WinGIS – the European GIS solution for logistic applications

DI Walter H. MAYER, CEO PROGIS AG

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WinGIS – The European GIS System

- WinGIS Basics
- Interfaces
- Add-ons and Modules
- Web Interface
- WinGIS mobile
From vision to reality

GI for experts

Situation anno 1994
- “Mainframe” dominated
- for “experts” only
- huge development cycles
- no applications
- not user friendly

PROGIS design criteria
- PC and Windows oriented
- intuitive user interface
- pragmatic in functionalities
- raster and vector Data
- ‘Smart’ performance
WinGIS Basics

- Hybrid System (Raster and Vector)
- Native Windows GUI
- Language fully customizable
- Arabic version available
- No proprietary program language to learn
- Fast/efficient performance of large projects
- Compact image files - password protected
WinGIS – design

- link any db
- vehicles
- areas
- landuse
- landplots
- cadastre
- orthoimage
- SDK

(DDE - AX)- COM
Integration of WHEN and EXPERT MODEL

WHERE! WHERE!
WHAT! WHAT!
WHEN! WHEN!
location
information
patents pend.
EXPERT-INFO
patents pend.
PROGIS Products

WinGIS Performance - Zoom

blue – without image,
violet - with image;
AMD 1.6 MHz,
256 MB RAM

sold: 3500+ WinGIS
200,000+ WinMAP LT

PROGIS Mapserver

WinGIS Professional +
AX/COM advanced
Routing
WinGIS Professional
AX/COM standard
WinGIS Standard
WinMAP
DataViewer
GEO-INFOtainment
WinMAP LT
GPS Modul
Photomod
Vectorisation sw
Iso Modul

Qualified user

end user

GIS functionality
WinGIS Interfaces

- Reads and Writes
  - Shape – Arc Info
  - MIF - MapINFO
  - E00 - ArcInfo
  - DXF - Autocad
  - ASCII +++++

- Reads
  - DGN (Microstation)
  - DKM (with database) ++++++

- Any ODBC Database for Attribute data
  - Access
  - DBF
  - MS SQL Server
  - etc.
WinGIS COM Interface (1)

- Links to an open SDK
  - most WinGIS functionalities available
- To be as open and flexible as possible
  - Every function implemented in WinGIS is automatically added to the COM interface
- Gives benefits to the customer
  - No additional license is needed
- Reliable, stable, fast
  - COM calls and events are extrem fast and give fast development cycles
XML Interface (1)

- Open Export Format
  - Allows plain text file export in an open standardized format
  - All Features are exported in a single XML file
  - Easily transformable into another textual format
  - Special versions for GXML, agroXML etc.

- Open Import Format
  - Allows import of a PROGIS XML file
  - Easily transformable from another XML format (SVG,...)
WinGIS Modules

- **GPS Module**
  - Read, transfer, handle GPS data

- **Logistics optimisation module**
  - fully integrates in WinGIS
  - Up to 30% reduction of logistic costs

- **Routing module**

- **Pack and Distribute**
  - WinGIS projects including viewer
Web Interface (1)

- Fast and reliable web interface (CGI)
- No plug-in needed
- Customization via JavaScript and HTML
- Advanced caching
Web Interface (2)

Most visited internet page in Austria

- 1000 page impressions per minute (peak)
- 1.000.000 page impressions per day
- Over 45 Mio page impressions in 3 months

- WinGIS Web – solutions
- Web not only top down
- But also bottom up

- TAXI orange
- EXPO Lissabon
- City Info Taiwan
- Gewerbepark Halle
Mobile WinGIS Pocket PC

- Native C++ for Windows Pocket PC
- All object types from WinGIS are supported
WinGIS Basics  Interfaces  Modules  Web Interface  WinGIS CE  Use Case

WinGIS - User Case
Logistic
Map production / vectorisation
Central and mobile units + GPS + COM

Central GIS + mobile GIS + SMS Communication + GPS Integration

GPS
On Board Units
Central Office
Telefon
Mobile equipment
SMS/GPRS/UMTS
Routing integration
Transport - Optimisation

- Tool by Ing. Mag. Patrick Hirsch
AGRO NAV®
Das hochpräzise Regelsystem zur autonomen Fahrzeugführung und Gerätesteuerung in der Landwirtschaft
Track visualisation (e.g. also on Google world)
Logistic - summary:

- Project setup – prefeasibility and feasibility
- Map production or map preparation (Import, vectorisation etc.)
- Application design including i-net web solution
- Integration of time, logistic optimisation and routing
- Hardware – stationary, mobile, GPS, GPRS Communication
- Track visualisation and calculation
- Machine guidance
WinGIS - software that shows!

Thank You for Your attention!

WinGIS - software that shows!