# Competitiveness for the Third Millennium: Implications for Croatia

Professor Michael E. Porter Harvard Business School

> CEO Agenda Forum Zagreb, Croatia May 15, 2009

This presentation draws on ideas from Professor Porter's books and articles, in particular, *Competitive Strategy* (The Free Press, 1980); *Competitive Advantage* (The Free Press, 1985); "What is Strategy?" (*Harvard Business Review*, Nov/Dec 1996); "Strategy and the Internet" (*Harvard Business Review*, March 2001); and a forthcoming book. 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. Additional information may be found at the website of the Institute for Strategy and Competitiveness, <a href="https://www.isc.hbs.edu">www.isc.hbs.edu</a>. Version: May 13, 2pm

#### The Croatian Economy in 2009

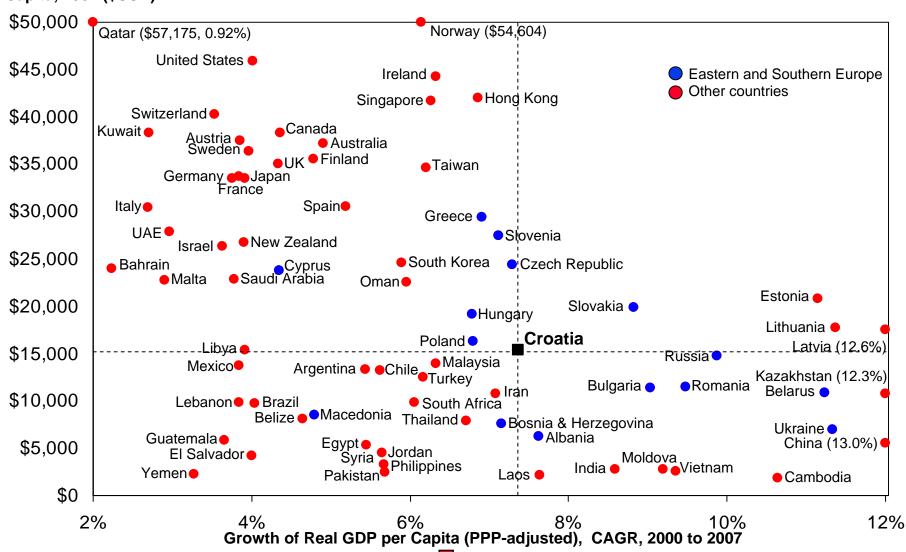
- Croatia has experienced solid growth rates over the last few years, taking advantage of the transition to a market economy
- The global economic crisis is now starting to take its toll



- Despite the recent period of growth, however, Croatia is facing serious competitiveness challenges
- Croatia needs to address these issues aggressively instead of hoping for an automatic return to growth after the crisis or that EU ascension is sufficient
- Croatia lacks a clear strategy and an effective implementation mechanism for improving competitiveness

### **Prosperity Performance Selected Countries**





Croatia has benefited from the end of conflict and market reforms

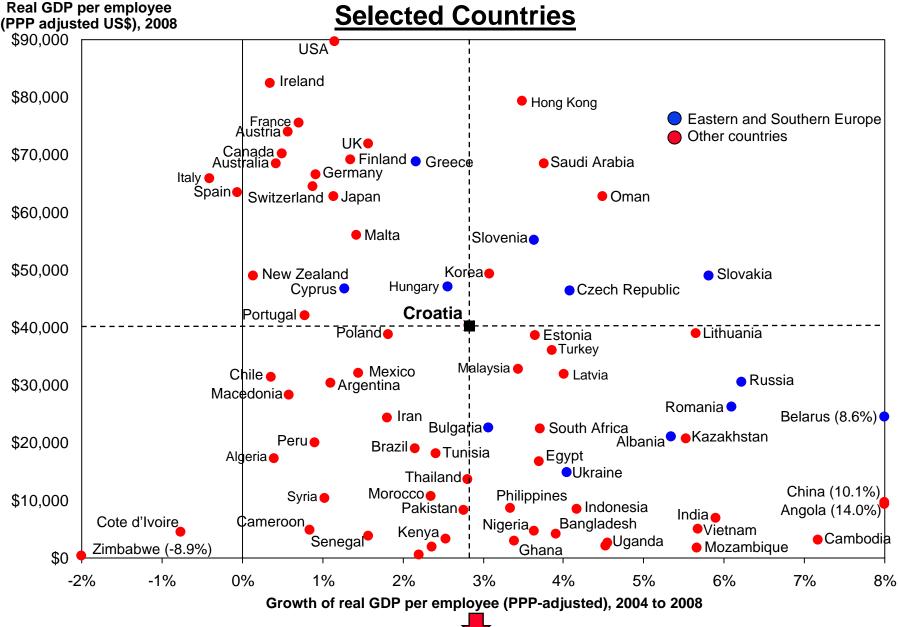
#### What is Competitiveness?

- Competitiveness depends on the productivity with which a nation uses its human, capital, and natural resources.
  - Productivity sets the sustainable standard of living (wages, returns on capital, returns on natural resources)
  - It is not what industries a nation competes in that matters for prosperity, but how productively it competes in those industries
  - Productivity in a national economy arises from a combination of domestic and foreign firms
  - The productivity of "local" or domestic industries is fundamental to competitiveness, not just that of export industries



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

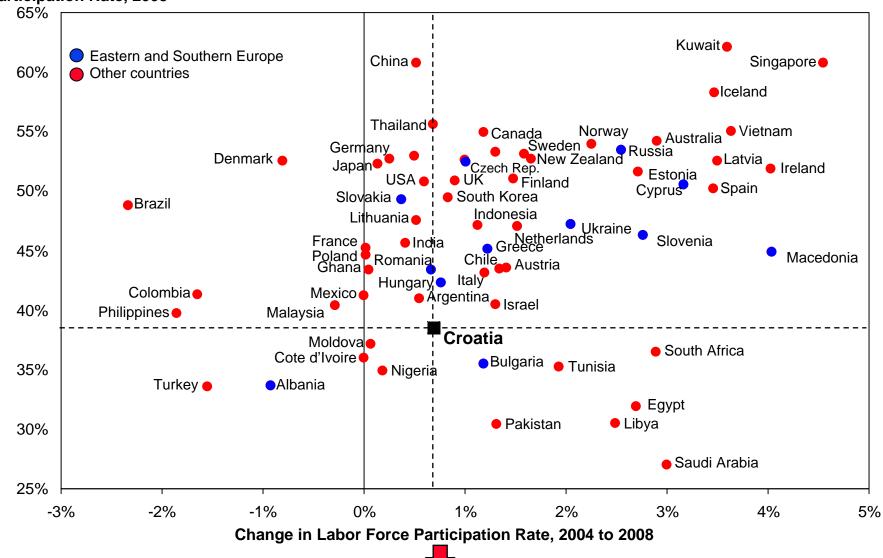
### Comparative Labor Productivity



• Croatia's labor productivity is lagging, and overstated by low workforce participation

### **Labor Force Utilization** Participation Rates, Selected Countries

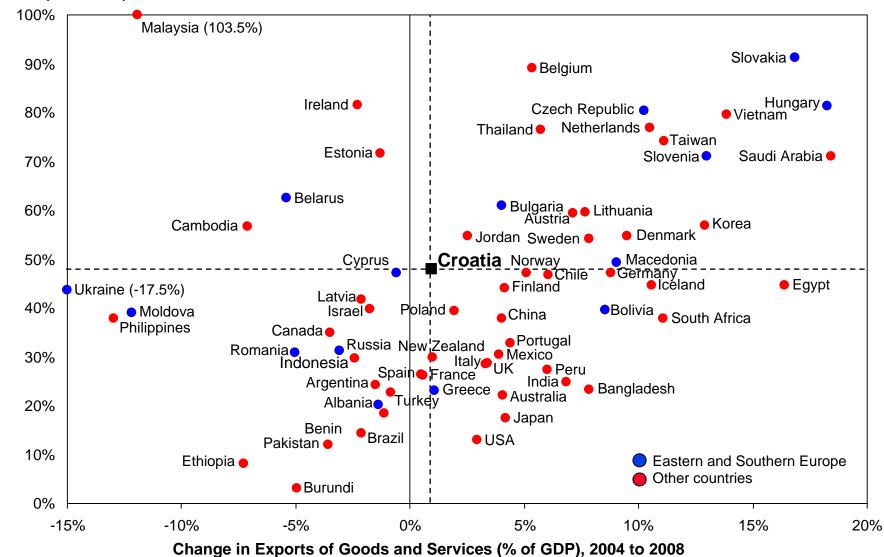
**Labor Force** Participation Rate, 2008



Croatia is caught in a trap where low productivity retards job growth, but unemployment retards needed reforms Source: Economist Intelligence Unit (2009)

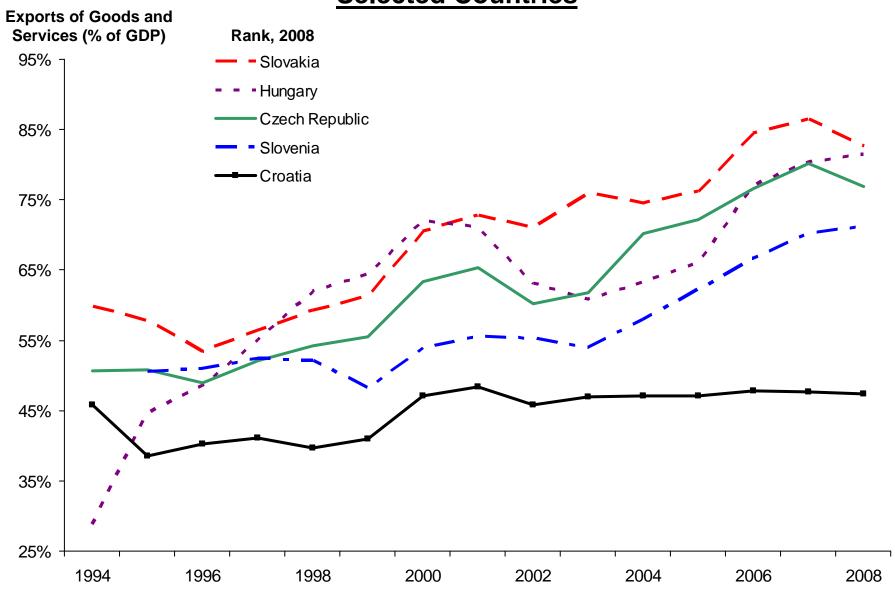
### **Export Performance Selected Countries**

Exports of Goods and Services (% of GDP), 2008



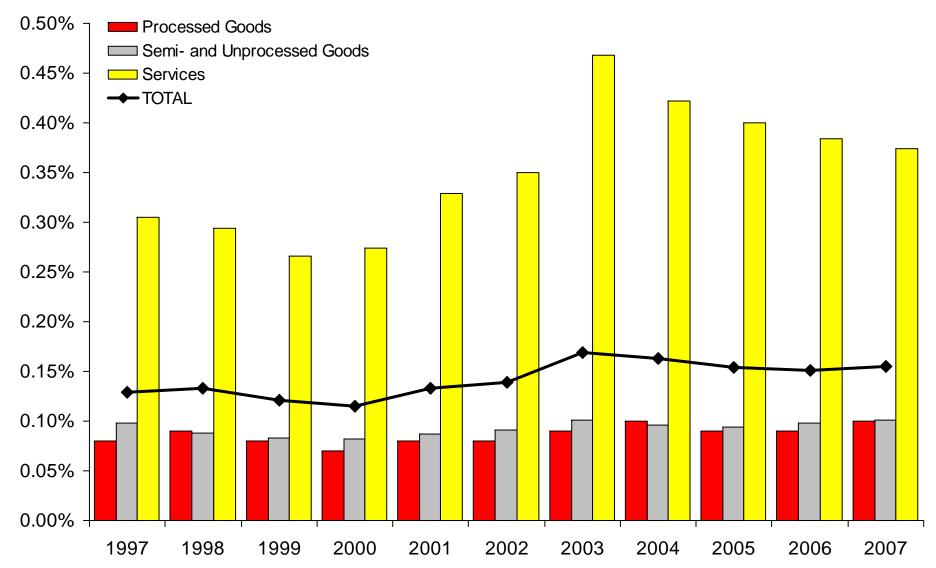
Croatia's export growth is lagging

# **Export Performance Selected Countries**



### **Croatia's Exports By Type of Industry**

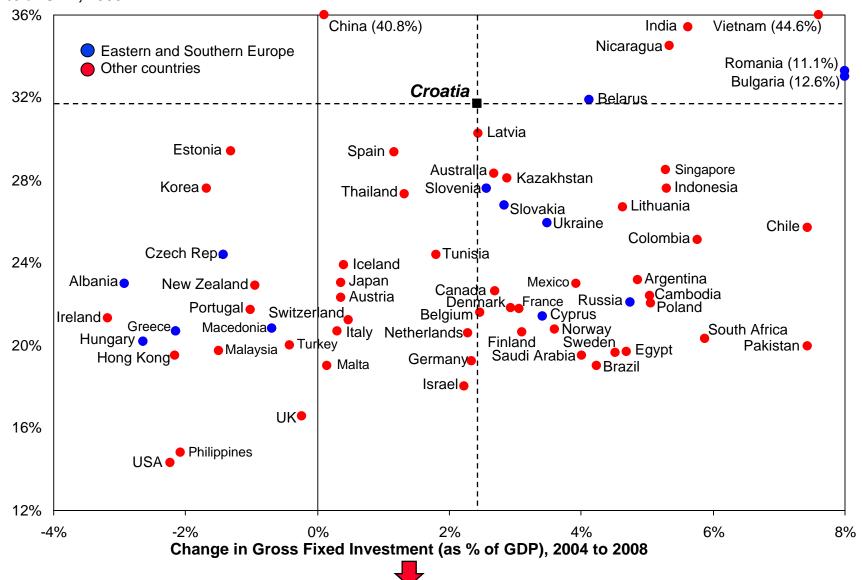
### World Export Market Share (current USD)



Source: UNComTrade, WTO (2008)

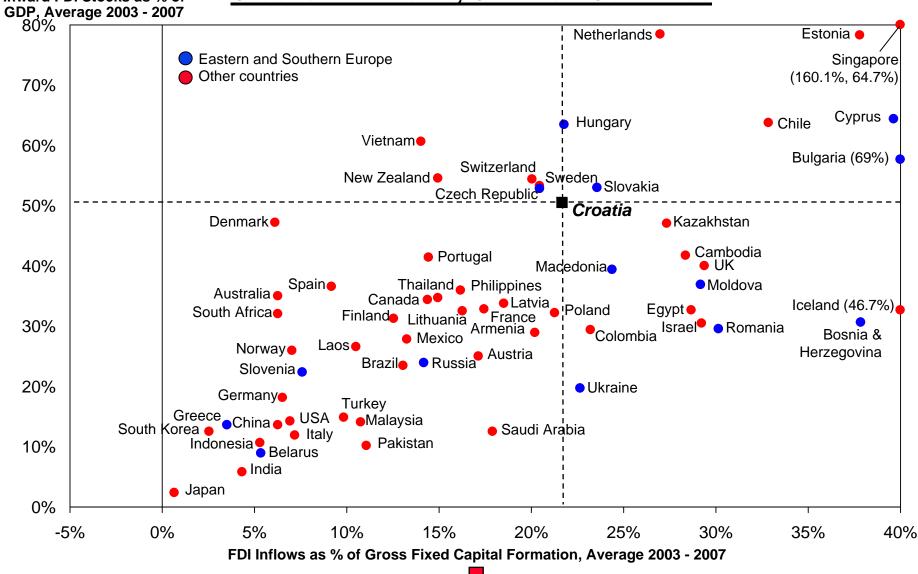
## Domestic Fixed Investment Rates Selected Countries





High investment is due to catch-up investments and FDI driven by privatization

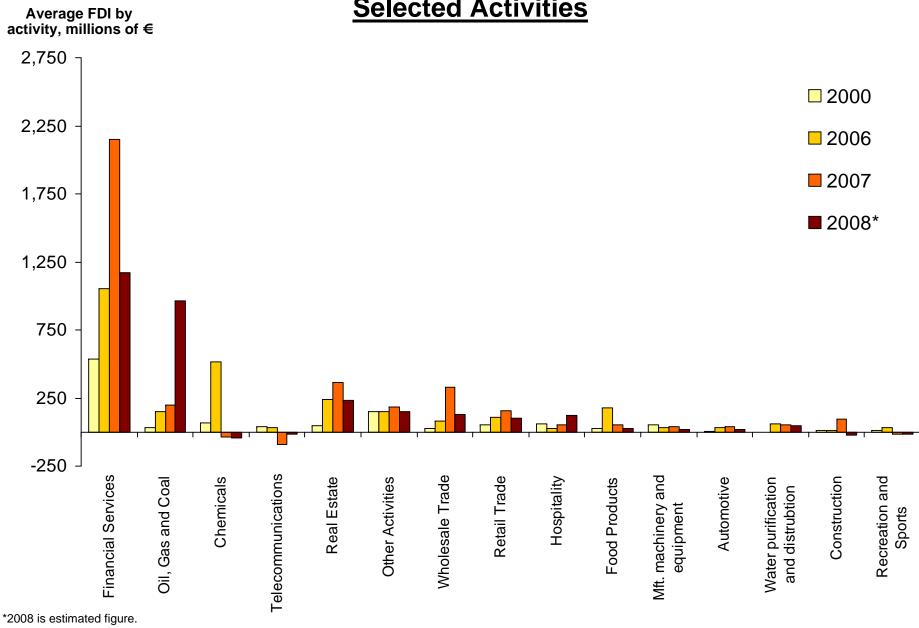
## Inbound Foreign Investment Performance Stocks as % of Stocks and Flows, Selected Countries



Foreign direct investment inflows have been a **key driver** of economic growth, but most are due to privatization rather than greenfield investments

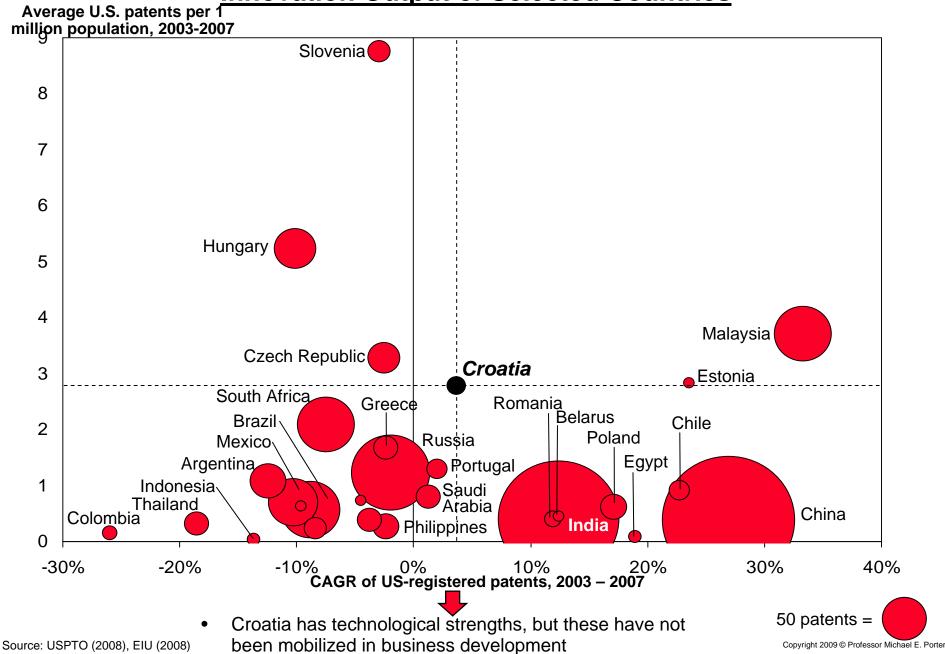
Source: UNCTAD, World Investment Report (2009)

# Foreign Investment in Croatia Selected Activities

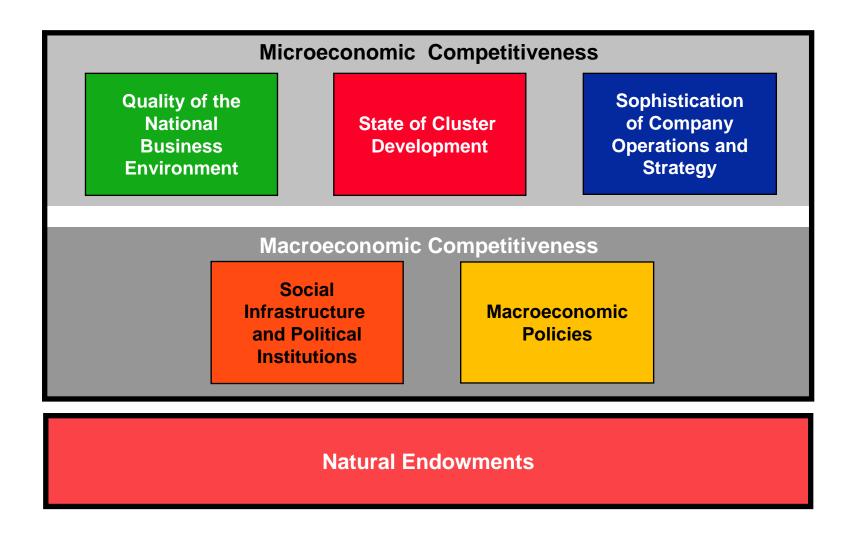


Source: Foreign Direct Investment in Croatia (by activity), Croatian National Bank, 2009 20090515 - CAON Crotia.ppt 12

## Innovative Capacity Innovation Output of Selected Countries



#### **Causes of Competitiveness**



 Productivity ultimately depends on improving the microeconomic capability of the economy and the sophistication of local competition

### **Macroeconomic Competitiveness**

### Social Infrastructure and Political Institutions

- Basic human capacity
  - Education
  - Health
- Safety and security
- Political institutions
- Rule of law

### Macroeconomic Policies

- Fiscal policy
- Monetary policy

### **Croatia's Competitiveness Progress on the Competitiveness Index**

	2007	2008
Estimated Ranking: New Global Competitiveness Index		63
Macroeconomic Competitiveness	67	68
Social Infrastructure and Political Institutions Macroeconomic Policy	58 91	59 84
Microeconomic Competitiveness		69
GDP Per Capita Rank (ppp-adjusted)	48	48

Note: Rank versus 130 countries; overall, Croatia ranks 48th in 2008 PPP adjusted GDP per capita and 63rd in Global Competitiveness Source: Institute for Strategy and Competitiveness, Harvard University (2009) 16

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#### **Governance Indicators Selected Countries**

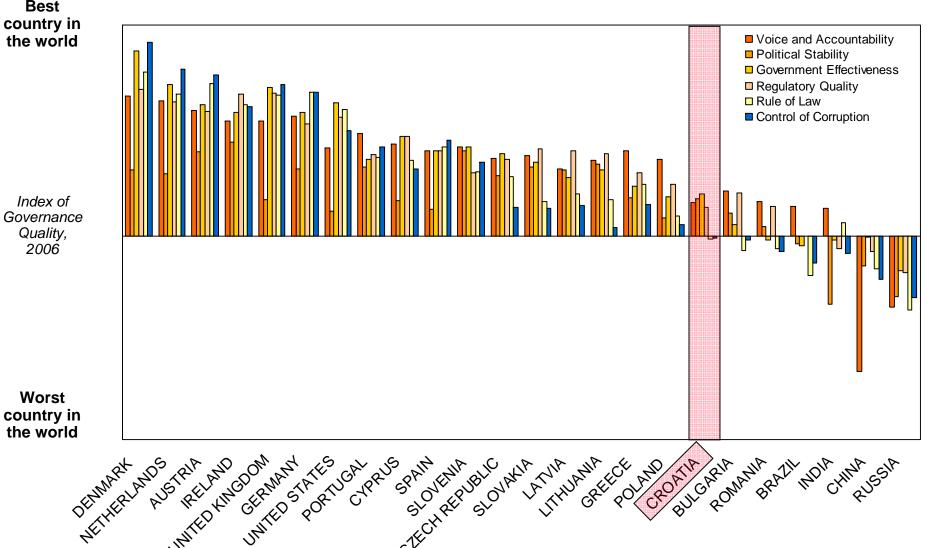


Index of

Quality, 2006

Worst

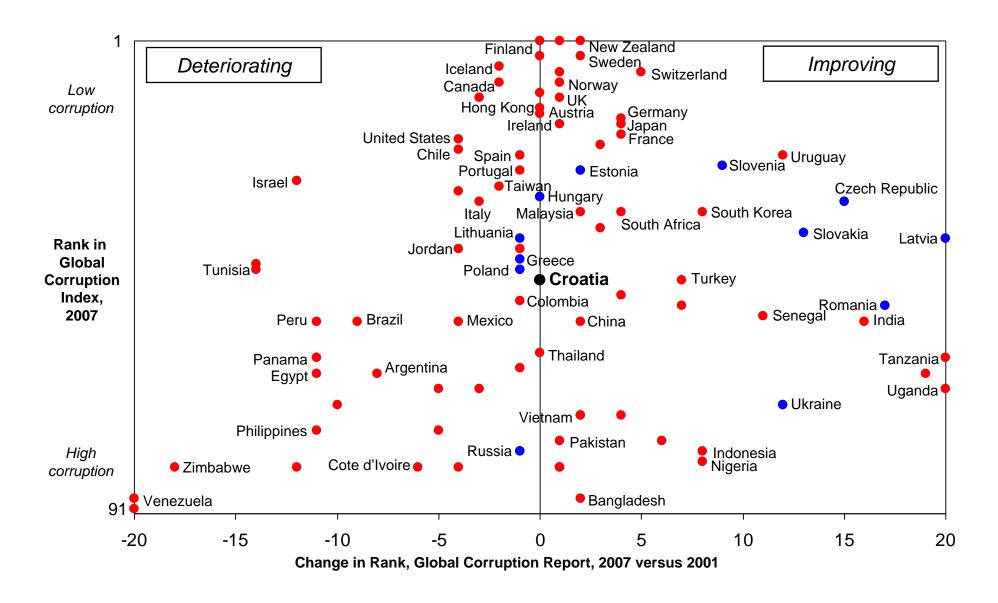
the world



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 (2008) 20090515 - CAON Crotia.ppt

#### **Corruption Perception Index, 2007**



Note: Ranks only countries available in both years (91 countries total)

#### **Macroeconomic Competitiveness**

- Croatia has a solid position in terms of basic human development indicators, in line with many other former Communist countries
- Croatia has made some progress on macroeconomic policy indicators, but the current global crisis will test the sustainability of these improvements
  - Croatia has been running high current account deficits for the last decade
- Croatia remains a regional laggard in terms of political and legal institutional quality and there are few signs of fundamental improvements

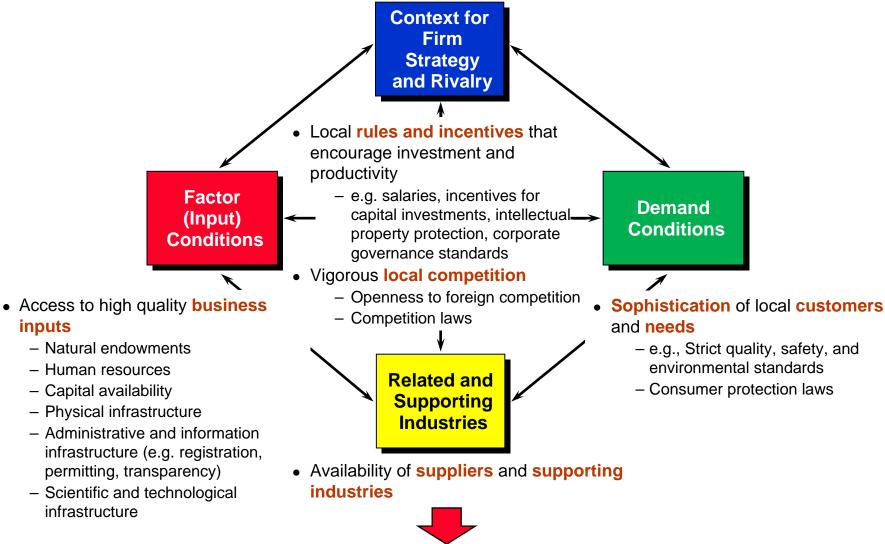


- Croatia's government is much too big
- Croatia has much work to do to improve its macroeconomic competitiveness, especially its institutions

### **Croatia's Position Microeconomic Competitiveness**

	2007	2008
Estimated Microeconomic Competitiveness Index	60	69
National Business Environment	63	69
Company Operations and Strategy	58	64

# Microeconomic Competitiveness: Quality of the Business Environment



- Many things matter for competitiveness
- Successful economic development is a process of successive upgrading, in which the business environment improves to enable increasingly sophisticated ways of competing

Factor (Input) Conditions

## Factor (Input) Conditions <a href="#">Croatia's Relative Position 2008</a>

Competitive Advantages Relative to GDP per Capita	
Mobile telephone subscribers per 100 population	26分
Telephone lines per 100 population	30
Quality of roads	30分
Quality of math and science education	35√
Internet users per 100 population	35
Utility patents per million population	36
Ease of starting a new business	42√
Personal computers per 100 population	43
Quality of telephone infrastructure	44√
Quality of electricity supply	44
Quality of railroad infrastructure	44
Number of procedures required to start a business	44
Quality of scientific research institutions	47分
Change up/down of more than 5 ranks since 2007	

Competitive Disadvantages Relative to GDP per Capita	
Protection of minority shareholders' interests	101 🗸
Burden of government regulation	97
Time required to start a business	91
Venture capital availability	87 🗸
Quality of port infrastructure	84
Quality of air transport infrastructure	83 🗸
Ease of access to loans	81 🗸
Brain drain	80 🗸
Quality of management schools	76
Regulation of securities exchanges	74
Financial market sophistication	71√
Burden of customs procedures	63 🗘
Quality of the educational system	62
Demand conditions	61
Soundness of banks	60 ₹
University-industry research collaboration	51 √
Tertiary enrollment	49

Note: Rank versus 130 countries; overall, Croatia ranks 48th in 2008 PPP adjusted GDP per capita and 63rd in Global Competitiveness

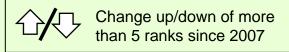
Source: Institute for Strategy and Competitiveness, Harvard University (2009)

Context for Firm Strategy and Rivalry

### Context for Strategy and Rivalry Croatia's Relative Position 2008

### Competitive Advantages Relative to GDP per Capita

Low Tariff rates 34

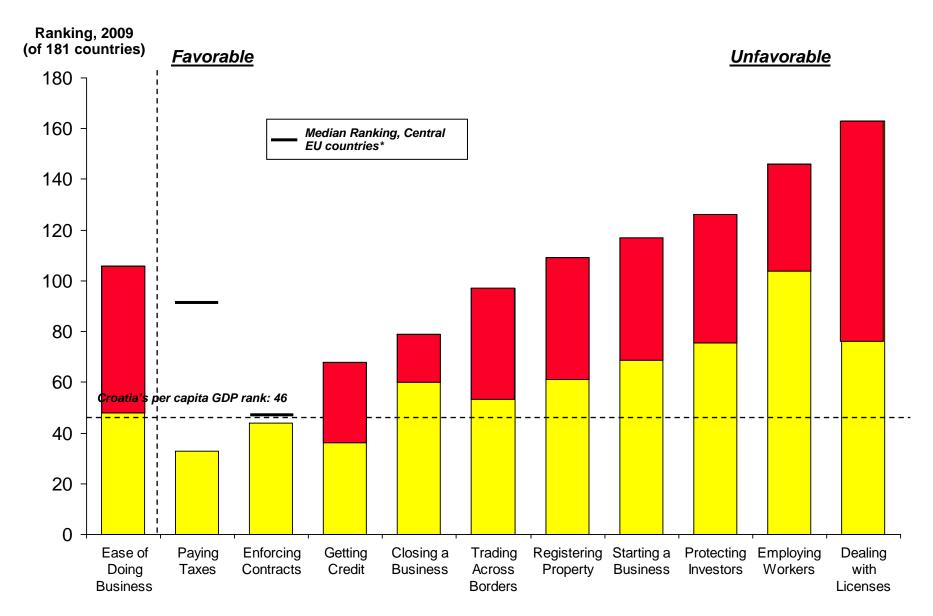


Competitive Disadventeges	
Competitive Disadvantages	
Relative to GDP per Capita	
Business impact of rules on FDI	114 🗸
Cooperation in labor-employer relations	110
Low market disruption from state-owned enterprises	110
Impact of taxation on incentives to work and invest	103 🗸
Rigidity of employment	102
Effectiveness of antitrust policy	98 🗸
Extent of market dominance by business groups	98 🐧
Efficacy of corporate boards	98
Strength of investor protection	95
Pay and productivity	88 🗸
Distortive effect of taxes and subsidies on competition	80 🕁
Restrictions on capital flows	76
Strength of auditing and reporting standards	76 √
Prevalence of trade barriers	73 🔨
Intensity of local competition	71
Intellectual property protection	68 🗸
Regulatory quality	54



On some indicators, Croatia is ranked at the level of some African countries

### **Doing Business Indicators**



<sup>\*</sup> Central European EU countries include: Austria, Bulgaria, the Czech Republic, Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia Source: World Bank Report, Doing Business (2009)



### **Demand Conditions Croatia's Relative Position 2008**

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



### **Competitive Disadvantages** Relative to GDP per Capita 92 **Buyer sophistication** Government success in ICT promotion 76 68 4 Government procurement of advanced technology products Presence of demanding regulatory standards Stringency of environmental regulations

Note: Rank versus 130 countries; overall, Croatia ranks 48th in 2008 PPP adjusted GDP per capita and 63rd in Global Competitiveness

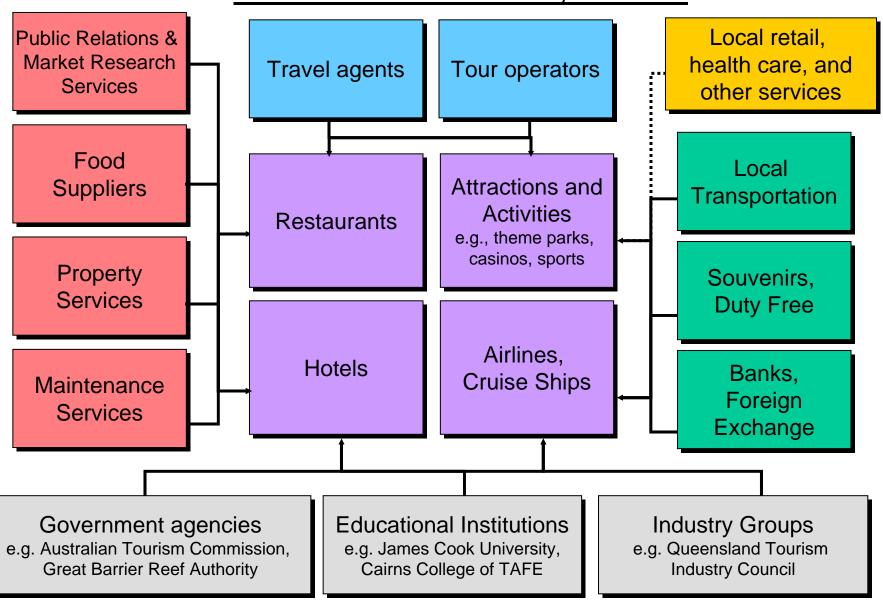
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Source: Institute for Strategy and Competitiveness, Harvard University (2009)

# Croatia's Business Environment Quality Overview

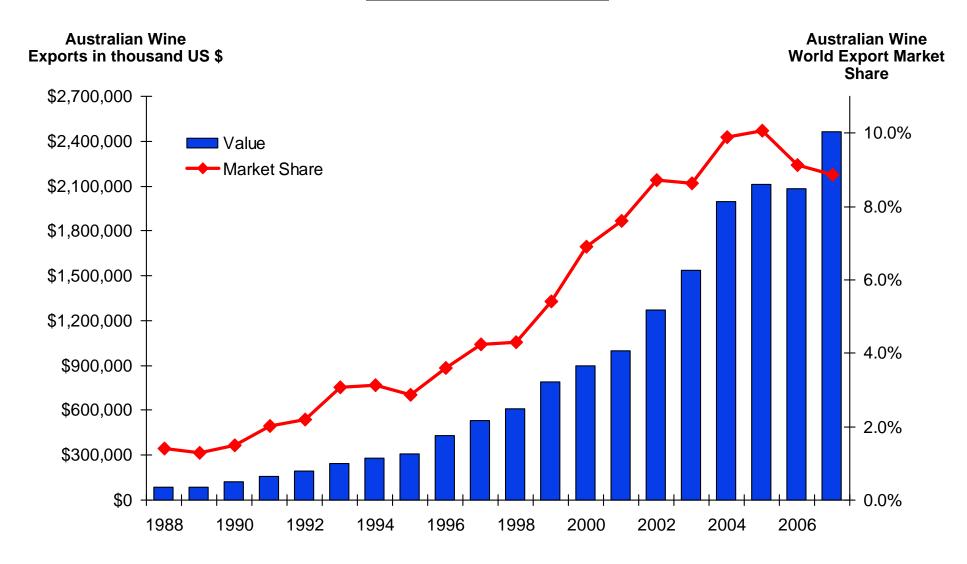
- Basic factor conditions are relatively strong but weaknesses exist in more advanced dimensions
  - Relative strength in road transportation and communications infrastructure as well as fundamental innovative capacity
  - Relative strength in primary and secondary education
  - Relative weakness in financial market sophistication
  - Relative weakness in port and airport infrastructure
- Business rules and regulations remain cumbersome and distortive
  - Problematic labor relations
  - Local market still dominated by entrenched domestic business groups
  - Rules and regulations for foreign direct investors are cumbersome

## Competitiveness and Cluster Development <u>Tourism Cluster in Cairns, Australia</u>



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

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



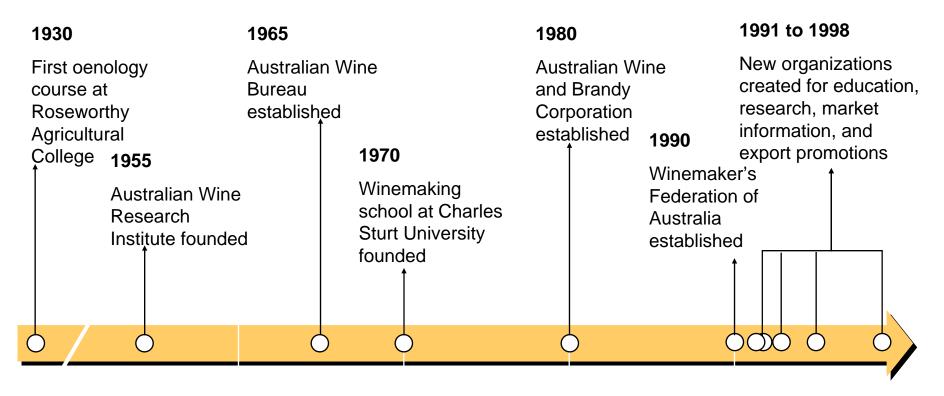
Source: Prof. Michael E. Porter, International Cluster Competitiveness Project, Institute for Strategy and Competitiveness, Harvard Business School; Richard Bryden, Project Director. Underlying data drawn from the UN Commodity Trade Statistics Database.

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### The 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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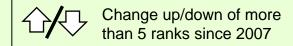
## The Evolution of Regional Economies San Diego

**Hospitality and Tourism Climate** Sporting and Leather Goods and **Transportation** Geography and Logistics **Power Generation** Communications **Aerospace Vehicles Equipment** and Defense U.S. Information Technology **Military Analytical Instruments Education and Knowledge Creation Medical Devices** Bioscience **Biotech / Pharmaceuticals** Research Centers 1930 1910 1950 1970 1990

Related and Supporting Industries

### Related and Supporting Industries <a href="Croatia's Relative Position 2008">Croatia's Relative Position 2008</a>

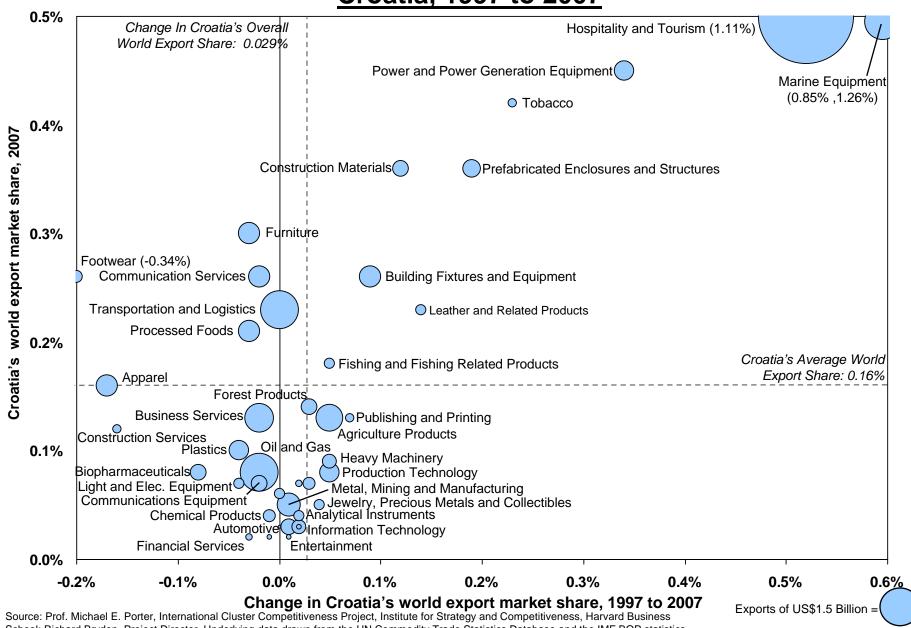
Competitive Advantages
Relative to GDP per Capita



### **Competitive Disadvantages** Relative to GDP per Capita State of cluster development Extent of collaboration in clusters 98 Local supplier quantity 88 Supporting and related industries and clusters Local supplier quality Local availability of process machinery 61

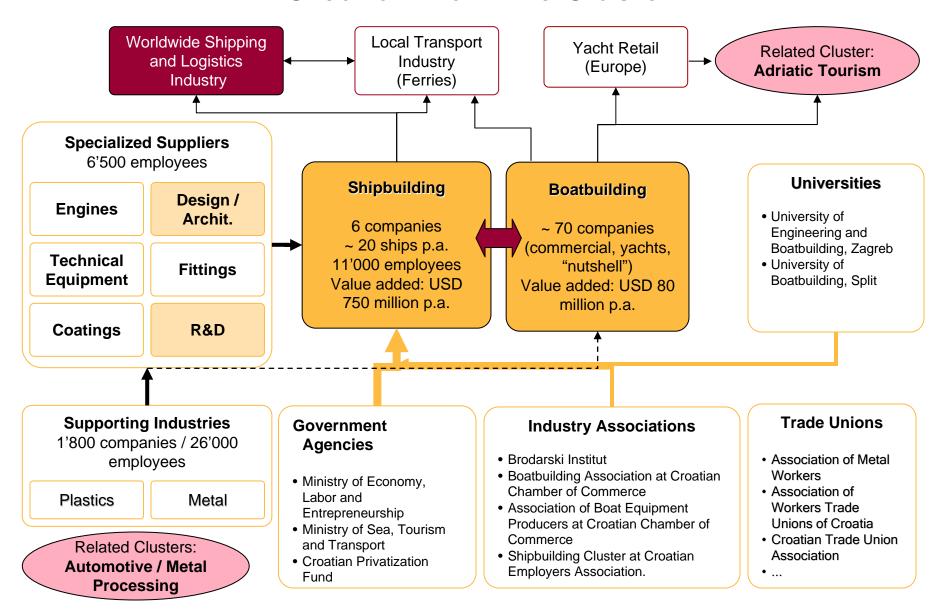
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#### **National Cluster Export Portfolio** Croatia, 1997 to 2007

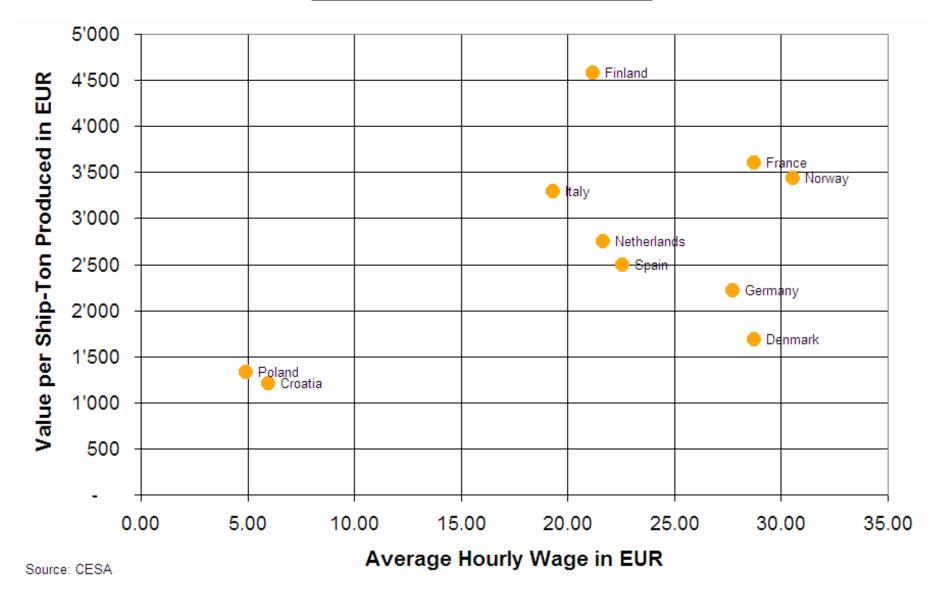


School; Richard Bryden, Project Director. Underlying data drawn from the UN Commodity Trade Statistics Database and the IMF BOP statistics. 20090515 - CAON Crotia.ppt

#### **Croatian Maritime Cluster**



# Shipbuilding Cluster Productivity <u>Select European Countries</u>



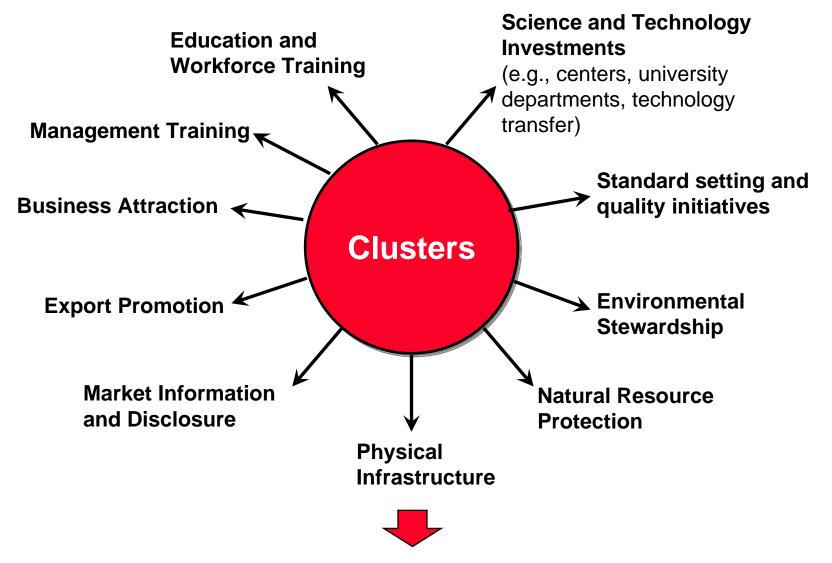
#### **Croatian Clusters**

- Croatia's clusters have developed naturally and reflect the strengths of legacy and location but also the challenges of the current business environment conditions
- Clusters provide an important perspective to understand the issues facing the Croatian economy
- Cluster-level competitiveness efforts are less politicized and enable action on more tractable issues related to productivity
- Cluster efforts are an opportunity to engage in a new model of publicprivate dialogue and cooperation



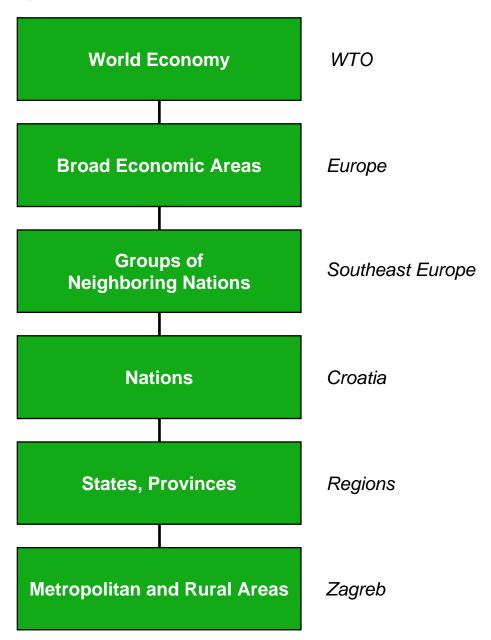
 Clusters are so far an unexploited dimension of economic policy that Croatia can ill-afford to neglect

#### **Cluster-Based Policy Implementation**

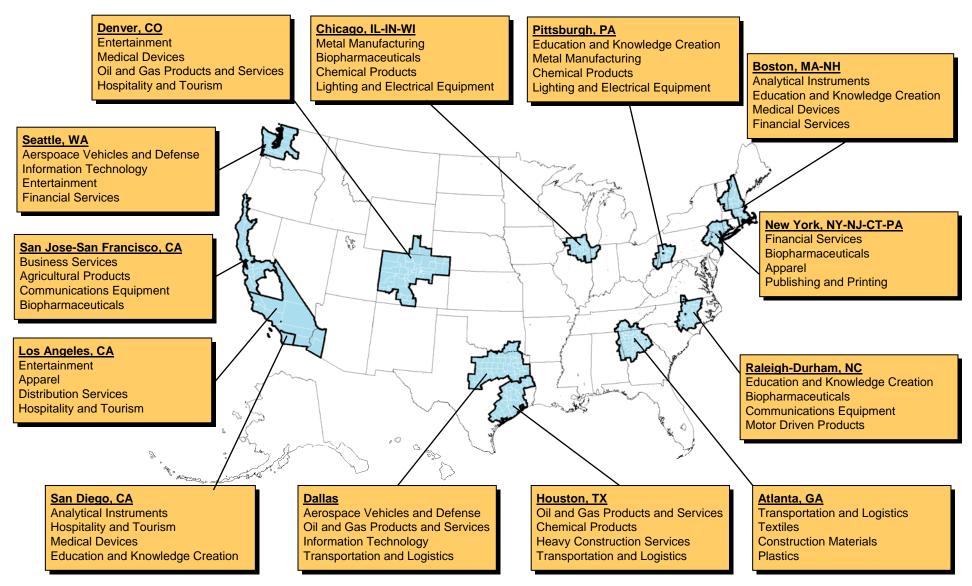


 Clusters provide a framework for implementing public policy and organizing public-private collaboration to enhance competitiveness

### **Geographic Levels and Competitiveness**



# **Specialization by Traded Clusters Selected U.S. Economic Areas, 2006**

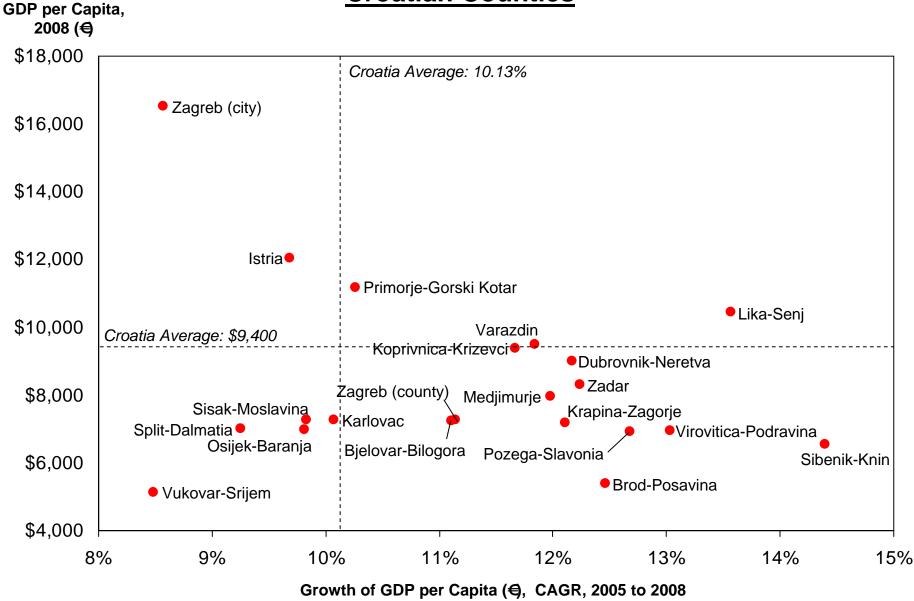


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### **Croatian Counties**



### Prosperity Performance <a href="Croatian Counties">Croatian Counties</a>



# The Neighborhood Southeastern Europe



• Economic coordination among neighboring countries can significantly enhance competitiveness

#### **Croatia's Competitiveness Challenge**

- Croatia's recent economic growth has been driven by natural catch-up following integration into the European and global economy
- Process can only be sustained if Croatia is able to continuously upgrade its competitiveness
- EU accession is an important opportunity, but the benefits will depend on reforms by Croatia to address its own competitiveness challenges

#### **Key Challenges**

- There are numerous weaknesses in the Croatian business environment.
- The vitality of competition remains weak as a consequence of policy choices and a relatively isolated domestic market
- Clusters are present in the Croatian economy (e.g. tourism), but they have not been used as an effective policy tool
- The institutional weaknesses of the country have been a key barrier to achieve sustain improvements
- Croatian regions have not been challenged and enabled to contribute to competitiveness improvements

## Croatia's Competitiveness Agenda Some Action Priorities

- Address corruption and weaknesses in political and legal institutions
- Ensure the sustainability of public finances
- Reform the rules and regulations for business
- Open up local markets to competition
- Create attractive conditions for foreign investors
- Strengthen the higher education system, financial markets, and airport/port infrastructure
- Use **clusters as an organizing principle** for upgrading workforce skills, infrastructure, and FDI attraction
- Support Croatian regions in their competitiveness efforts
- Strengthen economic cooperation in South-East Europe

## 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
 the private sector, government at
 multiple levels, universities,
 labor, and civil society

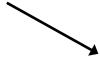
- Competitiveness must become a bottoms-up process in which many individuals, companies, and institutions take responsibilities
- Every community and cluster can take steps to enhance competitiveness
- The private sector must become more engaged in competitiveness to improve rapidly

### **Defining a Croatian Economic Strategy**

#### **National Economic Strategy**

- What can be the unique competitive position of Croatia given its location, legacy, endowments, and potential strengths?
  - What is its unique value as a business location?
  - What role can it play with neighbors?
  - In what range of clusters does the nation excel?





#### **Developing Unique Strengths**

• What are the key potential strengths that Croatia must preserve or build?

### Achieving and Maintaining Parity with Peers

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



 The private sector must lead the process of competitiveness improvement and provide continuity and accountability

#### The Croatian Competitiveness Paradox

- Croatia has institutions like the National Competitiveness Council designed to guide competitiveness upgrading
- Croatia has sensible plans that identify the weaknesses the country needs to address

#### **BUT**

- Croatia has made limited if any progress on upgrading its competitiveness in recent years
- Government is preoccupied with short-term crises and EU acsencion

#### The Moment For Action

- The struggle for independence, the war with Serbia, and the path to political normality after the war have shifted political focus away from competitiveness
- Economic growth due to a natural catch-up has been sufficiently good so that there has not been pressure for real reform
- **EU membership** has been seen as the automatic path to competitiveness, requiring no further action within the country
- Entrenched interest groups in the political and economic sphere have paid lip service to competitiveness but have been unwilling to engage in real reforms that threaten the status quo



• Leaders in business and government must **launch a new chapter** in Croatia's economy if the country is to hold its gains, much less see further standard of living improvements