The Surveying Engineering Profession in Cyprus

CLGE GA, 20-21 March, 2015, Limassol-Cyprus

Dr. Demetris Demetriou, President of CARSE

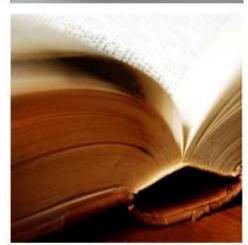
















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Cyprus: 9,000 years of history!



Cyprus demographics





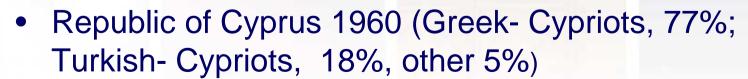


- 48.64% males
- 51.36% females
- Cypriots 79.40%





Non-EU 47%





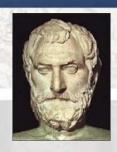
170,000 people



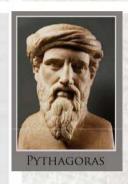
Our ancestors: «Fathers» of Geometry and Surveying



• Thales (635-543 BC)



Pythagoras (582-496 BC)

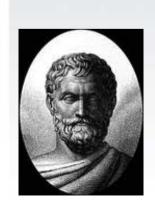


• Euclid (325-265 BC)



• Eratosthenes (276-194 BC)





Land ownership, Cadastre and Surveying in Cyprus: History!

 1400 BC it had been arisen the idea of individual ownership in Cyprus by the Greek settles

 500 B.C, the "idalio" inscription excavated at Dali village can be described as a title to land, indicating the development of private ownership in ancient Cyprus

 1850 AD, Ottoman Land Code introduced, land grouped and registered in five categories hence private rights spread, rights of possession were registered and land inheritance and transfer via sale were possible

Land ownership, Cadastre and Surveying in Cyprus: History!

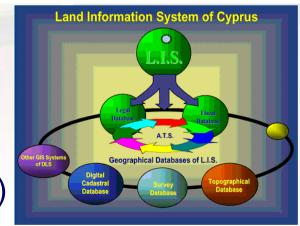
 1858, The Department of Lands and Surveys (LSD) of Cyprus started its operations

 1909 to 1929 a general survey covered the whole Cyprus carried out by British (the basic geodetic and cartographic infrastructure built)

1946, Immovable Property Law

1969, Land Consolidation legislation

• 1999, Land Information System (LSD)



What is Rural and Surveying Engineering?





Studies and application of: Geodesy, Surveying, Cartography,
Photogrammetry, Cadastre, Remote Sensing, Land
Administration, GIS...



Rural Planning and Engineering

Studies and application of: Transport planning, Road design,
Hydraulic engineering, Urban and Rural Planning, small
concrete construction works, Project Management



Technical University of Athens



Aristotle University of Thessaloniki



 BSc programme, Geomatic Engineering and Planning, Swiss Federal Institute of Technology in Zurich (ETHZ).

Rural and Surveying Engineering: History!



Recognised in Greece in 1930.



- Technical University of Athens
 - -1917



Aristotle University of Thessaloniki



- -1963
- 5 year studies



Cyprus University of Technology



2007



BSc degree (4 years) in Surveying and Geoinformation Engineering





Rural and Surveying Engineering Studies







- Surveying Engineering
- Geography and Regional Planning
- Infrastructure Projects and Rural Development



- Geodesy and Surveying Engineering
- Cadastre, Photogrammetry and Cartography
- Transport and Hydraulic Engineering



Cyprus Association of Rural and Surveying Engineering







~ 180 members





- Land and Surveys Dept.
- Land Consolidation Dept.







- Cyprus Agricultural Payment Organization
- Electricity Authority



Cyprus Association of Rural and Surveying Engineering



- ~ 25% Freelance RSE
- ~ 45% Private sector staff or other...



- From 1979-2013 180 members
- From 2013-2018 ~> 300 members



Memberships



 FIG-International Federation of Surveyors)



International Federation of Surveyors Fédération Internationale des Géomètres Internationale Vereinigung der Vermessungsingenieure



CLGE



The Council of European Geodetic Surveyors Comité de Liaison des Géomètres Européens



• EGOS





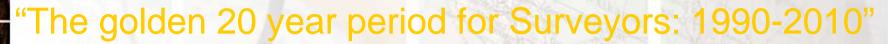
Professional Rights



- The Cyprus Scientific and Technical Chamber (1990)
 - 10 engineering or planning subjects including Rural and Surveying Engineering
- The Streets and Buildings Regulation (Amendment) Law (2000)
 - Urban planning studies, land subdivision, urban road design, hydraulic eng., land development
- Cadastral Surveying Law (2005)
 - Part of Cadastral surveying open in the private sector
 - Registered Cadastral Surveyor (1 year practice)



Unemployment in Cyprus (%)





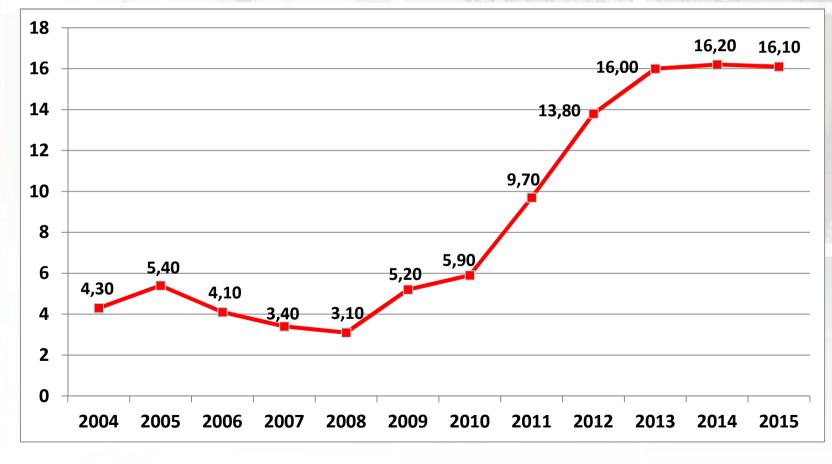




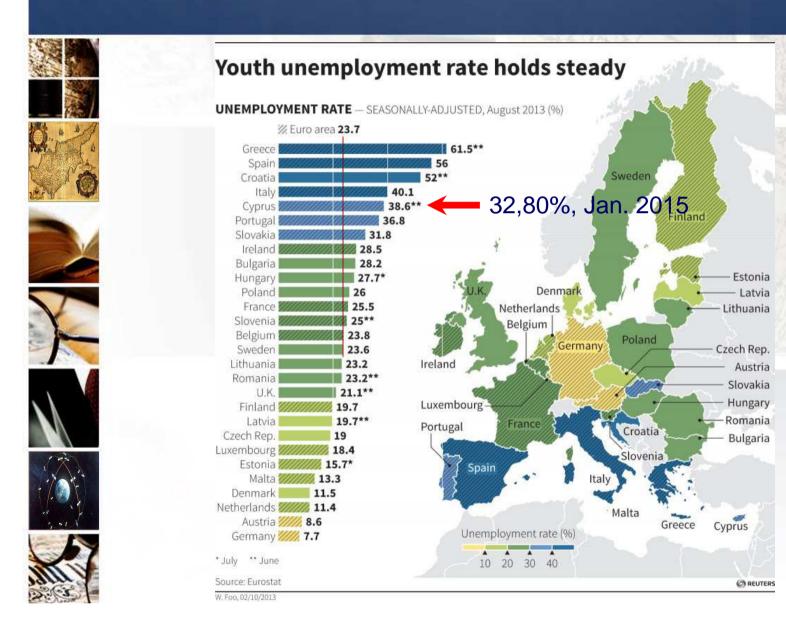








Youth unemployment in EU



Prospects of our profession



Many factors impact on the surveying market



Prendergast, 2006

How we respond to these new challenges?

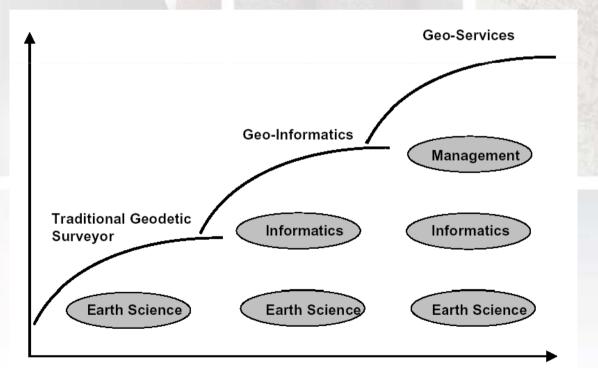






 Expanding our role from the traditional model to Geo-management







How do we enhance our role?



Educational

- Modern curricula for next generations
- Life long learning opportunities
- Length of academic programmes



Professional

- Multi-disciplinary teams
- Trend for less professional regulation
- Ethical principles and codes



Institutional

- Re-consider existing structures and "empires"
- Public private partnerships
- Research and innovation











