

23-28 September 2019 Cluj-Napoca, Romania



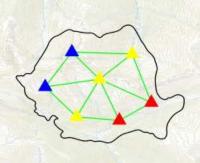


Romanian geodesic education between past and future

Raluca Margareta MANEA, Tudor SALAGEAN, Romania





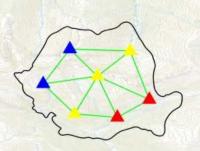


23-28 September 2019 Cluj-Napoca, Romania



1. Why such a study is needed?

- 2. We have enough specialists in the field to meet the requirements?
- 3. How we train young engineers in relation to new technologies?
 - 4. What become our young graduates?
 - Conclusions and proposals



23-28 September 2019 Cluj-Napoca, Romania





Where we are?

Romanian Surveying Week

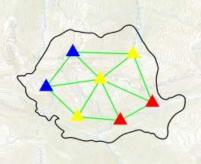
Who are those present in the room?



Geodesic engineers!

We educate the young generation!

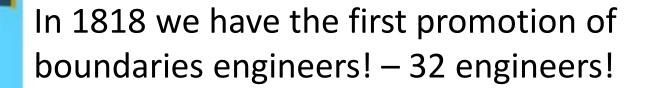
Surveyors!



23-28 September 2019 Cluj-Napoca, Romania

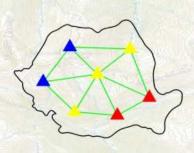


We have enough specialists in the field to meet the requirements?



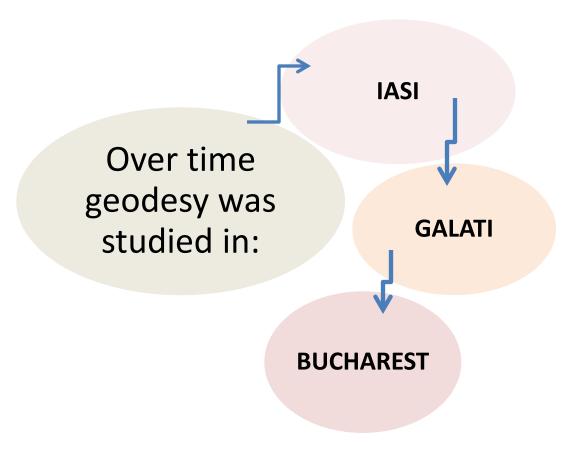
Before 1990, about 80 engineers completed their geodesy!

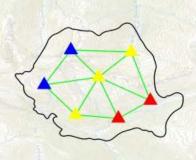
Today we have about 500 graduates per promotion!



23-28 September 2019 Cluj-Napoca, Romania

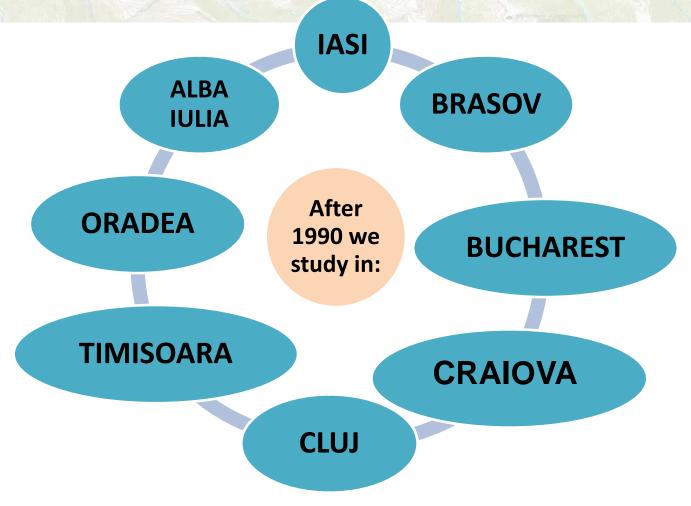


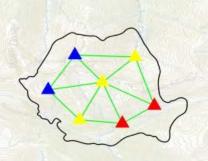




23-28 September 2019 Cluj-Napoca, Romania







23-28 September 2019 Cluj-Napoca, Romania





We have enough specialists?

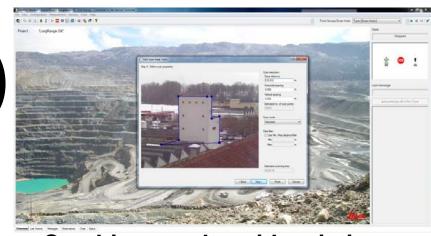
If we see that we have registered only 34% of the 40 million properties and we have proposed that the completion will be over 4 years (2023) we can answer NO!



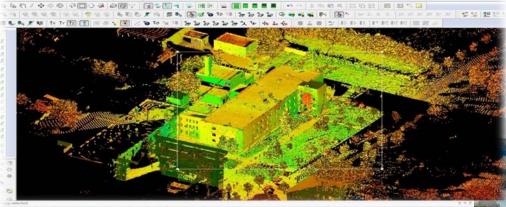


They must to monitor all disasters effects:

flood; earthquake; carbon emission; landscape.....



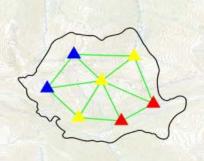
Combine results with existing Measurements cycles



Processing data







23-28 September 2019 Cluj-Napoca, Romania



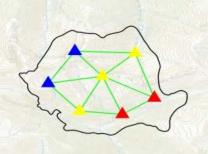
How we train young engineers in relation to new technologies?

Ask students what devices they will use for measurements????

Most will respond:







23-28 September 2019 Cluj-Napoca, Romania



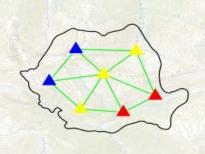
If we ask them computers for calculations, they will instantly turn off the phone





???????





USAMV
Cluj-Napoca

International Federation of 8. Federation internationale de Internationale de Internationale de Internationale de Internationale Visit (International Visit (I

23-28 September 2019 Cluj-Napoca, Romania

What become our young graduates?

If we ask students what they will become when they finish their studies, they will answer a cadastral specialist! 80%

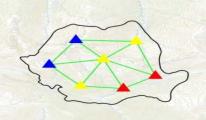
Unfortunately the notion of geodesic engineer is lost. By accident or not breaks the job in cadastre and others!



Conclusions and proposals

 Change the name of specialization from Land Measurements and Cadastre in GEOMATICA or GEOINFORMATICA

 Change the curriculum once every 4 years depending on the evolution of technology!



ISB & UGR
USAMV
Cluj-Napoca

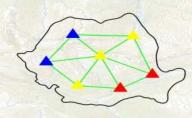
Infrardition Interaction of Surveyore
Pediation Interactionale des Géométres
Interactionale Vereinsiguag des Vermensunglangenieus
FIG COMMISSION 3
Spatial Information Management

23-28 September 2019 Cluj-Napoca, Romania

- Impose professional training courses for both: teachers and specialists to adapt to the novelty;
- To have an online communication platform between all those who develop geodesic education to communicate quickly and efficiently!

Never forget: we are geodes engineer!

That no one is perfect, everything is perfectible!



23-28 September 2019 Cluj-Napoca, Romania







