



THE USE OF NEW TECHNOLOGIES FOR MAPPING THE FUTURE

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I HAVE 3 QUESTIONS

▶ WHERE WE WERE

▶ WHERE WE ARE

▶ WHERE WE'LL BE

Who is the surveyor

Measure the points

Processing data

Drawing the map

Combine results with existing Measurements cycles

Station	Point	Height	Distance	Angle
1	2	100.00	100.00	45.00
1	3	100.00	100.00	45.00
2	4	100.00	100.00	45.00
2	5	100.00	100.00	45.00
3	6	100.00	100.00	45.00
3	7	100.00	100.00	45.00
4	8	100.00	100.00	45.00
4	9	100.00	100.00	45.00
5	10	100.00	100.00	45.00
5	11	100.00	100.00	45.00
6	12	100.00	100.00	45.00
6	13	100.00	100.00	45.00
7	14	100.00	100.00	45.00
7	15	100.00	100.00	45.00
8	16	100.00	100.00	45.00
8	17	100.00	100.00	45.00
9	18	100.00	100.00	45.00
9	19	100.00	100.00	45.00
10	20	100.00	100.00	45.00
10	21	100.00	100.00	45.00
11	22	100.00	100.00	45.00
11	23	100.00	100.00	45.00
12	24	100.00	100.00	45.00
12	25	100.00	100.00	45.00
13	26	100.00	100.00	45.00
13	27	100.00	100.00	45.00
14	28	100.00	100.00	45.00
14	29	100.00	100.00	45.00
15	30	100.00	100.00	45.00
15	31	100.00	100.00	45.00
16	32	100.00	100.00	45.00
16	33	100.00	100.00	45.00
17	34	100.00	100.00	45.00
17	35	100.00	100.00	45.00
18	36	100.00	100.00	45.00
18	37	100.00	100.00	45.00
19	38	100.00	100.00	45.00
19	39	100.00	100.00	45.00
20	40	100.00	100.00	45.00
20	41	100.00	100.00	45.00
21	42	100.00	100.00	45.00
21	43	100.00	100.00	45.00
22	44	100.00	100.00	45.00
22	45	100.00	100.00	45.00
23	46	100.00	100.00	45.00
23	47	100.00	100.00	45.00
24	48	100.00	100.00	45.00
24	49	100.00	100.00	45.00
25	50	100.00	100.00	45.00
25	51	100.00	100.00	45.00
26	52	100.00	100.00	45.00
26	53	100.00	100.00	45.00
27	54	100.00	100.00	45.00
27	55	100.00	100.00	45.00
28	56	100.00	100.00	45.00
28	57	100.00	100.00	45.00
29	58	100.00	100.00	45.00
29	59	100.00	100.00	45.00
30	60	100.00	100.00	45.00
30	61	100.00	100.00	45.00
31	62	100.00	100.00	45.00
31	63	100.00	100.00	45.00
32	64	100.00	100.00	45.00
32	65	100.00	100.00	45.00
33	66	100.00	100.00	45.00
33	67	100.00	100.00	45.00
34	68	100.00	100.00	45.00
34	69	100.00	100.00	45.00
35	70	100.00	100.00	45.00
35	71	100.00	100.00	45.00
36	72	100.00	100.00	45.00
36	73	100.00	100.00	45.00
37	74	100.00	100.00	45.00
37	75	100.00	100.00	45.00
38	76	100.00	100.00	45.00
38	77	100.00	100.00	45.00
39	78	100.00	100.00	45.00
39	79	100.00	100.00	45.00
40	80	100.00	100.00	45.00
40	81	100.00	100.00	45.00
41	82	100.00	100.00	45.00
41	83	100.00	100.00	45.00
42	84	100.00	100.00	45.00
42	85	100.00	100.00	45.00
43	86	100.00	100.00	45.00
43	87	100.00	100.00	45.00
44	88	100.00	100.00	45.00
44	89	100.00	100.00	45.00
45	90	100.00	100.00	45.00
45	91	100.00	100.00	45.00
46	92	100.00	100.00	45.00
46	93	100.00	100.00	45.00
47	94	100.00	100.00	45.00
47	95	100.00	100.00	45.00
48	96	100.00	100.00	45.00
48	97	100.00	100.00	45.00
49	98	100.00	100.00	45.00
49	99	100.00	100.00	45.00
50	100	100.00	100.00	45.00

Technology evolution

1920

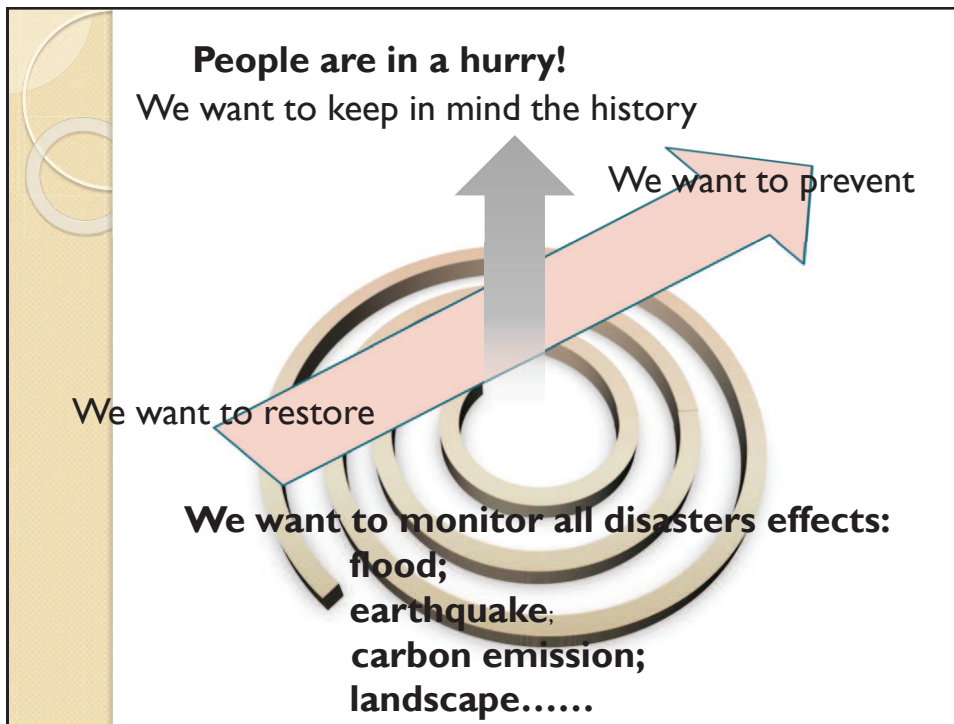
1950

1980

2000

20.....



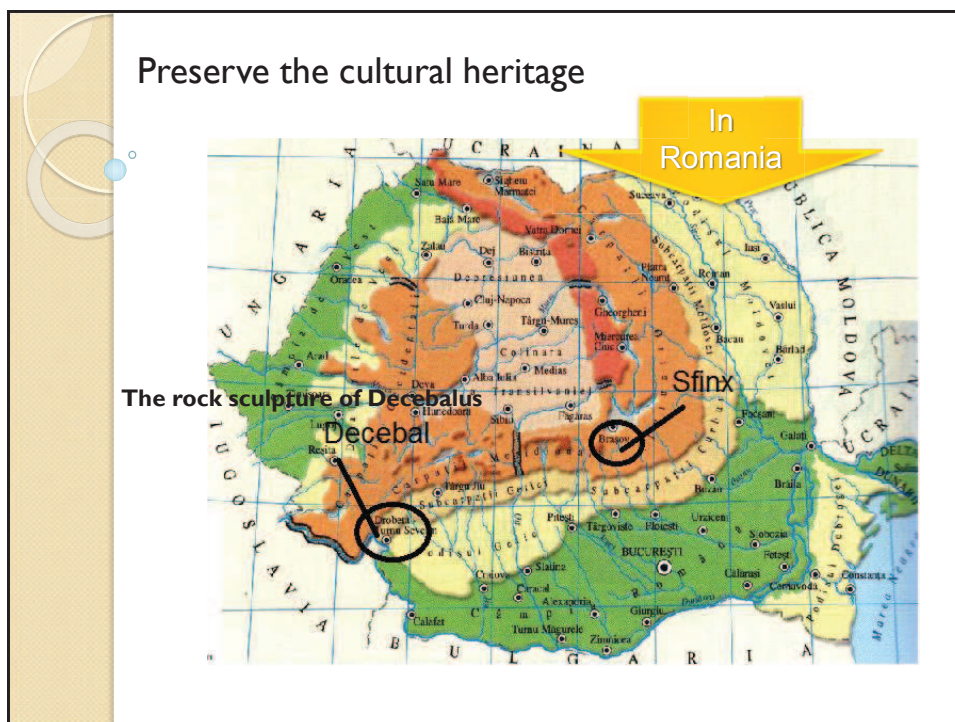
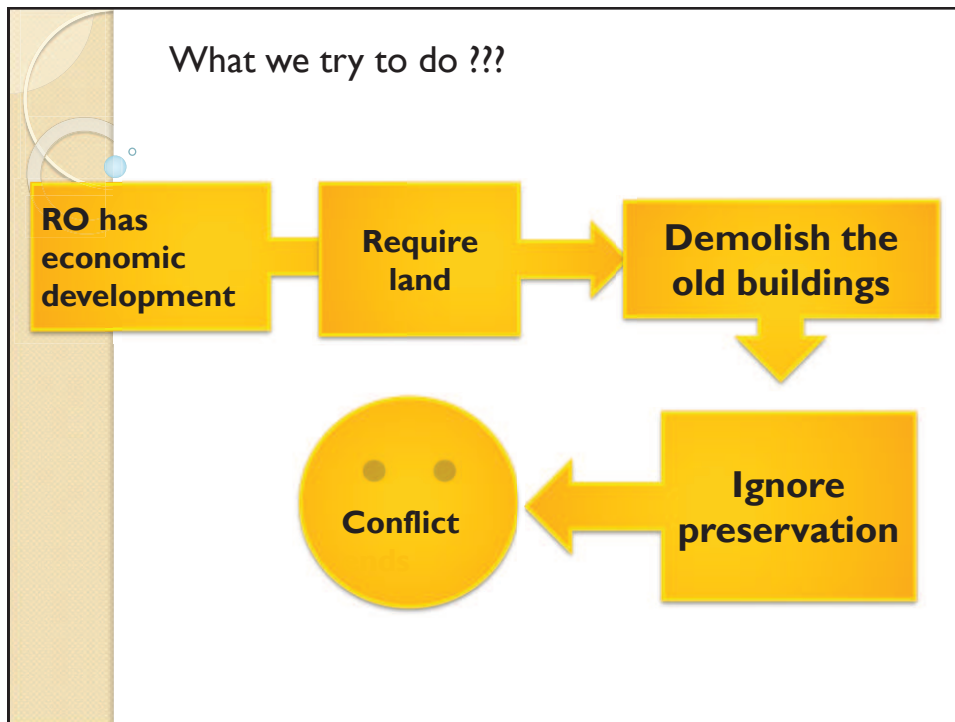


Europe

1. LITHUANIA
2. LUXEMBOURG
3. LIECHTENSTEIN
4. CZECH REPUBLIC
5. BOSNIA & HERZEGOVINA
6. SERBIA AND MONTENEGRO


ROMANIA

Area 238.391 kmp
Population 20 000 000
Persons authorized to survey ~ 7400



The rock sculpture of Decebalus

- ▶ Located in Mehedinti county, on the rocky shore of the Danube
- ▶ The largest sculpture made of stone across Europe
- ▶ On the initiative of the historian Iosif Constantin Dragan
- ▶ It has a height of 55 m and a width of 25 m
- ▶ Made between 1994 - 2004




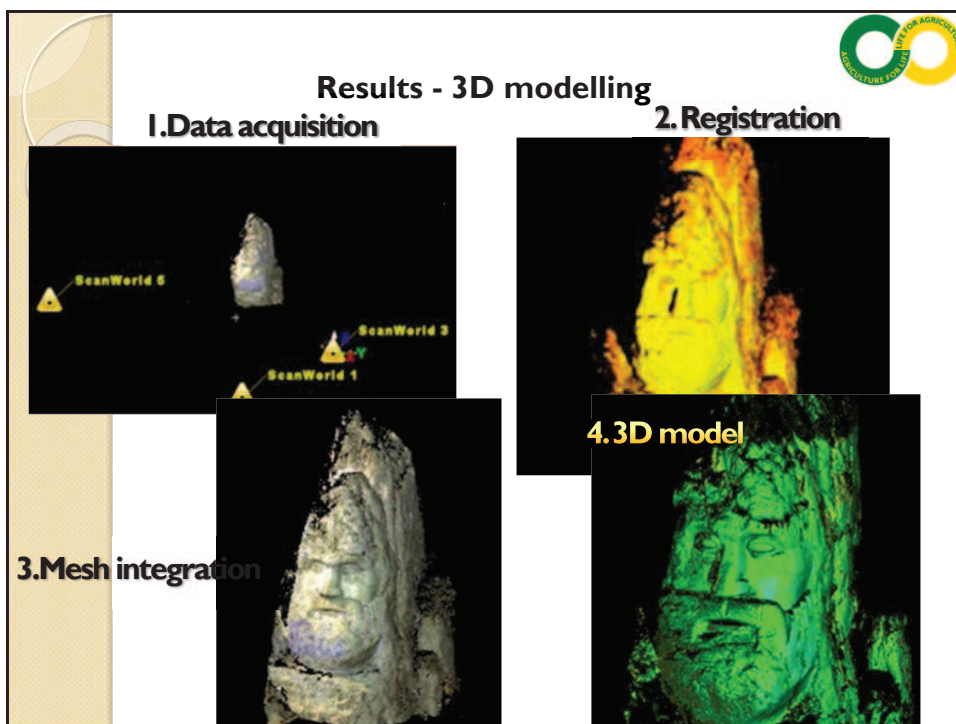
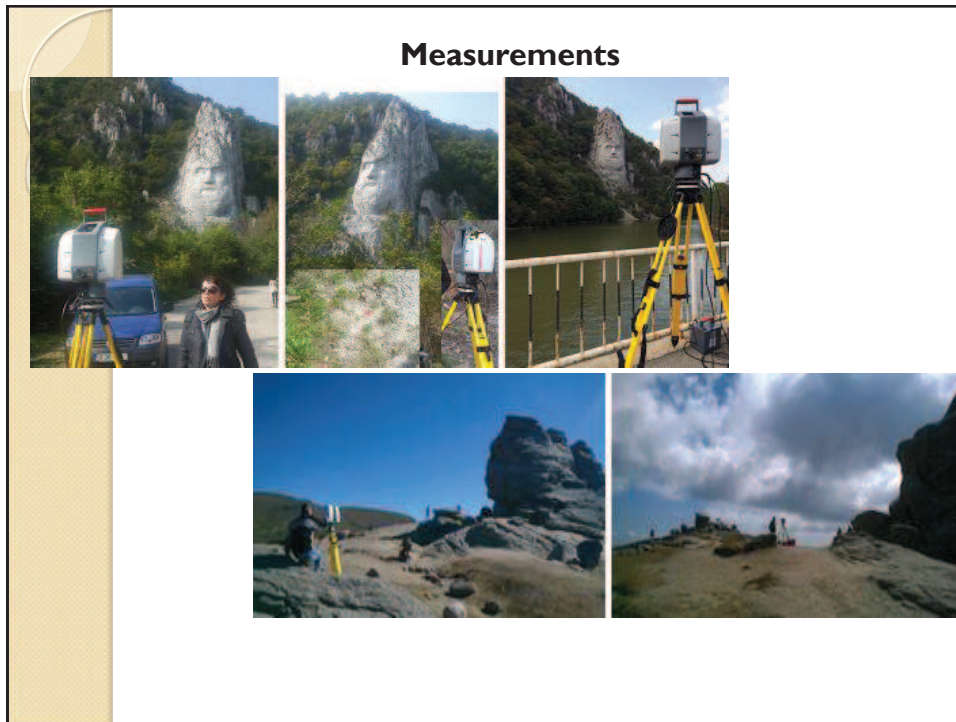
The Sphinx

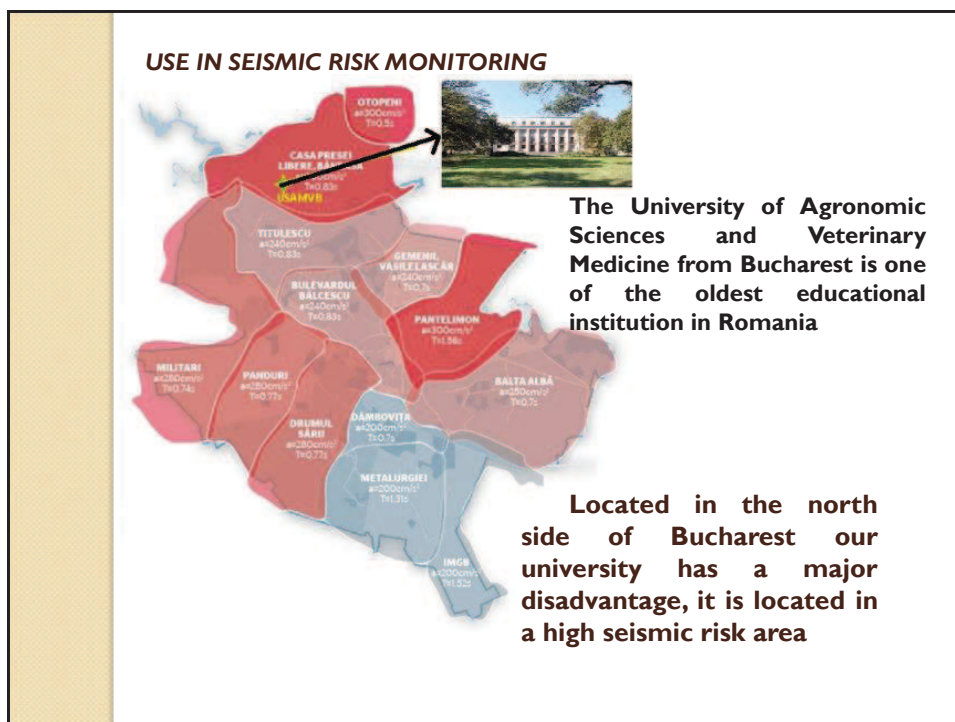
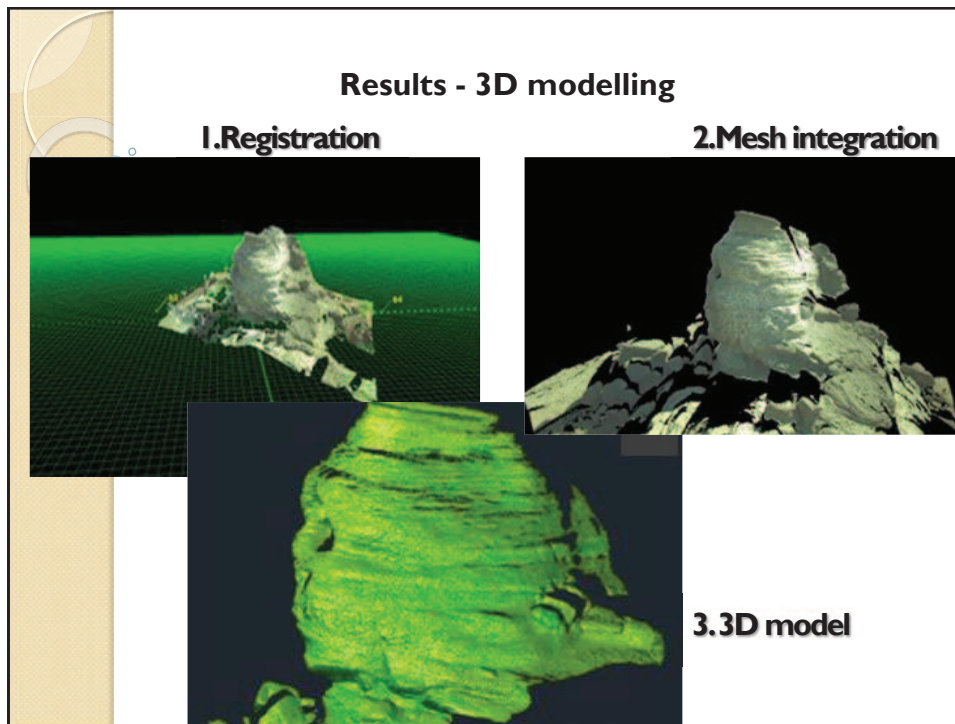
- ▶ Located in Bucegi Mountains
- ▶ 2.216 m altitude
- ▶ Anthropomorphic megalith
- ▶ 8 m height and 12 m width

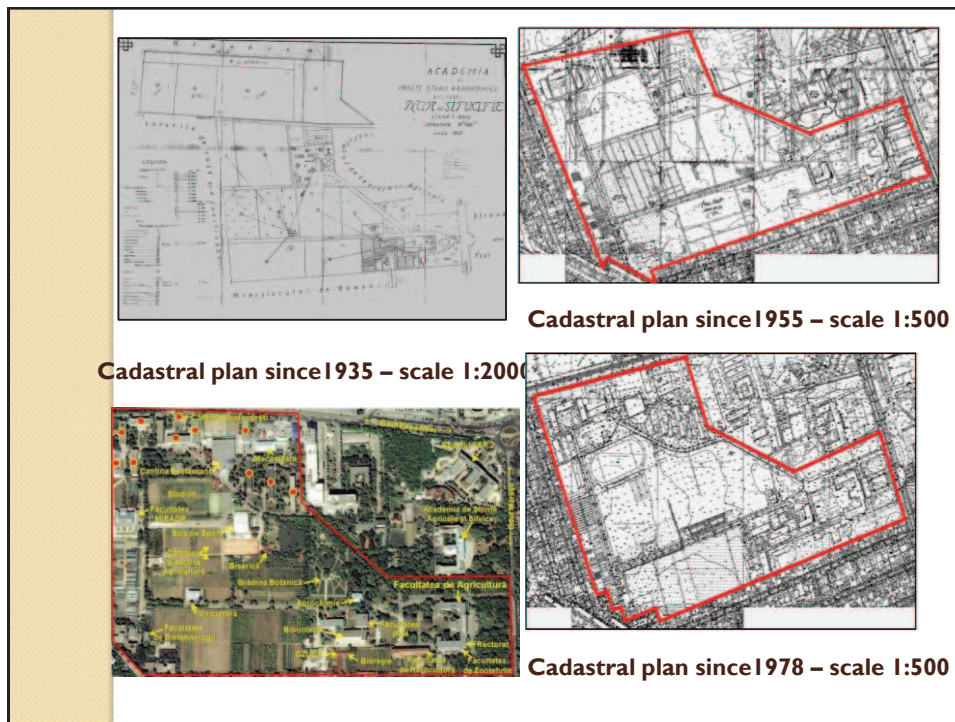
Picture made in 1940??

Picture made in 2014










Due to the increasing of student population and high demand on academic facilities, the university is undergoing a structural change


The university wants to preserve its structural history in digital form, which can be retrieved at any desired time and form

Past "Chemistry laboratory" building - history




- Height regime S+P+2E (2nd floor built between 1964-1966)
- Still retains the laboratory use

Present


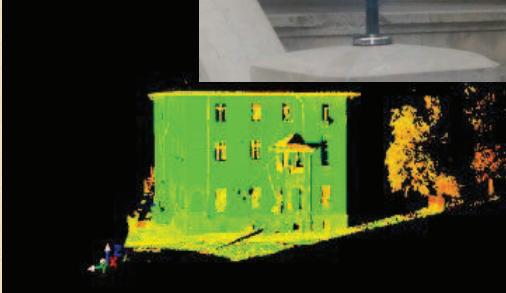



- Built between 1925-1927
- Height regime S+P+1E+attic



Main entrance of the building - damages

Use terrestrial laser scanning technique, to provides a fast solution for a complete data set



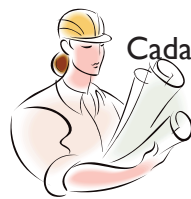
NATIONAL PROGRAMME FOR CADASTRE AND LAND BOOK IN ROMANIA



Program objectives 2015 - 2023



FREE registration for ALL administrative territorial units




Cadastral map for all our country



Register the possession instead of property
Open the land book for all proprietaries




Solving inheritance




Romania
3181 units
40 000 000 properties




RURAL: 2.861 units
32.000.000
properties
80%




URBAN: 320 units
8.000.000
properties
20%



Today are registred
(source NACLR)
9.072.200
22,68%





~ 1,2 miliarde euro



Money from NACLR
900 mil. euro

EU
312 mil. euro



Money from local budgets

What we did... CESAR project when we registered 51 units



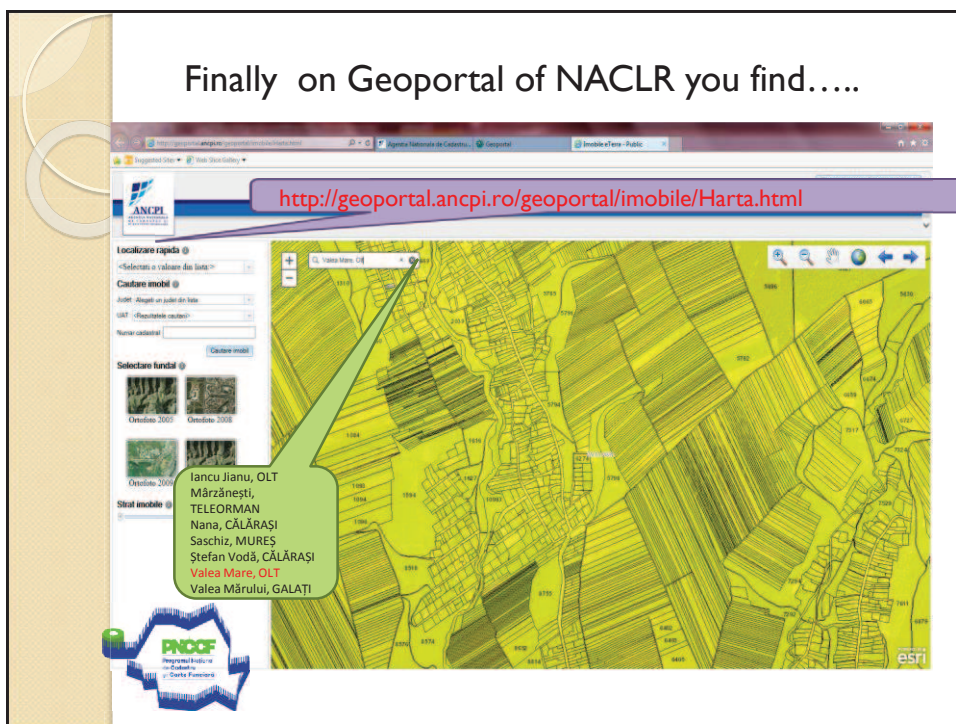
Citizens know ???

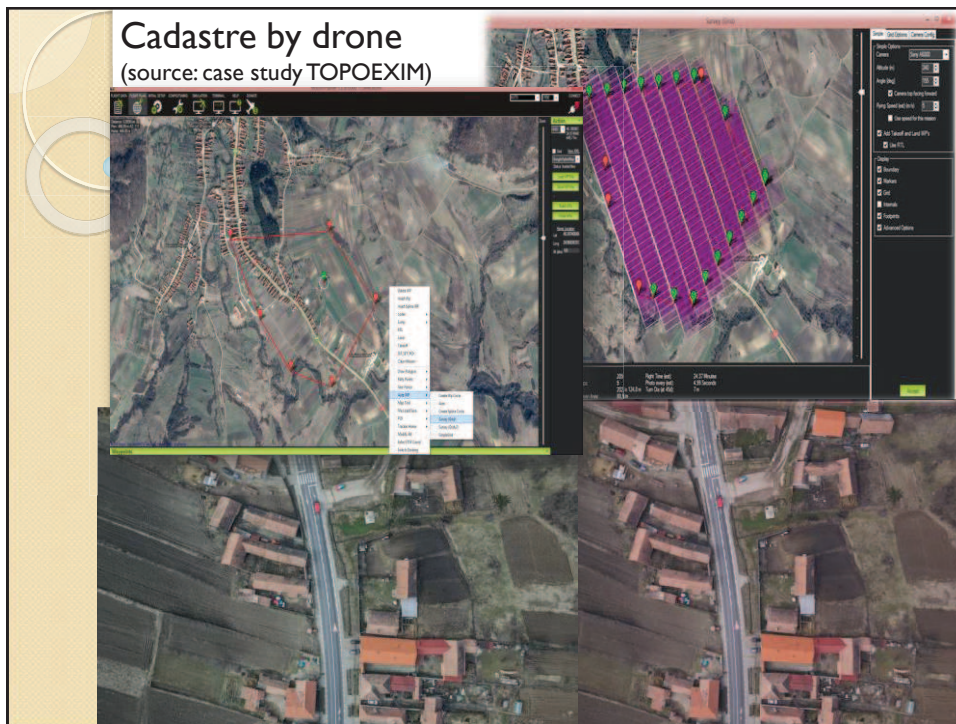
Did we made it ... ?





Finally on Geoportul of NACLRL you find.....





Back where we started

Now few answers !

Technology helps but do not replace us!

Climate changes happen because we challenge !

Changes can be monitored but can not be removed !

What do you think???

Can we Map the Future?

It is impossible to preserve **all**
and not having any developments!

Use the technology with intelligence end never
forget that we are the users !

