

EUROPEAN GROUP of SURVEYORS GENERAL ASSEMBLY



Professional Opportunities for Surveyors

Assoc. Prof. Dr. Rahmi Nurhan ÇELİK

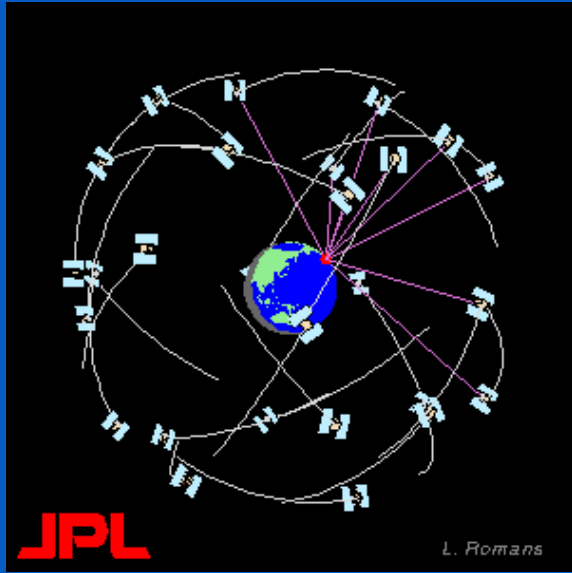
Istanbul Technical University

Vice President of EGoS

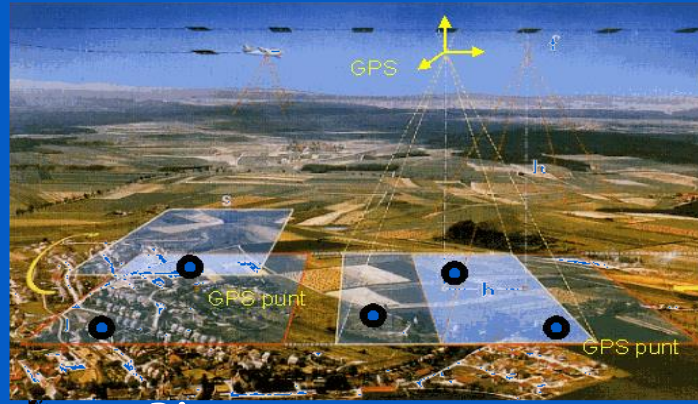
12 March 2011

Thessaloniki, Greece

What is our origin?



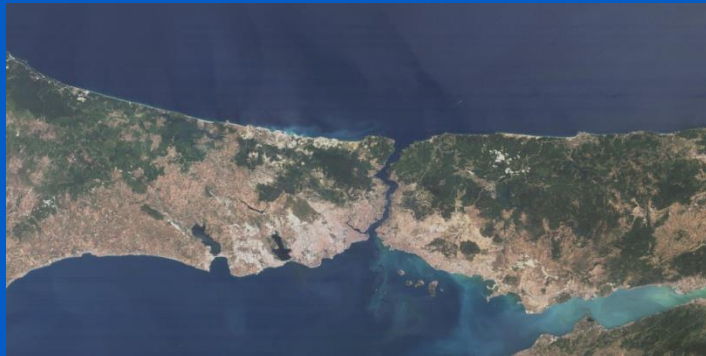
Geodesy



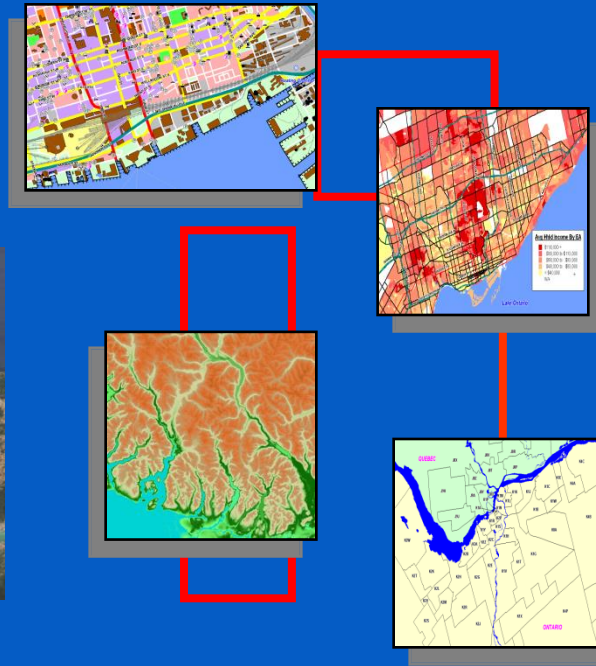
Photogrammetry



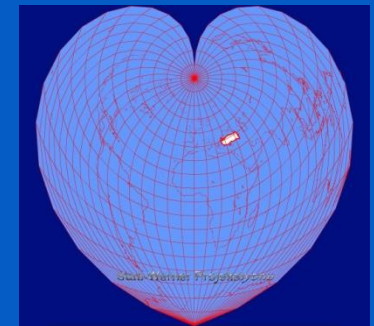
Surveying Tech.
Public Surveying



Remote Sensing



GIS



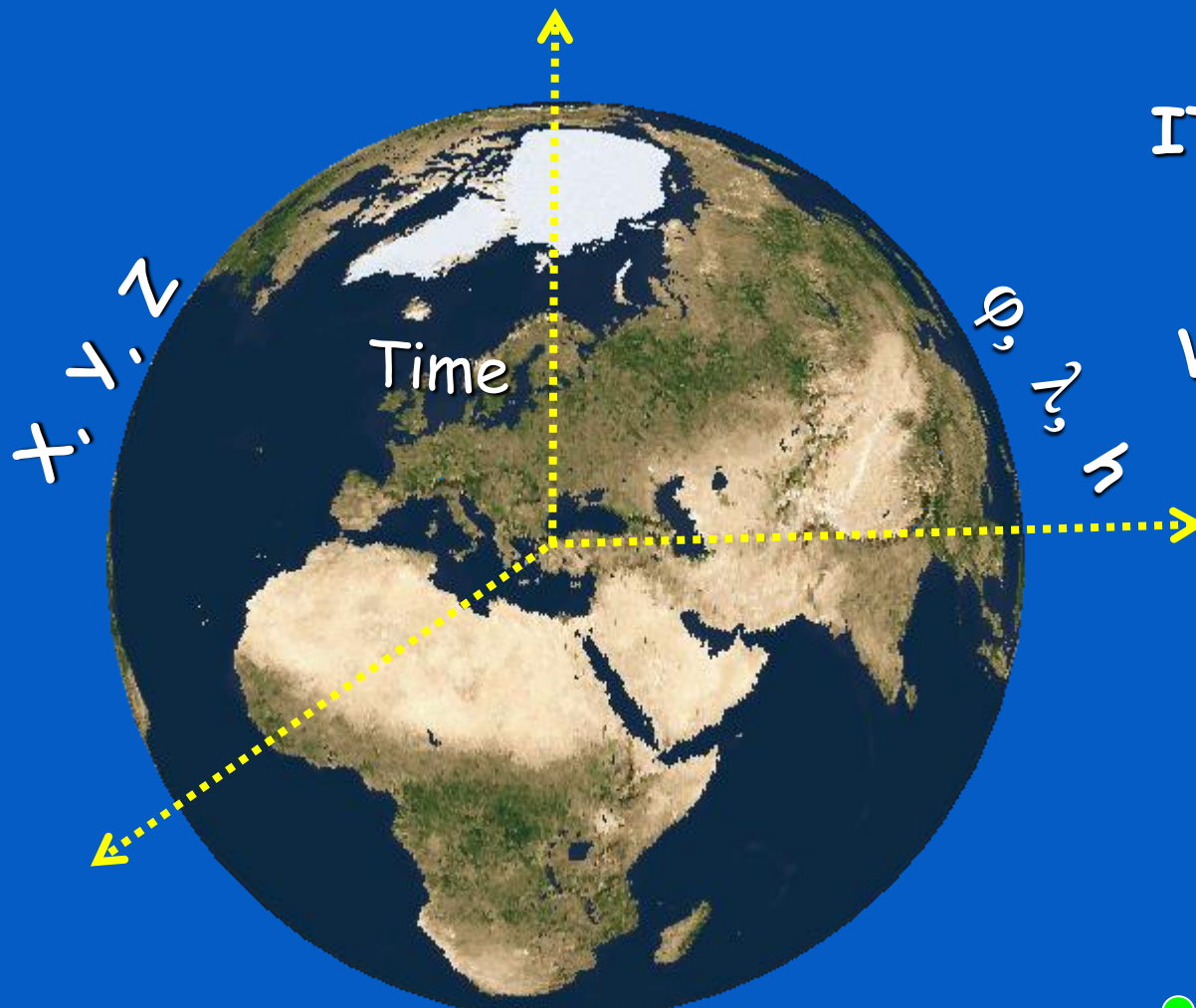
Cartography

ED50

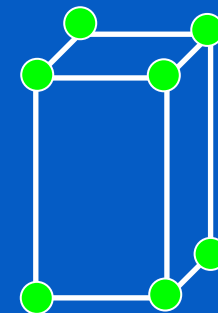
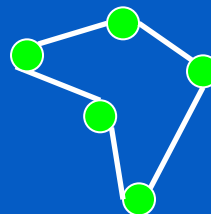
ITRF??

OSGB36

WGS84



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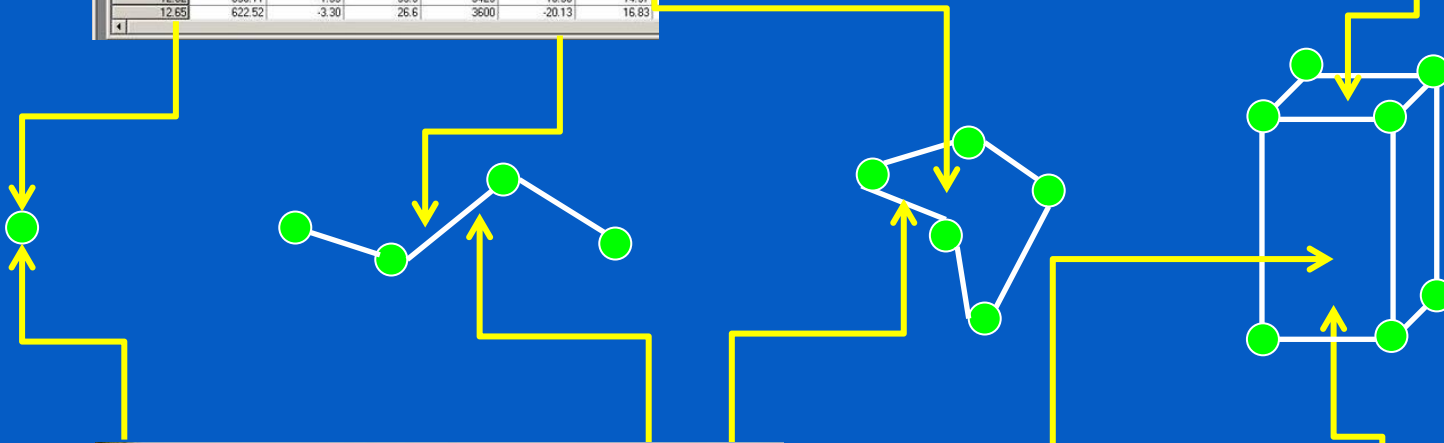
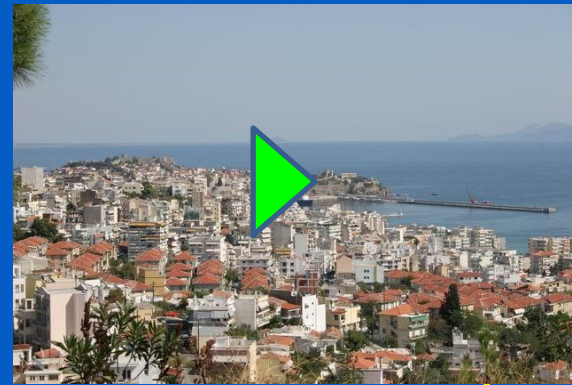


RWS Flight Edit View Tabular Plots Messages Tools Window Help

Station ID: KJAD Station Name: Sterling, VA Station Index: 72403

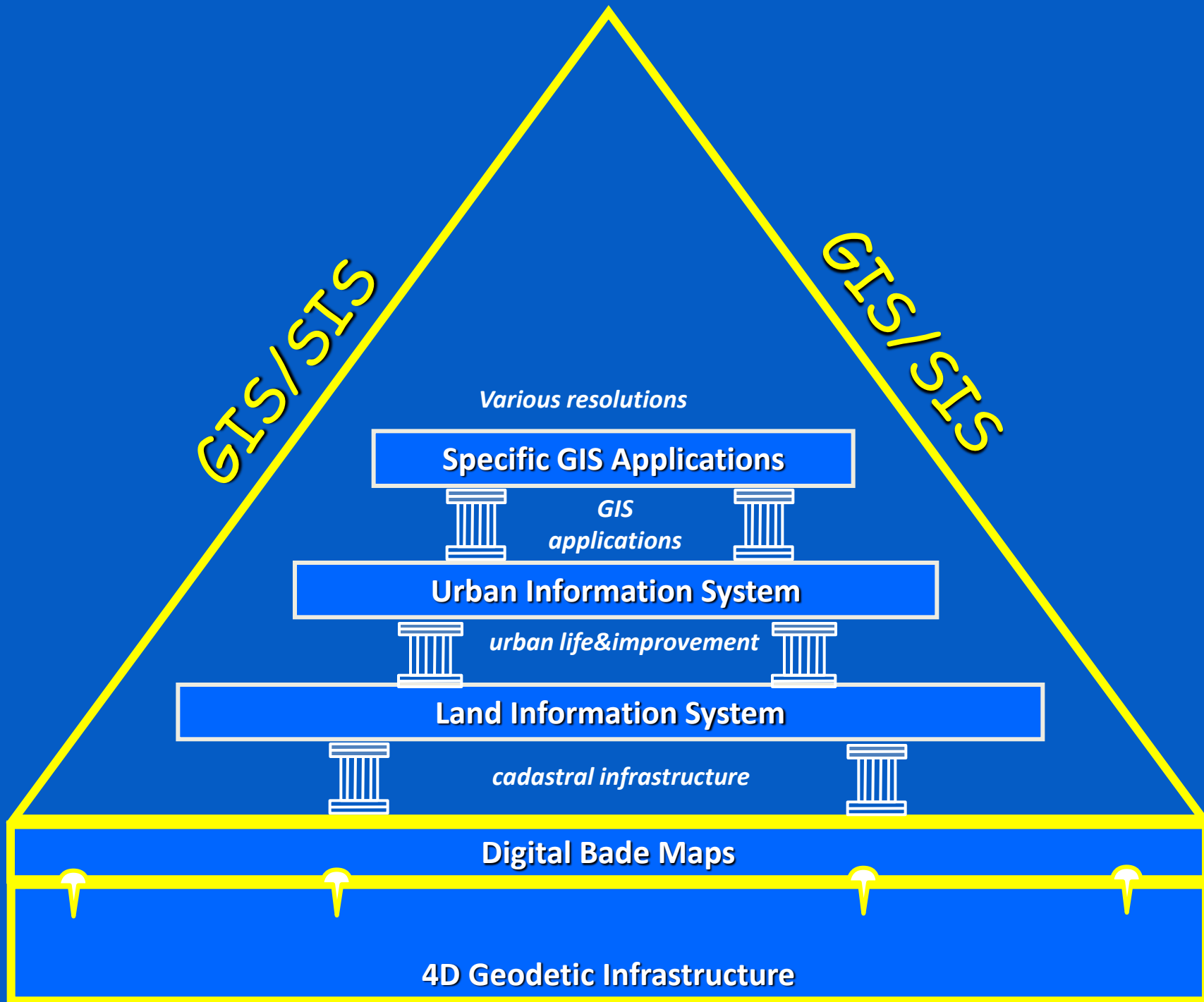
WMO Levels Tabular Display

Elapsed Time (Minutes)	Smoothed Pressure (hPa)	Corrected Temperature (C)	RH (%)	Geopotential Height (m)	Dewpoint Temperature (C)	Dewpoint Depression (C)
0.00	955.40	13.90	23.0	85	-7.31	21.21
0.03	955.43	12.90	19.8	85	-10.06	22.96
0.06	955.20	12.90	19.8	87	-10.06	22.97
0.40	945.18	15.80	16.8	176	-9.78	25.58
0.63	931.40	15.90	15.0	300	-11.09	26.99
0.90	928.72	15.89	14.9	324	-11.22	27.11
1.02	925.00	15.64	14.8	358	-11.50	27.14
1.86	898.87	13.52	16.4	600	-11.94	25.46
2.84	867.22	11.32	19.0	900	-11.85	23.17
3.02	861.28	10.89	19.6	957	-11.84	22.73
3.38	850.00	10.61	20.6	1067	-11.45	22.07
3.38	850.00	10.61	20.6	1067	-11.45	22.07
3.81	836.49	9.86	20.9	1200	-11.90	21.76
5.30	777.85	7.60	16.2	1800	-16.87	24.47
6.33	749.30	5.97	14.6	2100	-19.40	25.37
7.39	738.35	6.29	13.6	2227	-19.57	26.25
7.50	735.14	6.20	14.8	2263	-19.06	25.26
8.04	722.87	5.01	21.5	2400	-15.61	20.62
9.02	702.78	2.99	30.2	2629	-13.18	16.16
9.14	700.00	2.83	30.5	2661	-13.20	16.03
9.30	696.63	2.51	30.6	2700	-13.44	15.95
11.00	658.82	0.00	29.6	3149	-16.02	16.02
12.02	636.11	-1.93	33.3	3429	-16.30	14.37
12.65	622.52	-3.30	26.6	3600	-20.13	16.83



Element	Scheme	Value
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		WorldKeyMap
		worldocean
		usa_states_1m
		world_cities
		esri_country
		grid5degree

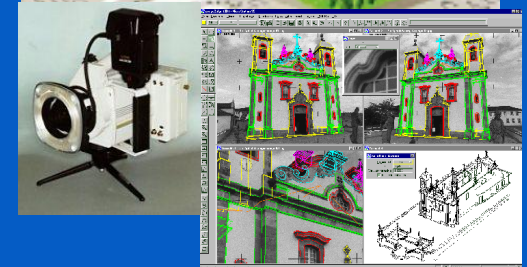
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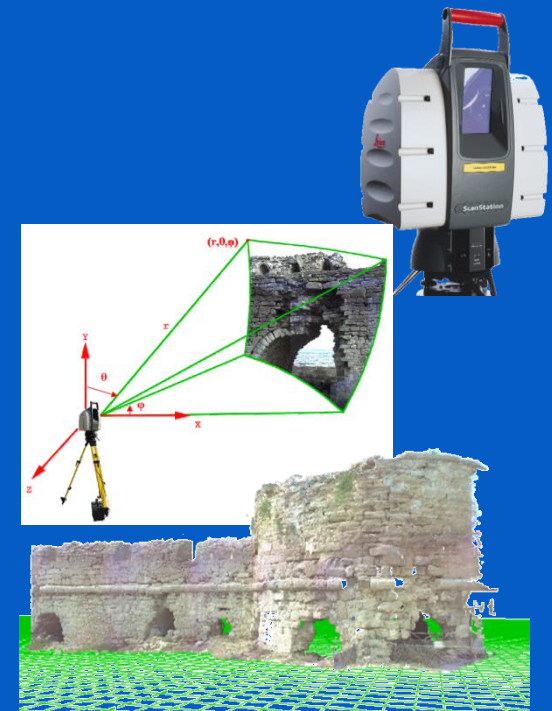


Technologies

- Communication : Line- Radio- GSM...
- Internet: Line – Wi-Fi- GPRS- 3G...
- Positioning: GPS/GNSS, Reflectorless Total Stn.
- 3D Scanning: Laser Scanner
- Monitoring : Motorized High Tech Instruments
- GIS/SIS Hardware & Software Infrastructure
- Industrial Surveying: Laser Tracker
- High resolution remote sensing images

Technologies





Total Station + GPS/GNSS + Laser Scanner

We should be more creative...

Information Society ->

Geoinformation Society ->

Spatial Thinking->

Spatial Thinker...



Geomarketing

We

produce spatial information &

link them with any other data &

serve them in a most efficient way

However this is not sufficient anymore,

We should be the user of data we produce.

We should try to understand power of this data.

Not only producer surveyor should be the manager of the data, since the future is for managers not for producers.

Think what you have on your hand!

Technology takes the load of your work, it is time to think about what else you can do?

Opportunities needed to be discovered?

A Day Made of Glass...

Good luck!