEL (PROPRIETARY) LIMITED	6
4	IPCOR NV	6
4	SUPERSENSOR (PROPRIETARY) LIMITED	6
8	TECHNOLOGY FINANCE CORPORATION (PROPRIETARY) LIMITED	5
8	IMPLICO B.V.	5
8	CLAAS SELBSTFAHRENDE ERNTEMASCHINEN GMBH	5
11	SLIC TRADING COMPANY LIMITED	4
11	ESKOM	4
11	ADCOCK INGRAM LIMITED	4
14	MEDTRONIC INC.	3
14	MINTEK	3
14	SANDVIK AKTIEBOLAG	3
14	BILLITON INTELLECTUAL PROPERTY B.V.	3
14	CATALYTIC DISTILLATION TECHNOLOGIES	3
14	UNIVERSITY OF PRETORIA	3
14	SALBU RESEARCH AND DEVELOPMENT (PROPRIETARY LIMITED)	3
14	GARFIELD INTERNATIONAL INVESTMENTS LIMITED	3
14	SOUTH AFRICA NUCLEAR ENERGY CORPORATION LTD.	3
14	AZOTEQ (PTY) LIMITED	3

Note: Shading indicates universities, research institutions or government agencies. Nine more institutions with three patents are not listed. Source: US Patent and Trademark Office (www.uspto.gov). Author's analysis.

# **Decomposing South African Real GDP Growth**



# Macroeconomic, Political, Legal, and Social Context

## **Macroeconomic policies**

- Sound fiscal and monetary policies create stability and encourage business investment and upgrading
- Sound and stable macroeconomic conditions hold down interest rates and provide accurate price signals for market transactions

## Political governance

- Due process in political decisions and orderly transfers of power create a stable planning horizon for business
- Checks and balances in the political system mitigate instability and the abuse of power

## Legal system

- An independent, timely, effective and trusted legal system solidifies the rule of law and provides a fair environment for business, encouraging investment
- Strict monitoring and prosecution of corruption rewards productivity instead of favoritism

### **Social conditions**

- Improving social conditions in basic education, housing, health, and absence of discrimination enhances productivity
- A functioning social safety net gives citizens the confidence to accept and deal with change in the economy
- Improvements of social conditions signal the benefits of reforms and increase the political support for policies to enhance competitiveness