The Importance of Integration Solutions in Spatial Data Applications

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

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.

“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.”

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

- Capability Maturity Model Integration (CMMI) Level 3
- Open Geospatial Consortium (OGC) Compliance (Associate Member)
- ISO 9001 Quality Management System
- ISO 14001 Environment Management System
- ISO 27001 Information Security Sufficiency Certificate
- IT Technologies Service Sufficiency Certificate

FUNDED INTERNATIONAL R&D PROJECTS

ON-GOING PROJECTS

- FOODIE (FARM ORIENTED OPEN DATA IN EUROPE)
  ✓ TOTAL: 12 Partners
  ✓ PROJECT LENGTH (36 Mnts)
- ASUA (ADVANCED SENSING FOR URBAN AUTOMATION)
  ✓ TOTAL: 25 Partners
  ✓ PROJECT LENGTH (36 Mnts)
- C3PO (Collaborative City Co-design Platform)
  ✓ 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...
- Different 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...

- Disaster Management
- Infrastructure
- Transportation
- Network Management
- Water, Sewage, Electricity
- Structure (Building)
- Energy
- Mine
- Natural Gas
- Agriculture
- Environment and Forestry
- Natural Resource Management
- Inventory Management
- Plan Management System
- People and Corporate Identity
- National GIS Basic Data Infrastructure
- Address Information System
- Property Information System
- Air
- Water
- %20CAD %20MIS %60GIS
- %15CAD %15MIS %70GIS
- %40CAD %20MIS %40GIS
- %20CAD %10MIS %70GIS
- %30CAD %10MIS %40GIS
- %30CAD %10MIS %40GIS
- %40CAD %20MIS %40GIS
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.
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
MIS Table
(List of people who own the property tax liability)

Visualization of the parcels in the GIS platform related with MIS List Table
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...

Dr. Emin BANK  
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