The Importance of Integration Solutions in Spatial Data Applications

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WHO IS NETCAD

✓ Netcad is a pioneer **software** company in Turkey.
✓ Provides **Project** service for Geographical Information Systems.
✓ Used for **Educational** purposes,
✓ and expanding **Internationally**.

❖ Market Share: **%85**
❖ Licence: **+20.000**
❖ Users: **+100.000**
❖ Employees: **+150**
❖ Location:
  ❖ Ankara Headquarters
  ❖ İstanbul Region Office

REFERENCES

Netcad's products and solutions are widely used in Turkey.

Market share of Netcad Technologies in Turkey has grown to **% 85**.

- 800 Municipalities
- 75 Special Provincial Administrations
- 40 Organized Industrial Zones
- 950 Public Authorities
- 4.500 Private Companies

prefer to work with Netcad.
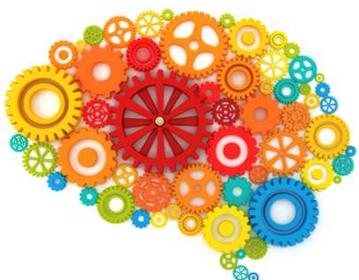
NETCAD SECTORAL SOLUTIONS

CAD & GIS & Remote Sensing Solutions:
- *Mapping,*
- *Cadastre,*
- *City and Region Planning,*
- *Environment Management,*
- *Agriculture,*
- *Geology,*
- *Forestry,*
- *Transportation,*
- *Urban Automation System,*
- *Land Information System,*
- *Disaster Information System.*

Engineering Solutions
- *Waste Water,*
- *Irrigation,*
- *Drinking Water,*
- *Road & Tunnel & Dam Design,*
- *Mining*

"Netcad has more than 30 desktop, web, mobile and cloud solutions. Projects and products are completely developed through Netigma, a web based software platform developed by Netcad."

QUALITY

Capability Maturity
Model Integration (CMMI)
Level 3

Open Geospatial Consortium (OGC)
Compliancy
(Associate Member)

ISO 9001
Quality
Management
System

ISO 14001
Environment
Management
System

ISO 27001
Information Security
Suffeciency
Certificate

IT Technologies
Service Suffeciency
Certificate

FUNDED INTERNATIONAL R&D PROJECTS

ON-GOING PROJECTS

❖ FOODIE (**F**ARM **O**RIENTED **O**PEN **D**ATA **I**N **E**UROPE)
  ✓ TOTAL: 12 Partners
  ✓ PROJECT LENGTH (36 Mnts)
❖ ASUA (**A**DVANCED **S**ENSING FOR **U**RBAN **A**UTOMATION)
  ✓ TOTAL: 25 Partners
  ✓ PROJECT LENGTH (36 Mnts)
❖ C3PO (**C**ollaborative **C**ity **C**o-design **P**latf**O**rm)
  ✓ TOTAL: 17 Partners
  ✓ PROJECT LENGTH (36 Mnts)

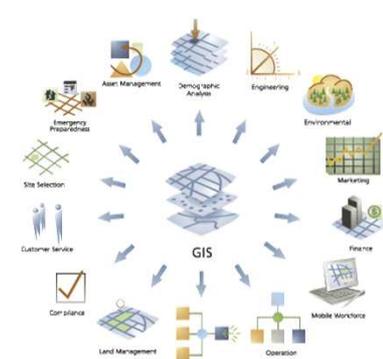**COMPLETED PROJECTS**

❖ DICOMA
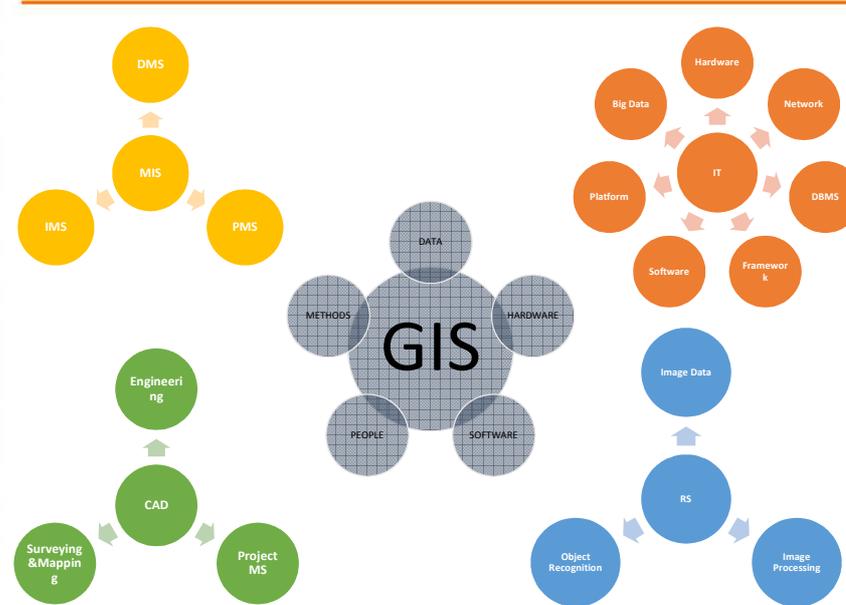 ✓ TOTAL: 16 Partners
  ✓ PROJECT LENGTH (30 Mnts)

The Importance of Interoperability and Integration

❑ Different departments...
  ❑ Different data structures...
    ❑ Different projection systems...
      ❑ Differenet formats...
        ❑ Different platforms...

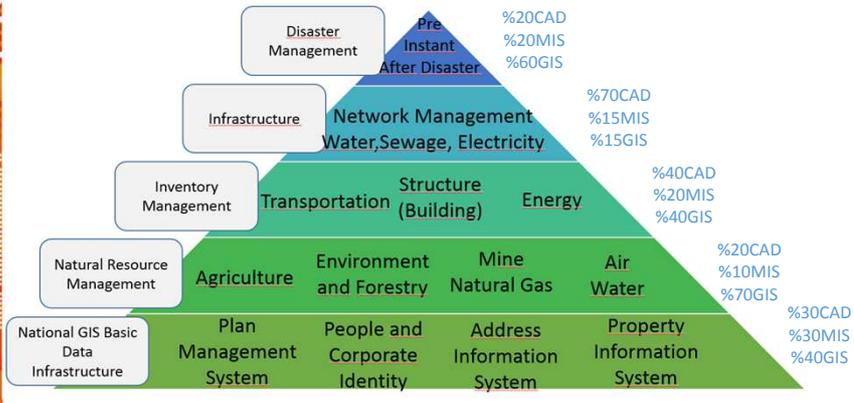## GIS Provides an Interoperability and Integration Platform

Through GIS...

- ❑ Reach all the data fast and easily
- ❑ Extended query and analysis opportunity
- ❑ Realize the reporting process simply
- ❑ The inclusive thematic mapping
- ❑ Through sharing all the data via web

SPATIAL-DATA-BASED PROJECTS...

INSPIRE…

Links with the
INSPIRE initiative

INSPIRE Information Flow

The Studies in Turkey…

❑ Initial National GIS works in Turkey is dated back to 1990's.
❑ A new regulation was published as INSPIRE directive
❑ Which data will be SHARED in which STANDART and by WHOM, is defined.
❑ All the data should be stored within 3-4 years.

Kaynak: Etem Akgündüz Sunumu
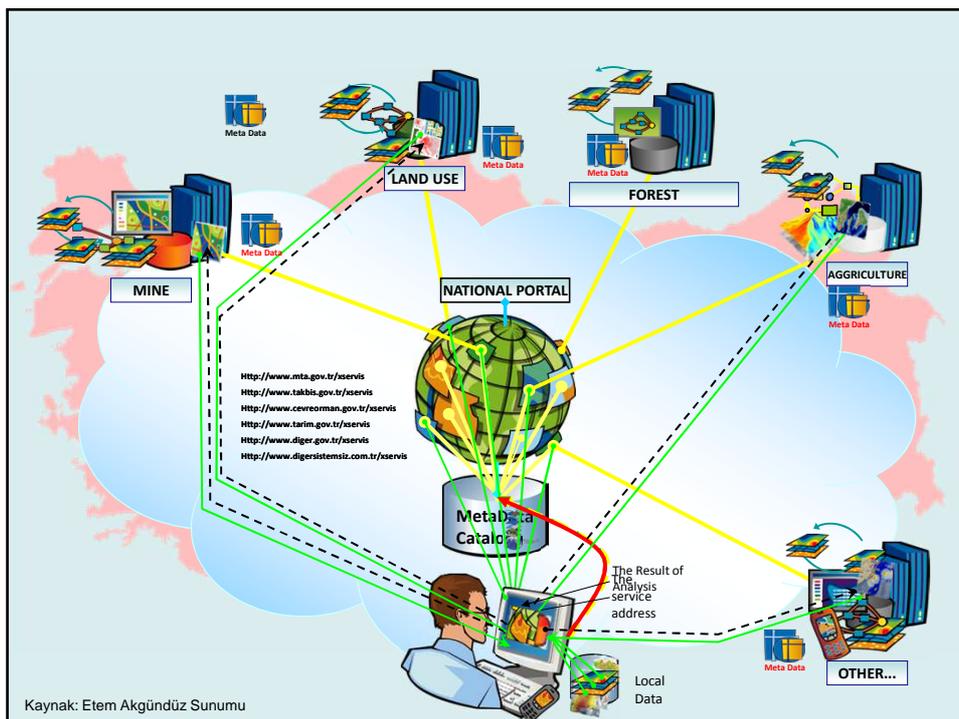
The Fundamental Needs for Building National SDI

✓ The institutions, responsible for the data, have to transfer all the CAD data into the GIS structure and register metadata to the national portal.
✓ Integration of the current process automations with GIS will provide them very important advantages.
✓ Different type of GIS platforms should interact with each other.
✓ E-government services have to be used too.

Netcad has developed various solutions to meet all that needs.

Netcad provides very important tools to the users for having them to transfer all their current data to that platform in a simple way, to use the data in different platforms as integrated and to create portals.
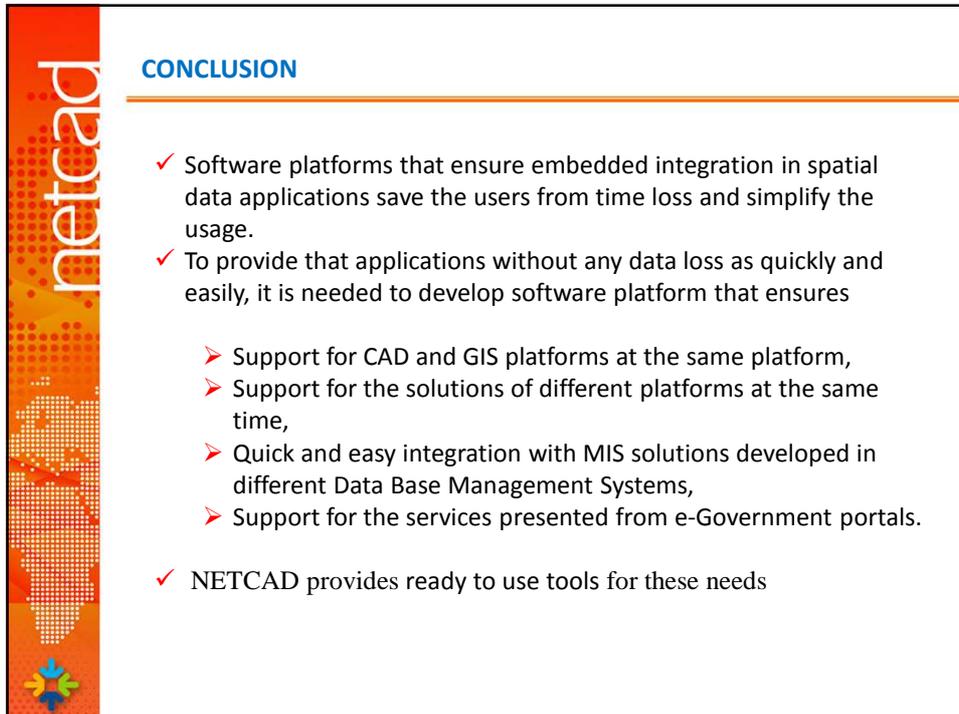
NETCAD Provides INSPIRE Data Theme DB Templates

NETCAD SOLUTIONS   CAD > GIS

Project File in CAD Format

Project Data in Web-GIS Platform

NETCAD SOLUTIONS GIS > GIS

NETCAD SOLUTIONS MIS > GIS

**MIS Table
(List of people who own the property tax liability)**

Visualization of the parcels in the GIS platform Related with MIS List Table

NETCAD SOLUTIONS GIS & E-Goverment

6 Send it to Parcel Servis (Upload)

5 Download the Parcels and Edit

4 Select & Query Parsel from Servis

3 View From the Parcel Service

2 Connect to Parcel Servis via WFS

1 Enter the Project File

CONCLUSION

✓ Software platforms that ensure embedded integration in spatial data applications save the users from time loss and simplify the usage.

✓ To provide that applications without any data loss as quickly and easily, it is needed to develop software platform that ensures

➢ Support for CAD and GIS platforms at the same platform,
➢ Support for the solutions of different platforms at the same time,
➢ Quick and easy integration with MIS solutions developed in different Data Base Management Systems,
➢ Support for the services presented from e-Government portals.

✓ NETCAD provides ready to use tools for these needs

THANK YOU…

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