



Changes in the Education of Geodetic Engineers

- Who needs them? What for?

◆ Changes in the Education of Geodetic Engineers

- * Several studies have been carried out:
 - FIG - Commission 2: "Professional Education"
with Working Groups 2.1 to 2.5
 - CLGE -European Council of Geodetic Surveyors
e.g. 'Profile Report'
 - EEGECS -European Education in Geodetic Engineering,
Cartography and Surveying
with Working Groups 1 to 6

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* Some conclusions:

➤ to enhance/expand the competences of geodetic surveyors

in order to

➤ better serve the ever changing needs of society

namely through

➤ complementing 'Measurement Science' with 'Land Management'

within a multidisciplinary paradigm of 'Spatial Information Management'

◆ Changes in the Education of Geodetic Engineers

* Factors of change:

- technological developments
- new social/administrative needs
- universities' financial situation
- lack of students
- international influence (EU,...)
- ...

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* Stakeholders:

- 1 - Directive boards of universities
- 2 - Tutelary Minister/ Government
- 3 - Geodetic Engineering departments/sections
- 4 - Professional associations
- 5 - Employees
- 6 - Individual engineers

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* Stakeholders' objectives:

1- Directive boards of universities

attract more students; reduce expenses (teachers)

2- Tutelary Minister/ Government

reduce expenses with universities (shut down courses with few students)

3- Geodetic Engineering departments/sections

keep staff; attract more students; market/publicise + enhance curriculum

resource constraints ⇒ 'selling more of the same'

4- Professional associations

enhance competences/curriculum

5- Employees

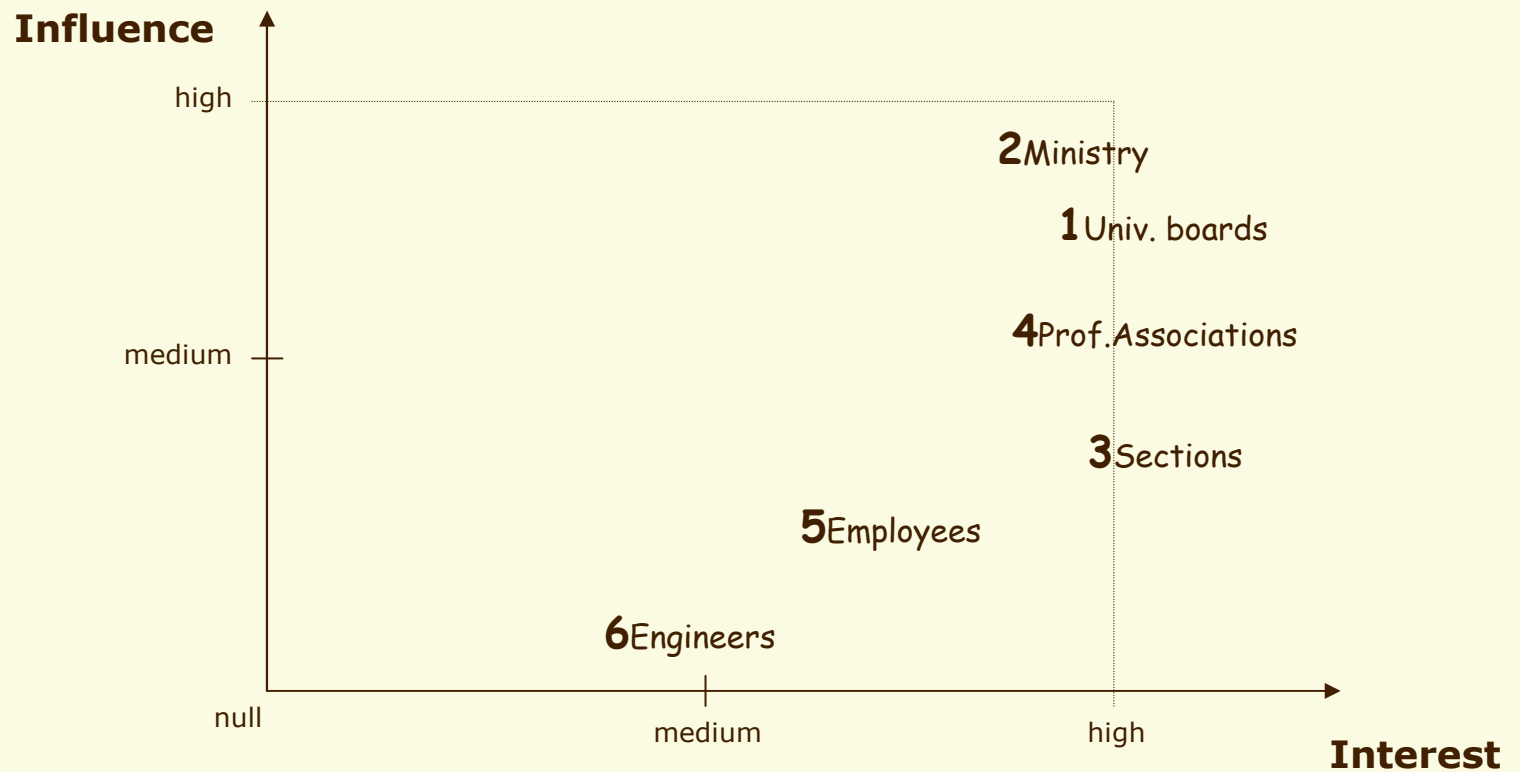
enhance competences/curriculum, but also 'ready to use' engineers

6- Individual engineers

enhance competences/curriculum

◆ Changes in the education of Geodetic Engineers

* Stakeholder profiling



Influence / Interest Matrix
(regards changes, independently of their content)

◆ Changes in the education of Geodetic Engineers

* Conclusions / Prospects

- the changes will be the ones preferred or allowed by the influential stakeholders
- which are not necessarily the changes that would respond better to society needs.