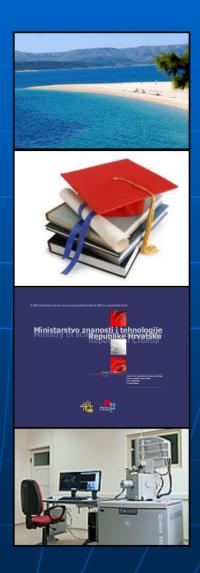
Study Visit "Sustainable Network of Research and Education in Natural Science and Technology" 9-13 October 2011, Irdning, Austria

Danijela Poljuha Research Centre Metris Istrian Development Agency Pula, Croatia



Content

- Facts about Croatia
 - Demographic
 - Government and Politics
 - Economy
 - World Heritage Sites
 - Scientists and Inventors
- Education System
 - > Structure
 - Objectives
 - Problems & Solutions
- Research & Education
 - National bodies
 - Strategies and guidelines
- Metris (IDA)
 - Projects





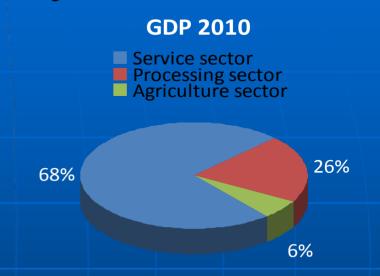
Croatia

- Territory
 - Land area: 56,594 km²
 - Territorial sea: 31,067 km²
- Population 4,437,460
- Capital Zagreb (779,000 inh.)
- Parliamentary Republic
- Member of the UN, the Council of Europe, NATO, the World Trade Organization and CEFTA
- Candidate for EU



Economy

- Service sector
 - Tourism
 - Trade
 - Transport
- Processing sector
 - Shipbuilding
 - Food processing
 - Pharmaceuticals
 - ICT
 - Biochemical
 - Timber
- Agriculture sector







Historical Complex of Split with the Palace of Diocletian (1979)



Old City of Dubrovnik (1979)



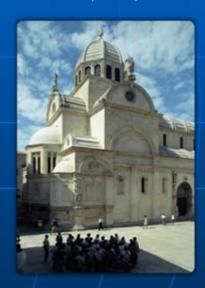
Plitvice Lakes National Park (1979)



Episcopal Complex of the Euphrasian Basilica in the Historic Centre of Poreč (1997)

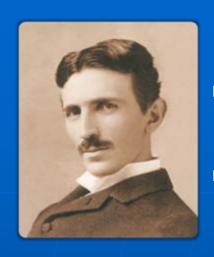


Historic City of Trogir (1997)



The Cathedral of St. James in Šibenik (2000)

UNESCO Heritage

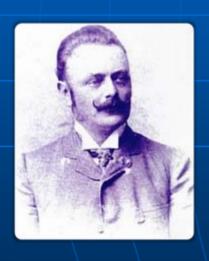


NIKOLA TESLA

- Polyphase system of alternating currents
- Transmission of electric energy

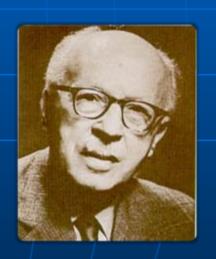
LAVOSLAV RUŽIČKA

- Nobel prize for chemistry
- Natural compounds



SLAVOLJUB PENKALA

- First mechanical pencil
- First solid-ink fountain pen



Scientists and Inventors

Education System

- Preschool education
- Primary schools 932
- Grammar and Vocational schools -500
- Universities 8
- Polytechnics institutions 11
- Higher education institutions 23

Croatian school system

PREESCHOOL EDUCATION

Preparation (6 years old)

PRIMARY SCHOOL-Compulsory

(7-14 years old)

Preschool Education

| Construction | Construction

SECONDARY SCHOOL

(14-18 years old)

Grammar, Art Schools VET Schools (1-4) Adult Education
Open University

STATE MATURA

(VET- 4 years)

UNIVERSITY

1st cycle Bologna

POLITECHNIC

1st cycle Bologna

2nd cycle Bologna

Pre-school education

- Organised babysitting for 1-6/7 years old
- Nurseries, kindergartens, "pre-school"
- "Serious" pre-school programme only with 6/7 years old
- Without any form of grades and exams
- not compulsory and not a prerequisite for enrolment at compulsory school
- Public (mostly) and private institutions
- The pre-school education has adopted some of the world-renowned concepts (Montessori, Waldorf, Agazzi, etc.)

Primary schools

- Compulsory- 8 years
- Two stages:
 - 1-4 grade- all lessons with one teacher
 - 5-8 grade- each subject different teacher
- Work in one (20%), two (73%) or three
 (7%) shifts- inadequate spatial facilities
- Mostly public, only several private

Secondary school

- 4-years grammar schools
- 4-years vet schools (technical, economics, medicine,...)
- 4-years art schools
- 3-years vet schools
- Schools for lower expertise occupations
- Secondary schools mostly public, only several private
- Trainings in adult education institutions public and private

University

- Bologna process (3+2 years)- equal as 4 years university study under "old" system
- Ph D studies:
- remains of old system (Msc- 2 years)
- 3 years study- Ph D





General objectives

- Primary education: acquisition of those knowledge, skills, values and attitudes which train people for a continuation of general and vocational education and for assuming of their basic life roles
- Secondary education: preparing for continuation of higher education, and for work and life in democratic, multilingual, and multicultural environment
- Higher education: sustainable national development optimizing and production of new knowledge

Early school leavers

- Croatia- 22% of unemployed persons with elementary school diploma
- Region of Istria (the most developed region in Croatia)- 25% and increasing
- Mostly youth (15-24 years old)
- Low motivation
- Treat of social exclusion

Possible solutions

- Seeking for new models
- Recently established Local partnership for employment (31.03.2011.)
- Developing:
- new methodology for monitoring labour market supply and demand
- models for coordination of educational system and labour market demand
- Implementation of EU co-funded projects

Research & Education

- National bodies:
- Ministry of Science, Education and Sports
- Agencies & Expert Bodies
- Strategies and guidelines:

The vital documents for the development of the science and technology strategy are the Lisbon Strategy and the document Croatia in the 21st Century – Science from 2003. Following the goals set in these documents, the National Council for Science adopted in October 2005 the Decision on Priorities in Short- and Long-Term Strategy for the Development of Science in the Republic of Croatia.

- Short-term priorities: environment, health, energy and materials and the Croatian identity
- Long-term goals: knowledge-oriented basic research, environmental protection, economic growth in karst regions, the Adriatic coast, the sea and islands, agriculture, biotechnology and food, health, information and communication technology, nanoscience, new materials, construction and new production processes, energy and renewable energy sources, transport and security, social and human sciences and the Croatian identity, social integration, learning and education, and finally, lifelong education.

Research & Education

Educational priorities:

- increasing the level of education of the population
- constant modernizing of the contents and methods of education at all levels of the education system, and the orientation toward the development of basic competencies
- establishing a system of evaluation and self-evaluation of the quality of educational processes and outcomes
- increasing the allocations to education by the employers and the state
- more involvement in the processes of education and learning (starting with the preschool system)

METRIS Research Centre Istrian Development Agency (IDA)

Research Centre METRIS (as R&D Department of IDA) is created as infrastructural basis for innovative research and development in the Region as well as Educational Centre for students, researchers and enterpreneurs.

Projects:

- CARDS 2003: PRO.SME (2005 2007)
- INTERREG III B CADSES: GO NETWORK (2003 2006), I-log (2004 2005), REDECON (CARDS 2004) (2006 2008);
- Italian Law 84/01: FISH.LOG (2004-2007), CONNECT (2004-2007), Implementation of the European Charter for Small and Medium-sized Enterprises in the Republic of Croatia (2005 2006);
- INTERREG III A: LO.DE (2004-2005), GALILEO (2004-2005);
- INTERREG III A Neighborhood Programme Slovenia-Hungary-Croatia: SLO-HR-RA (2005 2006), SLOHRA ZONET (PHARE 2005) (2007 2008));
- SIXTH FRAMEWORK PROGRAMME: CoRIn (2006- 2008);
- INTERREG ADRIATICO: AsviLoc (CARDS 2004) (2007 2008); Active Employment Measures for Groups Threatened by Social Exclusion;
- PHARE 2005: Re.Cen.T. (2007 2008);
- PHARE 2006: MET.R.IS. (2008 -2009); SOUTH EAST EUROPE: AsviLoc Plus (2009 2012).
- IPA CBC Adriatic: METRIS Plus (2011-2013)

Thank you for your attention



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