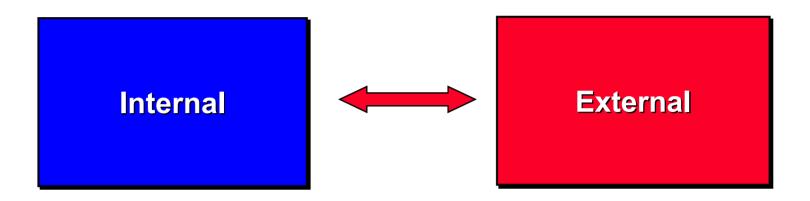
# The Competitive Advantage of Greece: Moving to the Next Level

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

Athens, Greece 8 May, 2003

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 2002</u>, (World Economic Forum, 2002), "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

### **Perspectives on Firm Success**



- Competitive advantage resides solely inside a company or in its industry
- Competitive success depends primarily on company choices

- Competitive advantage (or disadvantage) resides partly in the locations at which a company's business units are based
- Cluster participation is an important contributor to competitiveness

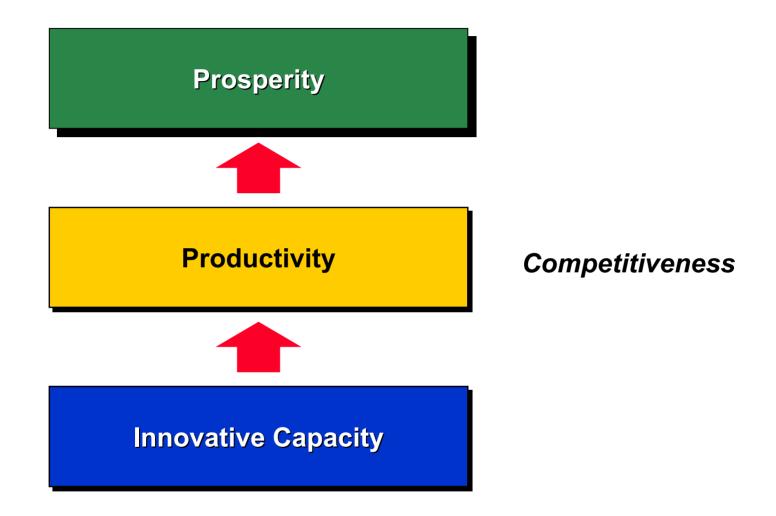
## What is Competitiveness?

- Competitiveness is determined by the productivity with which a nation uses its human, capital, and natural resources. Productivity sets a nation's or region's standard of living (wages, returns to capital, returns to natural resource endowments)
  - Productivity depends both on the value of products and services (e.g. uniqueness, quality) as well as the efficiency with which they are produced.
  - It is not what industries a nation competes in that matters for prosperity, but how firms compete in those industries
  - Productivity in a nation is a reflection of what both domestic and foreign firms choose to do in that location. The location of ownership is secondary for national prosperity.
  - The productivity of "local" industries is of fundamental importance to competitiveness, not just that of traded industries
  - Devaluation does not make a country more competitive



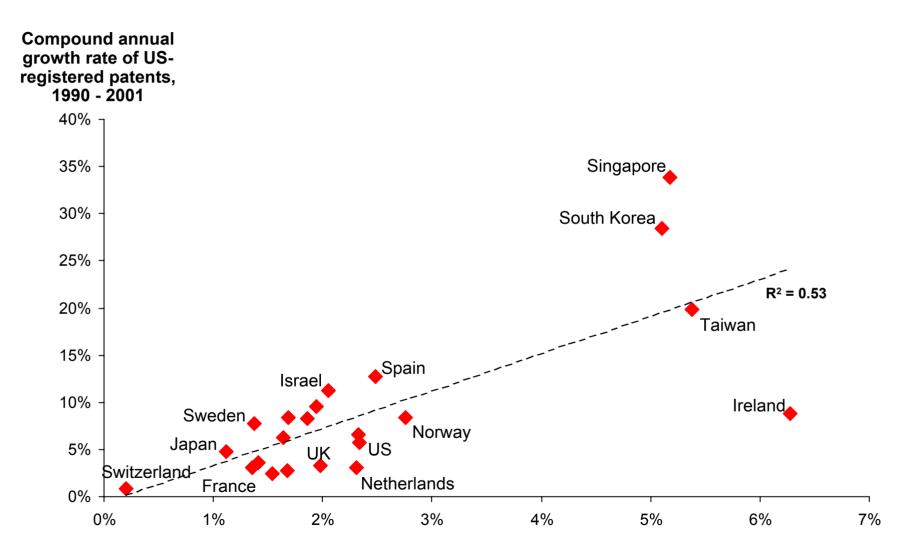
- Nations compete in offering the most productive environment for business
- The public and private sectors play different but interrelated roles in creating a productive economy

## **Innovation and Competitiveness**



- Innovation is more than just scientific discovery
- There are no low-tech industries, only low-tech firms

## Patenting Growth and Prosperity Growth Selected OECD Countries



Compound annual growth rate of real GDP, 1990-2000

### The Greek Economic Situation in 2003

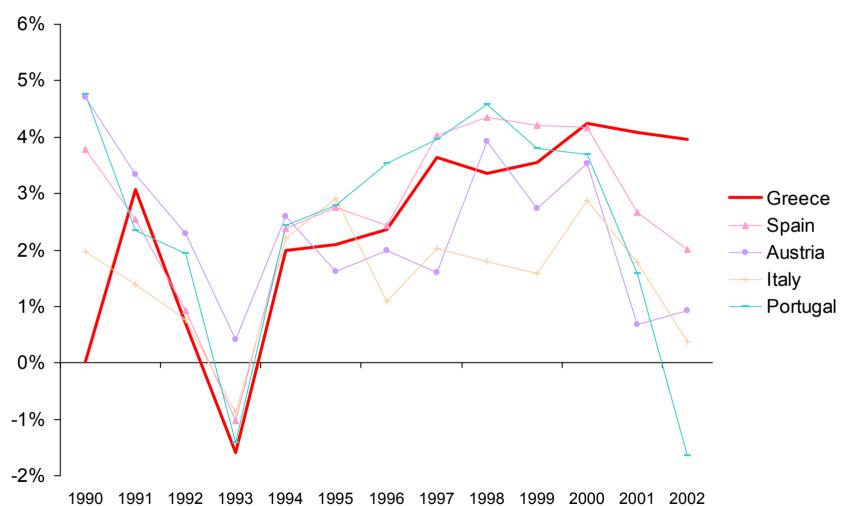
- Greece has been among the leading European Union member countries in terms of GDP growth in the last five years
- Macroeconomic progress has been considerable, and Greece successfully entered the European Monetary Union in the first wave

#### However

- Much of the recent growth has been fueled by low interest rates after entry into the EMU and access to EU structural funds
- Despite some recent progress, Greece is still lagging behind the reforms other countries started much earlier
- Greece will receive reduced EU funding after 2006 and faces increasingly intense competition from EU accession countries in Eastern Europe
- Greece has significant competitiveness challenges that must be addressed if prosperity growth is to be sustainable

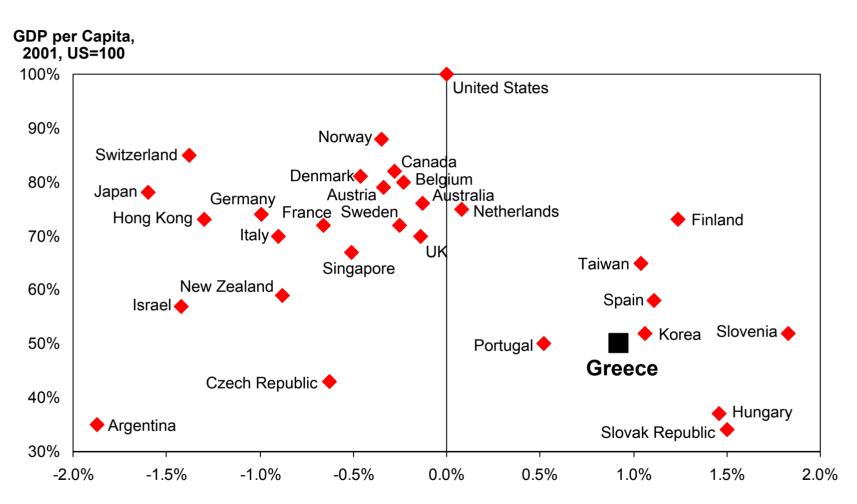
## **Comparative Economic Performance Growth Rate of Real GDP, Selected Economies**

## Annual Growth Rate of Real GDP



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## Comparative Economic Performance Prosperity, Selected Economies



CAGR of GDP per Capita Relative to the US, 1995-2001

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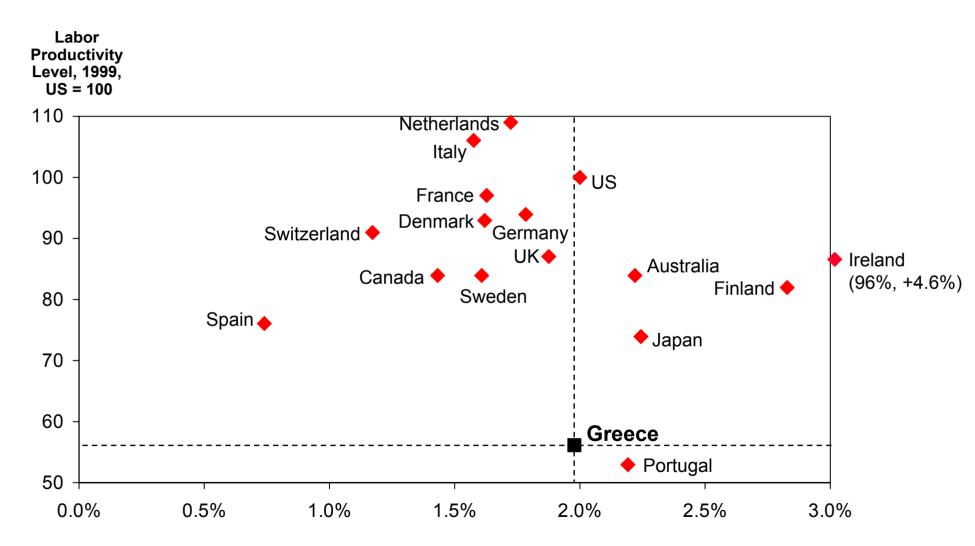
### **Greek Microeconomic Performance**

 Greece has registered solid labor productivity growth in the last few years

### However

- The overall level of labor productivity is still low
- Greece has a been one of the few middle to high-income countries with increasing unemployment since 1995
  - The effects of corporate restructuring, labor force inflows from agriculture, higher participation of women, and immigrants have outweighed positive job creation
- Greece has a weak position in exports. Performance is better in service exports such as tourism and shipping
- Greece innovation performance lags all other EU member countries with the exception of Portugal

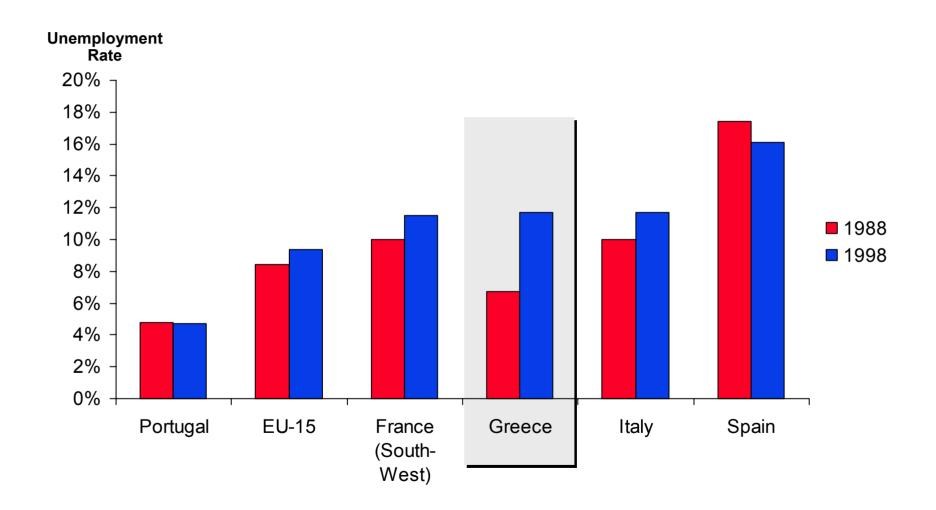
## Labor Productivity Performance Selected OECD Countries, GDP per Hour worked



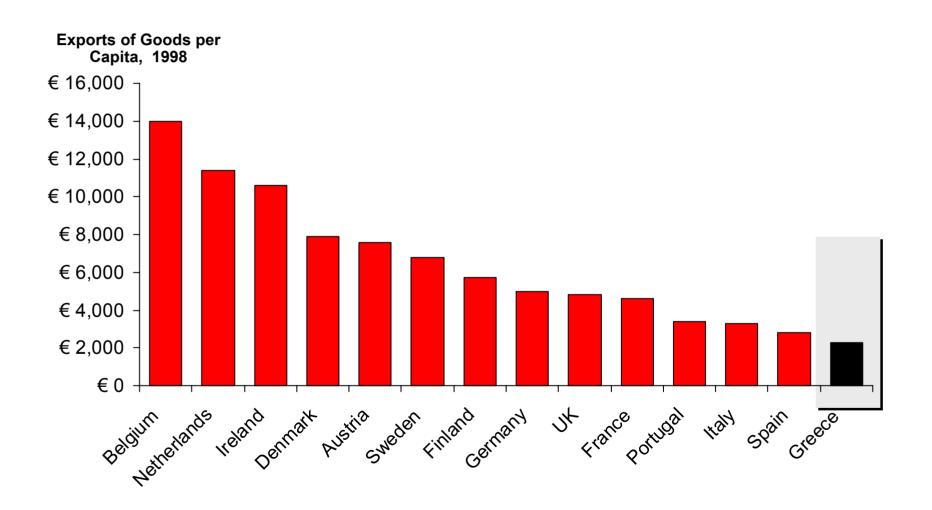
**Labor Productivity Growth, 1995-99** 

Note: Total economy Source: OECD (2001)

## **Unemployment Rate Southern European Countries and Regions**



## Comparative Goods Export Performance <u>European Countries</u>



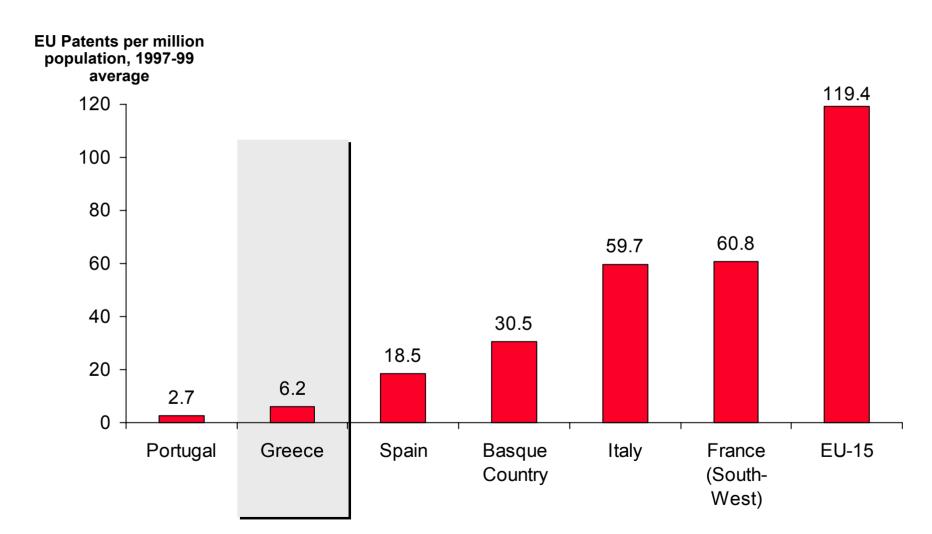
## **International Patenting Output**



Compound annual growth rate of US-registered patents, 1990 - 2001

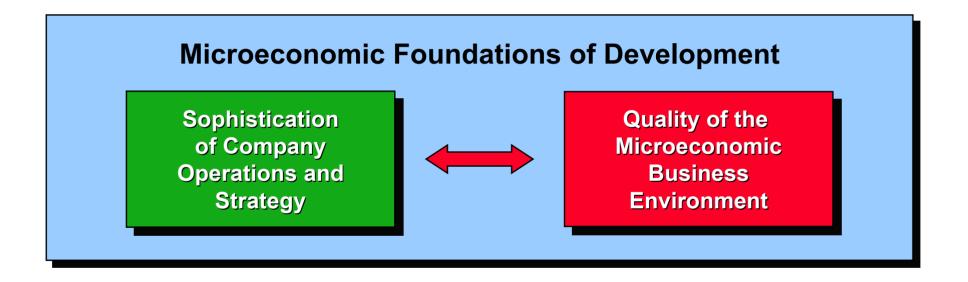
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## Innovation Performance Southern European Countries and Regions



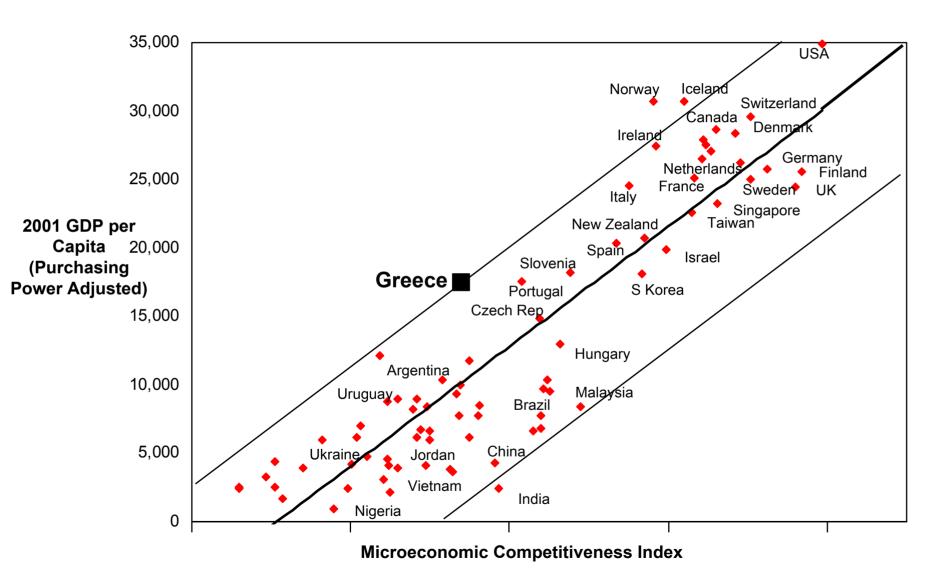
### **Determinants of Productivity and Productivity Growth**

Macroeconomic, Political, Legal, and Social Context for Development

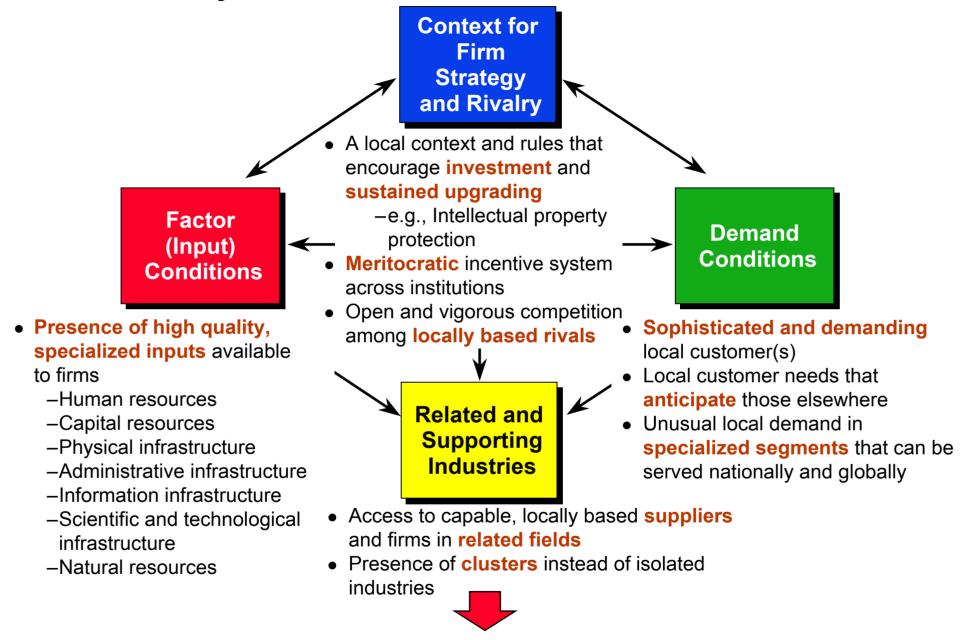


- A sound macroeconomic, political, legal, and social context creates the potential for competitiveness, but is not sufficient
- Competitiveness ultimately depends on improving the microeconomic capability of the economy and the sophistication of local companies and local competition

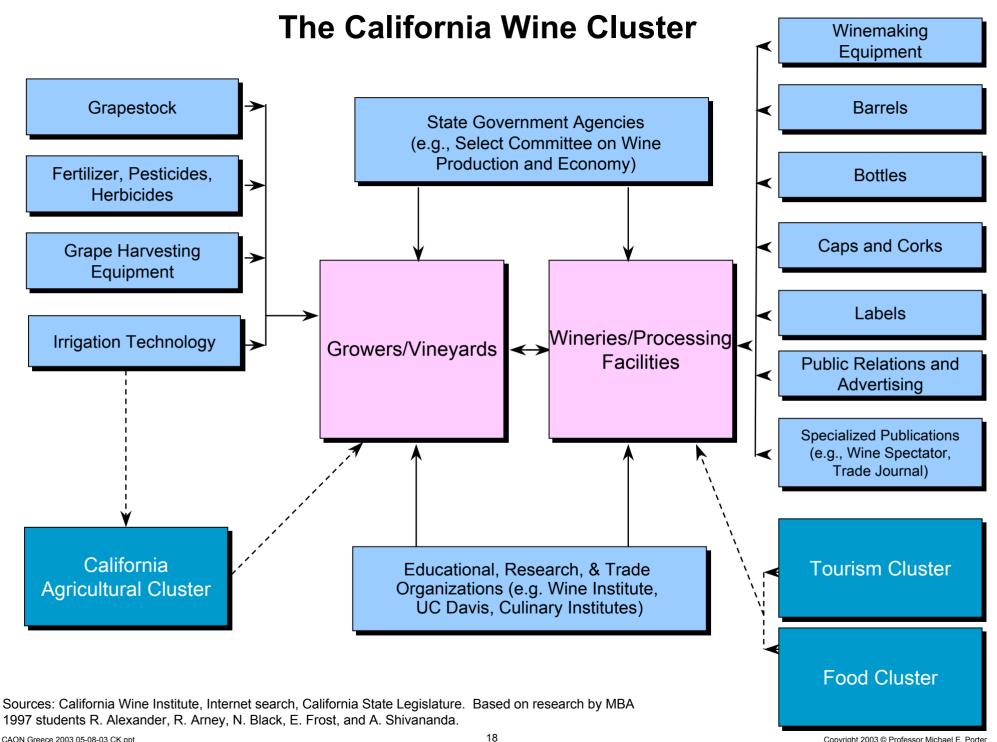
# Global Competitiveness Report 2002 The Relationship Between Microeconomic Competitiveness and GDP Per Capita



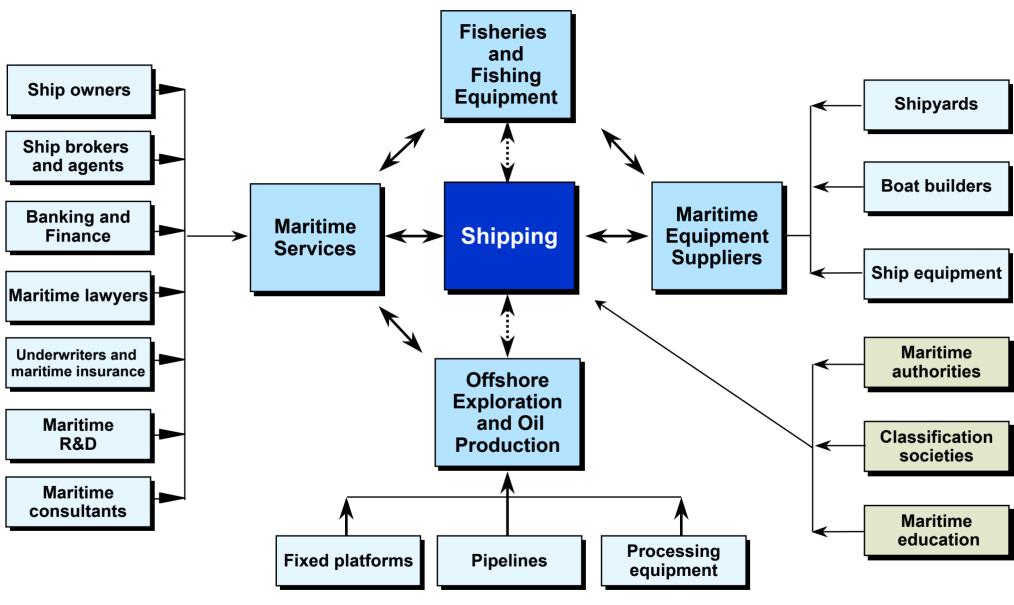
## Productivity, Innovation, and the Business Environment



Successful economic development is a process of successive economic upgrading, in which
the business environment in a nation evolves to support and encourage increasingly
sophisticated ways of competing



## **The Norwegian Maritime Cluster**



Norway has 0.1% of the world's population, represents 1.0% of the world's economy, yet accounts for 10% of world seaborne transportation

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### **Clusters and Competitiveness**

#### Clusters increase productivity and efficiency

- Efficient access to specialized inputs, services, employees, information, institutions, and "public goods" (e.g. training programs)
- Ease of coordination and transactions across firms
- Rapid diffusion of best practices
- Ongoing, visible performance comparisons and strong incentives to improve vs. local rivals

#### Clusters stimulate and enable innovation

- Enhanced ability to perceive innovation opportunities
- Presence of multiple suppliers and institutions to assist in knowledge creation
- Ease of experimentation given locally available resources

#### Clusters facilitate commercialization

- Opportunities for new companies and new lines of established business are more apparent
- Commercializing new products and starting new companies is easier because of available skills, suppliers, etc.



Clusters reflect the fundamental influence of **externalities / linkages** across firms and associated institutions in competition

### **Levels of Clusters**

- There is often an array of clusters in a given field in different locations, each with different levels of specialization and sophistication
- Global innovation centers, such as Silicon Valley in semiconductors, are few in number. If there are multiple innovation centers, they normally specialize in different market segments
- Other clusters focus on manufacturing, outsourced service functions, or play the role of regional assembly or service centers
- Firms based in the most advanced clusters often **seed or enhance clusters** in other locations in order to reduce the risk of a single site, access lower cost inputs, or better serve particular regional markets
- The challenge for an economy is to move from isolated firms to an array of clusters, and then to upgrade the breadth and sophistication of clusters to more advanced activities

## **Leading Footwear Clusters**

#### **Portugal**

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

#### Romania

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

#### Italy

- Design, marketing, and production of premium shoes
- Export widely to the world 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 handsewn casual shoes and boots

#### 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

### Institutions for Collaboration

#### General

- Chambers of Commerce
- Professional associations
- School networks
- University partner groups
- Religious networks
- Joint private/public advisory councils
- Competitiveness councils

### Cluster-specific

- Industry associations
- Specialized professional associations and societies
- Alumni groups of core cluster companies
- Incubators

- Institutions for collaboration (IFC) are formal and informal organizations that
  - facilitate the exchange of information and technology
  - conduct joint activities
  - foster coordination among firms
- IFCs can improve the business environment by
  - creating **relationships** and level of trust that make them more effective
  - defining of common standards
  - conducting or facilitating the organization of collective action in areas such as procurement, information gathering, or international marketing
  - defining and communicating common beliefs and attitudes
  - providing mechanisms to develop a common economic or cluster agenda

## Institutions for Collaboration <u>Selected Institutions for Collaboration, San Diego</u>

### General

- San Diego Chamber of Commerce
- San Diego MIT Enterprise Forum
- Corporate Director's Forum
- San Diego Dialogue
- Service Corps of Retired Executives, San Diego
- San Diego Regional Economic Development Corporation
- Center for Applied Competitive Technologies
- San Diego World Trade Center
- UCSD Alumni
- San Diego Regional Technology Alliance
- San Diego Science and Technology Council
- Office of Trade and Business Development

### **Cluster-Specific**

#### **Telecommunication**

Linkabit Alumni

#### **Biotech**

- Hybritech Alumni
- Scripps Research Institute Alumni
- BIOCOMM
- UCSD Connect

Source: Clusters of Innovation project (www.compete.org)

## **Stages Of Competitive Development**



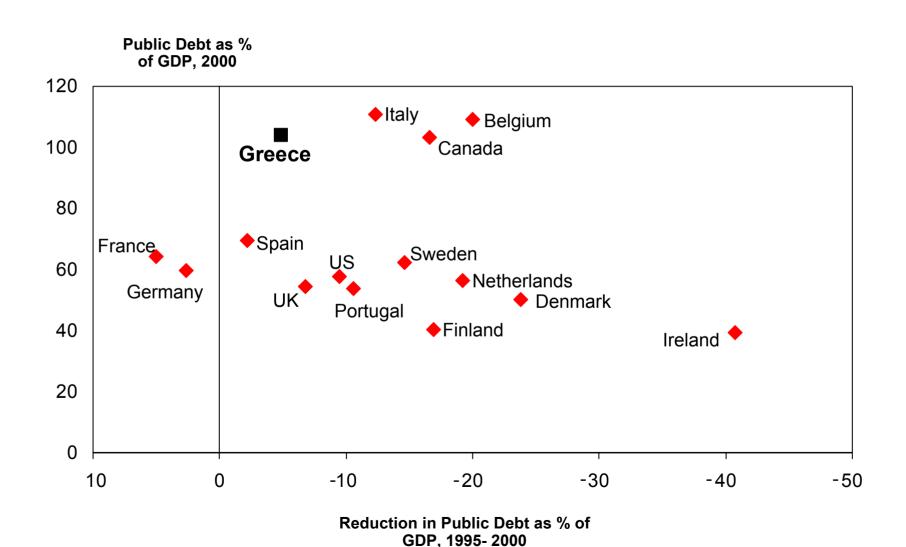
Source: Porter, Michael E., The Competitive Advantage of Nations,

The Free Press: New York (1990)

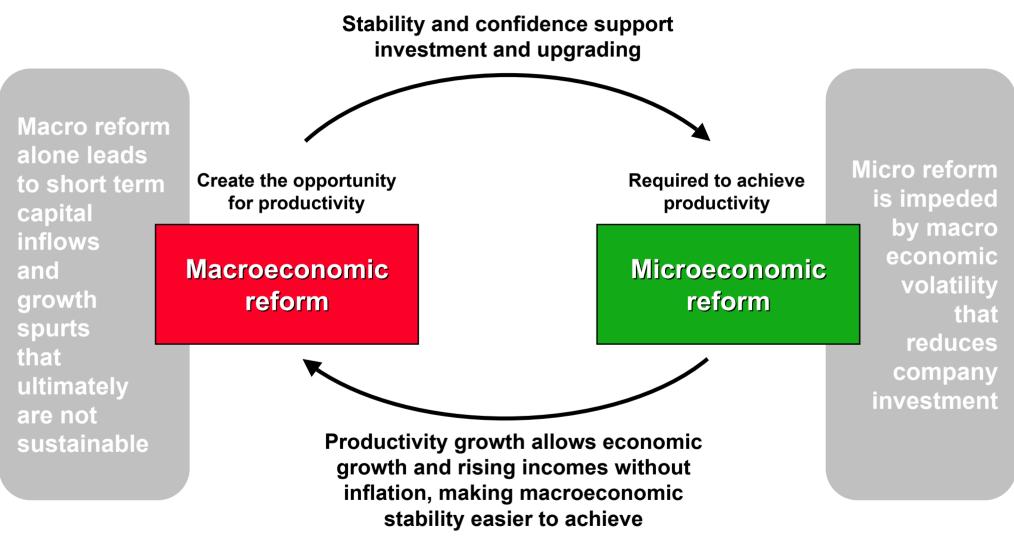
## **Greece's Competitiveness Agenda 2003**

- Continue the macroeconomic progress
- Upgrade the business environment
- Foster cluster development
- Create a regional strategy for Southeast Europe
- Shift the roles of government and business in economic development

## Macroeconomic Consolidation Public Debt, Selected Countries



## Integration of Macro- and Microeconomic Reforms



## **Greece's Competitiveness Agenda 2003**

- Continue the macroeconomic progress
- Upgrade the business environment
- Foster cluster development
- Create a regional strategy for Southeast Europe
- Shift the roles of government and business in economic development



## Factor (Input) Conditions <a href="#">Greece's Relative Position</a>

## Competitive Advantages Relative to GDP per Capita

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

Availability	∕ of Scien	itists and E	ingineers	21

Ease of Access to Loans 31

University/Industry Research Collaboration 34

Judicial Independence 364

Local Equity Market Access 364>

Telephone/Fax Infrastructure Quality 38

Venture Capital Availability 38

Financial Market Sophistication 401

Extent of Bureaucratic Red Tape 41

Intellectual Property Protection 41

## Competitive Disadvantages Relative to GDP per Capita

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

Quality of Management Schools 62

Administrative Burden for Start-Ups 61

Quality of Public Schools 52

Quality of Scientific Research Institutions 51

Electricity Supply Quality 49

Overall Infrastructure Quality 48

Port Infrastructure Quality 48

Railroad Infrastructure Quality 48

Police Protection of Businesses 47

Adequacy of Public Sector Legal Recourse 43

Air Transport Infrastructure Quality 43

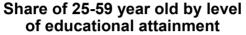
Quality of Math and Science Education 42

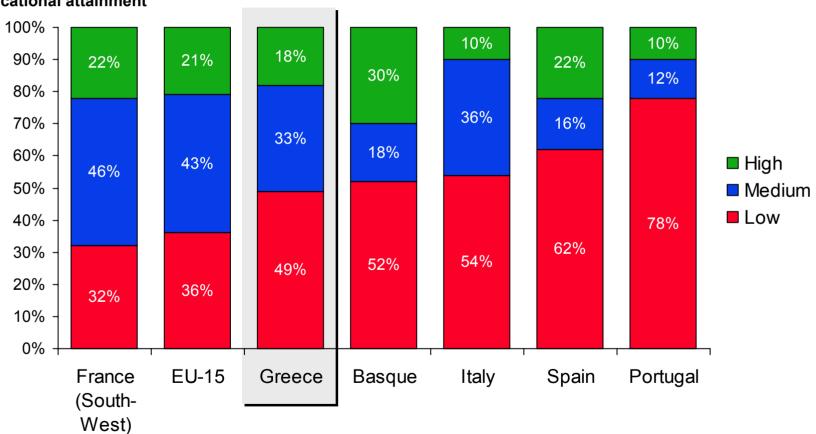
Note: Rank by countries; overall Greece ranks 43 out of 80 countries (41 on National Business Environment, 28 on GDP pc 2001)

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## Educational Attainment Southern European Countries and Regions





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## **U.S. Patenting by Greek Institutions**

Organization	U.S. Patents Issued from 1996 to 2001
1 INNOVAL MANAGEMENT LIMITED	6
2 INSTITUTE FOR MOLECULAR BIOLOG BIOTECHNOLOGY/FORTH	GY & 5

## **Patents by Organization Commonwealth of Massachusetts**

	Organization	Patents Issued from 1997 to 2001
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	518
2	GENERAL HOSPITAL CORPORATION	296
3	EMC CORPORATION	269
4	DIGITAL EQUIPMENT CORPORATION	261
5	POLAROID CORPORATION	213
6	ANALOG DEVICES, INC.	167
7	MILLENNIUM PHARMACEUTICALS, INC.	165
8	HARVARD UNIVERSITY	150
9	COMPAQ COMPUTER CORPORATION, INC.	147
10	SUN MICROSYSTEMS, INC.	143
11	BOSTON SCIENTIFIC CORPORATION	135
12	ACUSHNET COMPANY	130
13	GENETICS INSTITUTE, INC.	127
14	GILLETTE COMPANY	112
15	BRIGHAM AND WOMEN'S HOSPITAL	107
16	RAYTHEON COMPANY	101
17	GENERAL ELECTRIC COMPANY	99
18	HEWLETT-PACKARD COMPANY	96
19	CHILDREN'S MEDICAL CENTER CORPORATION	93
20	QUANTUM CORP. (CA)	93
21	COGNEX CORPORATION	90
22	DANA-FARBER CANCER INSTITUTE	90
23	JOHNSON & JOHNSON PROFESSIONAL INC.	90
24	BOSTON UNIVERSITY	84
25	SEPRACOR INC.	84

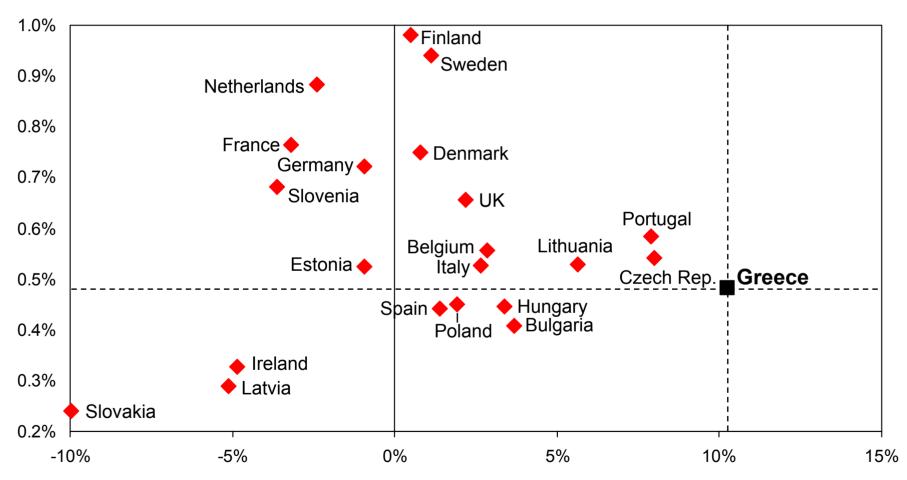
Note: Shading indicates universities, research institutions, and other government agencies

Source: US Patent and Trademark Office (www.uspto.gov). Author's analysis. CAON Greece 2003 05-08-03 CK.ppt



## Government R&D Spending Selected European Countries

Public R&D Spending as % of GDP, 2001 (or last available)



Change of Public R&D Spending as % of GDP, last three years

Context for Firm Strategy and Rivalry

## Context for Firm Strategy and Rivalry <a href="#">Greece's Relative Position</a>

## Competitive Advantages Relative to GDP per Capita

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

Tariff Liberalization	8 行
Costs of Other Firms' Illegal/	31

Unfair Activities

Hidden Trade Barrier Liberalization 31

Effectiveness of Anti-Trust Policy 40 1

Intensity of Local Competition 41

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

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

Efficacy of Corporate Boards

6

43

Cooperation in Labor-Employer Relations 56

Extent of Distortive Government Subsidies 50 4

Favoritism in Decisions of Government 50 4

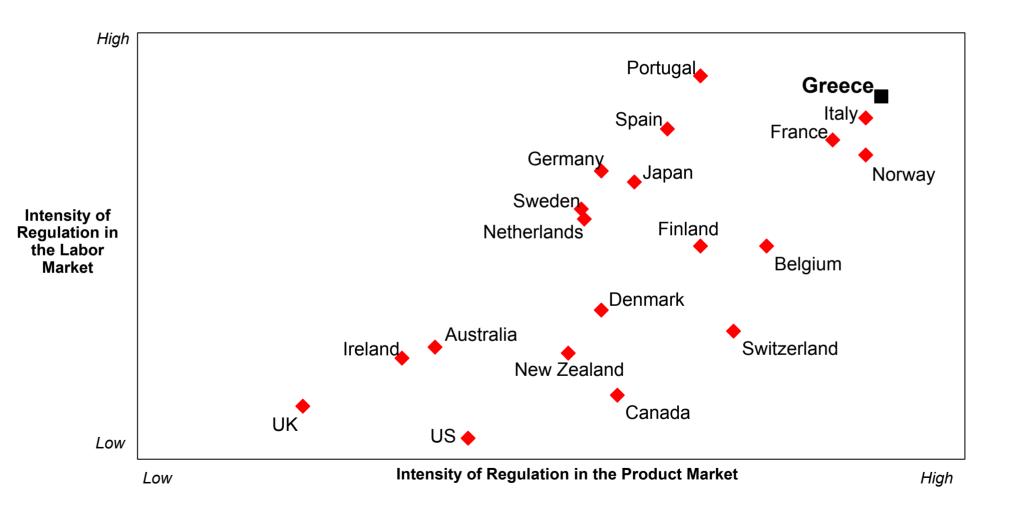
Decentralization of Corporate Activity

Extent of Locally Based Competitors 42

lote: Rank by countries; overall Greece ranks 43 out of 80 countries (41 on National Business Environment, 28 on GDP pc 2001)

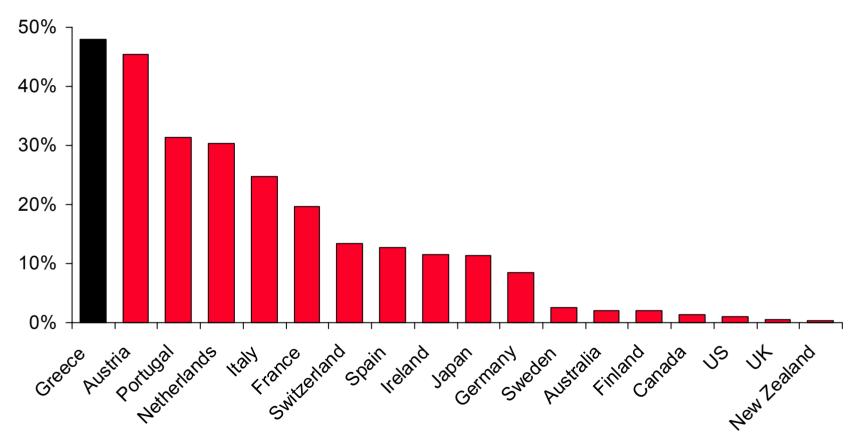
35

## Regulation of Product and Labor Markets <u>Selected OECD Countries</u>



## Ease of Business Formation Selected OECD Countries

## Cost of Business Formation relative to GDP per capita





# Demand Conditions <a href="#">Greece's Relative Position</a>

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

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

**Buyer Sophistication** 

37

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

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

Laws Relating to Information Technology 67

Government Procurement of Advanced 56

Technology Products

Consumer Adoption of Latest Products 52

Stringency of Environmental Regulations 50

Note: Rank by countries; overall Greece ranks 43 out of 80 countries (41 on National Business Environment, 28 on GDP pc 2001)

Related and Supporting Industries

# Related and Supporting Industries <a href="#">Greece's Relative Position</a>

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

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

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

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

State of Cluster Development	67
Extent of Product and Process Collaboration	65
Local Availability of Components and Parts	60
Local Availability of Specialized Research and Training Services	57

Local Supplier Quality 49

Local Availability of Process Machinery

Local Supplier Quantity 47

Note: Rank by countries; overall Greece ranks 43 out of 80 countries (41 on National Business Environment, 28 on GDP pc 2001)

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# Company Operations and Strategy <a href="#">Greece's Relative Position 2002</a>

# Competitive Advantages Relative to GDP per Capita

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

Extent of Marketing 30

Control of International Distribution 38

Value Chain Presence 40

Production Process Sophistication 42

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

Country Ranking, Arrows indicate a change of 5 or more ranks since 1998

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	_		_	_					_		_

Willingness to Delegate Authority 63

Capacity for Innovation 57

Extent of Staff Training 57

Company Spending on R&D 56

Breadth of International Markets 47

Extent of Branding 47

Extent of Incentive Compensation 47

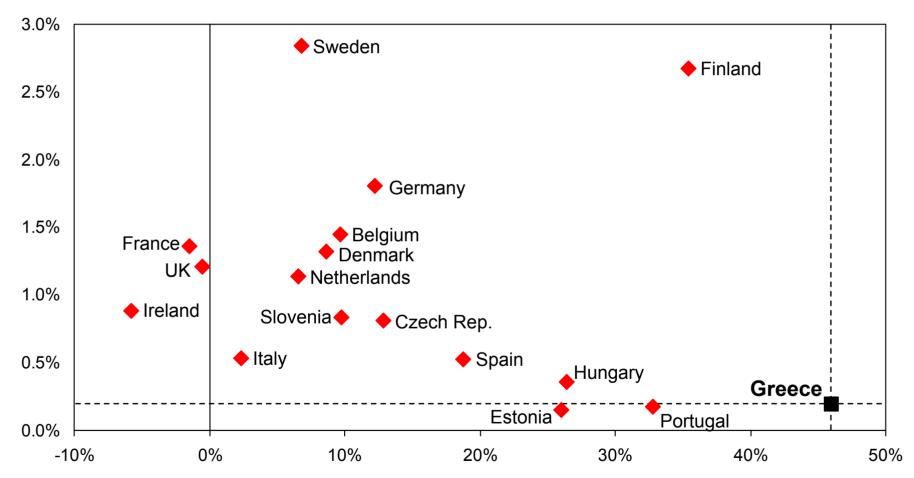
Degree of Customer Orientation 44

lote: Rank by countries; overall the Greece ranks 43 out of 80 countries (47 on Company Operations and Strategy, 28 on GDP pc 2001)

Source: Global Competitiveness Report 2002

# Private R&D Spending Selected European Countries

## Public R&D Spending as % of GDP, 2001 (or last available)

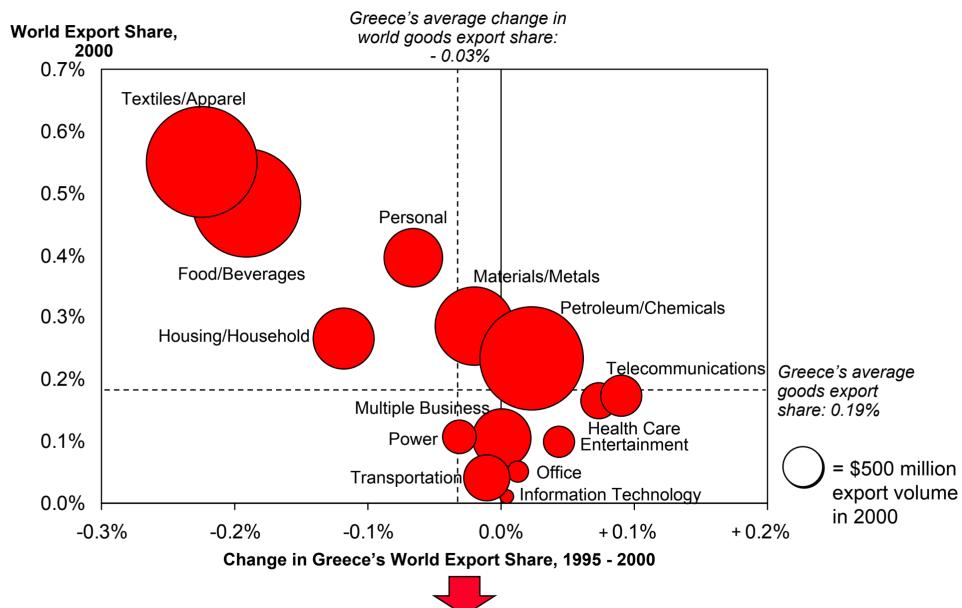


Change of Public R&D Spending as % of GDP, last three years

## **Greece's Competitiveness Agenda 2003**

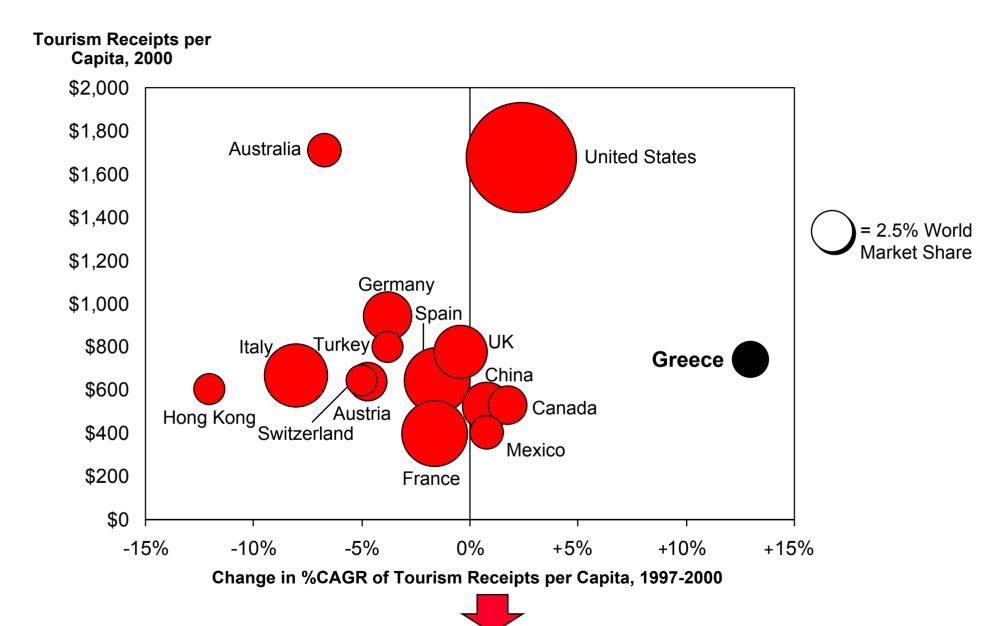
- Continue the macroeconomic progress
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- Shift the roles of government and business in economic development

# **Greek Export Performance By Broad Sector**<u>1995-2000</u>



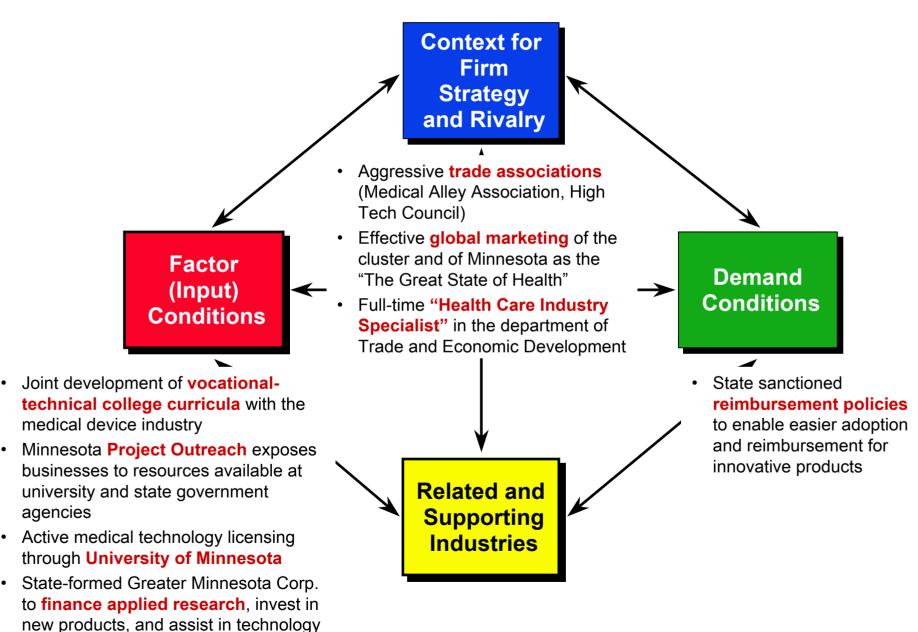
Greece is loosing position in some of its largest export clusters

### **Tourism Cluster Performance**

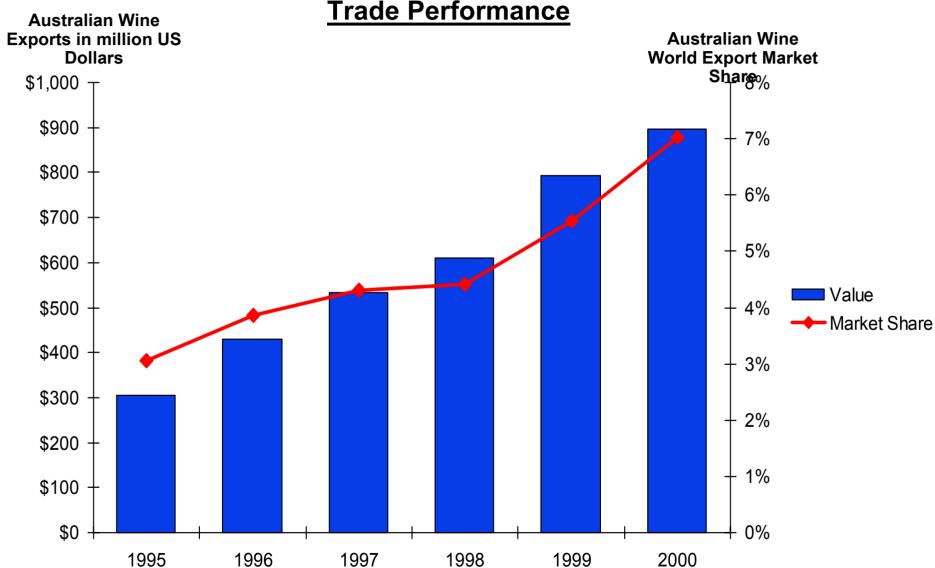


Greece has a strong tourism cluster that increased revenues per tourists in the last few years

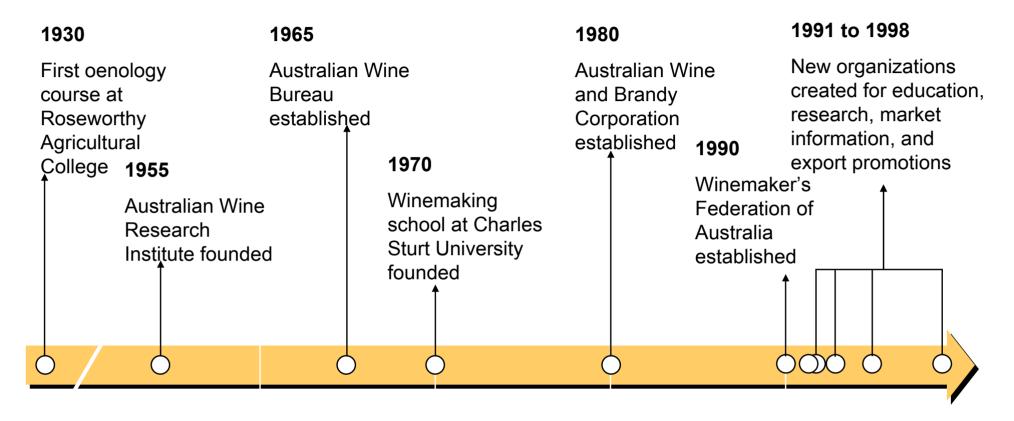
## Public / Private Cooperation in Cluster Upgrading Minnesota's Medical Device Cluster



# The Australian Wine Cluster <a href="Trade Performance">Trade Performance</a>



## The Australian Wine Cluster History



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

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# 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

#### **Australian Wine Export Council**

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

#### Wine Industry Information Service

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

#### **Cooperative Centre for Viticulture**

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

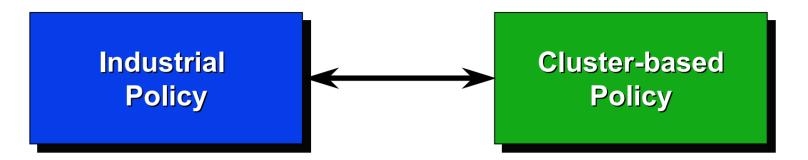
## Wine Industry National Education and Training Council

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

# Appropriate Roles of Government in Cluster Development

- A successful cluster policy builds on sound overall economic policies
- Government should support the development of all clusters, not choose among them
- Government policy should reinforce established and emerging clusters rather than attempt to create entirely new ones
- Government's role in cluster initiatives is as facilitator and participant. The most successful cluster initiatives are a publicprivate partnership

### **Cluster Policy versus Industrial Policy**



- Target desirable industries / sectors
- Focus on domestic companies
- Intervene in competition (e.g., protection, industry promotion, subsidies)
- Centralizes decisions at the national level

- All clusters can contribute to prosperity
- Domestic and foreign companies both enhance productivity
- Relax impediments and constraints to productivity
- Emphasize cross-industry linkages / complementarities
- Encourage initiative at the state and local level

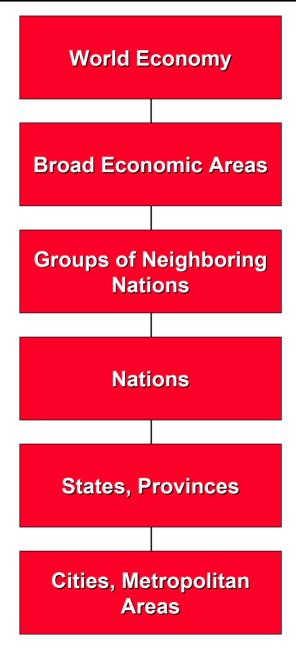




## **Greece's Competitiveness Agenda 2003**

- Continue the macroeconomic progress
- Upgrade the business environment
- Foster cluster development
- Create a regional strategy for Southeast Europe
- Shift the roles of government and business in economic development

# Influences on Competitiveness <u>Multiple Geographic Levels</u>



## **Cross-National Regions and Economic Strategy**

#### **Traditional Views**

 Regions as free trade zones; regions as economic unions (e.g., United States, European Union)



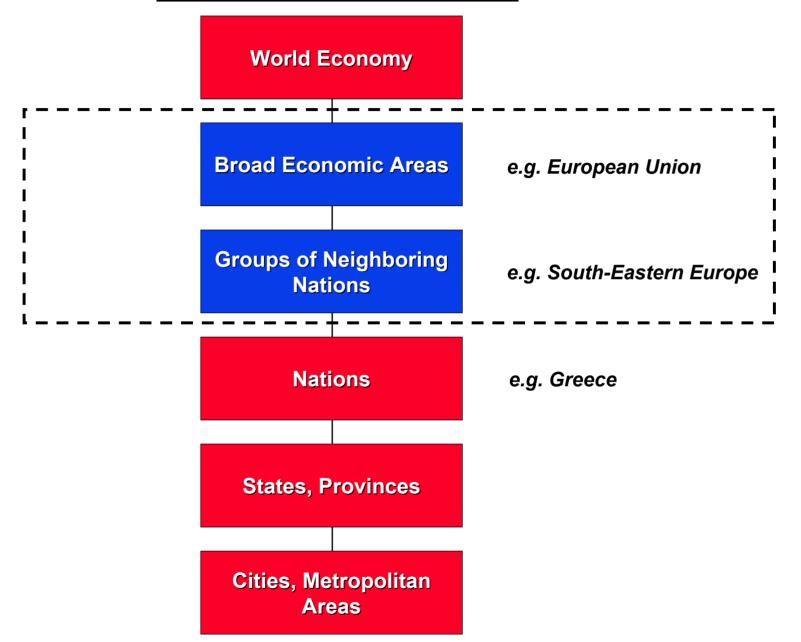
#### **New View**

- A regional strategy as a powerful tool to enhance competitiveness in autonomous countries
- Internal trade and investment
  - Gains from internal trade and investment

**AND** 

- Company operations and strategy
  - Enhancing the competitive capability of firms
  - Expanding trade in non-traditional export industries
- Business environment
  - Mutual benefits to the productivity of the business environment through policy coordination that captures external economies and the benefits of specialization in institutions and infrastructure across borders
- Cluster development
  - Cross-border cluster specialization and integration
- Foreign investment
  - Enhancing interest and investment in the region by the international community
- Economic policy process
  - Improving economic policy formulation and implementation at the national level

# Cross-National Economic Coordination Alternate Geographic Levels



# Cross-National Economic Coordination <a href="Illustrative Policy Areas">Illustrative Policy Areas</a>

Factor (Input) Conditions

- Improve regional transportation infrastructure
- Create an efficient energy network
- Upgrade/link regional communications
- Upgrade/link financial markets
- Upgrade higher education through facilitating specialization and student exchanges
- Expand cross-border business and financial information access and sharing
- Coordinate activities to ensure personal safety

Context for Strategy and Rivalry

- Coordinate macroeconomic policies
- Eliminate trade and investment barriers within the region
- Simplify cross-border regulations and paperwork
- Guarantee minimum basic investor protections

- Agree on foreign investment promotion guidelines to limit forms of investment promotion that do not enhance productivity
- Coordinated competition policy

Demand Conditions

- Set minimum environmental standards
- Set minimum safety standards
- Establish reciprocal consumer protection laws

Related and Supporting Industries

- Establish ongoing upgrading process in clusters that cross national borders, e.g.
  - Tourism
  - Agribusiness
  - Textiles and Apparel
  - Information Technology

Regional Governance

- Share best practices in government operations
- Improve regional institutions
  - Regional development bank
  - Dispute resolution mechanisms
  - Policy coordination body
- Develop a regional marketing strategy

## **Greece's Competitiveness Agenda 2003**

- Continue the macroeconomic progress
- Upgrade the business environment
- Foster cluster development
- Create a regional strategy for Southeast Europe
- Shift the roles of government and business in economic development

## **Shifting Responsibilities for Economic Development**

### **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 institutions for collaboration

### **Roles of Government in Economic Development**

### Macroeconomic, political, legal, and social context

- Establish a stable and predictable macroeconomic, legal, and political environment
- Improve the social conditions of citizens

### General microeconomic 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

### Clusters

Facilitate cluster development and upgrading

### Process of Economic Change

 Create institutions and processes for upgrading competitiveness that inform citizens and mobilize the private sector, government at all levels, educational and other institutions, and civil society to take action

## **Role of the Private Sector in Economic Development**

- A company's competitive advantage is partly the result of the local environment
- Company membership in a cluster offers collective benefits
- Private investment in "public goods" is justified



- Take an active role in upgrading the local infrastructure
- Nurture local suppliers and attract new supplier investments
- Work closely with local educational and research institutions to upgrade quality and create specialized programs addressing cluster needs
- Provide government with information and substantive input on regulatory issues and constraints bearing on cluster development
- Focus corporate philanthropy on enhancing the local business environment



- An important role for trade associations
  - Greater influence
  - Cost sharing

### **Selected References**

- The Competitive Advantage of Nations, New York: The Free Press, 1990
- "Clusters and the New Competitive Agenda for Companies and Governments" in <u>On Competition</u>, Boston: Harvard Business School Press, 1998
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- "Building the Microeconomic Foundations of Prosperity: Findings from the Microeconomic Competitiveness Index" in <u>The Global Competitiveness Report 2002-03</u>, New York: Oxford University Press, forthcoming 2002
- "Location, Competition, and Economic Development: Local Clusters in a Global Economy," (<u>Economic Development Quarterly</u>, February 2000, 15-34)
- "Locations, Clusters, and Company Strategy" in <u>The Oxford Handbook of Economic Geography</u>, (G. L. Clark, M.P. Feldman, and M.S. Gertler, eds.), New York: Oxford University Press, 2000

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• "Attitudes, Values, Beliefs and the Microeconomics of Prosperity," in <u>Culture Matters: How Values</u> Shape Human Progress, (L.E. Harrison, S.P. Huntington, eds.), New York: Basic Books, 2000

### Web resources

Institute for Strategy and Competitiveness

www.isc.hbs.edu

ISC Cluster Mapping Data (US)

data.isc.hbs.edu/isc/index.jsp

- Cluster of Innovation Initiative
  - Council on Competitiveness
  - Monitor Company

www.compete.org

www.monitor.com