



EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:
ENHANCING THE GEOSPATIAL MATURITY OF SOCIETIES
6–11 May 2018, Istanbul

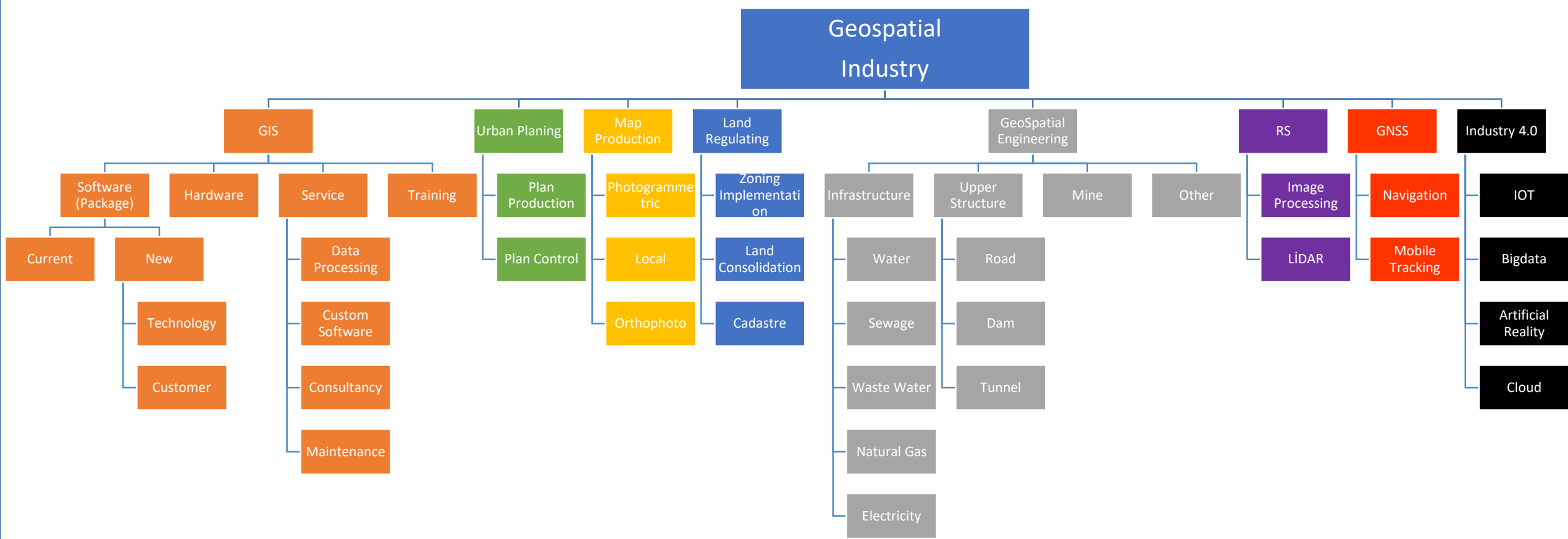


GEOSPATIAL DATA MANAGEMENT FROM LOCAL TO CENTER

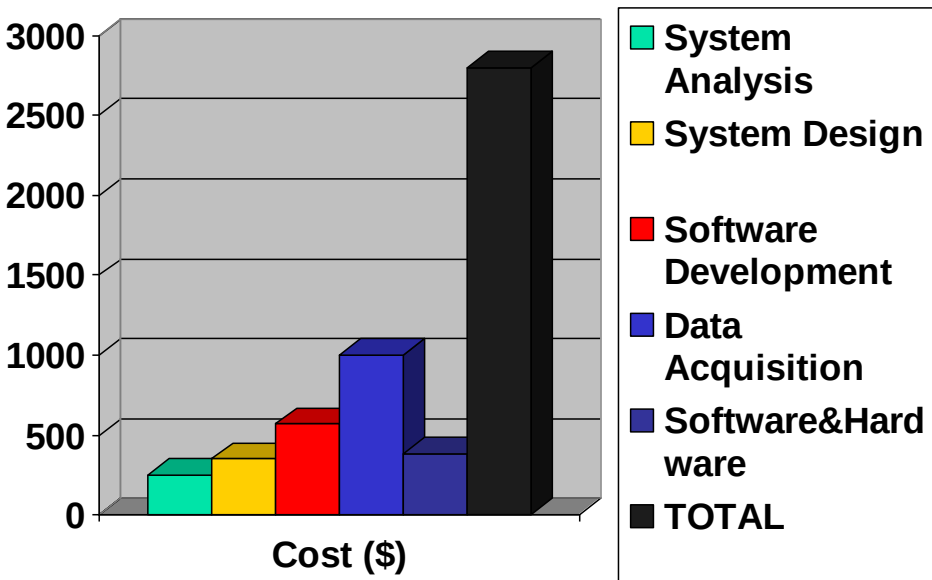
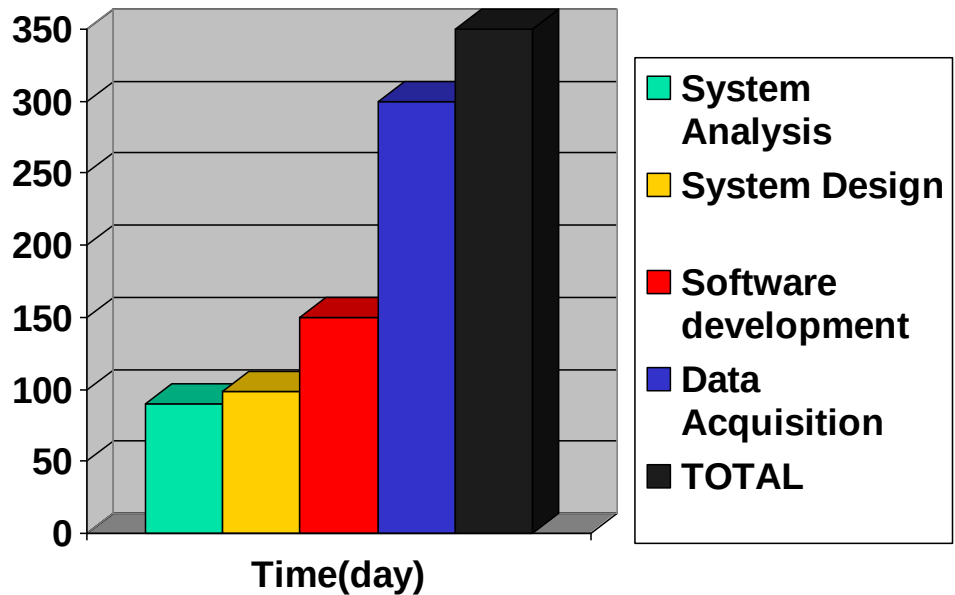
Dr. Emin BANK
Representative Of The NETCAD
emin.bank@netcad.com.tr



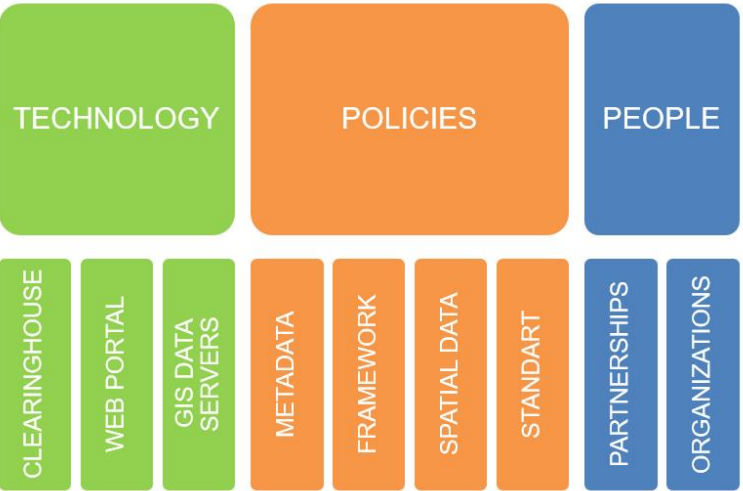
*Because the value of spatial position is getting better day by day,
the geospatial sector has been growing in importance in recent years...*



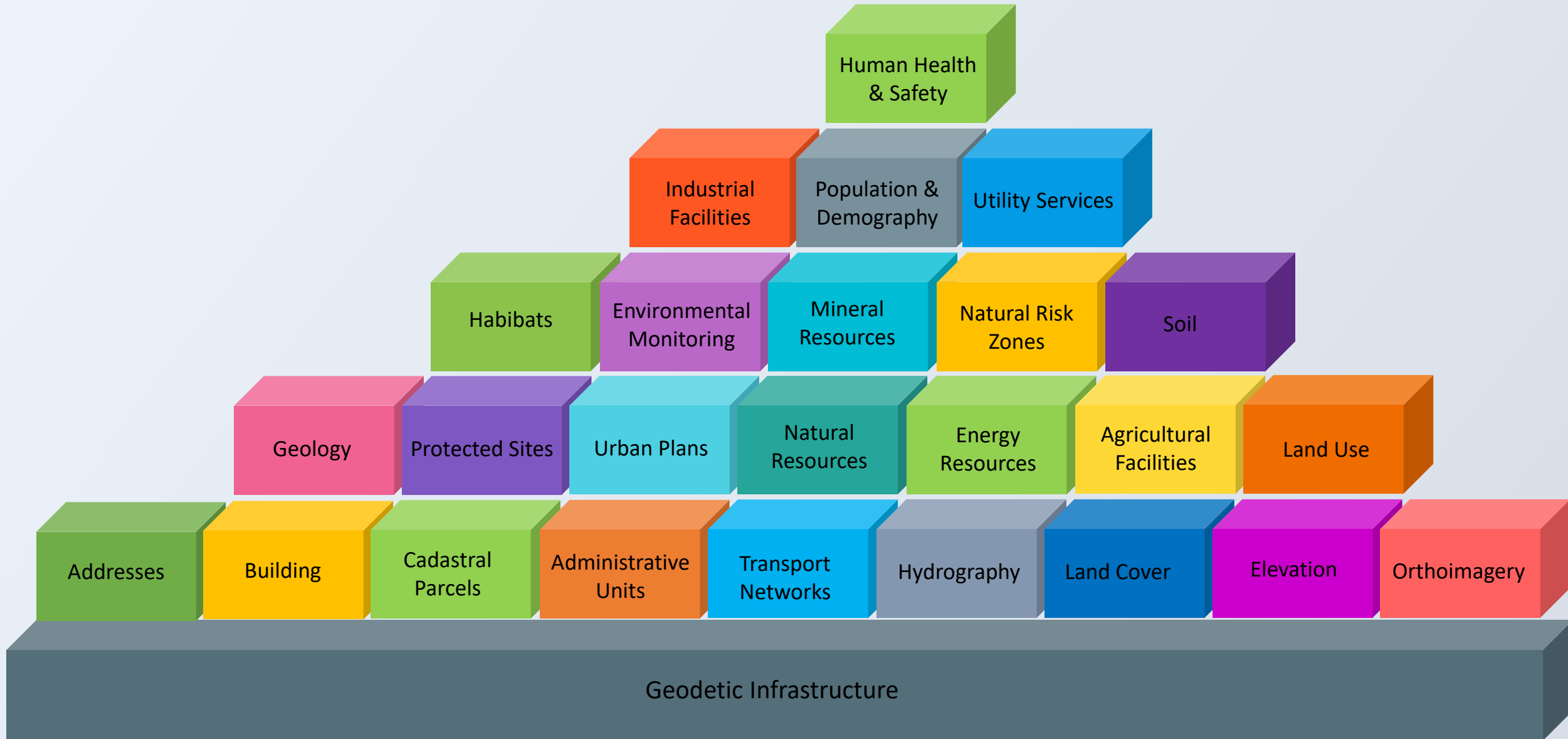
GEOSPATIAL DATA SERVICES IN GIS PROJECTS



NATIONAL SPATIAL DATA INFRASTRUCTURE



The Spatial Data Infrastructure Of One Country Contains Many Data Sets



SPATIAL DATA IN THE PROCESS OF TRANSFORMATION FROM RURAL TO URBAN AREAS



MAP-IMAGE

- Base Map
- Land Model
- Aerial Photo
- Orthophoto
- Satellite Image



SPATIAL PLANING

- Landscaping Model
- Master Development Plan
- Implementary Development Plan



LAND REGULATING

- Zoning Allocation
- Parceling
- Numbering - Address
- Expropriation
- Consolidation



INFRASTRUCTURE

- Water
- Sewage
- Rain Water
- Electricity
- Natural Gas



UPPER STRUCTURE

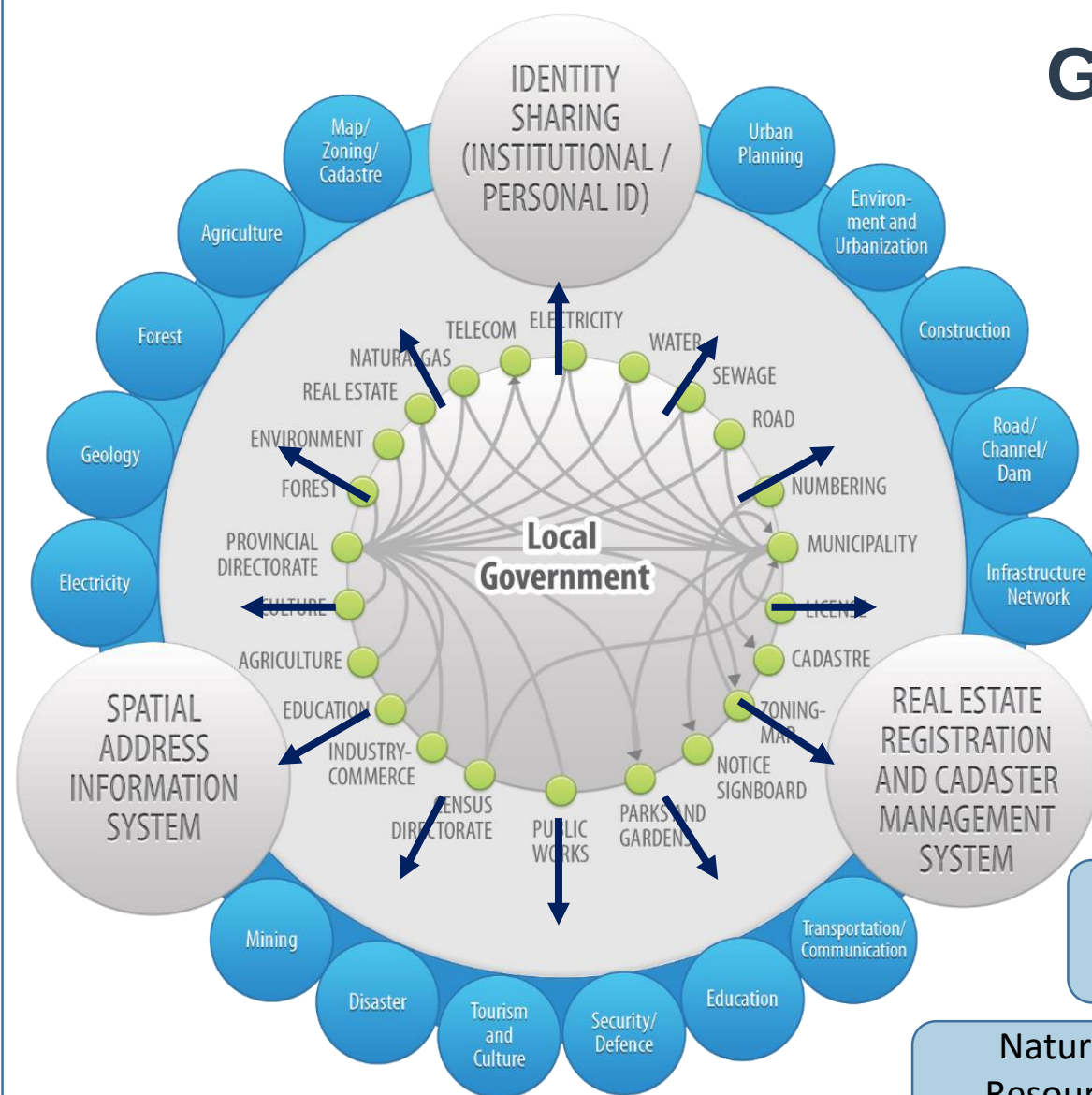
- Road
- Park-Gardens
- Gallery/Tunnel
- Dam



Year	World Urban Population	Turkey Urban Population
1950	%30	%25
2017	%55	%74
2050	%66	%88

GEOSPATIAL DATA FROM LOCAL TO CENTRAL

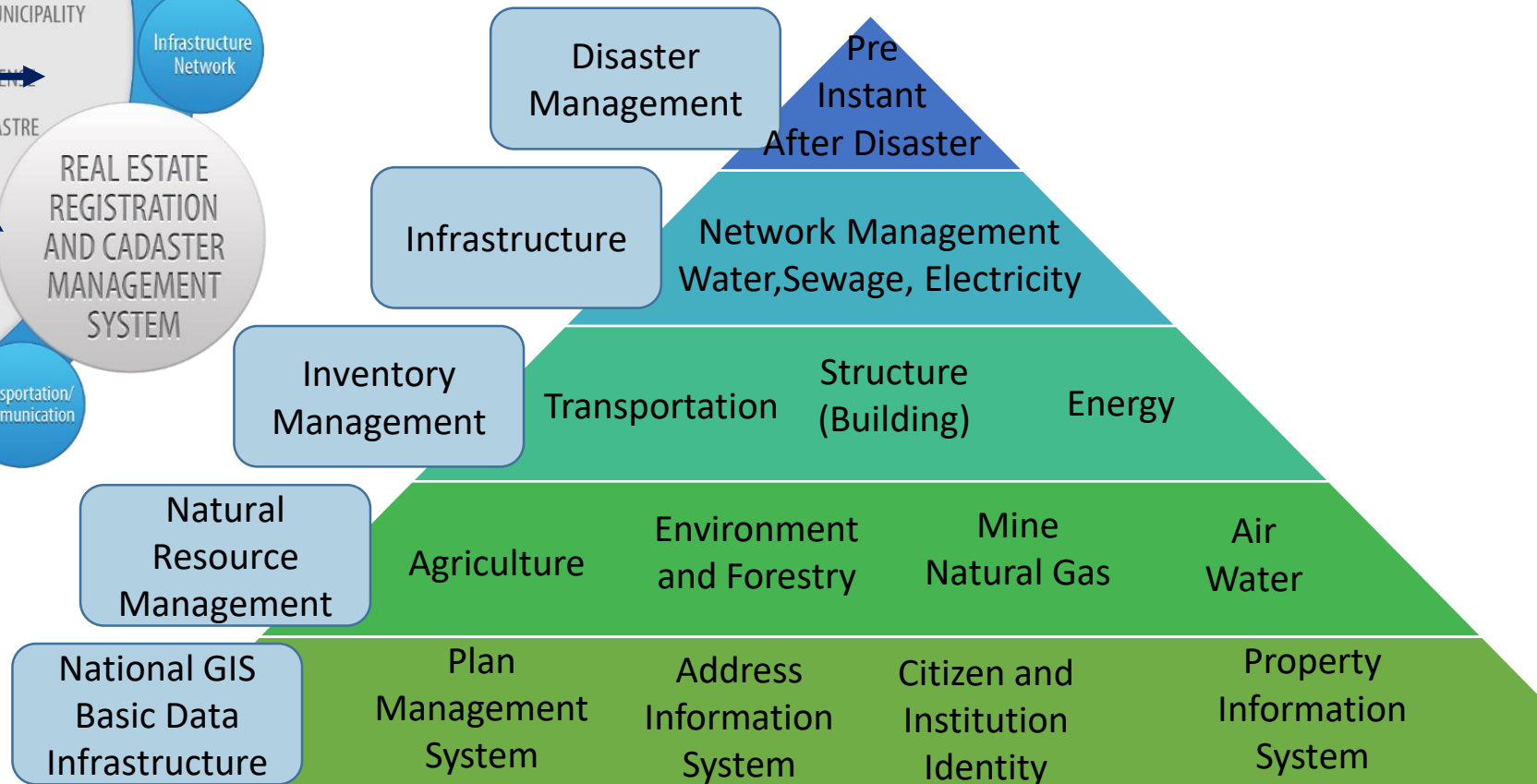
85% of the spatial data in Turkey is produced with Netcad software.



Geographic Data Occur With Projects
By Local Authorities...

Central Authorities Manages

The Geographical Data in National Level...



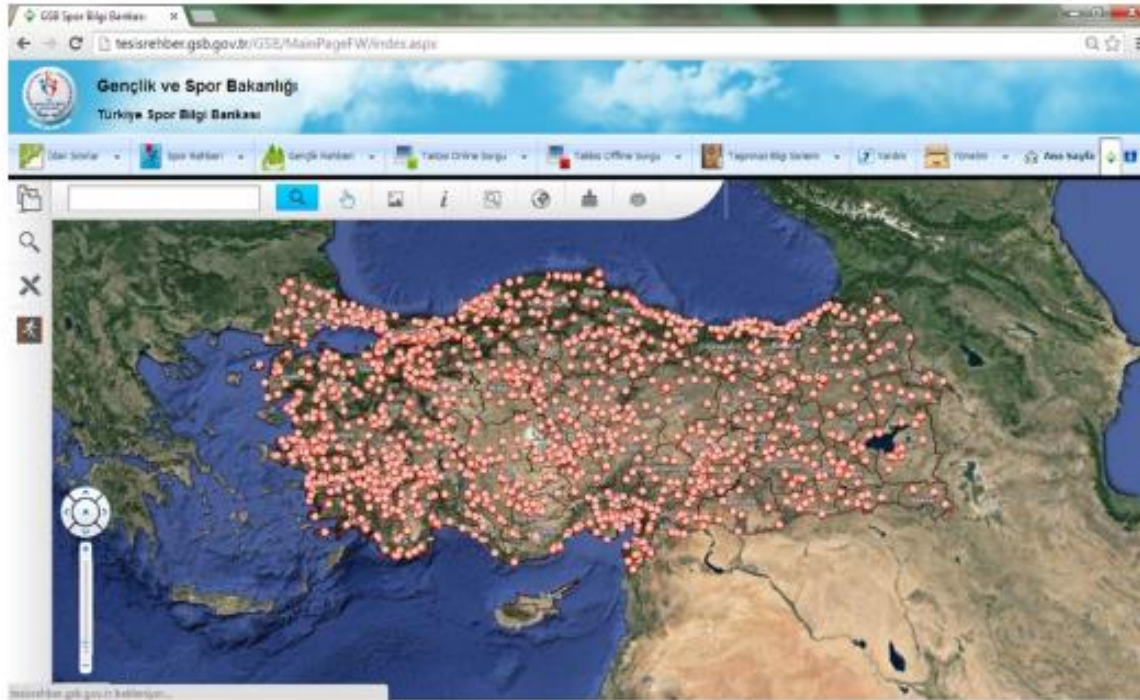


CENTER





DATA BANK OF MINISTRY OF SPORT



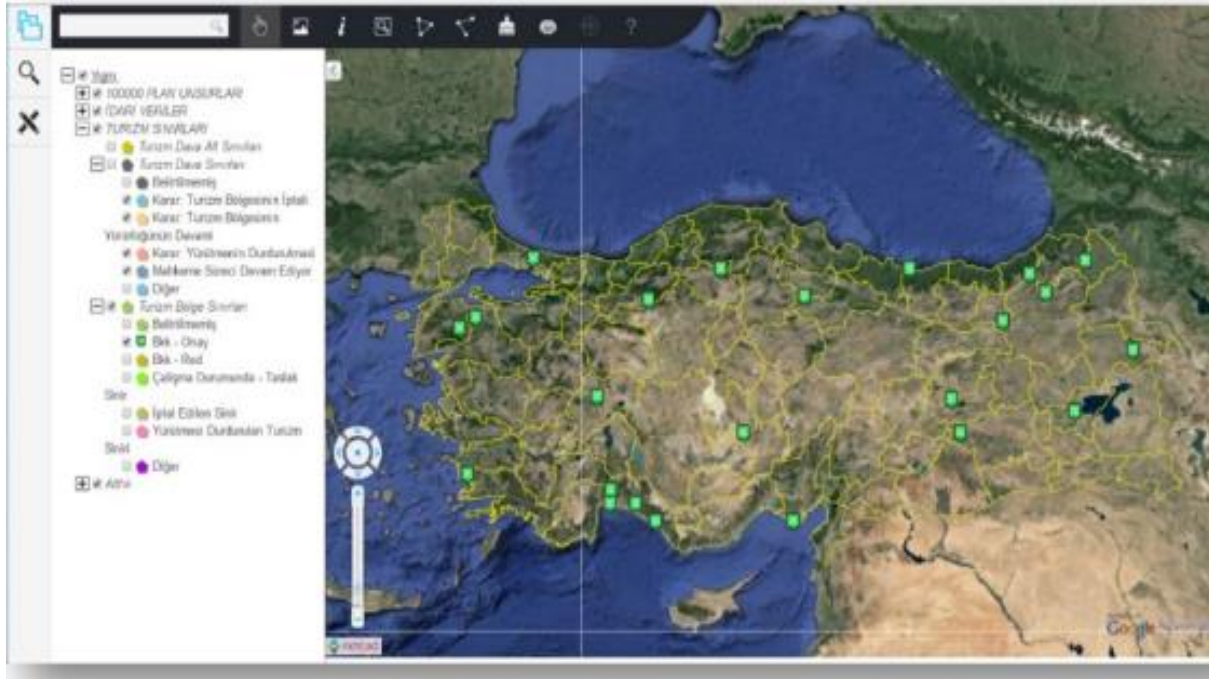
Institution General Directorate of Sport

User General Directorate and 81 Provincial Directorate
250 Users

Managed by Netcad Turkey Sport Facilities
Real Property
Youth Centers/Camps
Dorms
Administrative Buildings
...



TOURISM PLAN PORTAL



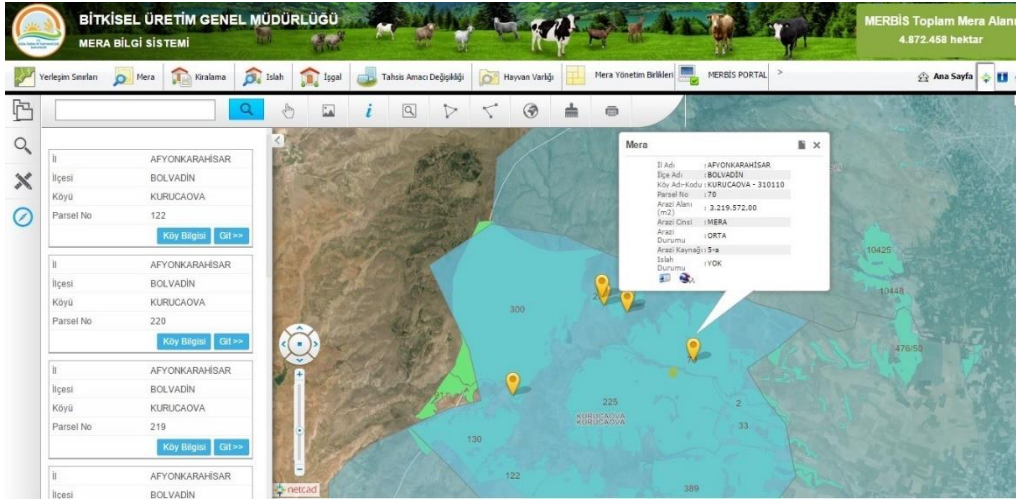
<u>Institution</u>	Directorate General of Investments and Enterprises
<u>User</u>	General Directorate 60 Users
<u>Managed by Netcad</u>	Turkey wide - Tourism Region Borders - Zoning Plans - Plan Changes - Land Allocation

PASTURE INFORMATION SYSTEM



Data sets managed by NETCAD software

- ✓ Turkey Pasture Asset
- ✓ Income and Expense Tracking
- ✓ Allocation
- ✓ Occupation
- ✓ Migrant Information
- ✓ Livestock Asset



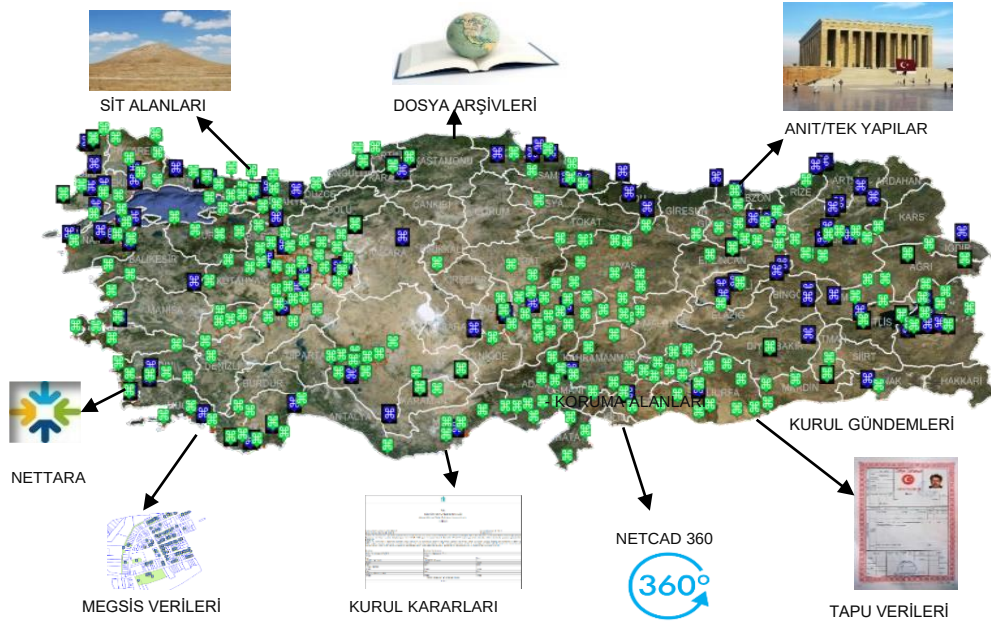
General
Directorate of
Plant Production

All (81)
Provinces

561 Netcad
Users



PROTECTED AREA INVENTORY SYSTEM



Data sets managed by NETCAD software

- ✓ Registered Cultural Property of Turkey
- ✓ Monuments and Unique Structures
- ✓ Protected Areas

General Directorate of
Cultural Heritage

**All (36)
Commissions**

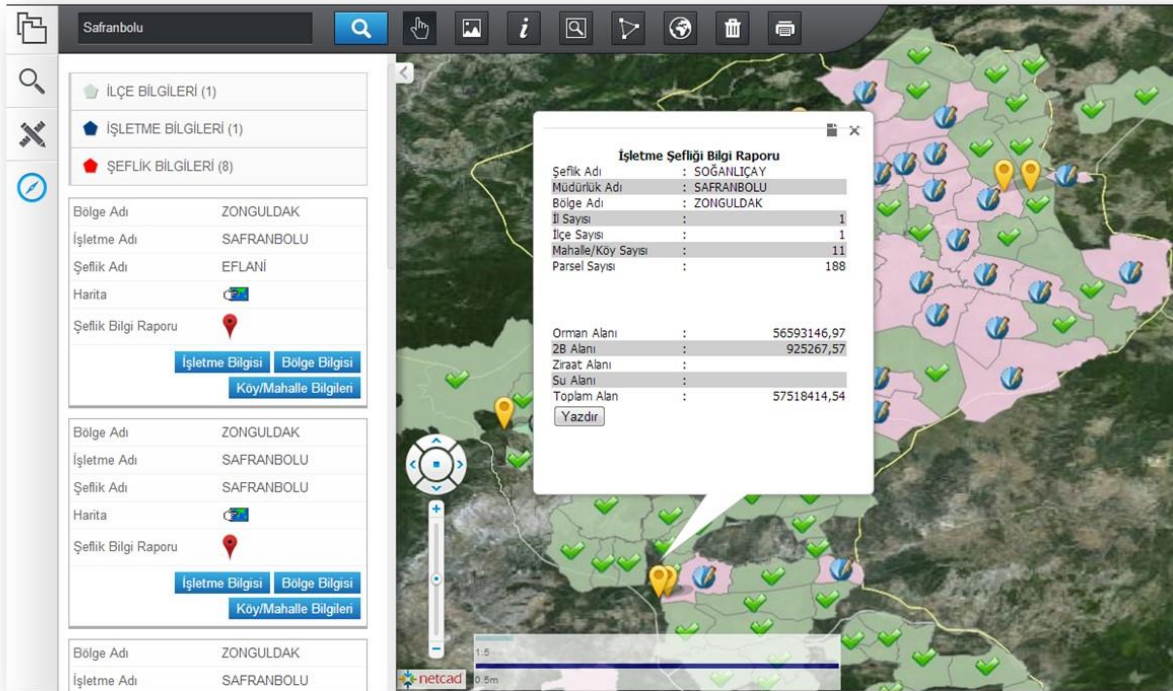
250 Netcad Users



FOREST CADASTRE INFORMATION SYSTEM

Data sets managed by NETCAD software

- ✓ Turkey Forest Cadastre
- ✓ Business Programs
- ✓ Land use and land cover in forest areas



General Directorate of
Forestry

All (81) Provinces

370 Netcad Users



BRIEFLY NETCAD

- ❑ Marketshare: **%85**
- ❑ Licence: **+40.000**
- ❑ Users: **+100.000**
- ❑ Staff: **+160**
- ❑ Location:
 - Ankara Headquarters
 - Marmara Region Office





REFERENCES

- ❑ **1000** Public Sector
- ❑ **800** Municipalities
- ❑ **5.700** Private Sector Firms
- ❑ **92** Universities **694** Departments



- ❑ **5.000** Netcad Campus Certificate Each Year
- ❑ Netcad Portal Members: **+ 50.000**



THANK YOU



bilgi@netcad.com.tr



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