
GeoMedia & Geostandaarden

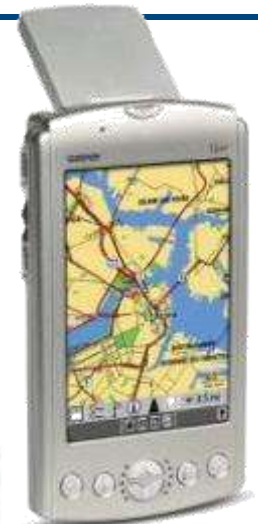
Frank Langelaan

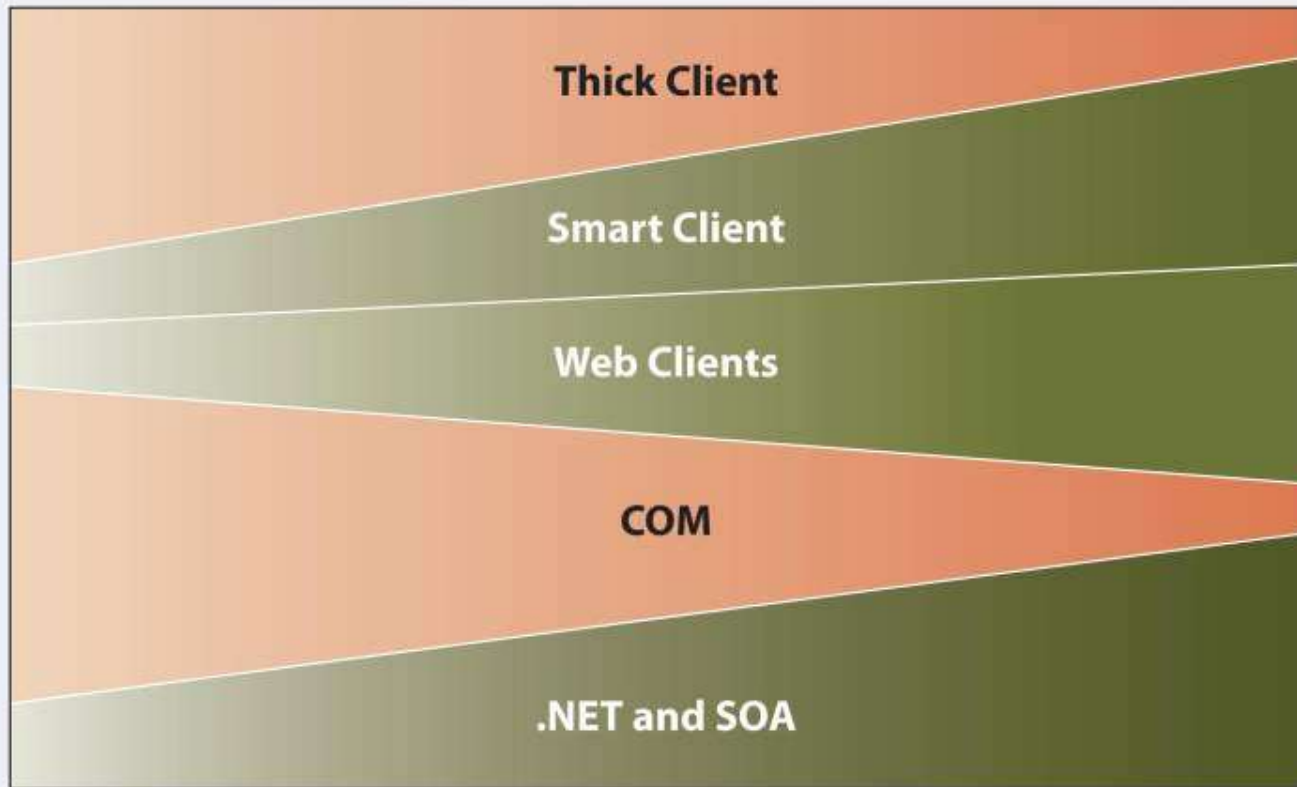




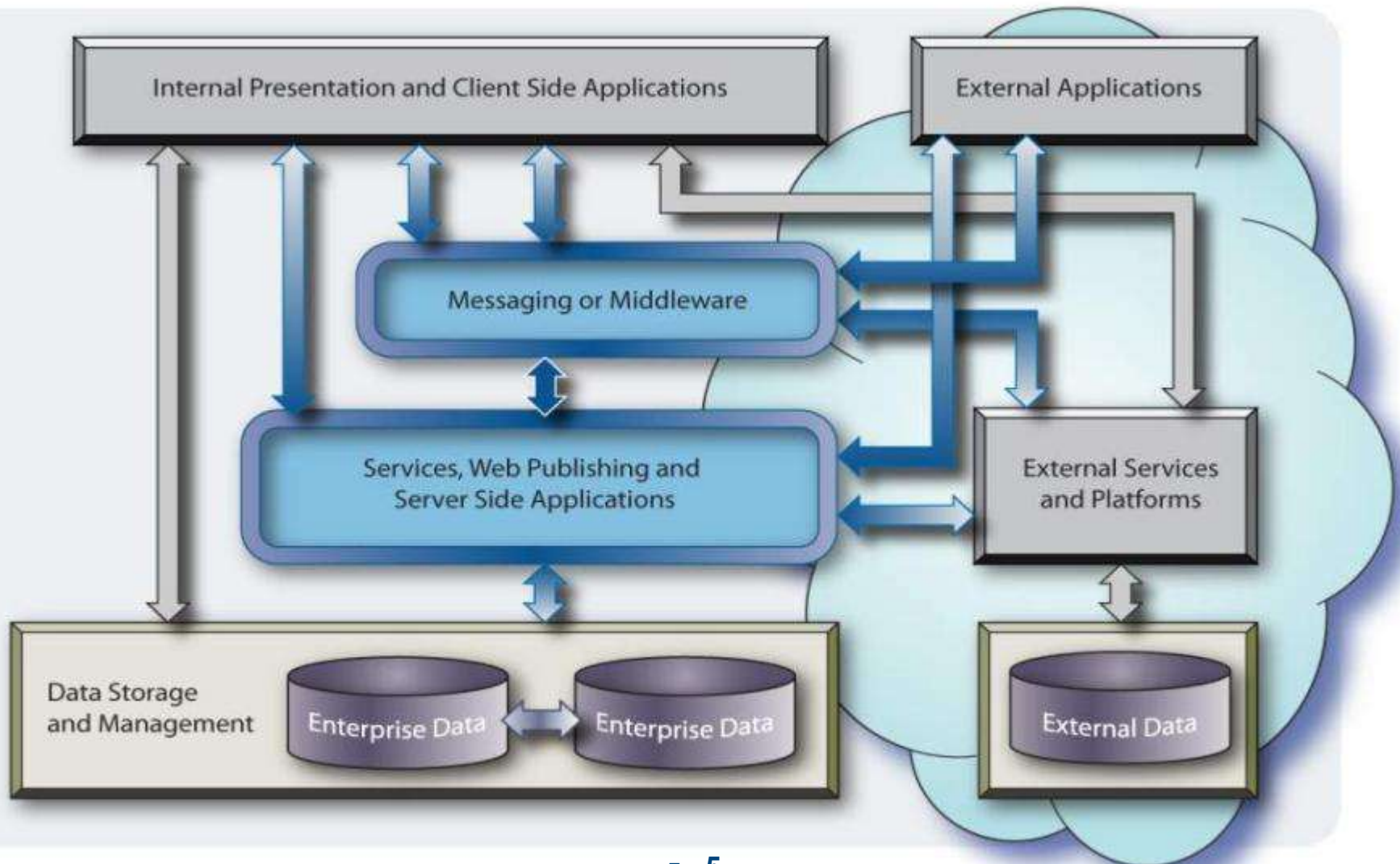
Industrie trends

INTERGRAPH

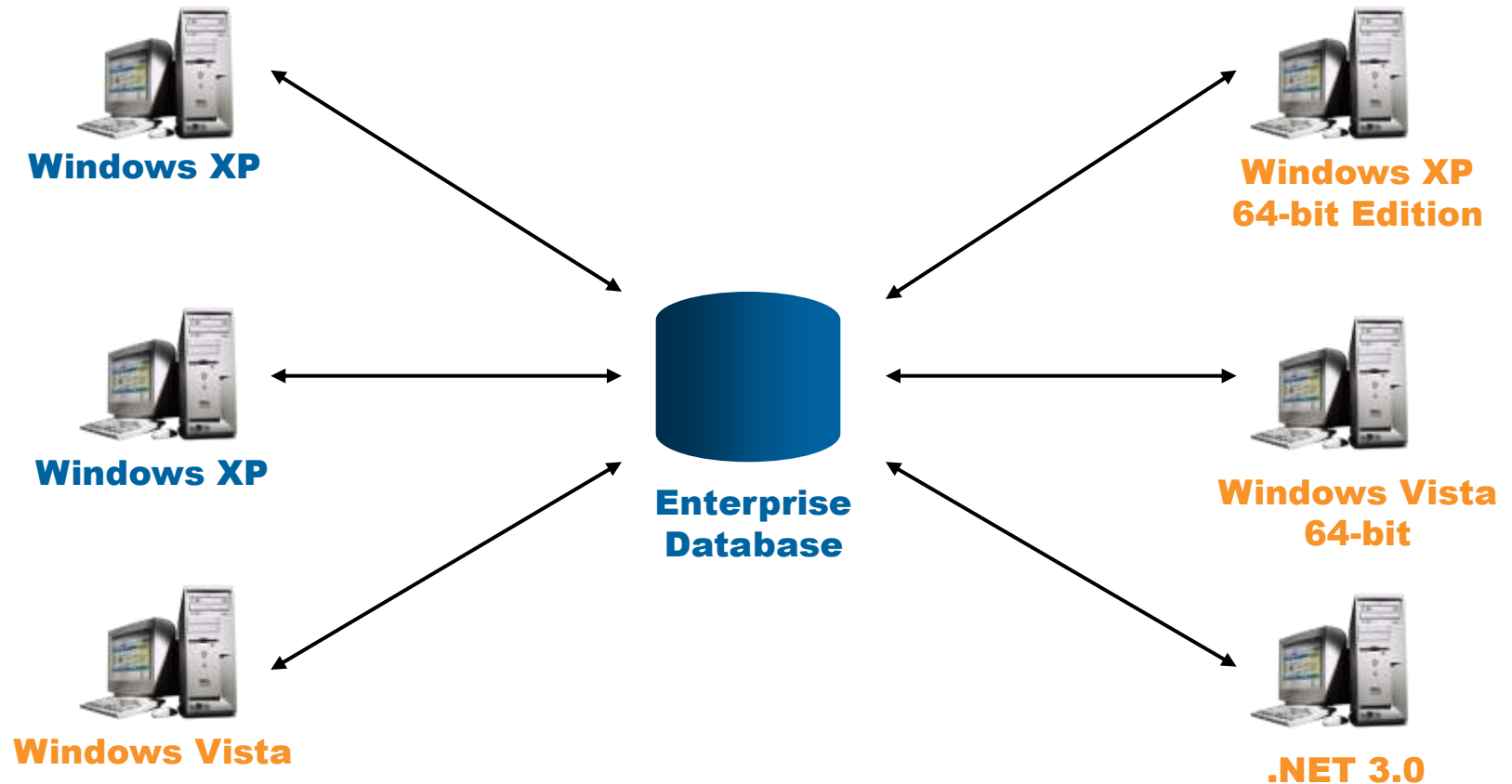




TIME →

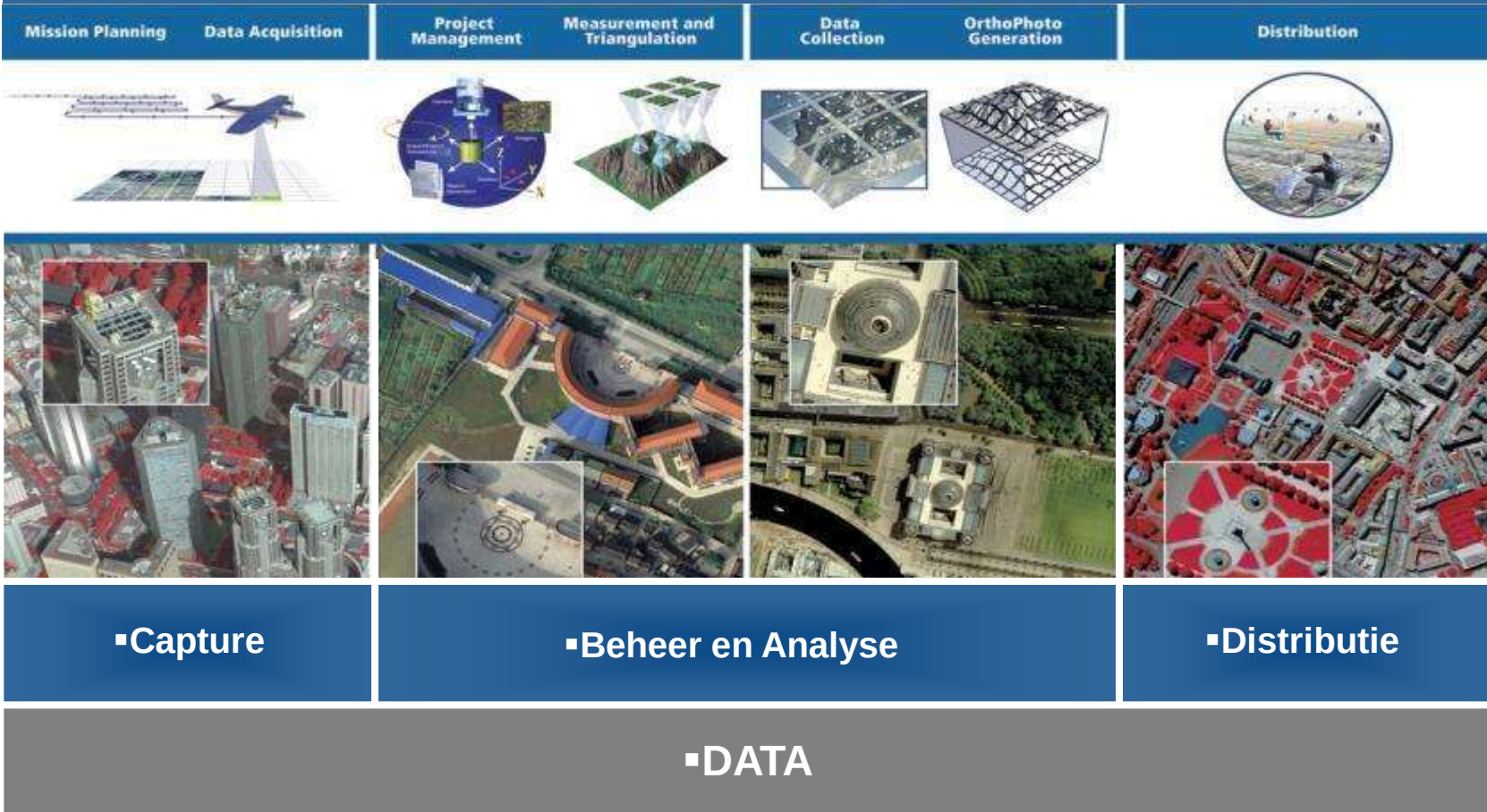


“Keeping up with advances in hardware and operating systems”



- Technologie voor elke fase van het bedrijfsproces

■ GEOSPATIAL TECHNOLOGIE



Internationale standaarden

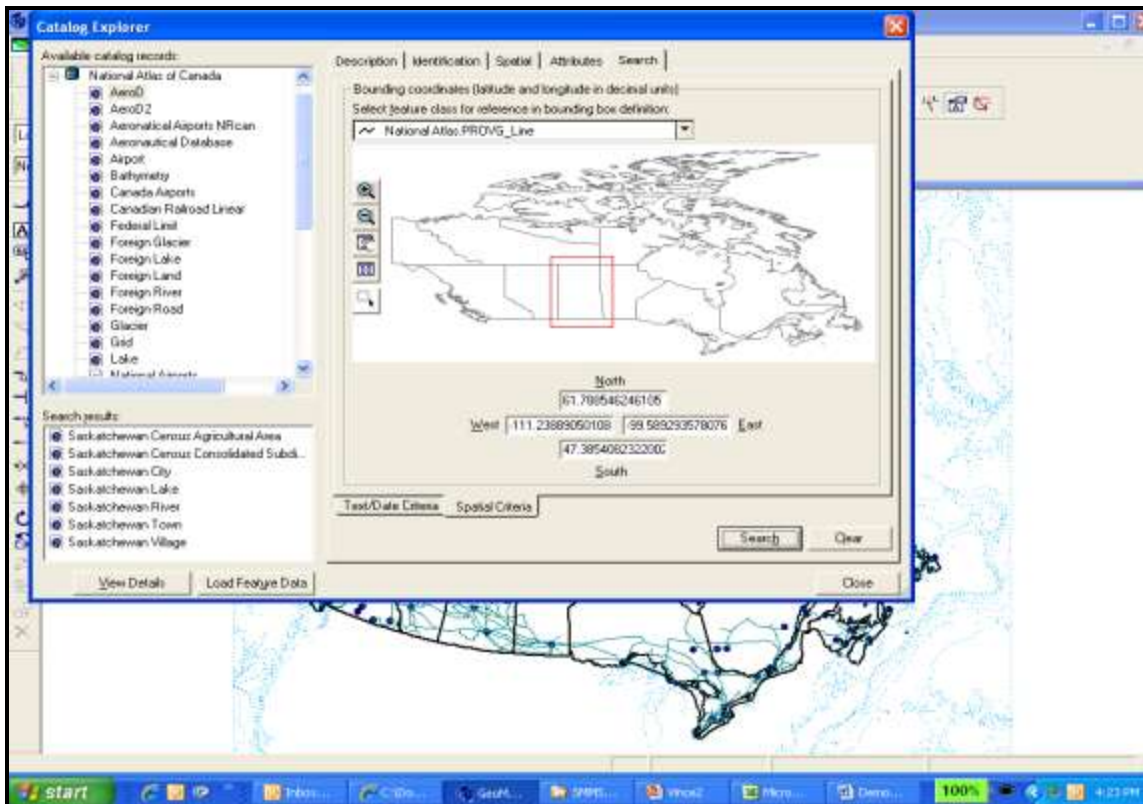
Open GeoSpatial Consortium



Autodesk, Inc.	Principal*	United States
Bentley Systems, Inc.	Principal*	United States
Boeing Space & Intelligence Systems (S&IS)	Principal*	United States
Department of Science & Technology	Principal*	India
ESRI	Principal*	United States
GeoConnections - Natural Resources Canada	Principal*	Canada
Google	Principal*	United States
Intergraph Corporation	Principal*	United States
MapInfo Corporation	Principal*	United States
Northrop Grumman Corporation	Principal*	United States
Oracle USA	Principal*	United States
Rolta India, Ltd.	Principal*	India
SeiCorp, Inc.	Principal*	United States
US Department of Homeland Security (DHS)	Principal*	United States
WhereGroup GmbH & Co. KG	Principal*	Germany

de





- ISO metadata catalog; GML 3.2
- New OGC interfaces, WFS-T, WCS, WCTS, WFS-G, CSW, WMS, GetFeatureInfo



INSPIRE – the European way of SDI



SDI Services

- **SDI Basic Server (SDI Writer Services)**
 - Web Map Service (WMS)
 - Web Feature Service (WFS)
 - Web Coverage Service (WCS)
 - Open Location Services (OpenLS)
- **SDI Basic Client (SDI Reader Services)**
 - WMS & sWMS data server
 - WFS & sWFS data server
 - WCS & sWCS data server
 - WFS-T
 - WFS-G



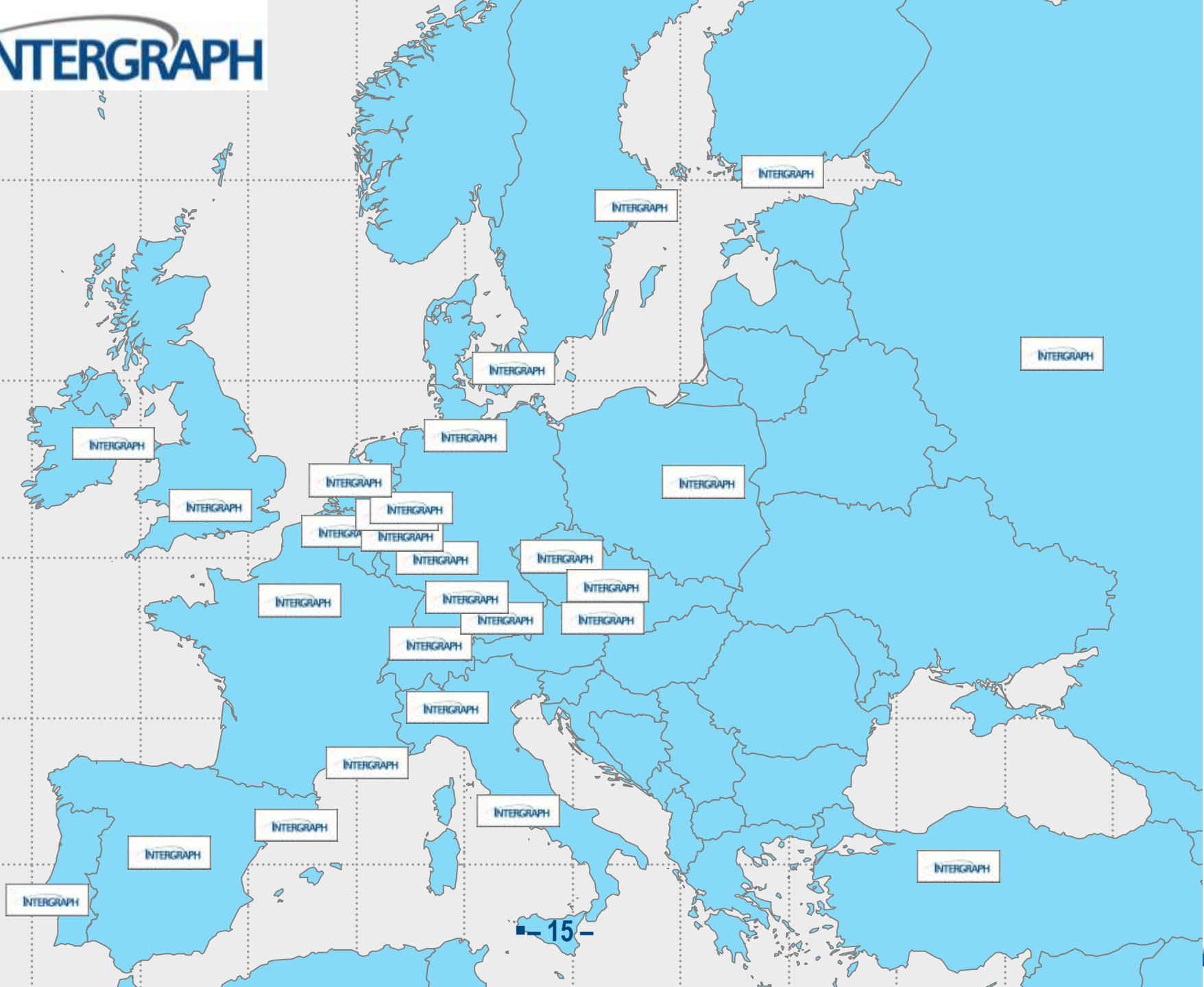
■ SDI Pro Server (SDI Writer Services)

- Transactional WFS (WFS-T)
- Gazetteer Service (WFS-G)
- Secured WMS (sWMS)
- Secured WFS (sWFS)
- Coordination Transformation Service (WCTS/WPS)
- Catalogue Service (CS-W)

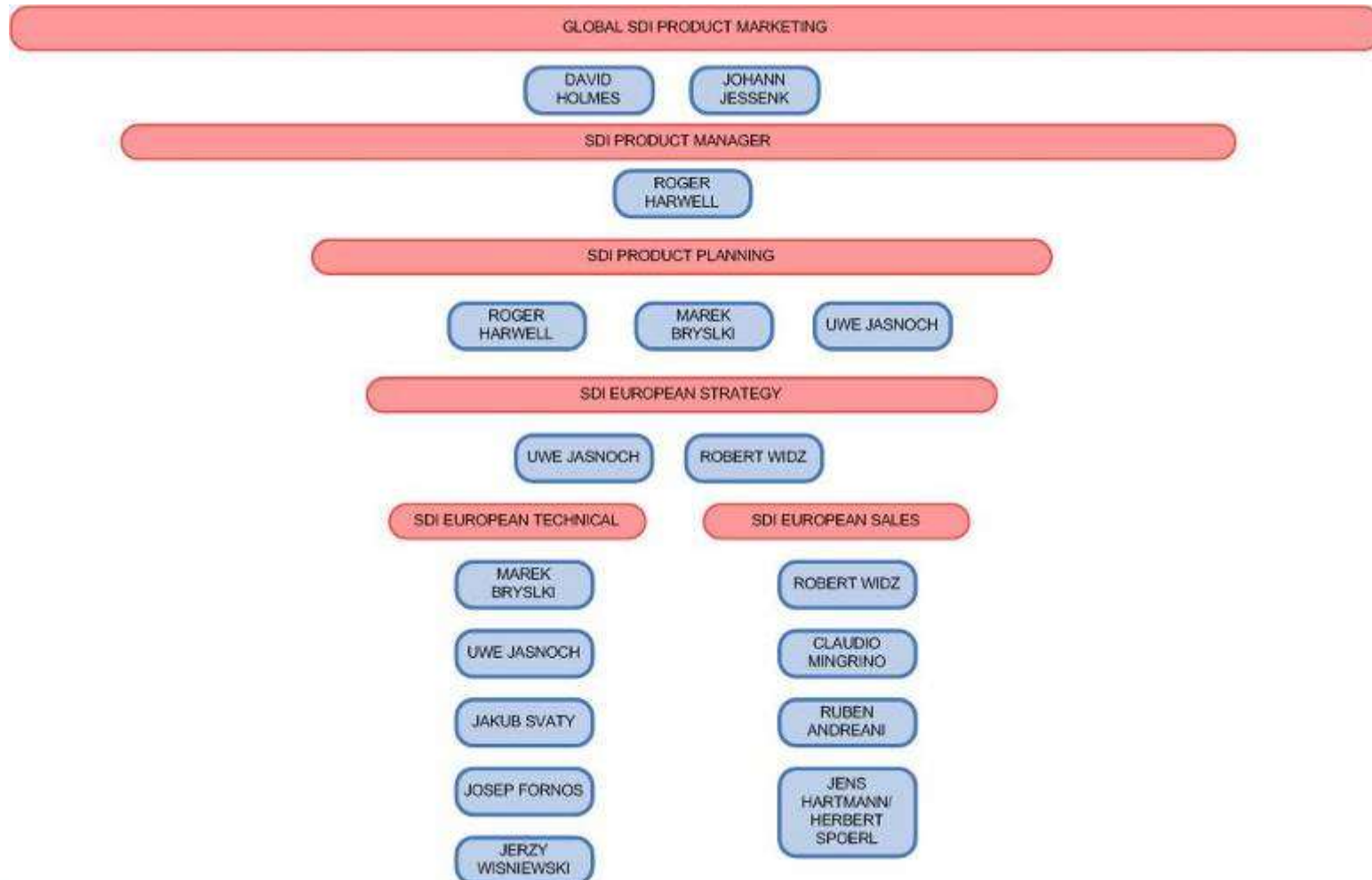
■ SDI Portal „Connectors“ for

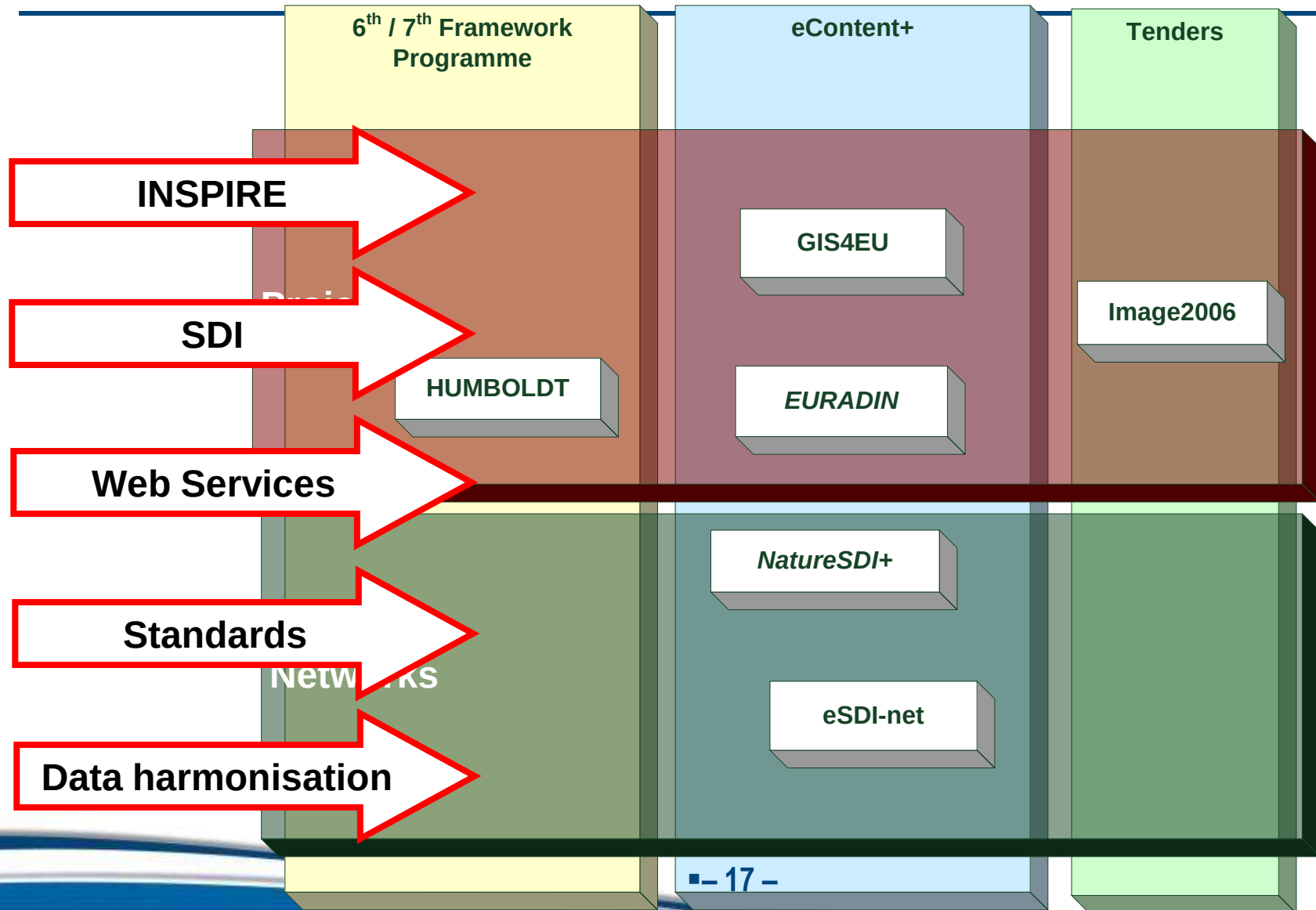
- WMS / sWMS
- WFS / sWFS
- WFS-T
- WFS-G
- WCTS/WPS
- „simple“ CS-W
- OpenLS
- WMC Context Information





Our executing team





Spaans voorbeeld

Ajuntament de Barcelona Catalán Castellano

MAPA INICIAL SERVEIS OGC ENLACES INTERES

Catalogo de metadatos

Permite consultar la información asociada a la cartografía publicada

[Acceder](#)

Servicios WMS

Relación de servicios de generación de mapas WMS publicados

[Acceder](#)

Servicios WFS

Relación de servicios de consulta WFS publicados

[Acceder](#)

Campos (QUE?)

Par. clau:

Títol:

Descripcio:

Fechas (CUANDO?)

des de fins

Area (DONDE?)

[Activar filtro](#)



SERVIDOR CSW

Disponibles

URL Servicio

Resultado

(1/2) PLÀNOL BASE GUIA_{1623190D-DD74-4CC8-B9D9-5D7D714017F9}_100010_ca  

Resum: Plànol Guia que recobreix el territori del municipi de Barcelona. Generalizació de la cartografia corporativa, amb informació general. [Resum](#)

Editor:

Creador:

Origen: PLÀNOL BASE GUIA

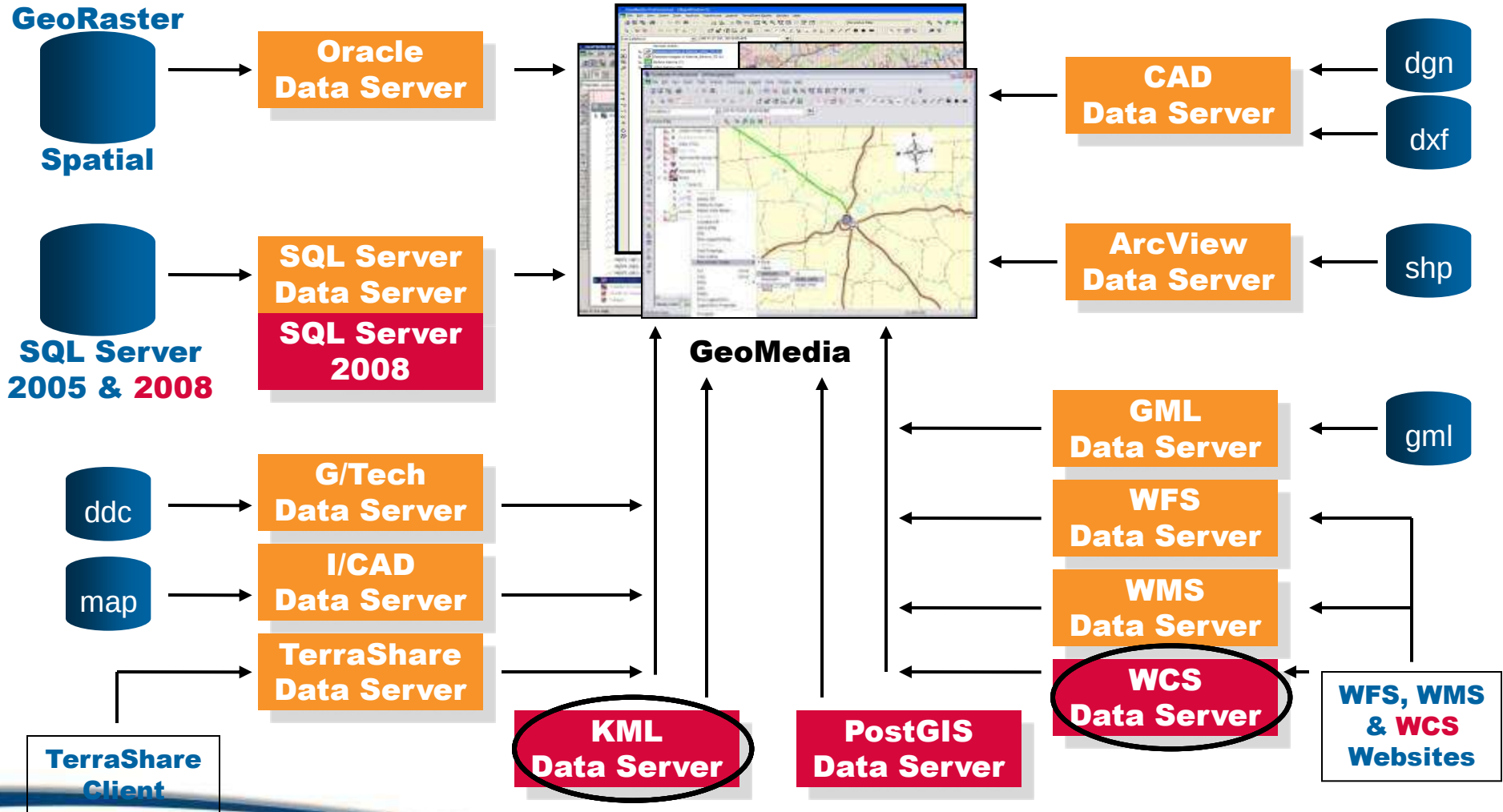
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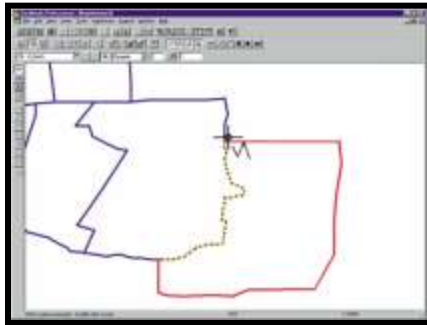
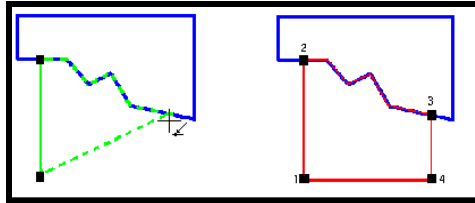
(2/2) PLANO GUIA DE BARCELONA 1/10.000_{1623190D-DD74-4CC8-B9D9-5D7D714017F9}_100010_es  

Paginas 1

Geeostandaarden en databronnen

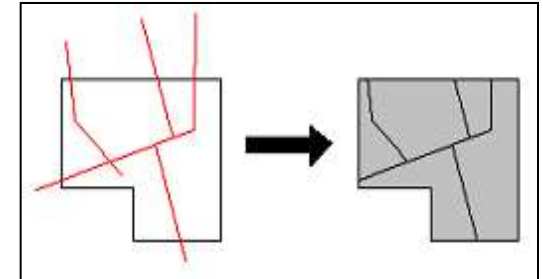
GeoMedia Data Interoperabiliteit





■ Point, line and area placement

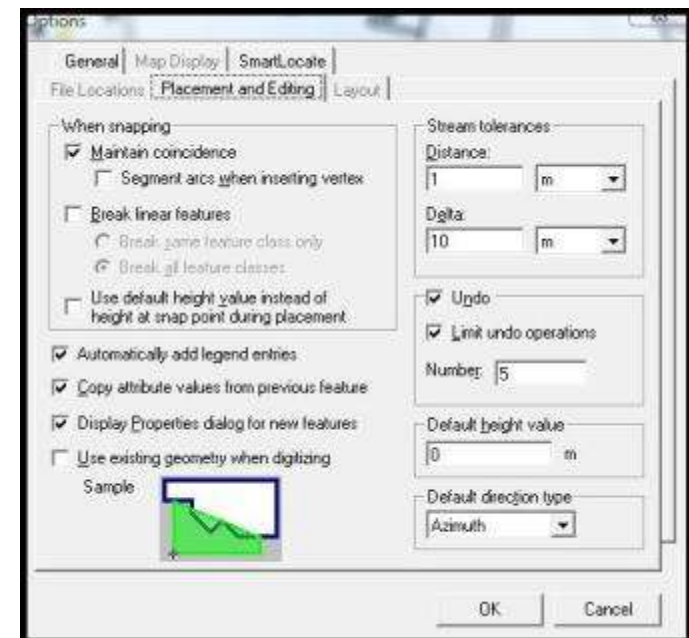
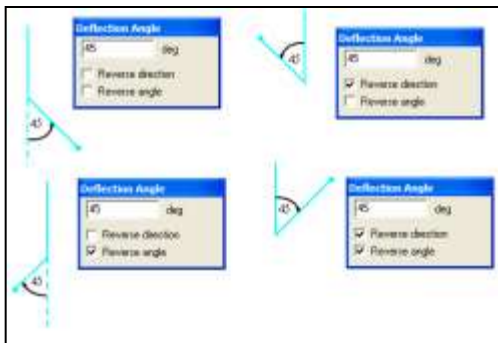
- Point to point digitizing
- Placement by circle and arc
- Oriented to related features
- Maintain coincidence
- Break at intersections
- Raster snaps



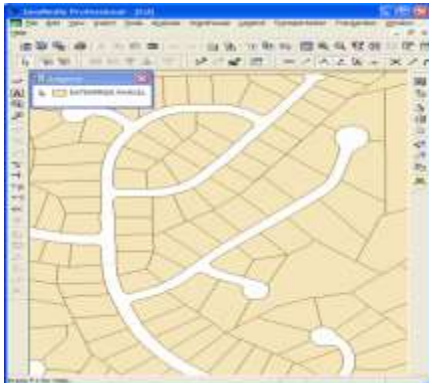
■ Precise location and size using precision key-in or construction aids such as:

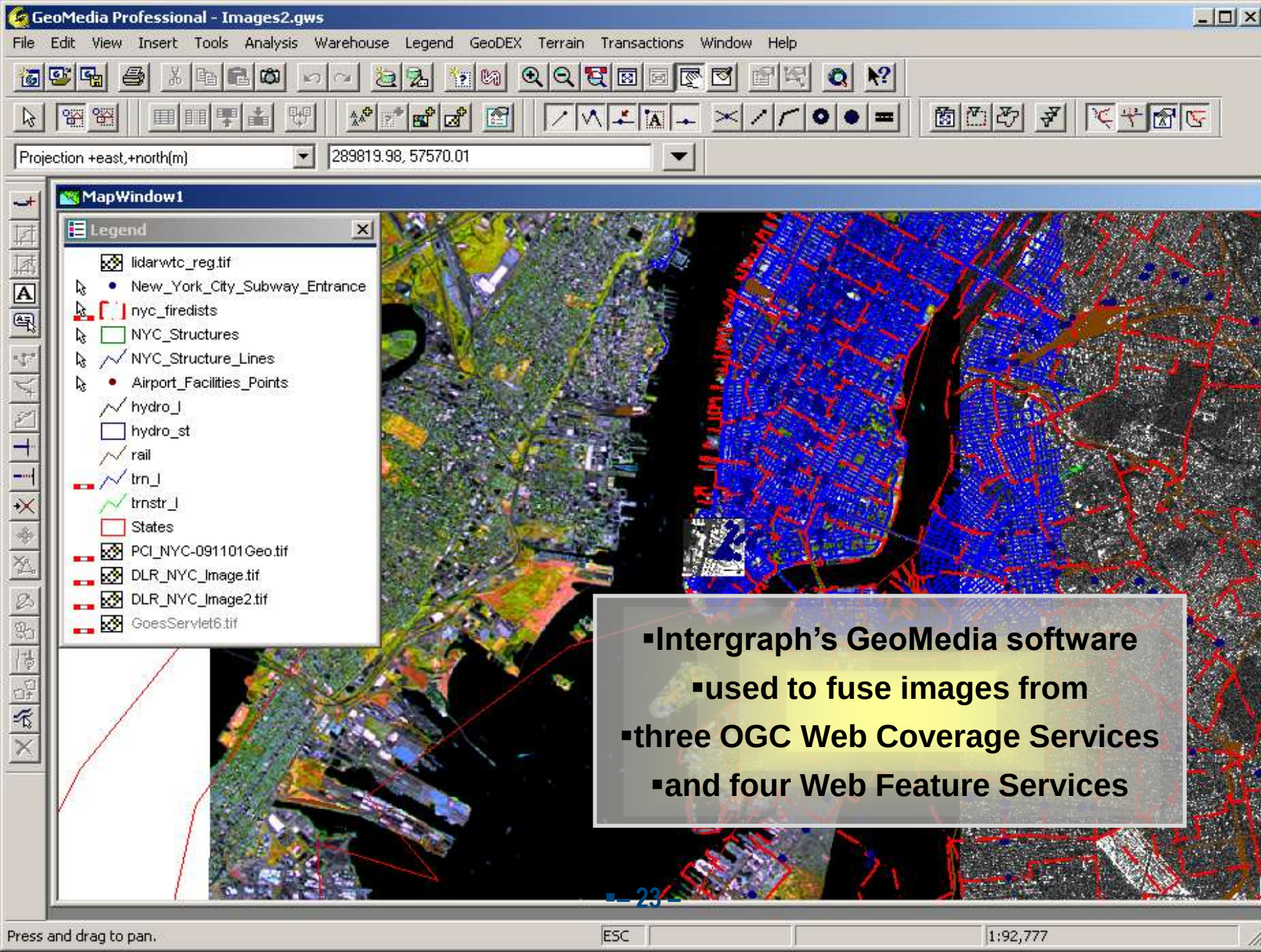
- Delta X, Delta Y
- Perpendicular To
- Distance and Direction

■ Perform Undo and Redo

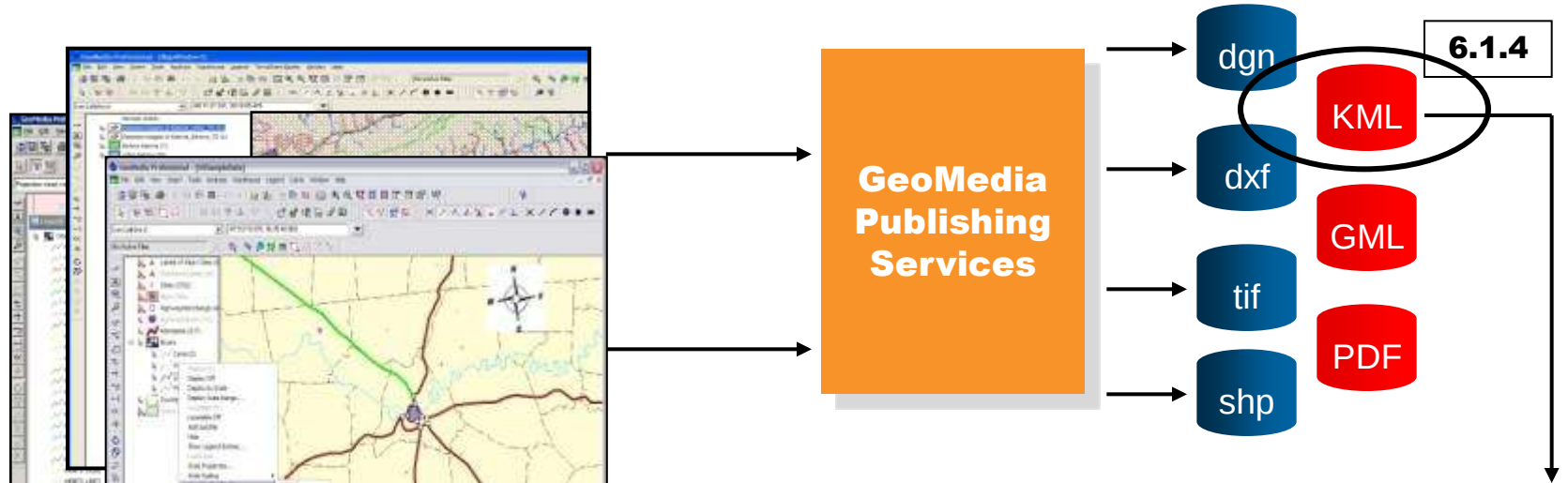


- Meerdere gelijktijdige bewerkingen op (Oracle) database
- Oracle database procedures
- Longterm transactions
- Tijdsafhankelijke bevestigingen
- I.c.m. Oracle WorkSpace Manager





GeoMedia & populaire geo standaarden



Google Earth



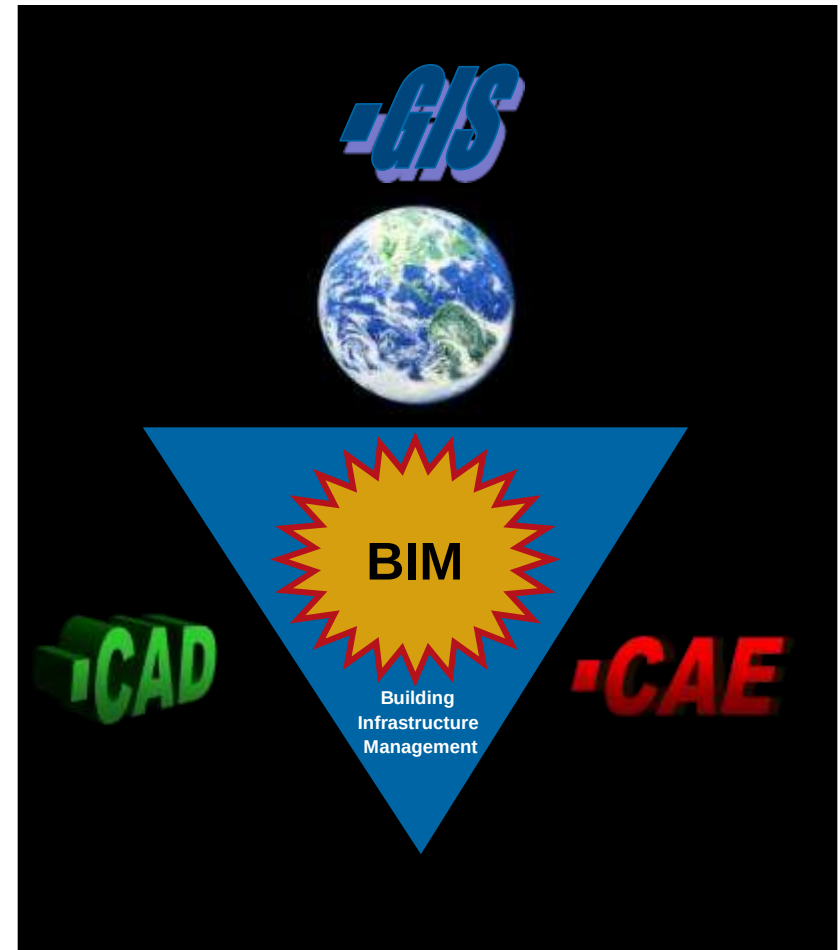


- Visual Basic 6.0
 - Visual Basic .Net
 - C#
 - Visual Studio 2003
 - Visual Studio 2005
 - .NET 2.0 & 3.0
-
- More events
 - More objects
 - More interfaces

GeoMedia and 3D



- **Standaarden en invloeden**
 - 3D City Models
 - SDI
 - OGC Standards Including CityGML
- **Visie's ontstaan**
 - Building Infrastructure Management (BIM)
 - GIS ↔ CAD* ↔ CAE
- **Algemeen 3D verwachtingen**
 - Microsoft Virtual Earth, Google,
 - Gaming

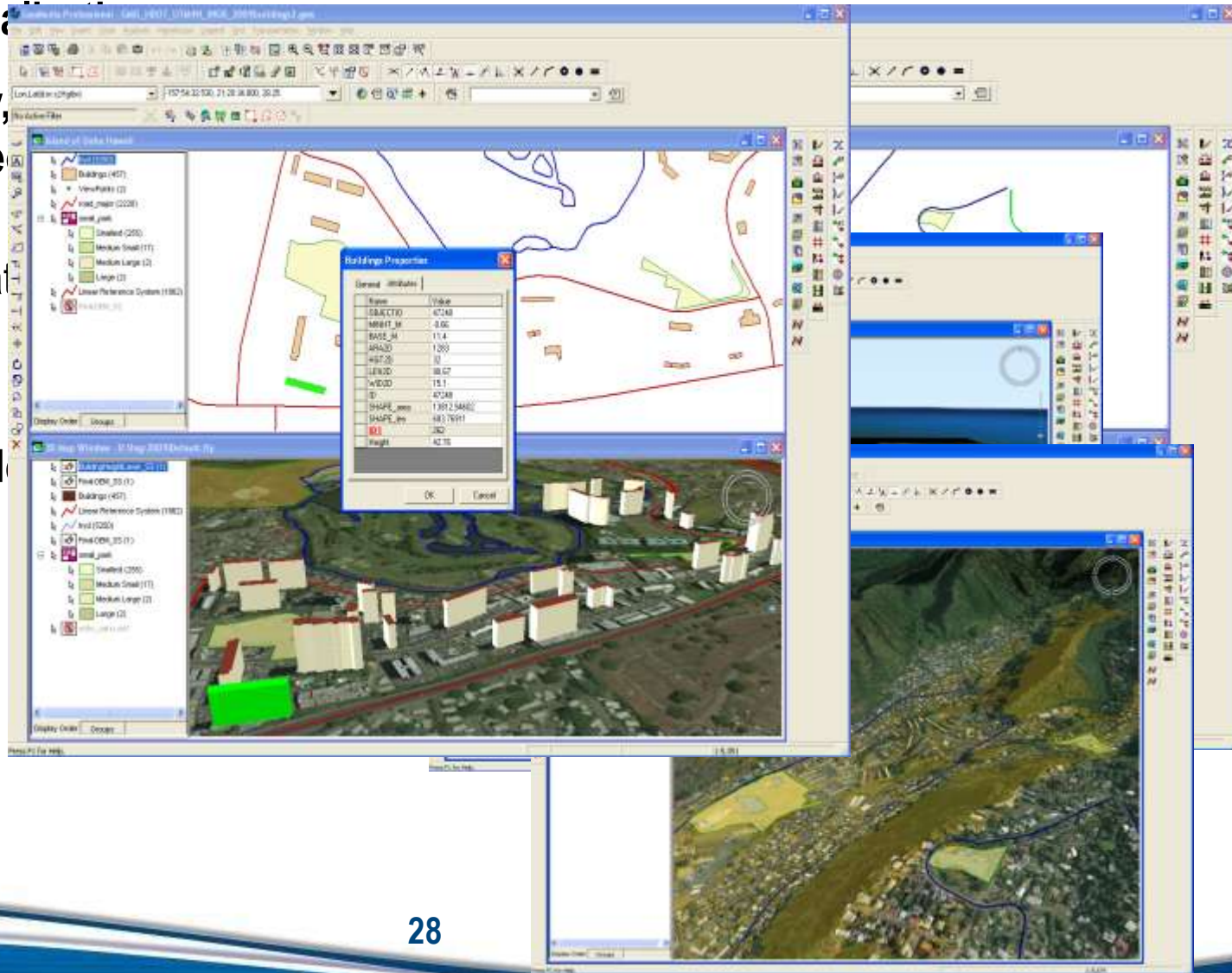


■*CAD – Computer Aided Design

Geo-Fused 3D Visualization

- Terrain, Imagery, Video in een Geo-Workspace

- Meerdere Data Layers
- Naadloze 2D/3D Navigation
- ... in bekende User Interface



GeoMedia en add-on's:

- **Standaard volgens algemene ICT ontwikkelingen**
- **Standaard volgens OGC & INSPIRE**
- **Standaard volgens database opslag**
- **Standaard volgens webservices en dataontsluiting**
- **Standaard volgens 3D ontwikkelingen**

“ Intergraph helps making the standards”

Vragen ?