TOPICS

1. GENERAL CONTEXT OF ROMANIAN CADASTRE
which generates the need for an increasing number of specialists

2. SURVEYING AND CADASTRE EDUCATION IN ROMANIA
an increasing number of universities require for surveying programs

3. EDUCATION AT "POLITEHNICA" UNIVERSITY OF TIMISOARA
according to national requirements and general EU trends

4. PROGRAM OF SURVEYING AND CADASTRE IN TIMISOARA
ascending evolution due to inner national and local conditions

SPECIFIC CADASTRAL OBJECTIVES

- RESTORATION OF RIGHTS TO REAL PROPERTY
- PRIVATIZATION OF AGRICULTURAL LAND – TOGETHER WITH REFORMS FOR DEVELOPMENT OF RURAL AREAS
- PRIVATIZATION OF URBAN LAND
- SCHEMES TO IMPROVE INSUFFICIENT INFRASTRUCTURE
- DEVELOPMENT OF LOCAL DEMOCRACY
- STIMULATION OF NEW INVESTMENTS
- SUPPLYING CADASTRAL DATA TO DIFFERENT BENEFICIARY

IMPLEMENTATION OF GENERAL AND MULTIPURPOSE CADASTRE IN THE WHOLE TERRITORY OF THE COUNTRY

...and above all...
NATIONAL CONTEXT-SUPPORT FOR SURVEYING EDUCATION

SURVEYING AND CADASTRE EDUCATION IN ROMANIA

MAIN PARTICULARITIES OF THE SYSTEM:
2005/2006 RO ADHERED TO THE BOLOGNA SYSTEM

Bachelor program Master Program PhD Program

- follows a traditional European curriculum
- 4 years program – operates with credit system (ECTS): 240 credits
- Curriculum consists of compulsory subjects, optional and elective subjects
- Evaluation: 4 exams, 4 colloquiums
- Diploma – leads to B.Sc. Degree granted

Master Program
- Starting with 2009/2010 – Bologna system
- Consists of:
  - 14 hours /week
  - 4 examinations /semester
  - Dissertation → M. Sc. degree granted
  - PhD program

Faculty of Geodesy - Bucharest

- The Romanian Agency for Quality Assurance in Higher Education and the Governmental Accreditation Committee evaluate periodically all programs

GEODETIC EDUCATIONAL TRAINING IN ROMANIA

The program taught in Romanian Universities follows a traditional European curriculum and lead to the Dipl. Eng. Degree.
EDUCATION IN THE "POLITEHNICA" UNIVERSITY OF TIMISOARA

Timisoara - important academic city with strong economical and cultural tradition

- The "Politehnica" University of Timisoara is one of the largest, well-known technical universities in Central and Eastern Europe.
- The "Politehnica" University of Timisoara has 10 faculties and several independent departments delivering the academic programs which are modern, relevant, intellectually stimulating and represent the highest quality in their respective disciplines.
- The branch of Surveying and Cadastre from the faculty of civil Engineering offers full-time degree programs in Romanian language only.

PROGRAM OF SURVEYING AND CADASTRE IN THE "POLITEHNICA" UNIVERSITY OF TIMISOARA

PROGRAM FOUNDED IN 1991 - accredited specialization

The consolidation strategy of the specialization covers the following objectives:
- Continuous development of the curriculum and syllabuses, in conformity with the evolution of the techniques in the domain of Geodesy, and in correlation with similar Romanian and European Union institutes;
- PhD development studies for the teaching staff and specialized training for external professors;
- Development of some current research fields in cadastre such as: informatization of the land register, land information systems, GIS, satellite technologies.
Evolution and perspectives

- **SURVEYING AND CADASTRE PROGRAM**

**INTERDISCIPLINARY SPECIALIZATION** – capable to train competent specialists and provide efficient solutions for design, realization and exploitation of works in the field of geodesy for different purposes:

- surveying engineering works
- cadastral works
- systematization
- urbanism
- GIS, etc.

- Lately, the methods, technical tools and principles in organization Surveying work changed a lot due to the progress in informatics and technology specific to geodetic work and also due to the inner conditions of the Romanian society.
GENERAL CONCLUSIONS

• In the last period there have been significant changes in Geodesy which brought major technological developments created growing demand from government, local authorities and enterprises for specialists with new knowledge and skills.

• The information age has changed the surveying and mapping professions.

• Future surveying and mapping graduates should be able to move from technical specialists roles to participants in solution of societal problems – in many cases, professional surveyors no longer provide services directly to society but their results are passed on to other professions for final interpretation, analysis and presentation to the public (architects, engineers).

• The educational emphasis must shift from dependence on state-of the art instrumentation and equipment specific training to the appropriate application and analysis of the use of these changing technologies;

• Students and graduates should be encouraged to develop a practical background and to mix educational experience with the practical experience;

• Another truth is, that knowledge and professional competence is no longer given once and for all – it must be maintained and extended through a lifelong process of learning;

• So, the continuing education after graduation is as important as proper curriculum on the school and university levels.