GEOSPATIAL AND MOBILITY

CORPORATE GEOGRAPHIC INFORMATION SYSTEM OF ADIF

Railway Infrastructure Administrator. Year 2009-2010

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COrporate GeoGraphiC information system of ADIF

ADIF.
Spanish Administrator of Railway Infrastructures
Year 2011

Objectives

Define a single technology platform that supports ADIF needs in relation to the graphic representation of business information. Establish the service platform that allows both an efficient integration of different GIS systems ADIF, such systems provide information available to the company, through simple processes, the ability to use GIS functionality.

Scope

Definition of Integration Strategy for ADIF
Implementation of GIS Technology Platform
Establishment of a Central Information Repository
Definition and Construction of GIS Specific Services
Change Management in setting brand in ADIF Corporate GIS

Benefits

Adif achievement by a Corporate GIS platform that enables integration of services and geographic data that can provide GIS tools and services for different users and Information Systems ADIF. ADIF make available Spatial Data Infrastructure (SDI) able to meet the objectives identified in this system. This will provide the ability to integrate solutions and services for mapping and spatial business processes ADIF.

Technology

Development language: Java (J2EE), Dynamic HTML and Dojo/JavaScript
Database: Oracle Spatial 11g R2
Spanish airports and airspace navigation (A.E.N.A.). Year 2006-20011
GEOGRAPHICAL INFORMATION SYSTEM OF AIRPORT RESOURCES

Spanish airports and airspace navigation (A.E.N.A.)
Year 2006-20011

Objectives

To profit corporate GIS functionality way of AENA.
Unify the way they work and standardize the information available at the various airports.
Giving a geographic value to existing applications.
Integrating GIS systems and databases currently in use.
Increase the quality and effectiveness of the Airport Management.
To provide a high capacity for future growth with new requirements.

Scope

Adequacy of existing modules in generic GIS AENA to current and future requirements of AENA.
The introduction of new procedures and visual modules in generic GIS AENA and integration with other enterprise systems AENA.
Customizing Generic GIS modules in the airports managed by AENA

Benefits

Unification and centralization of GIS services applies to all airports in Spain.
Support services and GIS functionality in various management systems and planning AENA.

Technology

GIS Software: ArcGIS Server, ArcSDE, ArcGIS Desktop
Development language: .NET
Database: ORACLE
ENVIRONMENT REMOTE MONITORING SYSTEM. MONR

ADIF. Spanish Administrator of Railway Infrastructures. Year 2011
ENVIRONMENT REMOTE MONITORING SYSTEM. MONR

ADIF.
Spanish Administrator of Railway Infrastructures
Year 2011

Objectives

Providing a rail sector environment for remote monitoring system in real time for the infrastructure elements of the High-Speed Rail network.
Provide a common and extensible framework for new monitoring systems aimed at ADIF users and rail operators.
Screen display of flow rail events in less than 5 seconds.

Scope

Real time monitoring system for the infrastructure elements of High-Speed Rail network: track circuits, rail turnouts, signals, blocks, trains.
40,000 rail items monitored per High-speed railway line and 130 concurrent users.
Environment Integration for monitoring event publications based on bus.
Different types of viewers: a Geographic viewer, a Synoptic viewer and a Network viewer.

Benefits

Web access to any user of ADIF and rail operators.
Open and scalable environment for the incorporation of new monitoring systems easily.
Providing a common framework that allows the user to decide at any time the systems to be monitored and the ways of viewing.
High number of concurrent users with high yields.

Technology

GIS Products: ArcGIS Server, ArcSDE, ArcGIS Desktop
Programming language: Java (J2EE), Flex.
Database: Oracle

Indra reserves the right to modify these specifications without prior notice.
GEOSPATIAL AND MOBILITY

CORPORATE GEOGRAPHIC SYSTEM FOR DGT

CORPORATIVE GIS

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CORPORATE GEOGRAPHIC SYSTEM FOR DGT

Objectives

Provide the Spanish National Traffic Ministry with a corporate GIS able to graphically manage roads as well as centralize the information and geographical position relative to incidents, infrastructure elements and special transport.

Scope

Design and implementation of the necessary hardware and software platform for the launching of the corporate DGT GIS.

Benefits

It gives DGT geographical roads infrastructure and MPs, essential for the traffic elements allocation.
It automates and centralizes the georeferencial process of accidents, incidents, radars, inventory, real time information about infrastructure elements and works.
It endows with an optimal mechanism for freight routing planner based on road restrictions and physical network limitations.
Exploitation of geographic centralized information through advanced spatial-temporal queries.
Ease the decision making.

Technology

GIS Products: ArcGIS Server, ArcSDE 10 and ArcGIS Desktop (10)
Programming language: Java (JSF, Spring, OpenJPA) and .NET
Database: ORACLE Spatial
GEOSPATIAL AND MOBILITY

GEOGRAPHIC INFORMATION SYSTEM OF MADRID (SIGMA)

City Hall of Madrid. Year 2005-2008

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Objectives

Make available to all areas of Madrid City Council's corporate GIS technology platform that provides the basis for the development of new management systems, and allows for reuse of services and mapping.

Scope

Defining and implementing core software platform necessary for the implementation of corporate GIS Madrid City Council. Additionally the project includes the design and implementation of certain modules that provide generic services commonly used by each of the areas in need of GIS within the City of Madrid.

Benefits

Adaptation of Madrid City Council GIS through the definition and implementation of a corporate architecture of the system. Availability of a platform to manage, view and exploit geo-referenced information.

SIGMA provides a basis for building services to citizens with the aim of meeting the strategic e-Project Management: citizen-oriented, interconnected Management, Administration and integrated and efficient quality management.

Saving efforts when implementing these departmental management systems.

Technology

GIS Software: ArcGIS Server, ArcSDE
Development language: Java (J2EE)
Database: SQL Server
GEOSPATIAL AND MOBILITY

GIS MAINTENANCE MANAGEMENT AND CONSERVATION PARKS AND GARDENS

City Hall of Madrid. Year 2007

indracompany.com
GIS MAINTENANCE MANAGEMENT AND CONSERVATION PARKS AND GARDENS

Objectives

Provide DG Green Heritage a necessary tool in order to Plan, Manage and Monitor action programs for the maintenance of all elements under its jurisdiction. In turn, the system also provides and maintains the inventory of parkland.

Scope

The project consists of:
Subsystem Management of Parks and Gardens.
Business Subsystem Conservation.
Cartographic Inventory Subsystem.
Mobility Subsystem.

Benefits

Accurate tracking of the work of conservation of green areas.
Graphics Update inventory of items to keep.
Direct relationship between the Business Conservation (planning) and the City (validation and monitoring).
Make available to other areas of the City Council, the information consolidated by the Directorate General of Heritage Green.

Technology

GIS Software: ArcGIS Server, ArcSDE
Development language: Java (J2EE)
Database: SQL Server

Indra reserves the right to modify these specifications without prior notice.
GIS FOR URBAN GOVERNMENT IN MADRID

Urban GIS information on the intranet / internet Madrid City Council
Year 2008 - 2010

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Objectives

The GIS of Urbanism of the Area of Government of Housing and Urbanism is the corporative tool for the consultation of all the City-planning Information that the City council of Madrid produces. It publishes and integrates the graphical and alphanumeric data, produced by different systems, for technicals as administrative users.

Scope

Publish
- General Urban Development Plan
- Urban Planning
- Urban development Projects
- Urban Licences
- Digital Cartography of Madrid (CDM)
- Satellital Images and ortophotos
- Topographic Network, Geotecnic Network, etc

Benefits

Integrate all the information of urbanism in a GIS system, link graphical information with data provided for external systems dedicated to manage:
- Urban Licenses
- Urban Planning
- Land Management

Technology

Software SIG: ArcGIS, ArcGIS Server, ArcSDE.
Development language: Java (J2EE)
Database: Sql Server
Mobility applied to Valencian Community Electoral Process Monitoring, 22nd May.

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VALENCIAN COMMUNITY ELECTORAL PROCESS MONITORING

Mobility applied to Valencian Community Electoral Process Monitoring, 22nd May.

Mobile Solution for Apple iPad devices for the realtime monitoring of the participation progress and the provisional count at different levels (municipal, provincial and community) from local and regional elections in the Valencian Community the May 22nd, 2011.

Using tools and thematic representation procedures with the Valencian Community baseline cartography (range maps, bar charts, pie charts, etc...), to achieve a rapid and easy online interpretation of the scrutiny data.

Technology / Keywords

GIS Software: Bing Maps, ArcGis Server.
Programming language: Java (J2EE), Javascript, Objective-C
Mobile Platform: iOS iPad

Indra reserves the right to modify these specifications without prior notice.
GEOSPATIAL AND MOBILITY

URBAN PLANNING VIEWER OF MADRID IN ANDROID DEVICES

Mobility applied to Urban Planning.

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Content corporate tool mapping for the Department of Communities and Local Government in mobility environment.

**Multichannel solution (WEB / Mobile)** developed for Android mobile operating systems.

Tool to support the **needs of service request PG00M97 Management Plan and Urban Planning information through a new channel.**

Integration with Corporate Information Systems Madrid City Council (IAM) for consulting geographic information.

**Technology/ Keywords**

Mobile Platform: Android
Programming language: Java
GEOSPATIAL AND MOBILITY

iVIEWER MOBILE

GIS Solution for iPad for consulting georeferenced content.

indracompany.com
iVIEWER MOBILE

GIS Solution for iPad for consulting georeferenced content.

Navigation and view tool through a mobile device iPad.

Capacity to incorporate external mapping services (Google Maps, Bing Maps, etc.) and business customer’s cartography itself.

Spatial analysis tools for routing distance, optimal paths, graphic selection on the map, zoom, etc...

Own product developed by INDRA

Tecnology/ Keywords

GIS Software: ArcGIS
Programming language : Xobjects