A Smart City *(in the CLOUD)*

7th February 2014

Julian Kardos

Global Project Services Director, Intergraph Corporation

★ Existing eco cities

★ Existing eco megacities

HEXAGON


SMART
CITY
1
BETTER
governance
2
COMPETITIVE
advantage
3
GO
green
4
CREATIVITY &
innovation

GOAL 1

BETTER governance

Process optimization

More for less

Public Information

Social engagement

….

GOAL 2

COMPETITIVE advantage

Quality of life

Driving business development

City infrastructure

Education, health & culture

….

GOAL 3

GO green

Managing Environment

Less Energy Consumption

Water & Waste Water Management

ECO City

....

GOAL 4

CREATIVITY & innovation

New Technologies

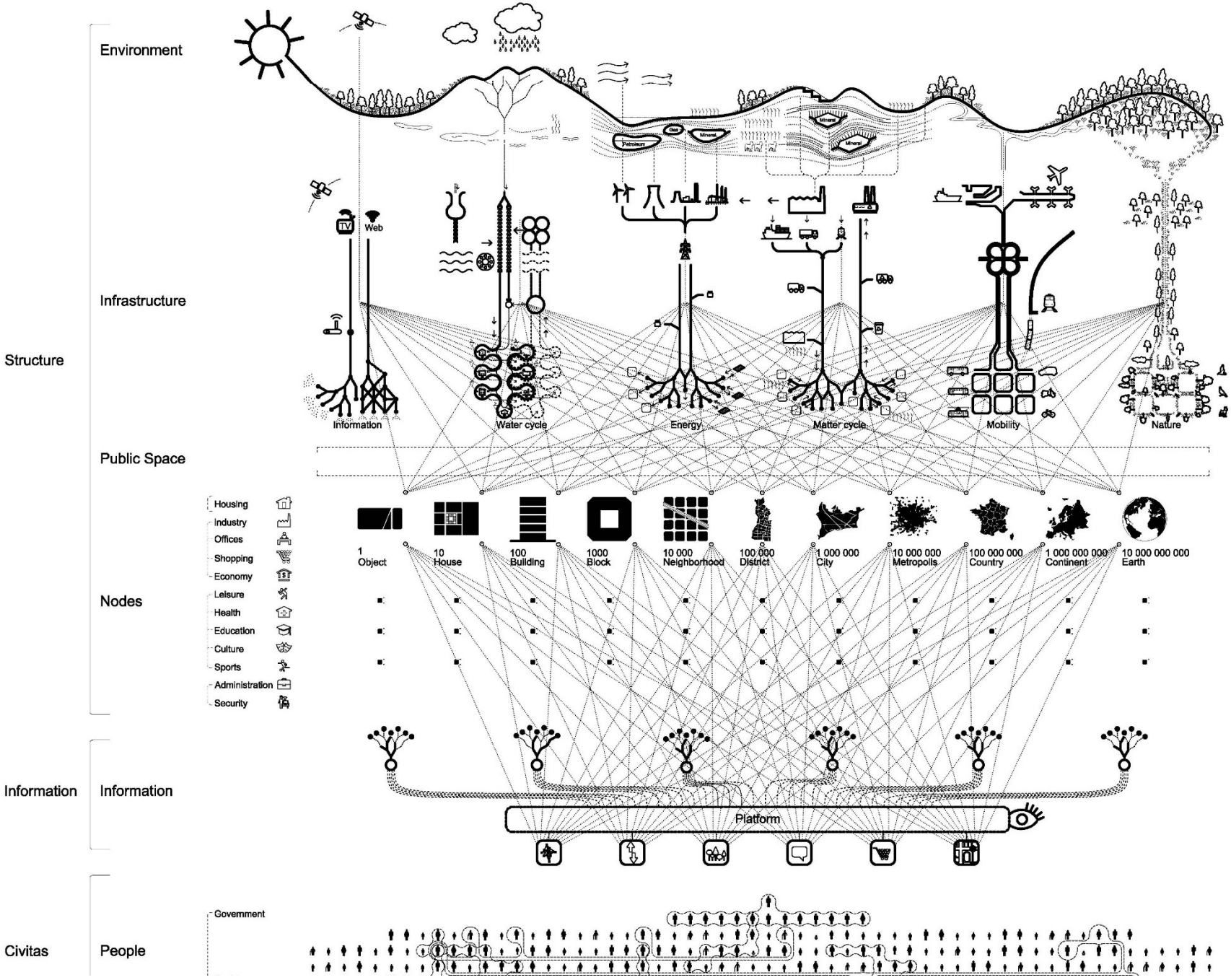
Portals & Social Media

City Infrastructure (ex. Public Transport)

Sensors & Geospatial

….

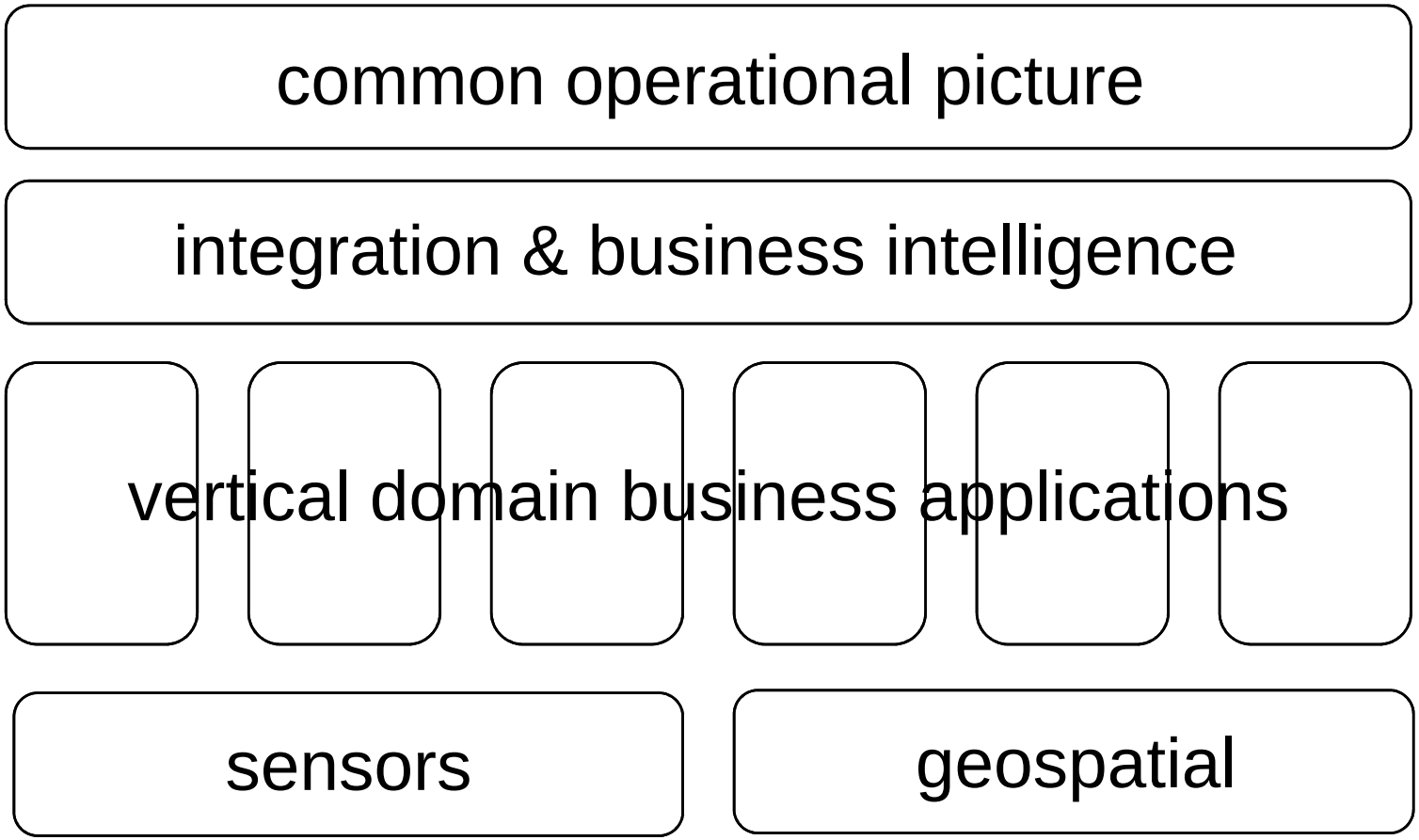
CityProtocol.org



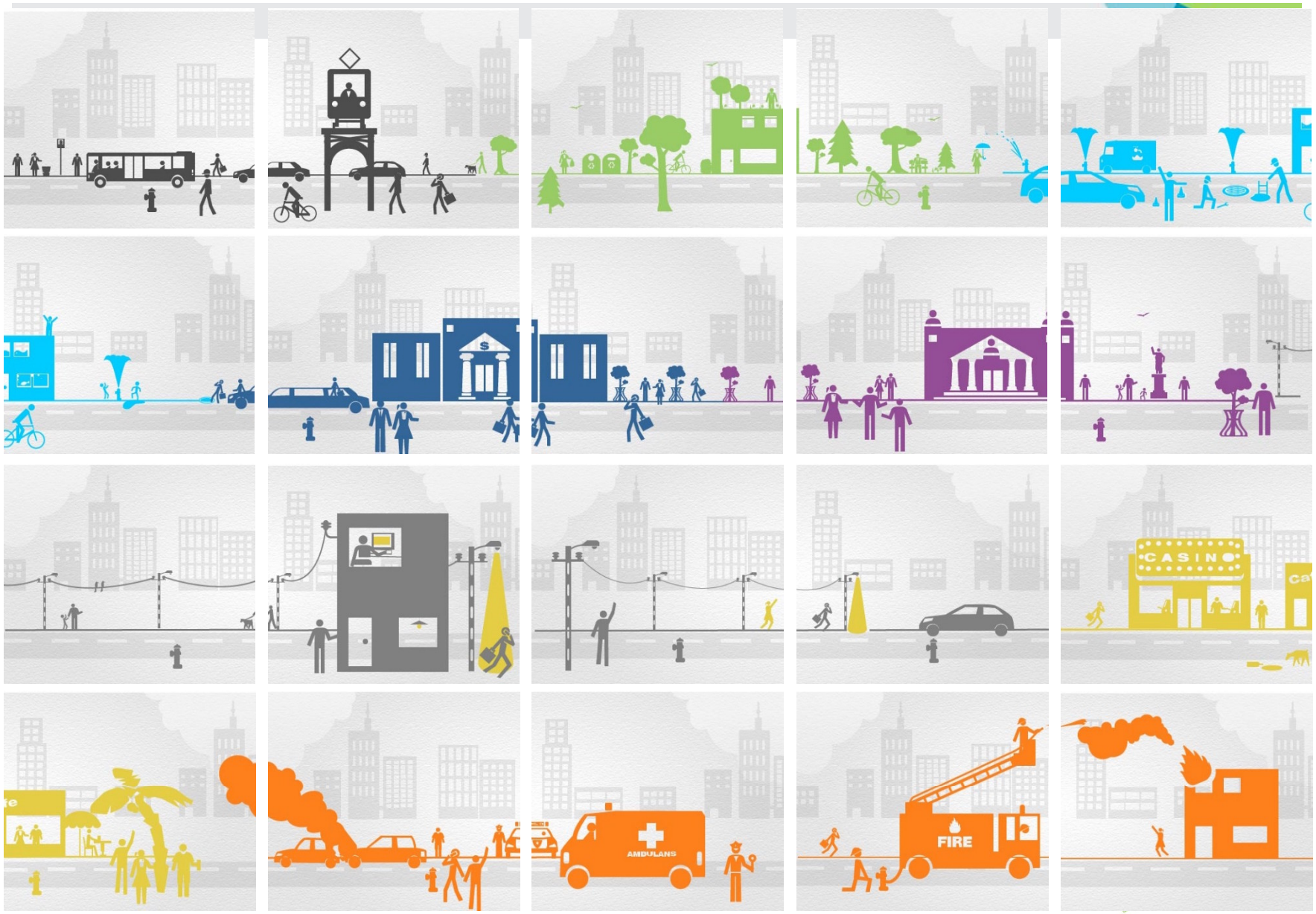
interconnect & interact

hardware & software

people, business,
government, nature


common operational picture
integration & business intelligence
vertical domain business applications
sensors
geospatial

HEXAGON


CASINO
AMBULANS
FIRE

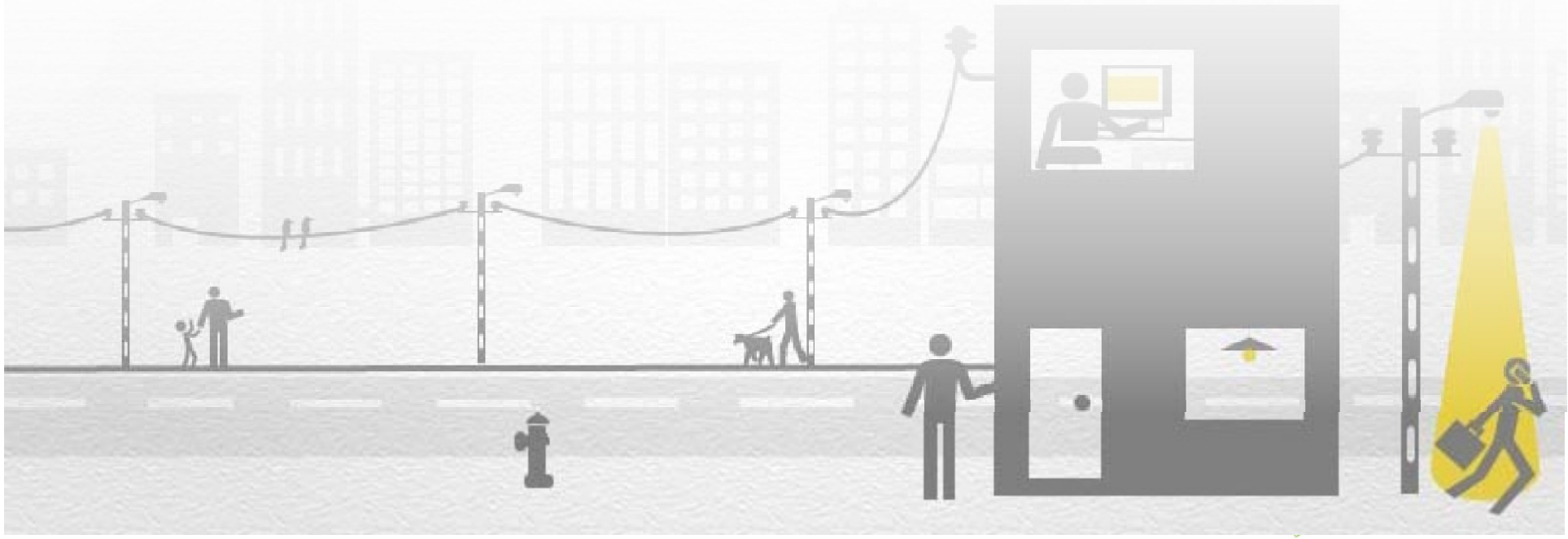
SMARTMOBILITY

ENVIRONMENT

WATER

INFRASTRUCTURE

SMARTENERGY

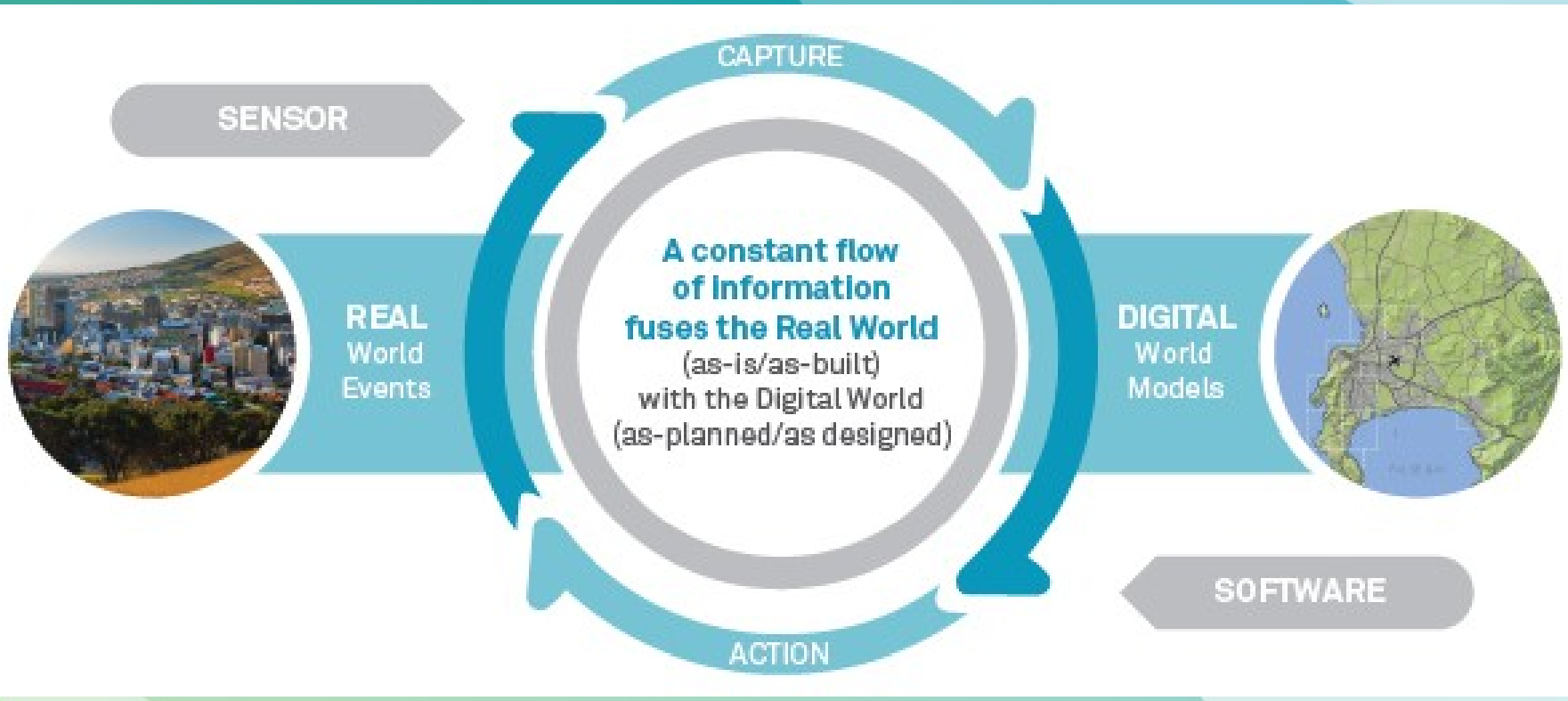


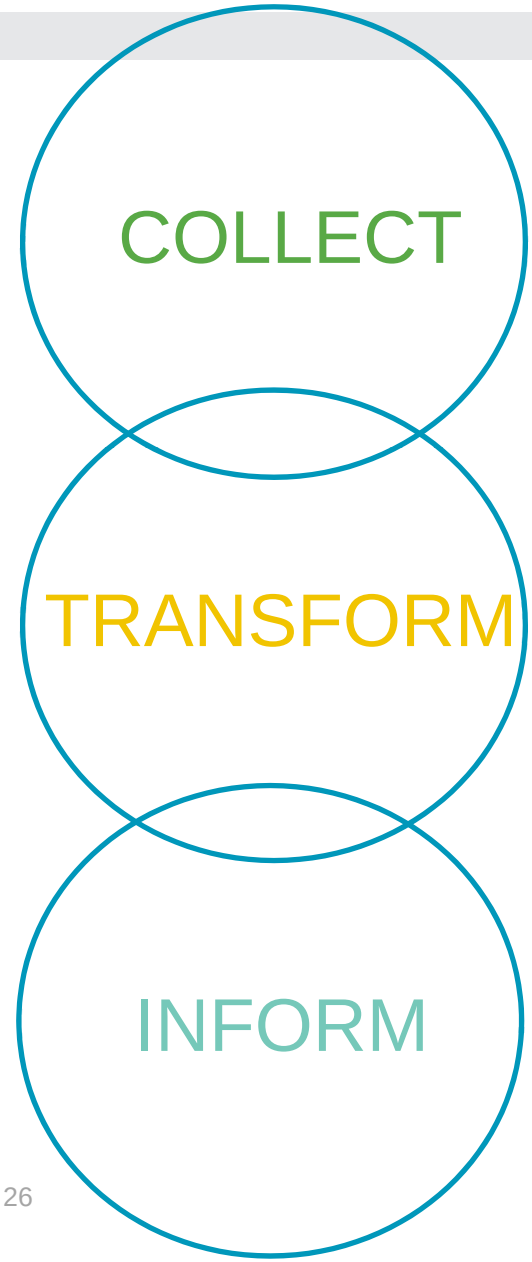
PUBLICINFORMATION

SAFEEMERGENCY


PREXISO
LASER DISTANCE METER
AGATEC
Viewserve
Part of Hexagon Group
INTERGRAPH
erdas
scanlaser
MACHINE CONTROL
m&h
Precision at the workpiece
Leica
Geosystems
Cognitens
cimcore
optiv
QUINDOS
DEA
brown & sharpe
myVR Software
NovAtel


HEXAGON


CAPTURE
SENSOR
REAL
World
Events
A constant flow
of information
fuses the Real World
(as-is/as-built)
with the Digital World
(as-planned/as designed)
DIGITAL
World
Models
SOFTWARE
ACTION

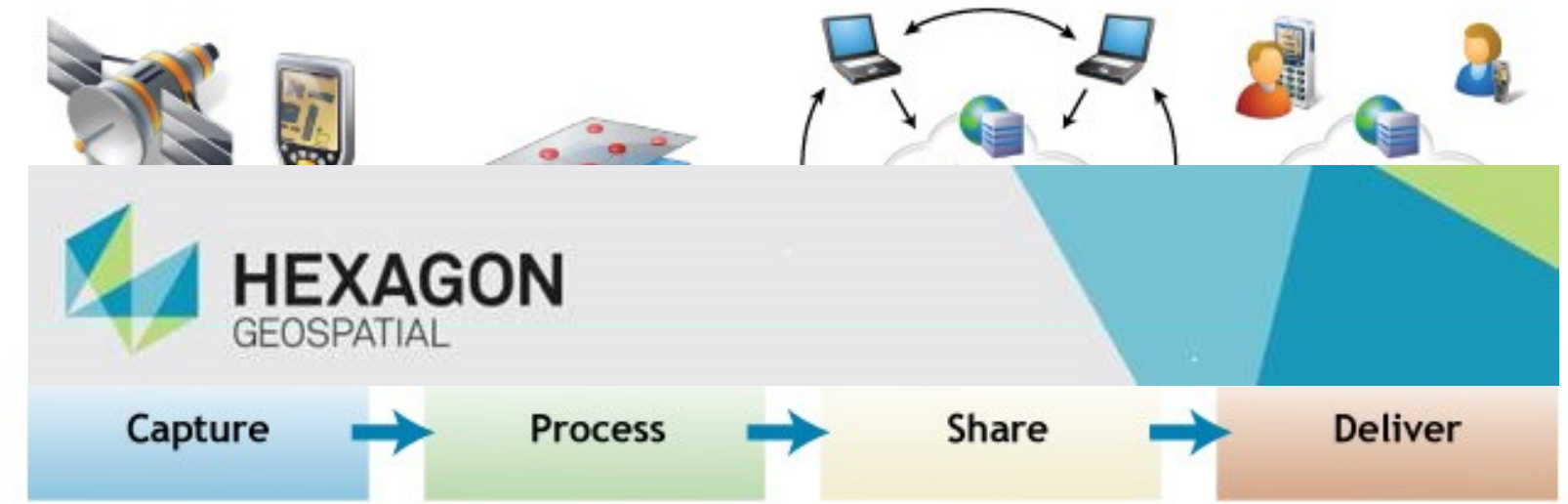


COLLECT, FUSE, ORGANIZE AND MANAGE GEOSPATIAL DATA IN NEAR REAL TIME

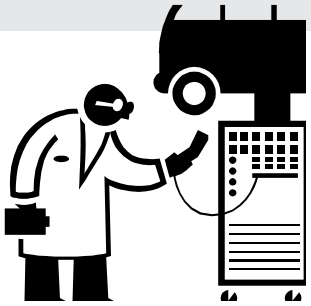
TRANSFORM DATA AND SERVICES USING GEOSPATIAL ANALYTICS AND PROCESSES *(I.E. TOPOLOGICAL QUERY, ROUTING, ALERTS, DEM, COORDINATE TRANSFORMATION, ETC…)*

INFORM DECISION MAKERS VIA VISUALIZATION TOOLS ENABLING POWER TO USERS: DESKTOP, CLOUD PORTALS, MOBILE DEVICES ALL WITH EDITING CAPABILITY

HEXAGON

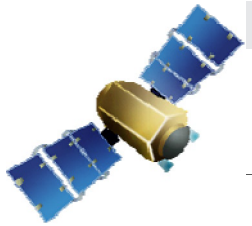


HEXAGON



“Engine”

HEXAGON



“GEOSPATIAL engine”

actionable INFORMATON

HEXAGON

“GEOSPATIAL engine”

actionable INFORMATON

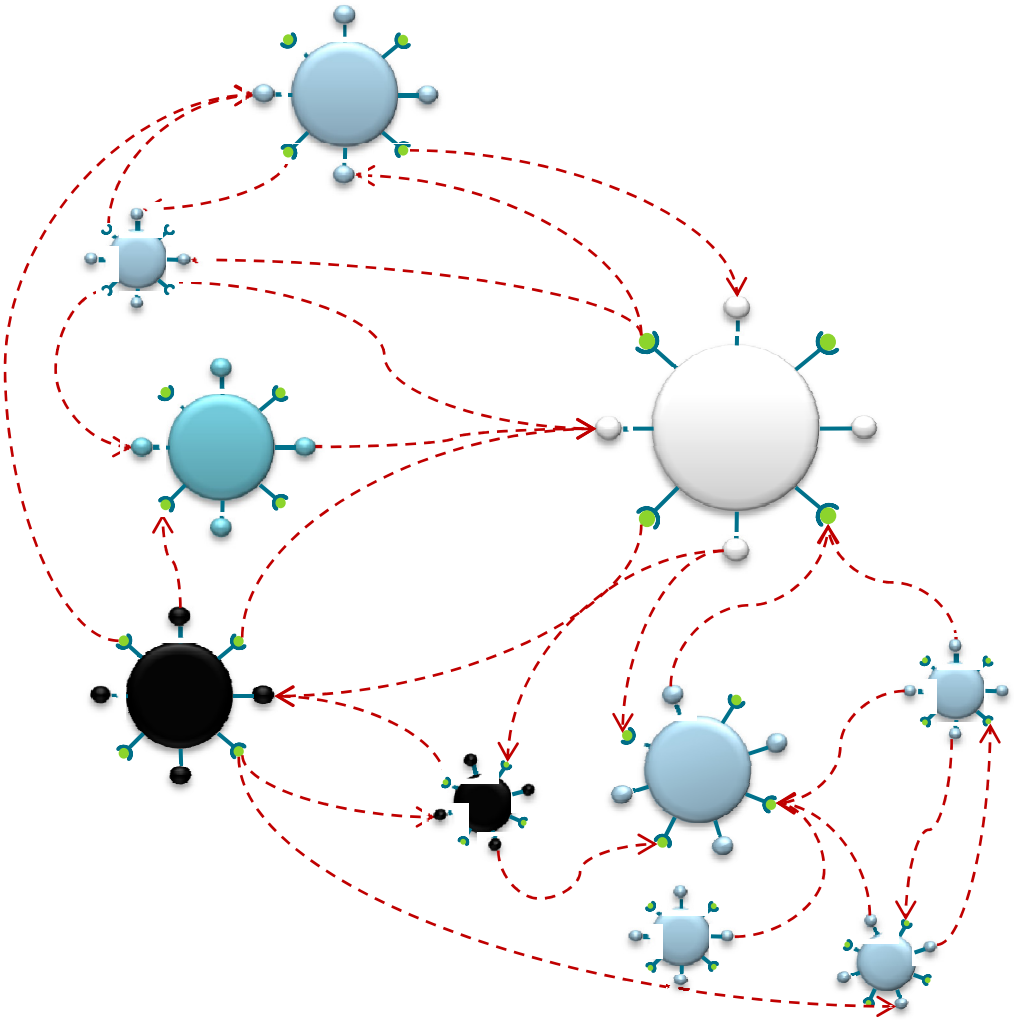
HEXAGON


INTERGRAPH
OGCWO
RLD

OGC®

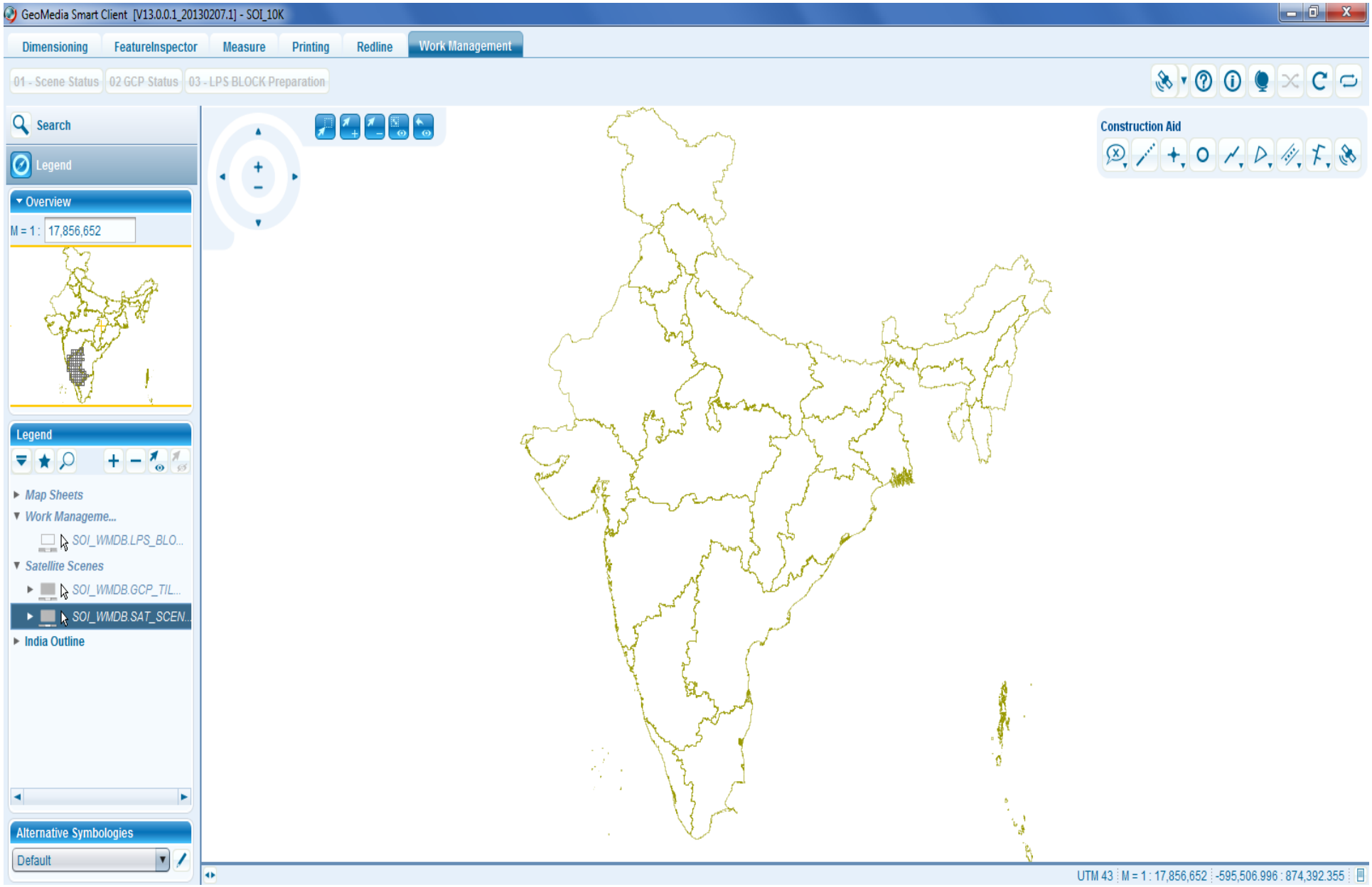
Making location count.

www.opengeospatial.org



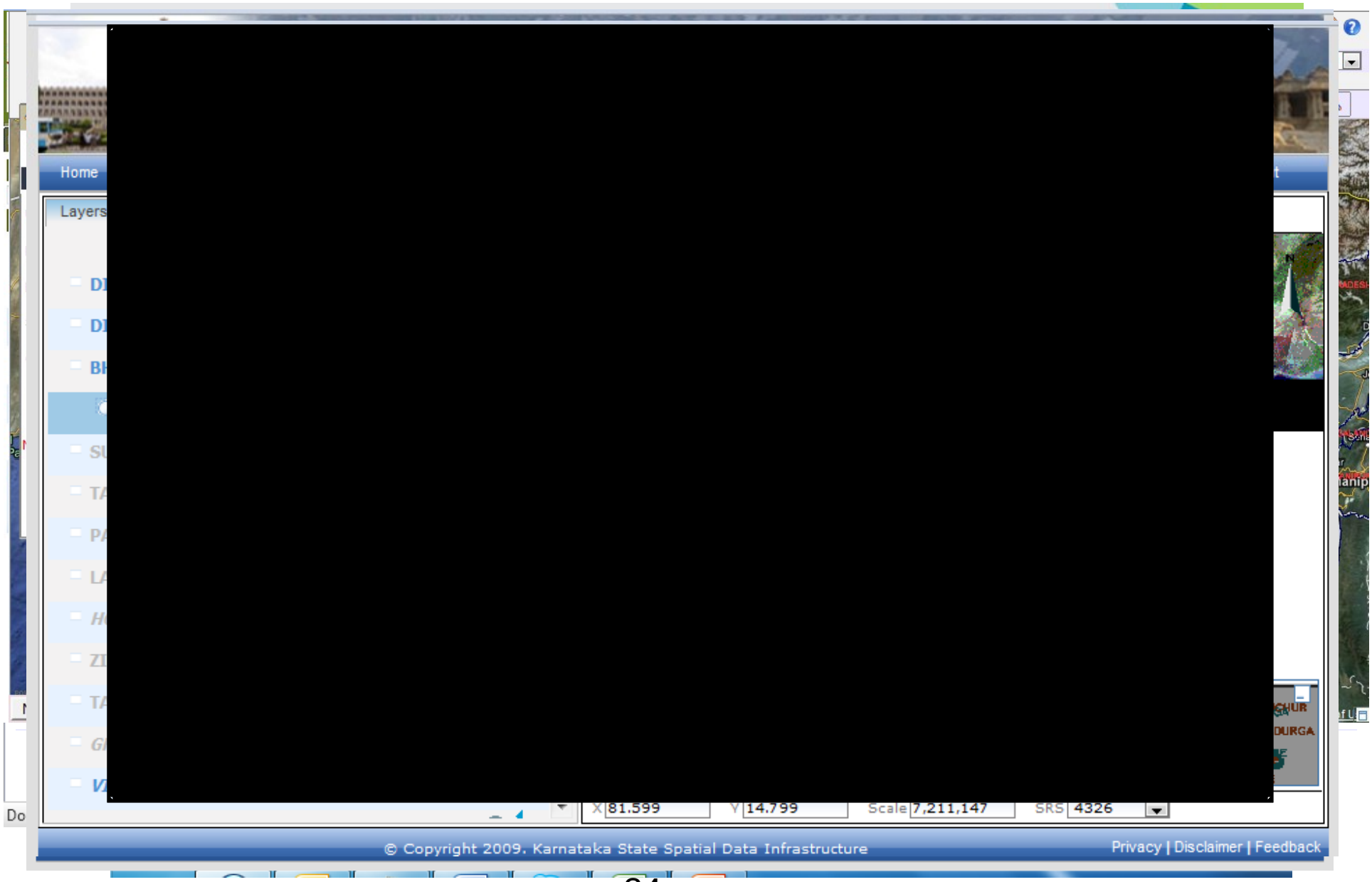
INSPIRE - Infrastructure for Spatial Information in Europe

HEXAGON


GeoMedia Smart Client [V13.0.0.1_20130207.1] - SOI_10K
Dimensioning
FeatureInspector
Measure
Printing
Redline
Work Management
01 - Scene Status
02 GCP Status
03 - LPS BLOCK Preparation
Search
Legend
Overview
M = 1 : 17,856,652
Legend
Map Sheets
Work Manageme...
SOI_WMDB.LPS_BLO...
Satellite Scenes
SOI_WMDB.GCP_TIL...
SOI_WMDB.SAT_SCEN...
India Outline
Alternative Symbologies
Default
Construction Aid
UTM 43 | M = 1 : 17,856,652 | -595,506.996 : 874,392.355

HEXAGON

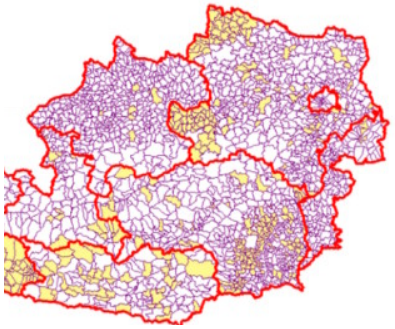
Hexagon Geospatial OGC and SDI :: India Web Portals



Hexagon Geospatial SaaS Cloud Solutions

GIS QUADRAT
www.gisquadrat.com

Serving 450 municipalities in Austria with 2,500 Intranet user and additional Internet solutions for more than 10 years

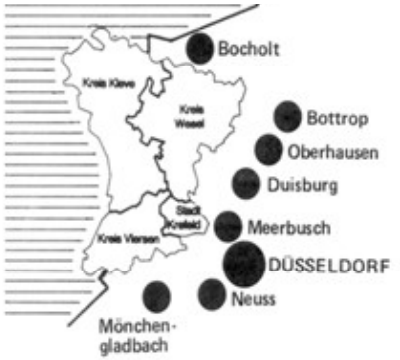


r|d|e| (owned by *e.on*)

Serving 30 municipal utilities (with several different geospatial apps) and 150 municipalities in southern Germany

krzn Government Computing Centre

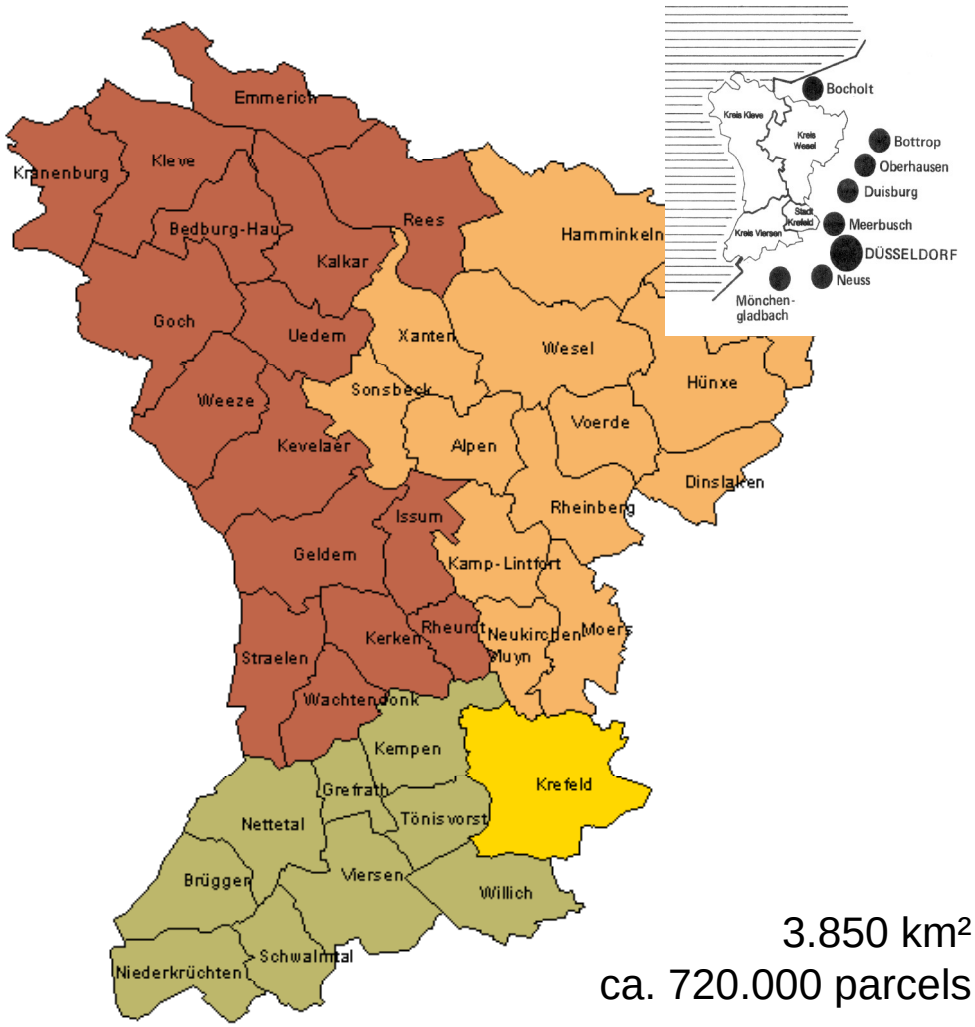
Serving 42 government organizations with 250 Workflows for 750,000 land parcels covering 4,000km² and 1.3 million people in Northwest Germany



HEXAGON

KRZN on the Cloud

- 42 Government organizations joined together.
- Large private cloud implementation.
- Fully government owned
- Over 8000 Smart Client customers.
- 300 GIS Seats



3.850 km²
ca. 720.000 parcels

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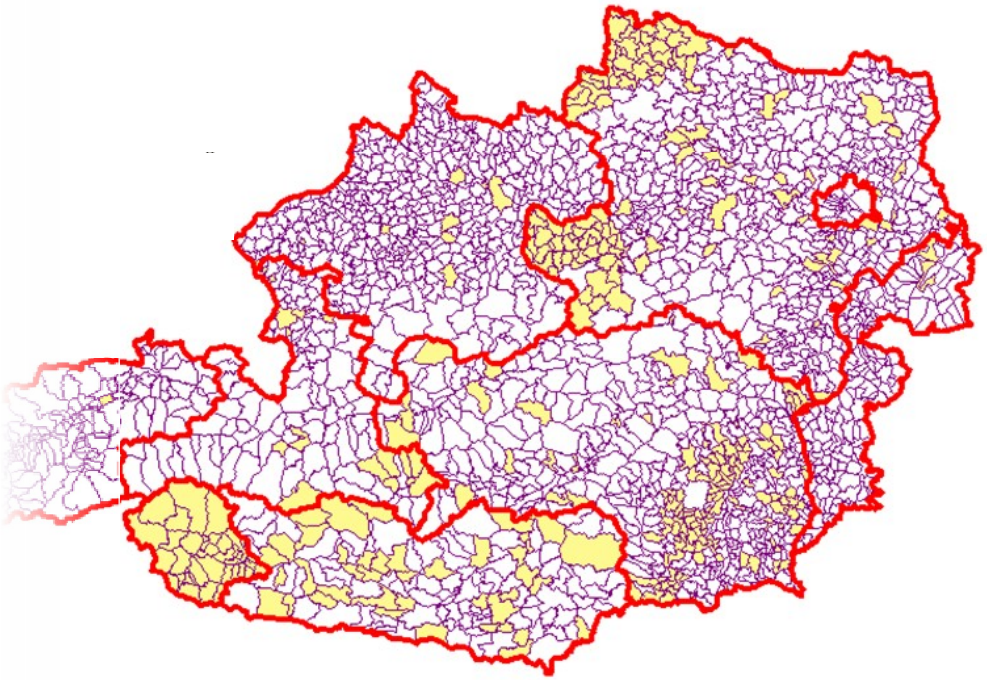
Hexagon Geospatial Cloud Partner :: GISquadrat

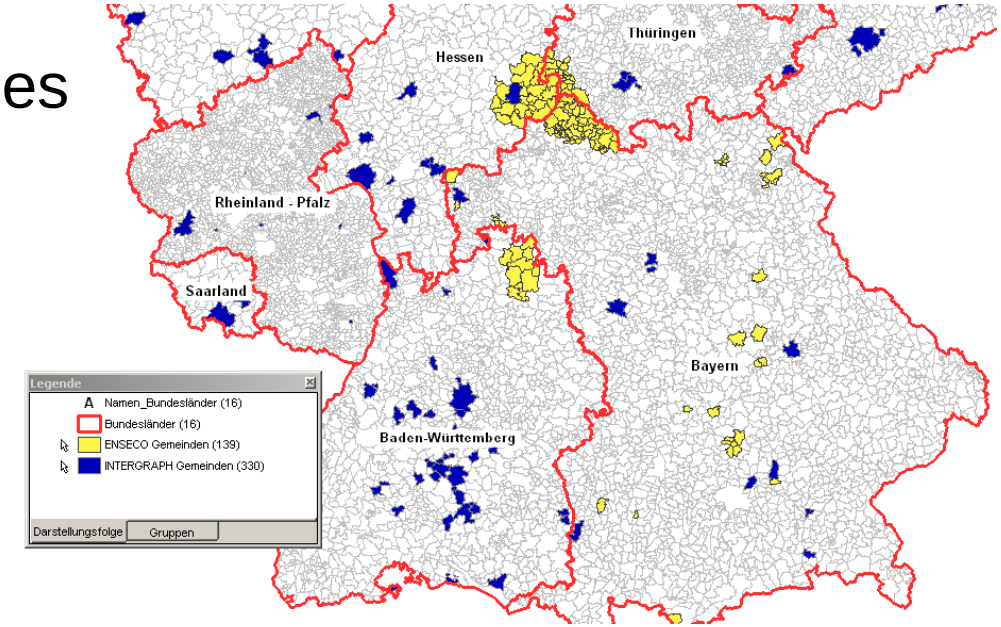
- GISquadrat provides fully integrated GIS desktop and cloud solutions in Austria
- Founded in the year 2000
- Package offering of:
  - Full data management: capture (via partners), prepare, update, ...
  - GIS SW - client support
  - SaaS incl. hosting (via Intergraph)
  - Services (consulting, training, maintenance, ...)
- Market share ~ 20% managing 480 communities (2.357 total)



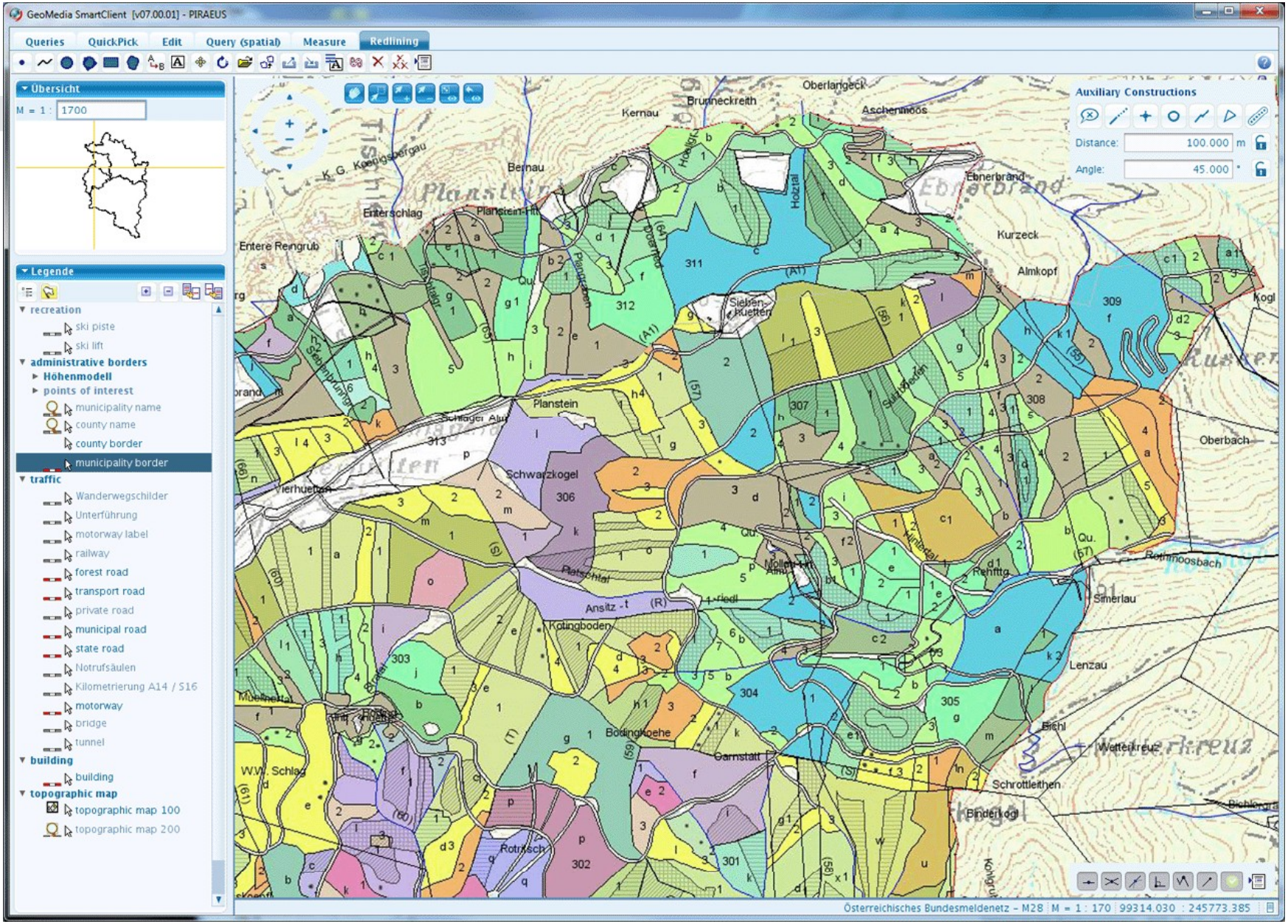
HEXAGON

Hexagon Geospatial Cloud Partner :: r/d/e

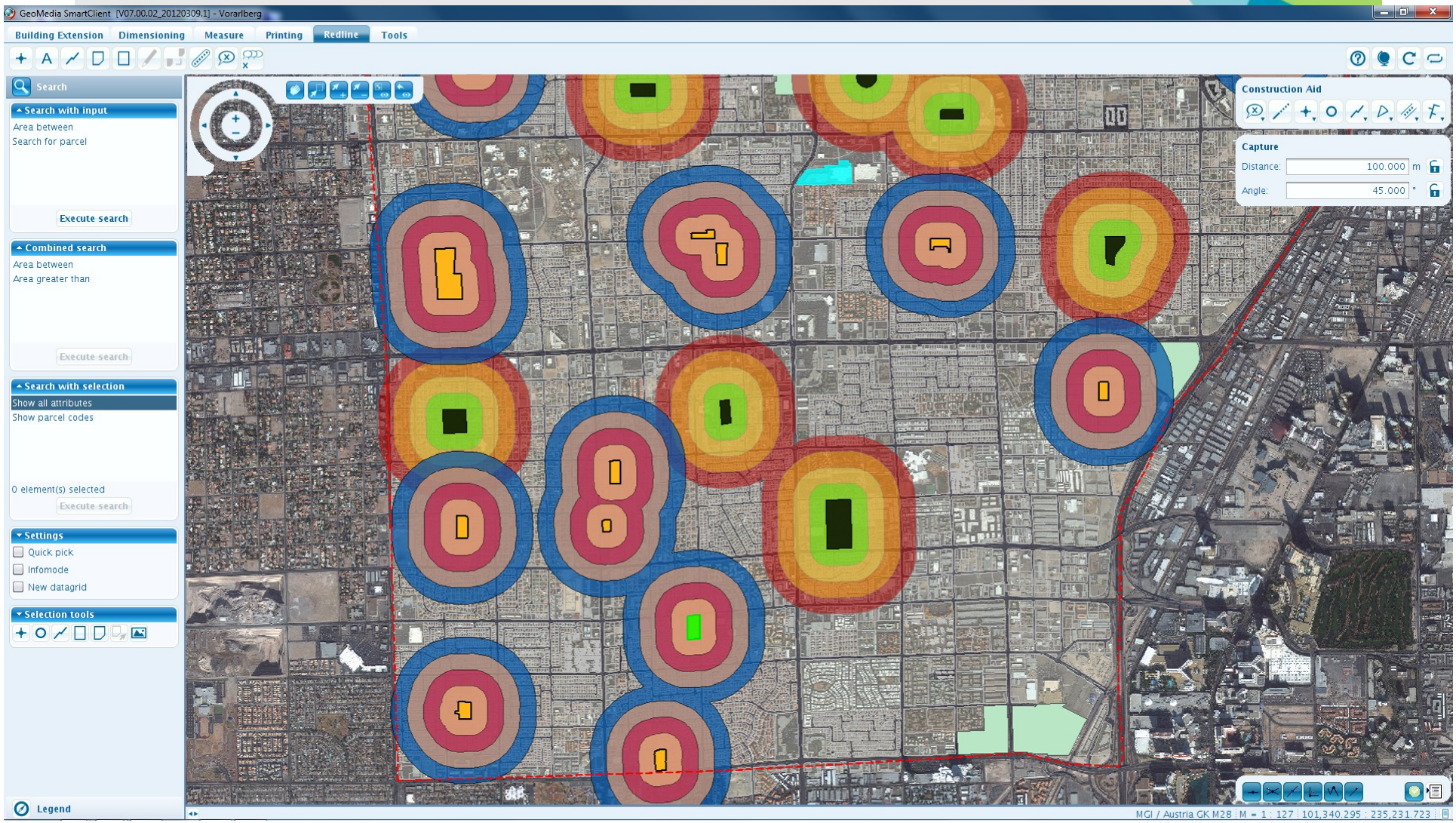
- ~ 140 customers of municipalities or small utilities in Bavaria, Germany
- The complete SaaS Cloud solution (Intergraph GeoMedia Smart Client)



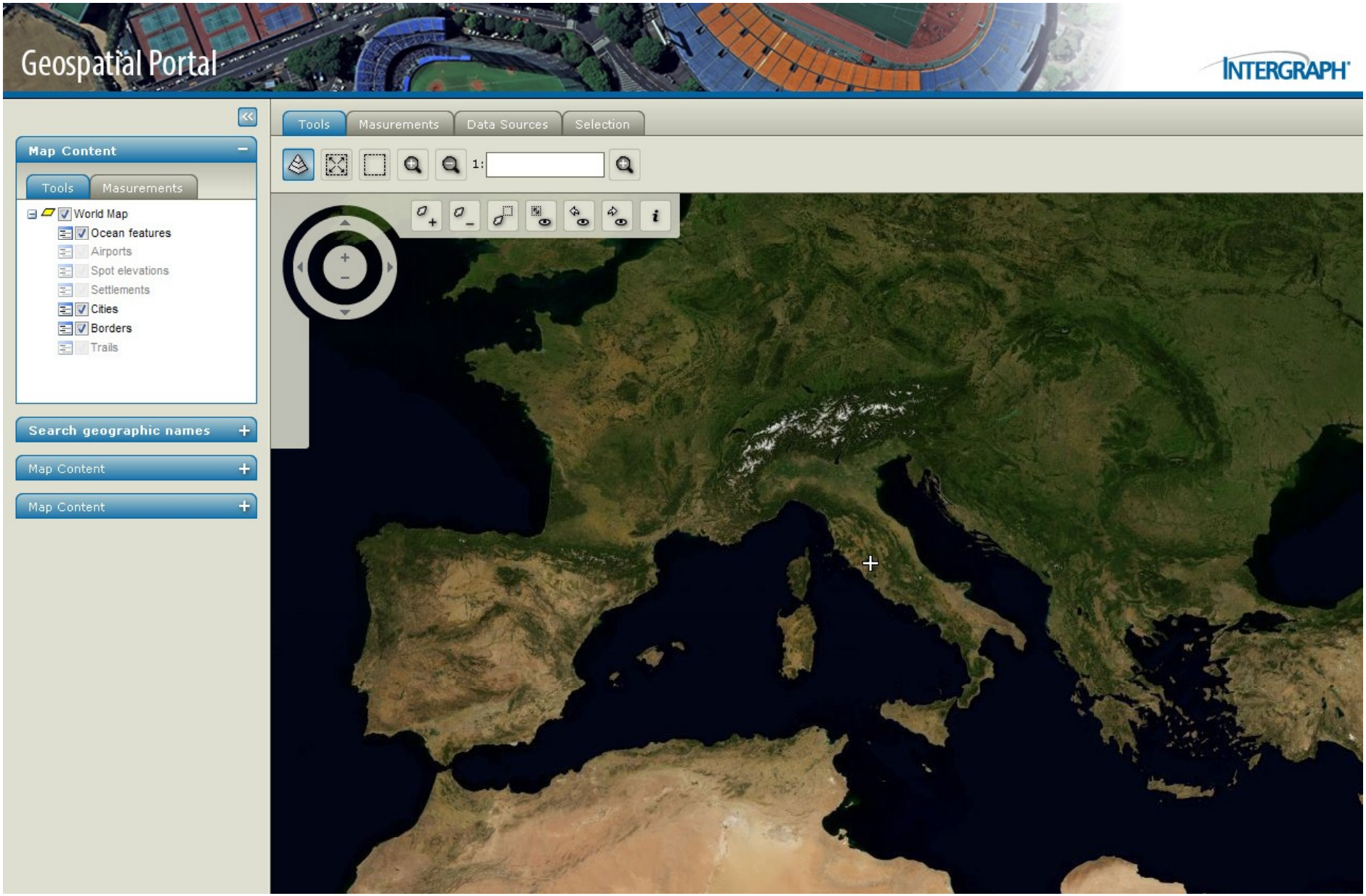
HEXAGON


GeoMedia SmartClient [v07.00.01] - PIRAEUS
Queries
QuickPick
Edit
Query (spatial)
Measure
Redlining
Übersicht
M = 1 : 1700
Legende
recreation
ski piste
ski lift
administrative borders
Höhenmodell
points of interest
municipality name
county name
county border
municipality border
traffic
Wanderwegschilder
Unterführung
motorway label
railway
forest road
transport road
private road
municipal road
state road
Notrufsäulen
Kilometrierung A14 / S16
motorway
bridge
tunnel
building
building
topographic map
topographic map 100
topographic map 200
Auxiliary Constructions
Distance: 100.000 m
Angle: 45.000 °
Kernau
Brunneckreith
Oberlangeck
Aschenmoos
Bernau
Ebnerbrand
Enterschlag
Entere Reingrub
Kurzeck
Almkopf
Planstein
Schwarzkogel
Oberbach
Simerlau
Lenzau
Bichl
Wetterkreuz
Schrottleithen
Binderkogl
Österreichisches Bundesmeldenetz - M28 | M = 1 : 170 | 99314.030 : 245773.385

HEXAGON


GeoMedia SmartClient [V07.00.02_20120309.1] - Vorarlberg
Building Extension
Dimensioning
Measure
Printing
Redline
Tools
Search
Search with input
Area between
Search for parcel
Execute search
Combined search
Area between
Area greater than
Execute search
Search with selection
Show all attributes
Show parcel codes
0 element(s) selected
Execute search
Settings
Quick pick
Infomode
New datagrid
Selection tools
Legend
Construction Aid
Capture
Distance: 100.000 m
Angle: 45.000 °
MGI / Austria GK M28 | M = 1 : 127 | 101,340.295 : 235,231.723

HEXAGON


Geospatial Portal
INTERGRAPH
Tools
Masurements
Data Sources
Selection
1:
Map Content
Tools
Masurements
World Map
Ocean features
Airports
Spot elevations
Settlements
Cities
Borders
Trails
Search geographic names
Map Content
Map Content

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3D Data - CityGML

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CASINO
AMBULANS
FIRE

MOBILITY

ENVIRONMENT

WATER

PUBLIC INFO & SOCIAL ENGAGEMENT

MONITORING

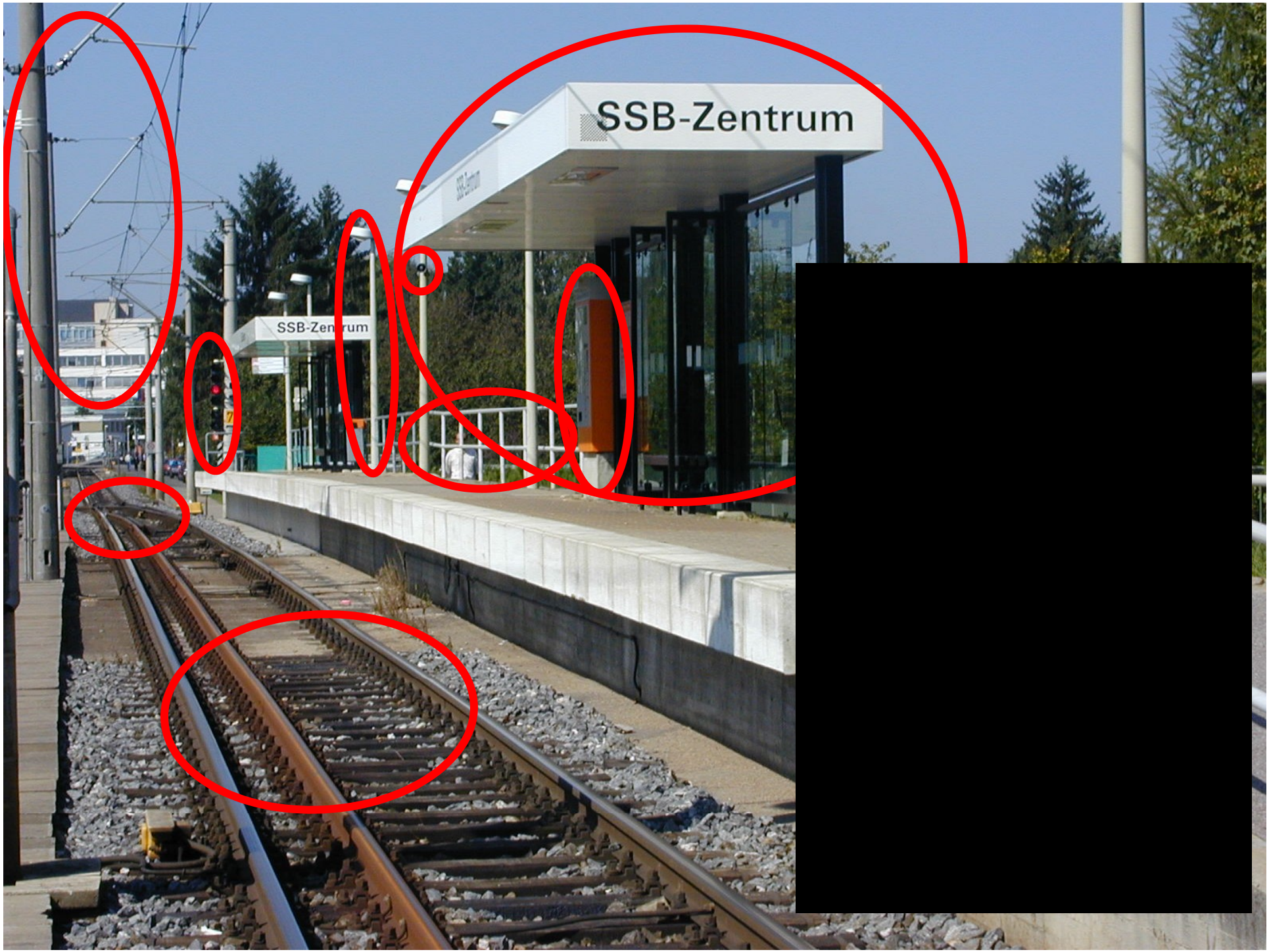
ENERGY

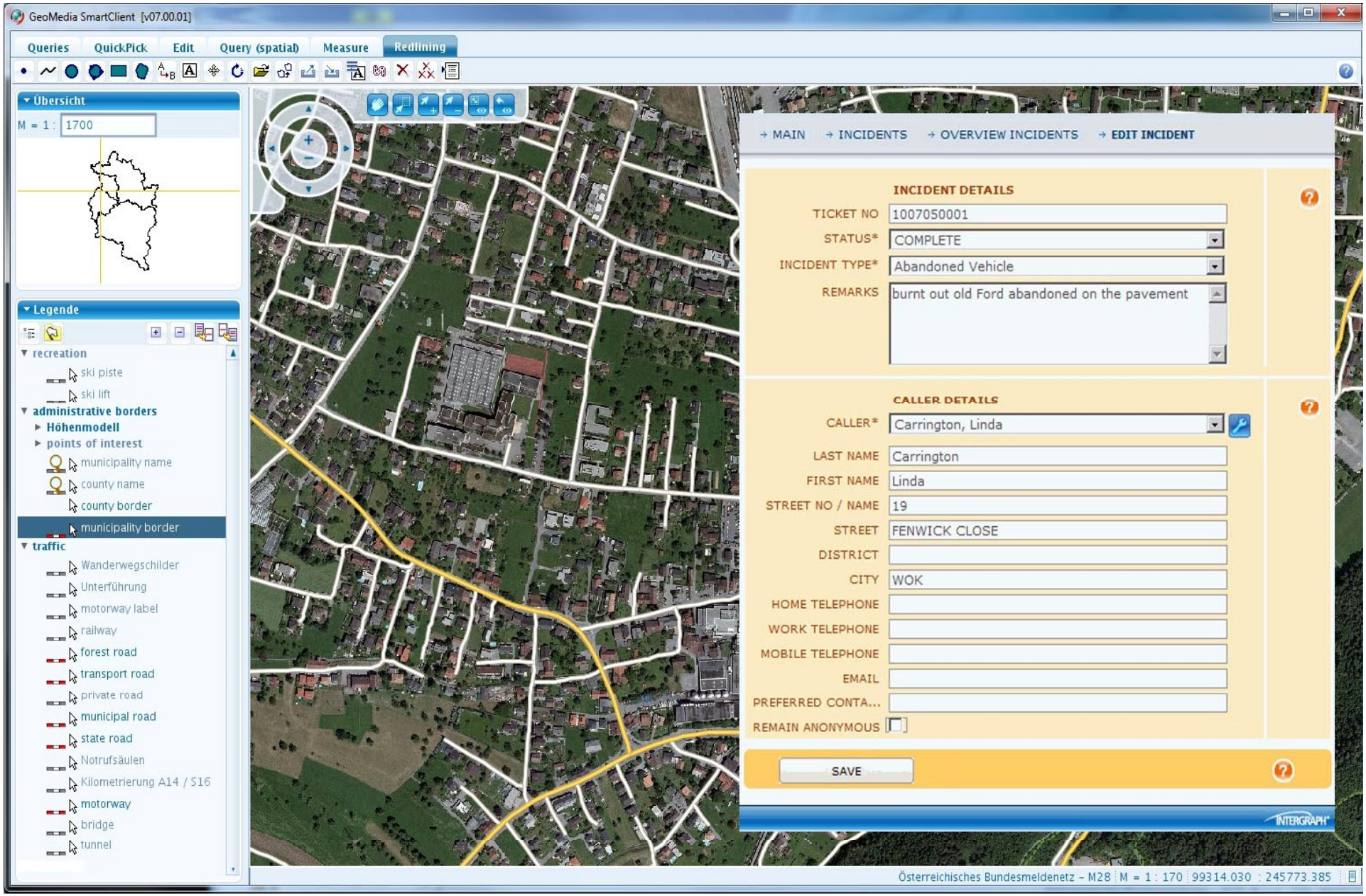
INFRASTRUCTURE

EMERGENCY & SECURITY

SMARTMOBILITY

Transp


SSB-Zentrum
SSB-Zentrum


GeoMedia SmartClient [v07.00.01]
Queries
QuickPick
Edit
Query (spatial)
Measure
Redlining
Übersicht
M = 1 : 1700
Legende
recreation
ski piste
ski lift
administrative borders
Höhenmodell
points of interest
municipality name
county name
county border
municipality border
traffic
Wanderwegschilder
Unterführung
motorway label
railway
forest road
transport road
private road
municipal road
state road
Notrufsäulen
Kilometrierung A14 / S16
motorway
bridge
tunnel
→ MAIN → INCIDENTS → OVERVIEW INCIDENTS → EDIT INCIDENT
INCIDENT DETAILS
TICKET NO 1007050001
STATUS* COMPLETE
INCIDENT TYPE* Abandoned Vehicle
REMARKS burnt out old Ford abandoned on the pavement
CALLER DETAILS
CALLER* Carrington, Linda
LAST NAME Carrington
FIRST NAME Linda
STREET NO / NAME 19
STREET FENWICK CLOSE
DISTRICT
CITY WOK
HOME TELEPHONE
WORK TELEPHONE
MOBILE TELEPHONE
EMAIL
PREFERRED CONTA...
REMAIN ANONYMOUS
SAVE
INTERGRAPH
Österreichisches Bundesmeldenetz – M28 M = 1 : 170 99314.030 : 245773.385

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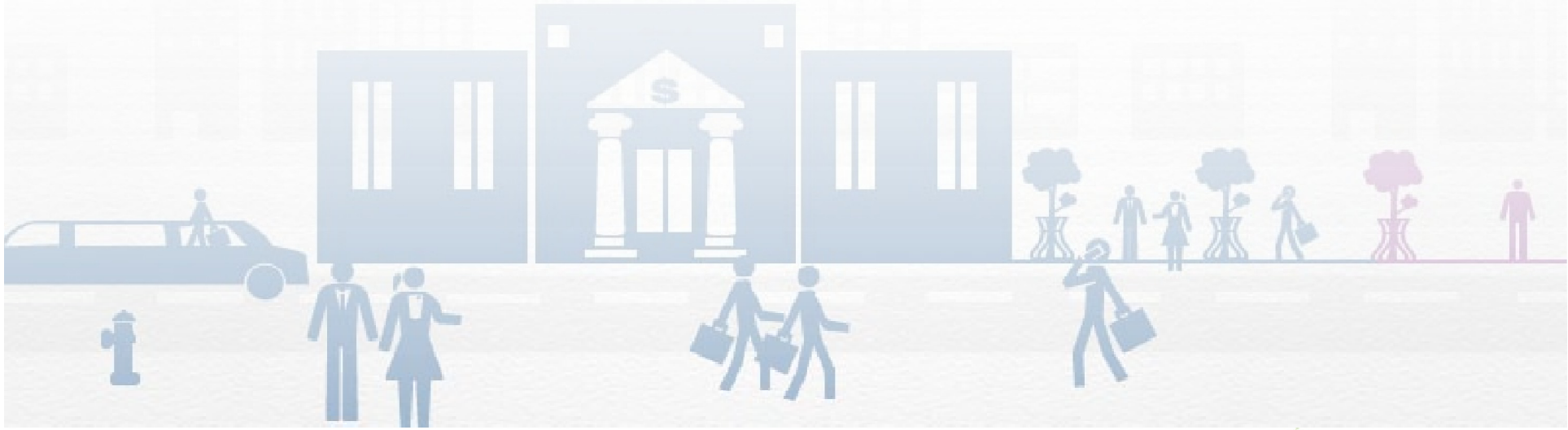
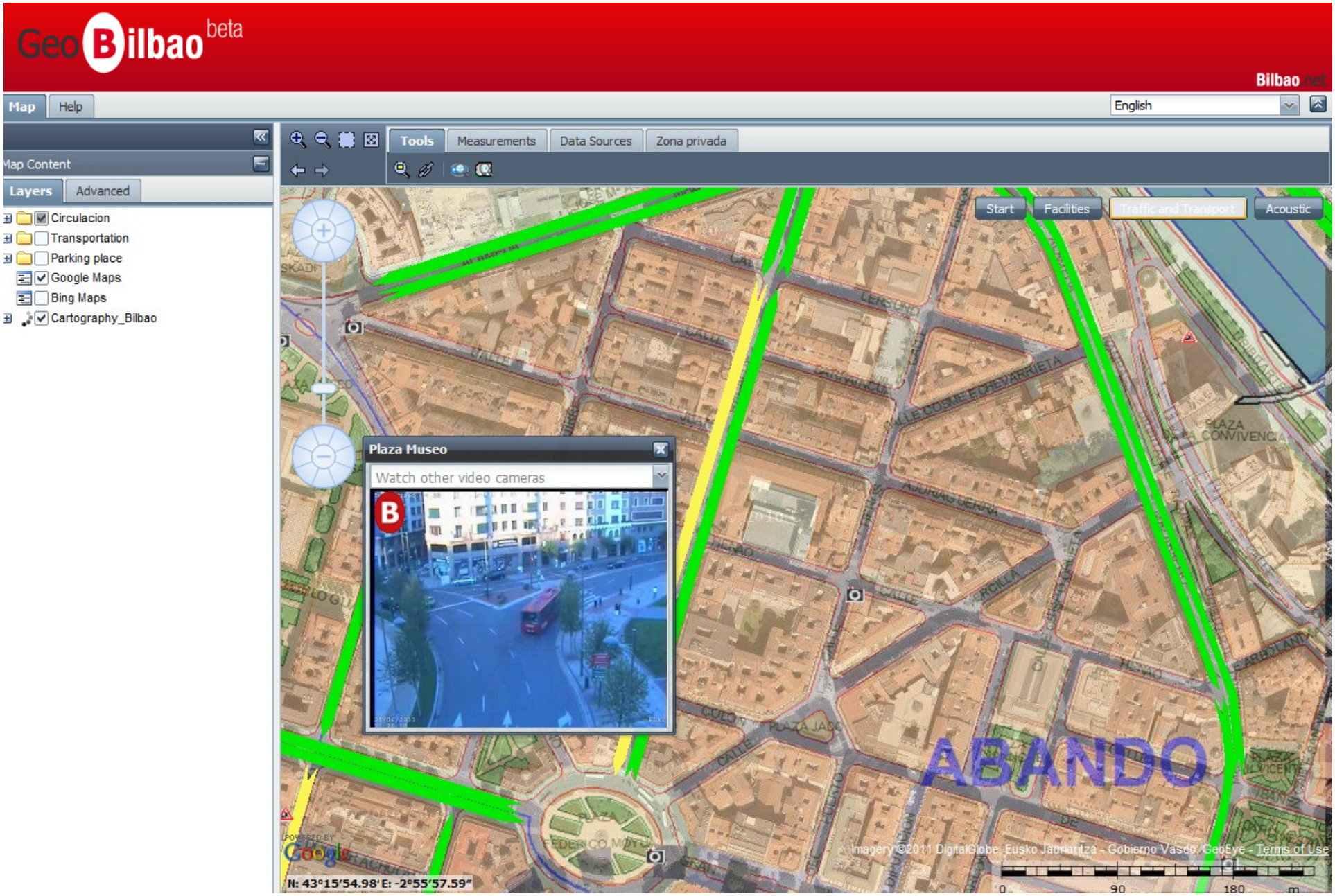
CITYPORTALS




GeoBilbao beta
Bilbao net
Map
Help
English
Map Content
Layers
Advanced
Circulacion
Transportation
Parking place
Google Maps
Bing Maps
Cartography_Bilbao
Tools
Measurements
Data Sources
Zona privada
Start
Facilities
Traffic and Transport
Acoustic
Plaza Museo
Watch other video cameras
ABANDO
Imagery ©2011 DigitalGlobe, Eusko Jaurlaritza - Gobierno Vasco, GeoEye - Terms of Use
N: 43°15'54.98" E: -2°55'57.59"
0
90
180
m

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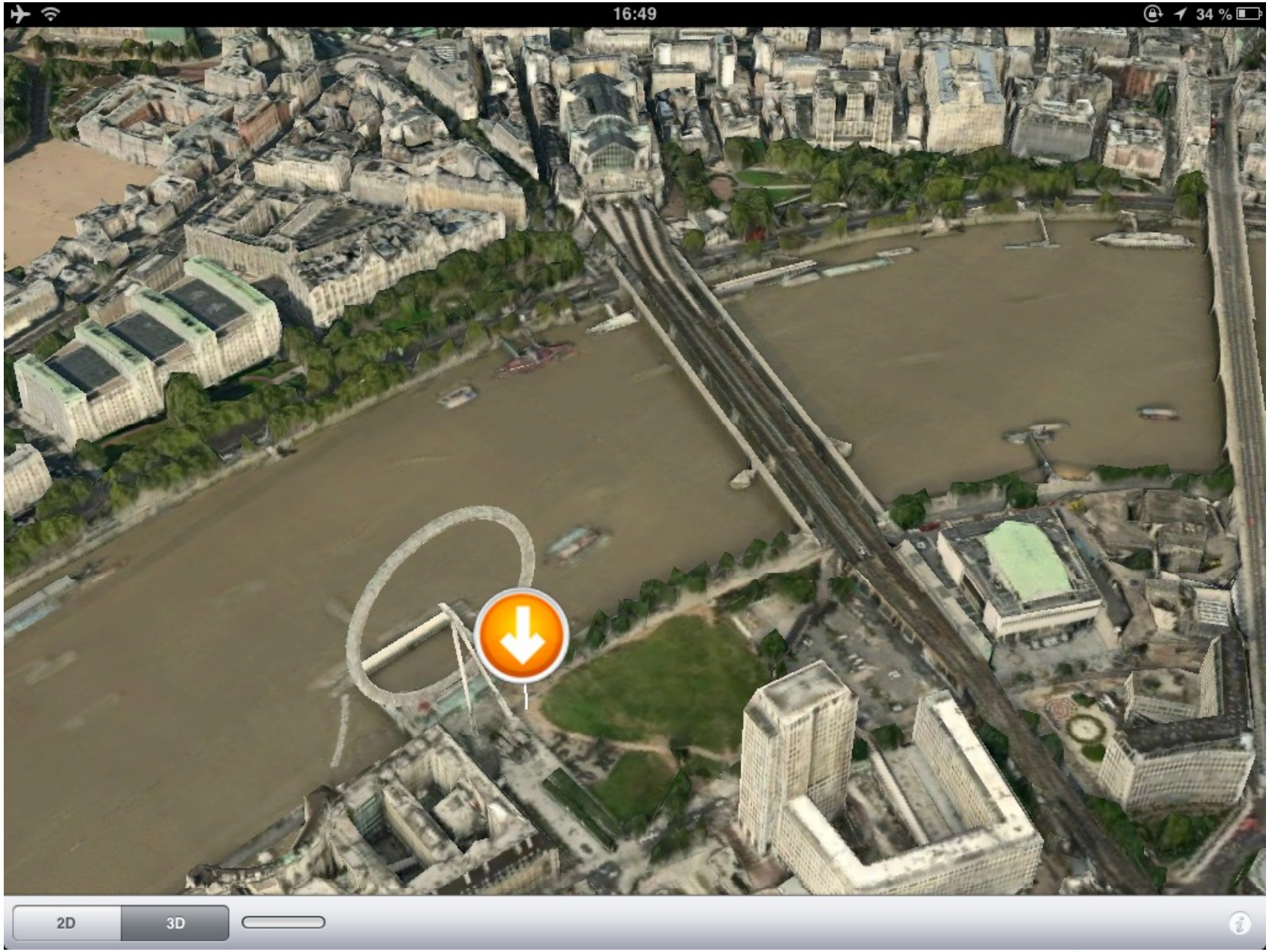
OWI
OPOLSKIE W INTERNECIE
Powered by INTERGRAPH
Mapa
3D
Sklep
Przewodnik
Zawartość mapy
Modele 3D obiektów architektoı
Brzeg
Moszna
Modele
Wizualizacje
Zamek Moszna
Nysa
Opole
Modele
Archiwum Państwov
Budynek dworca kol
Kaplica i szpital św. A
Katedra Podwyższen
Kolegium jezuickie i
Model zabudowy: Ka
Model zabudowy: Ka
Model zabudowy: Kr
Model zabudowy: Kr
Model zabudowy: Ry
Model zabudowy: Ry
Model zabudowy: Ry
Model zabudowy: Ry
Model zabudowy: W
Opolska Wenecja
Pozostałości dawnej
Ratusz
Urząd Wojewódzki
Wieża Piastowska
Zespół klasztorny fra
Zespół klasztorny po
Wizualizacje
Ortofotomapa
OPOLSKIE
© Skyline, Urząd Marszałkowski Województwa Opolskiego

HEXAGON



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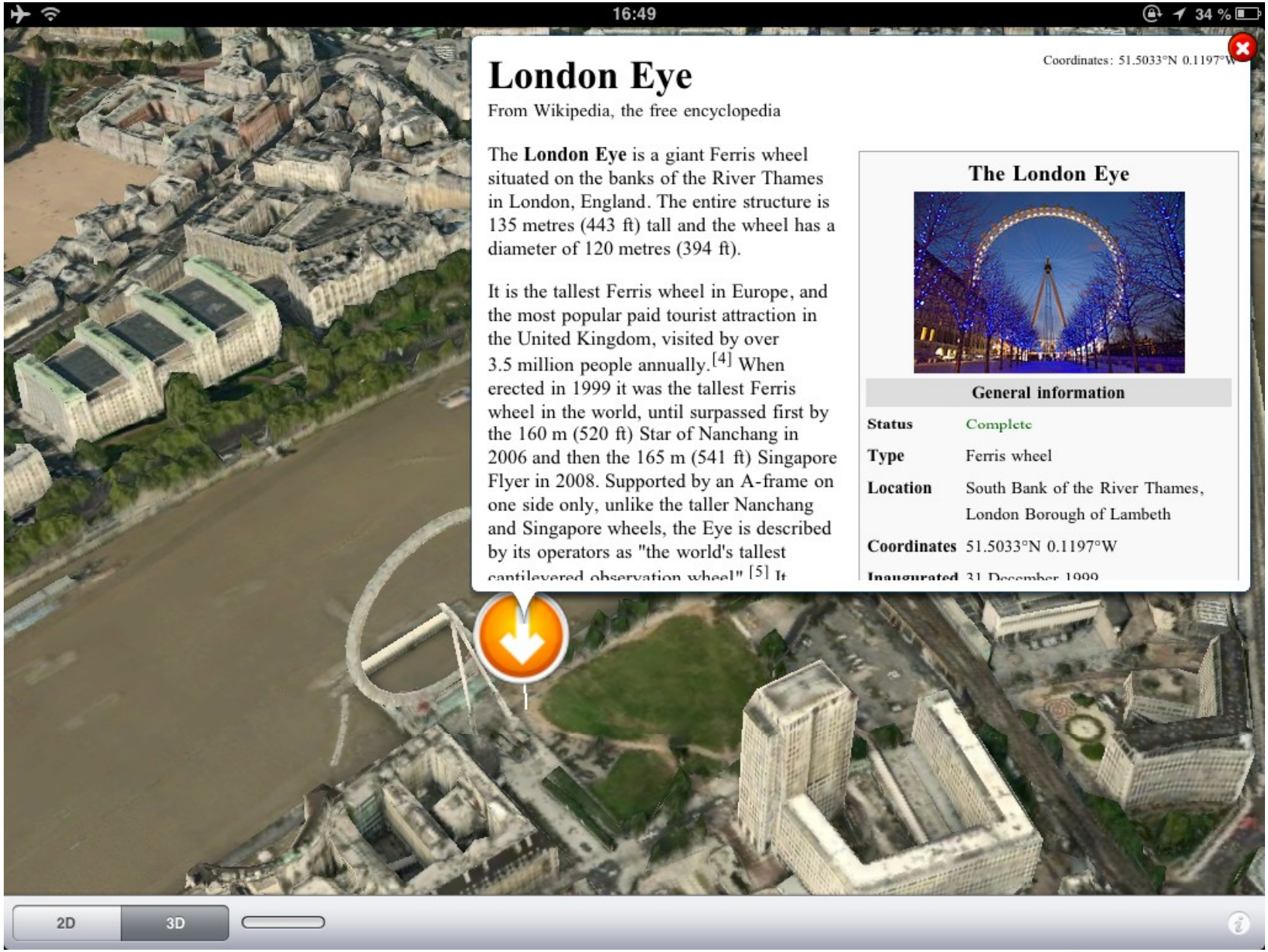

The **London Eye** is a giant Ferris wheel situated on the banks of the River Thames in London, England. The entire structure is 135 metres (443 ft) tall and the wheel has a diameter of 120 metres (394 ft).

It is the tallest Ferris wheel in Europe, and the most popular paid tourist attraction in the United Kingdom, visited by over 3.5 million people annually.[4] When erected in 1999 it was the tallest Ferris wheel in the world, until surpassed first by the 160 m (520 ft) Star of Nanchang in 2006 and then the 165 m (541 ft) Singapore Flyer in 2008. Supported by an A-frame on one side only, unlike the taller Nanchang and Singapore wheels, the Eye is described by its operators as "the world's tallest cantilevered observation wheel".[5] It

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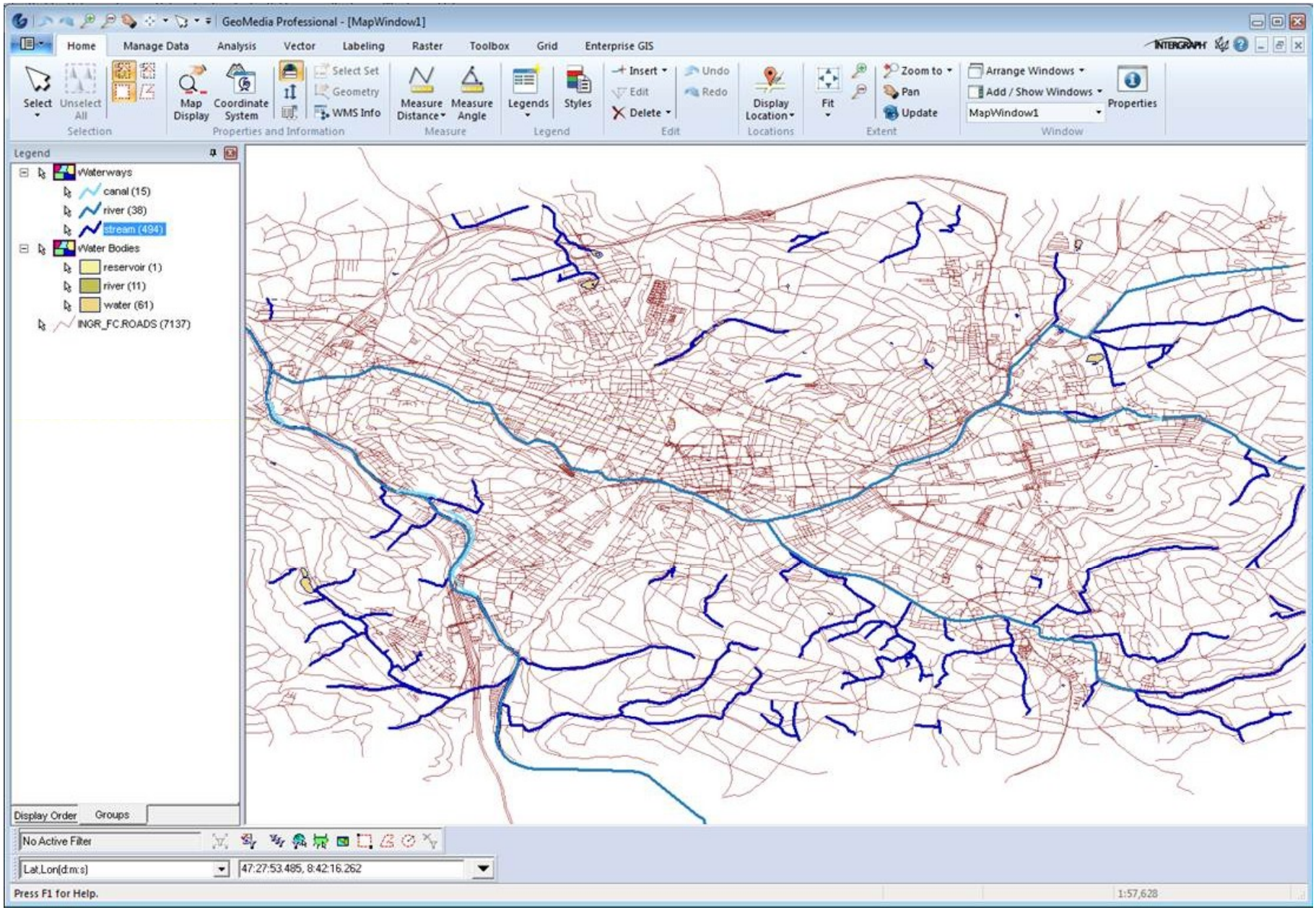
SMARTWATER

Water &


GeoMedia Professional - [MapWindow1]
Home
Manage Data
Analysis
Vector
Labeling
Raster
Toolbox
Grid
Enterprise GIS
Select
Unselect All
Selection
Map Display
Coordinate System
Select Set
Geometry
WMS Info
Properties and Information
Measure Distance
Measure Angle
Measure
Legends
Styles
Legend
Insert
Edit
Delete
Undo
Redo
Edit
Display Location
Locations
Fit
Zoom to
Pan
Update
Extent
Arrange Windows
Add / Show Windows
MapWindow1
Properties
Window
Legend
Waterways
canal (15)
river (38)
stream (494)
Water Bodies
reservoir (1)
river (11)
water (61)
INGR_FC:ROADS (7137)
Display Order
Groups
No Active Filter
Lat,Lon(d:m:s)
47:27:53.485, 8:42:16.262
Press F1 for Help.
1:57,628

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MANAGE ASSETS DIRECTLY FROM MOBILE DEVICES: INSERT, UPDATE AND DELETE

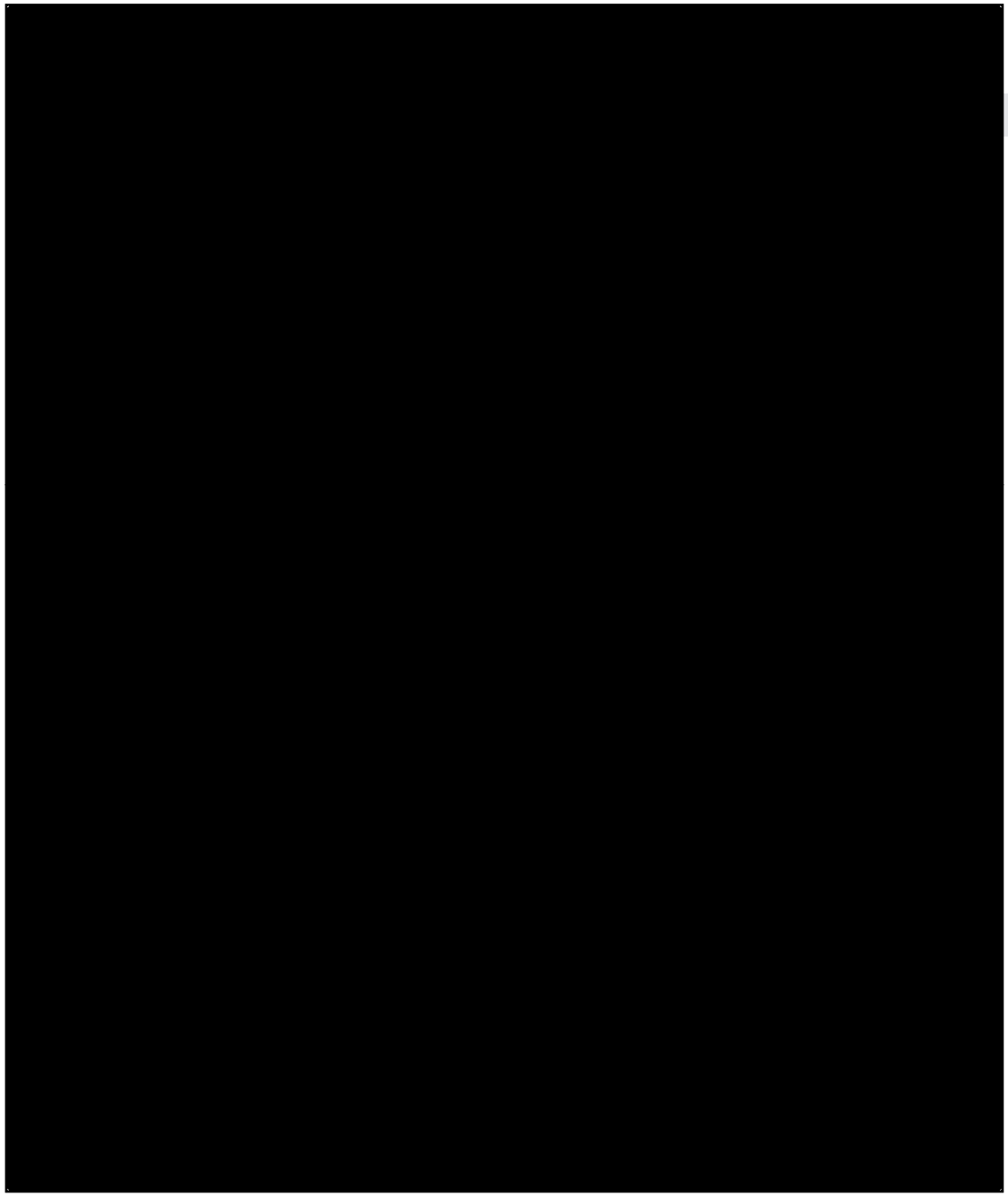
HEXAGON

SMARTMONITORING

Hydro Electric Power Station :: Monitoring and Control


Dam Management and Emergency Management System V1.5 - Windows Internet Explorer
Favorites
Dam Management and Emergency Management...
Dam Safety and Emergency Management
Logon Time:2012-05-27 16:00:09
Detailed Graphic
Unicoi Dam
Sensor Layout
3D Image
2D Map
Sensors Historical Statistics
Unicoi Dam
Mid Dam
Unicoi Dam
Flow
Water Level
A-Displ
B-Displ
SMP
Seepage
Up WL 1708
Down WL 1675
I-1-A 0.06
I-2-A 0.06
I-3-A 0.08
I-4-A 0.08
I-5-A 0.07
FM-1 3.00
FM-2 8.00
FM-3 67.00
FM-4 73.00
FM-5 0.00
Water-level Measuring Post
A-Displ...
B-Displ...
0.06
0.1
Water Level Observation Up WL
Flow
Seepage
Osmosis
1720
1718
1716
1714
1712
1710
1708
1706
1704
1702
1700
16:03:59
16:04:09
16:04:19
16:04:29
16:04:39
16:04:49
16:04:59
16:05:09
16:05:19
16:05:29
2012-05-27
Cloud picture
Rainfall
Submerge
0:00/0:00
New Messa...
Hazard: 0
Current User: Unicoi Dam Bur...
Logon Time:2012-05-27 16:00:09

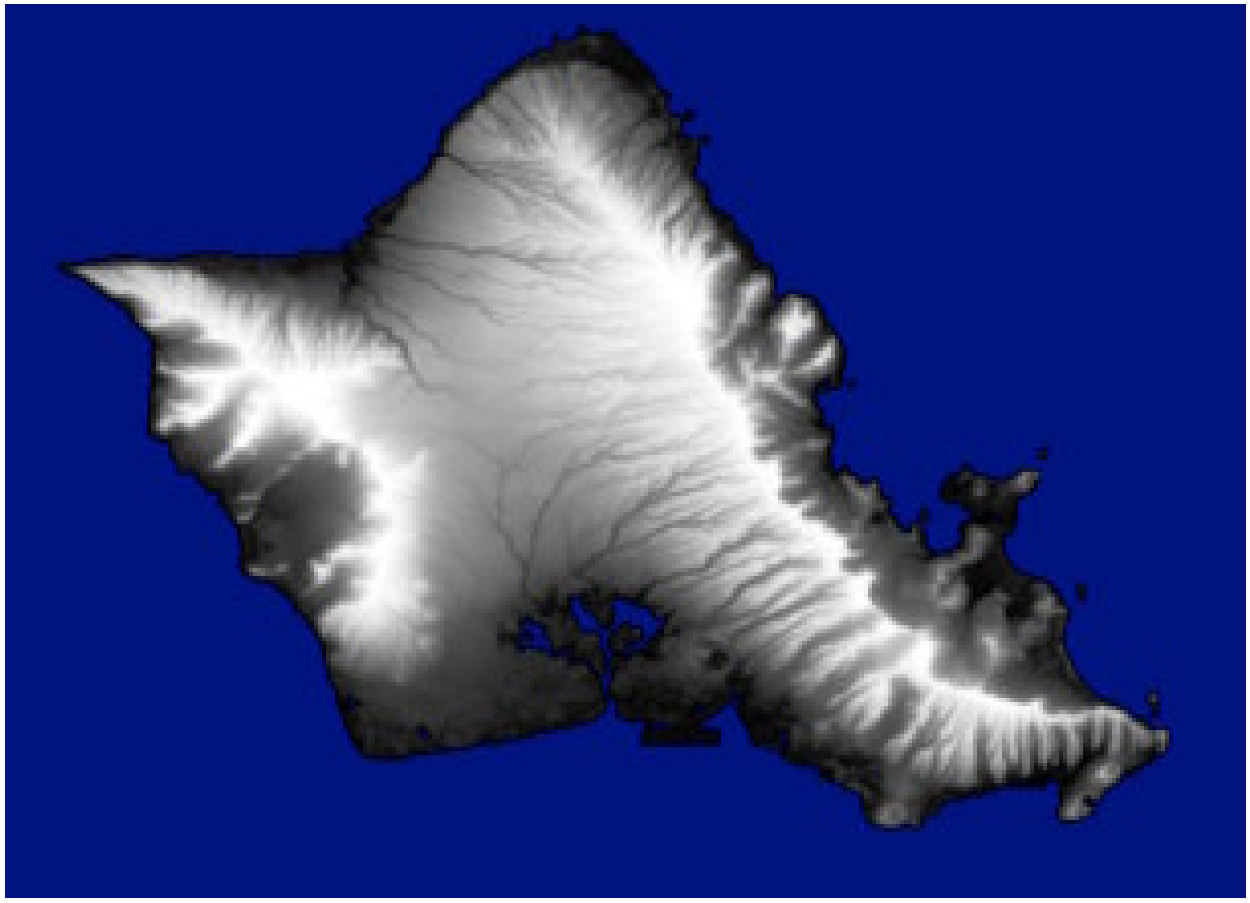
HEXAGON



CLOUD BASED CITIZEN CROWD SOURCING WITH MOBILE ALERT

HEXAGON

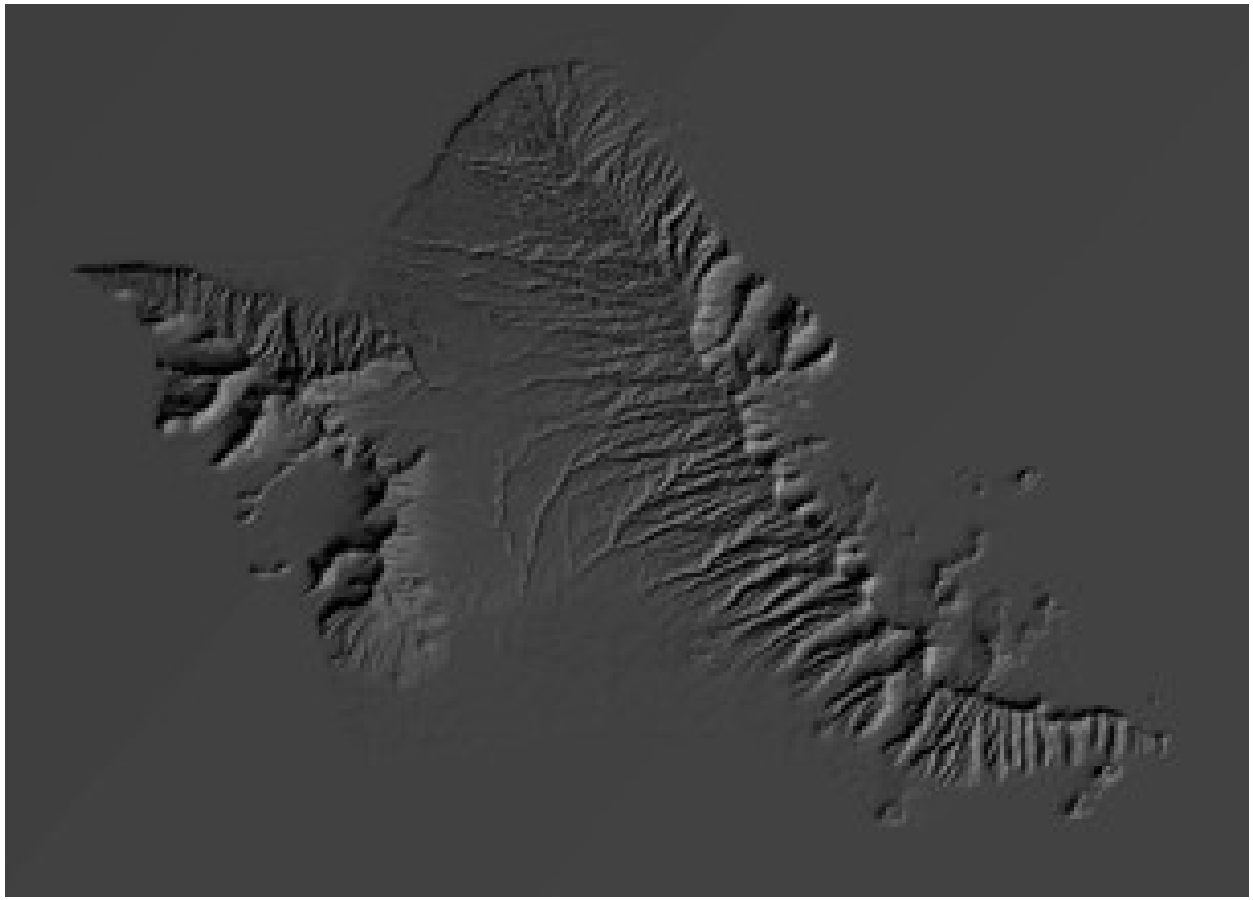
ENVIRONMENT



COLLECT

DIGITAL ELEVATION MODEL: SITE FOR SOLAR POWER GENERATION

HEXAGON

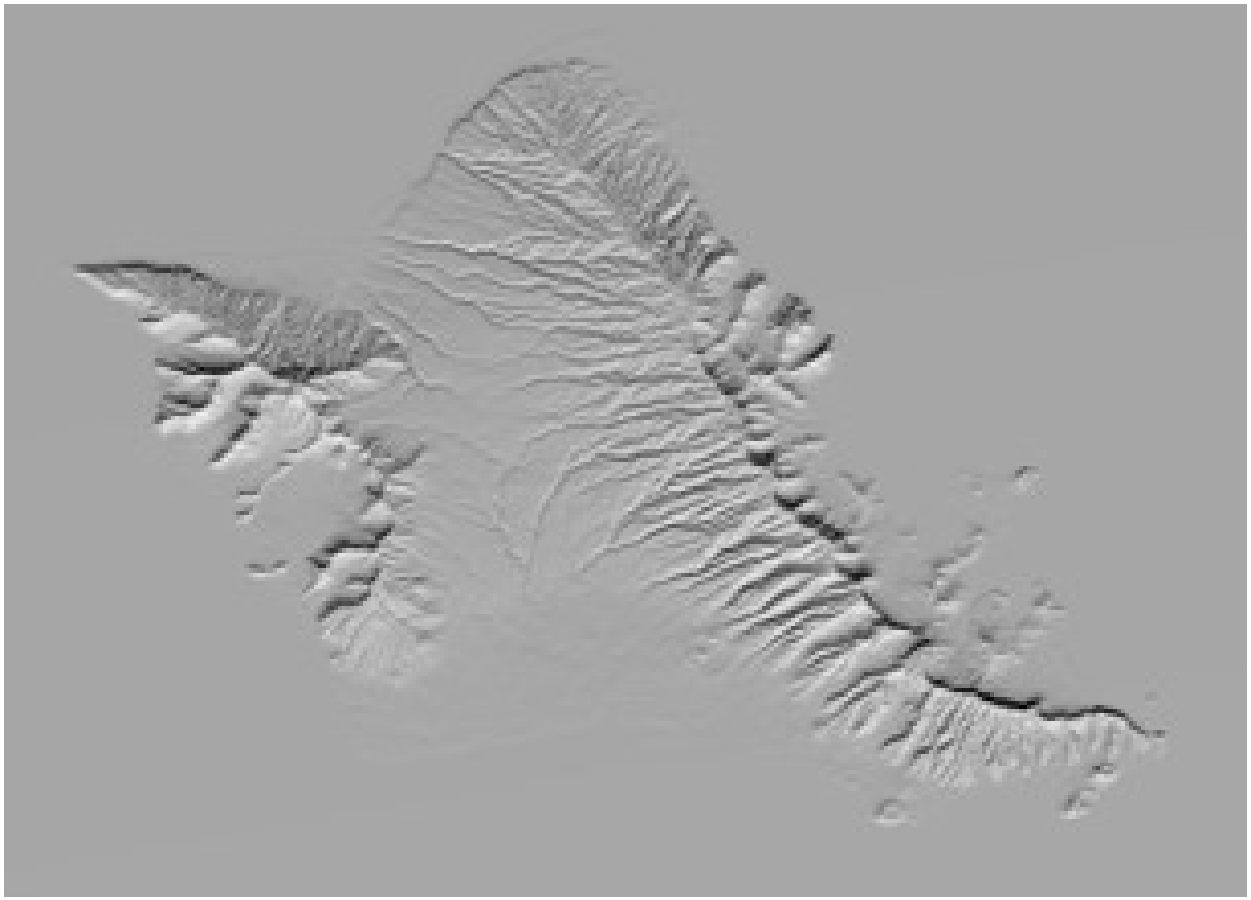


TRANSFORM

SHOW: WATTS PER SQUARE METRE DEM

TIME:9AM

HEXAGON

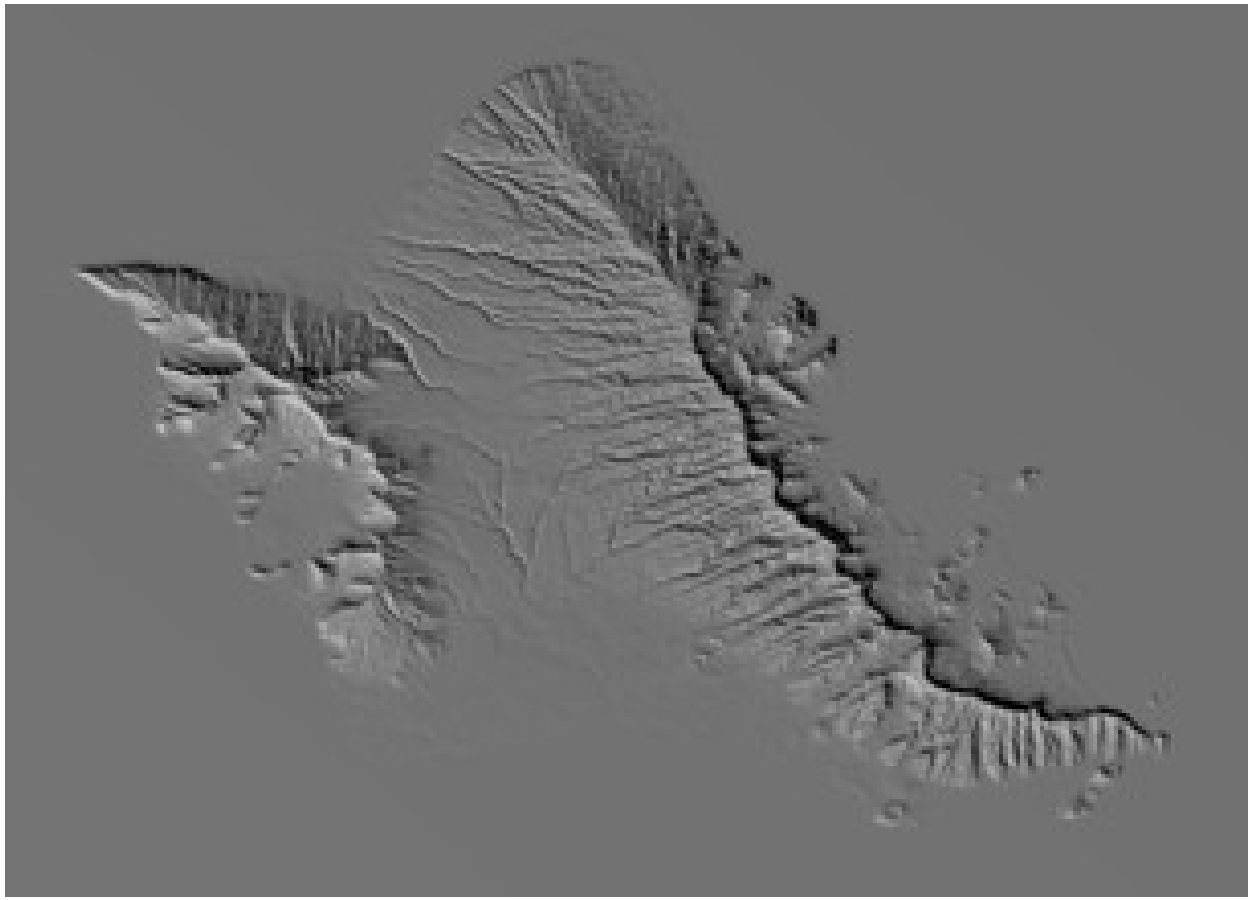


TRANSFORM

SHOW: WATTS PER SQUARE METRE DEM

TIME:12PM

HEXAGON

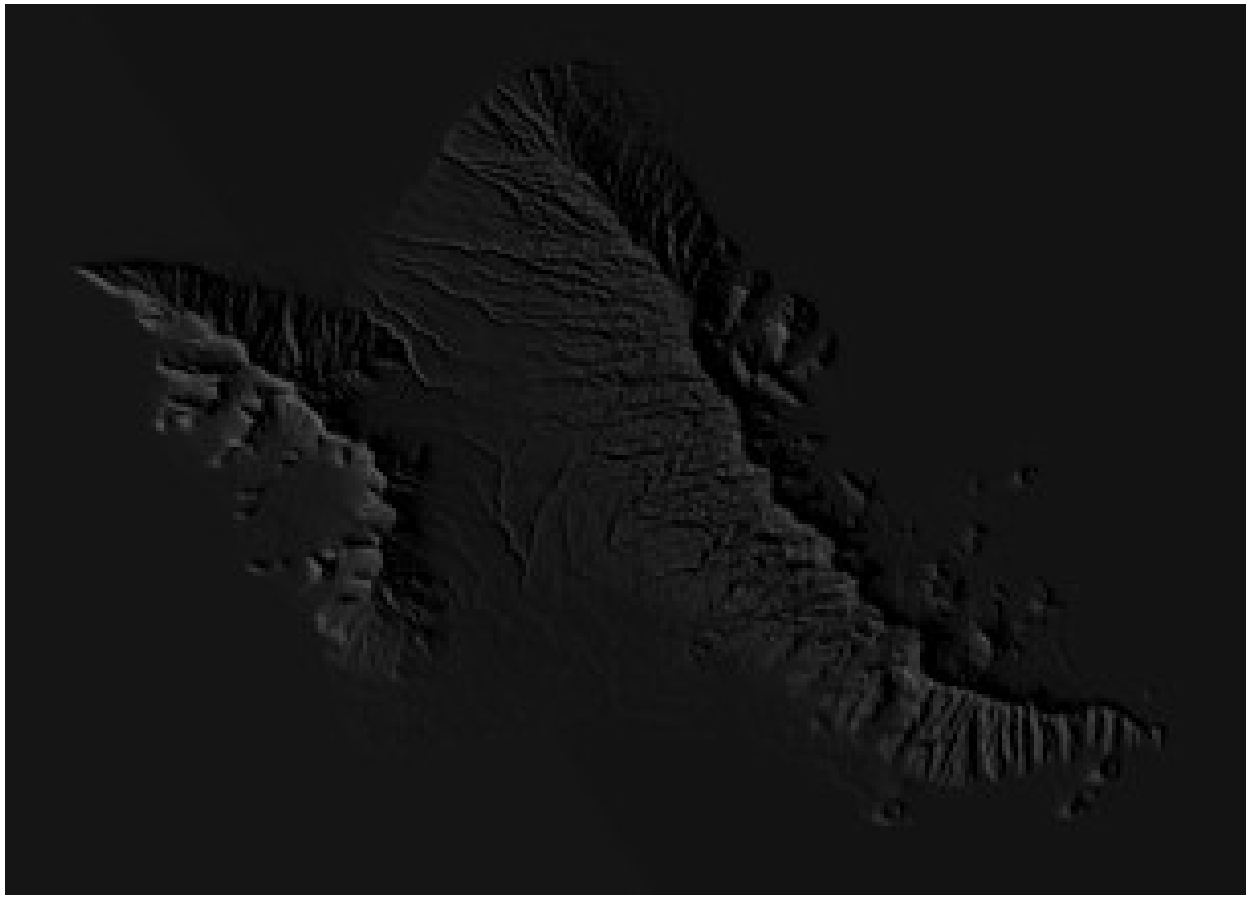


TRANSFORM

SHOW: WATTS PER SQUARE METRE DEM

TIME:3PM

HEXAGON

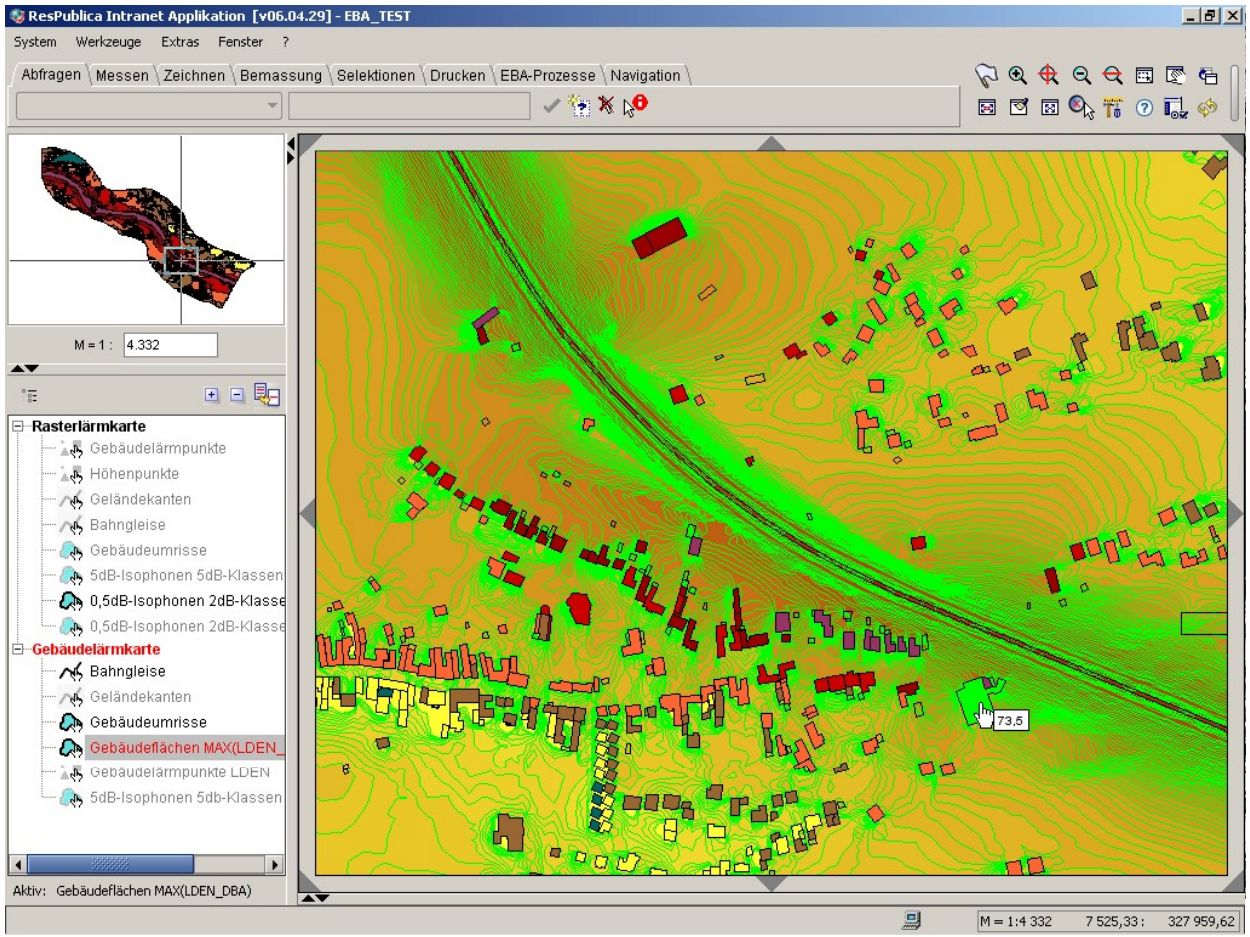


TRANSFORM

SHOW: WATTS PER SQUARE METRE DEM

TIME:6PM

HEXAGON

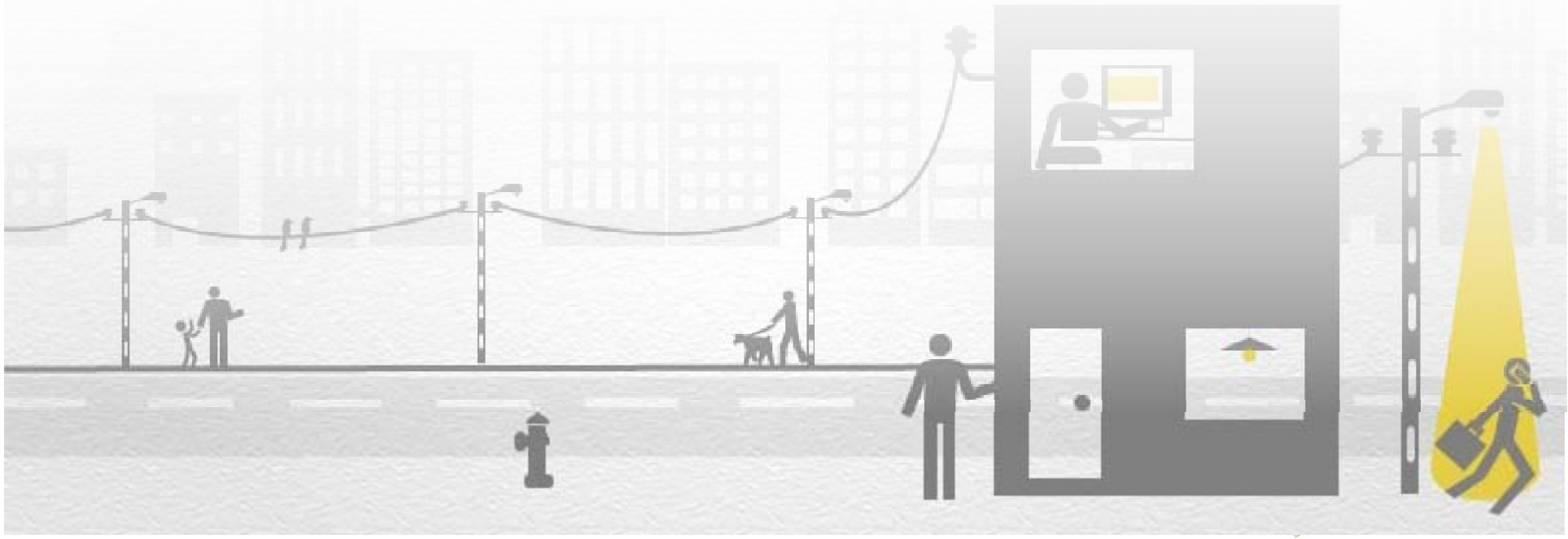


INFORM

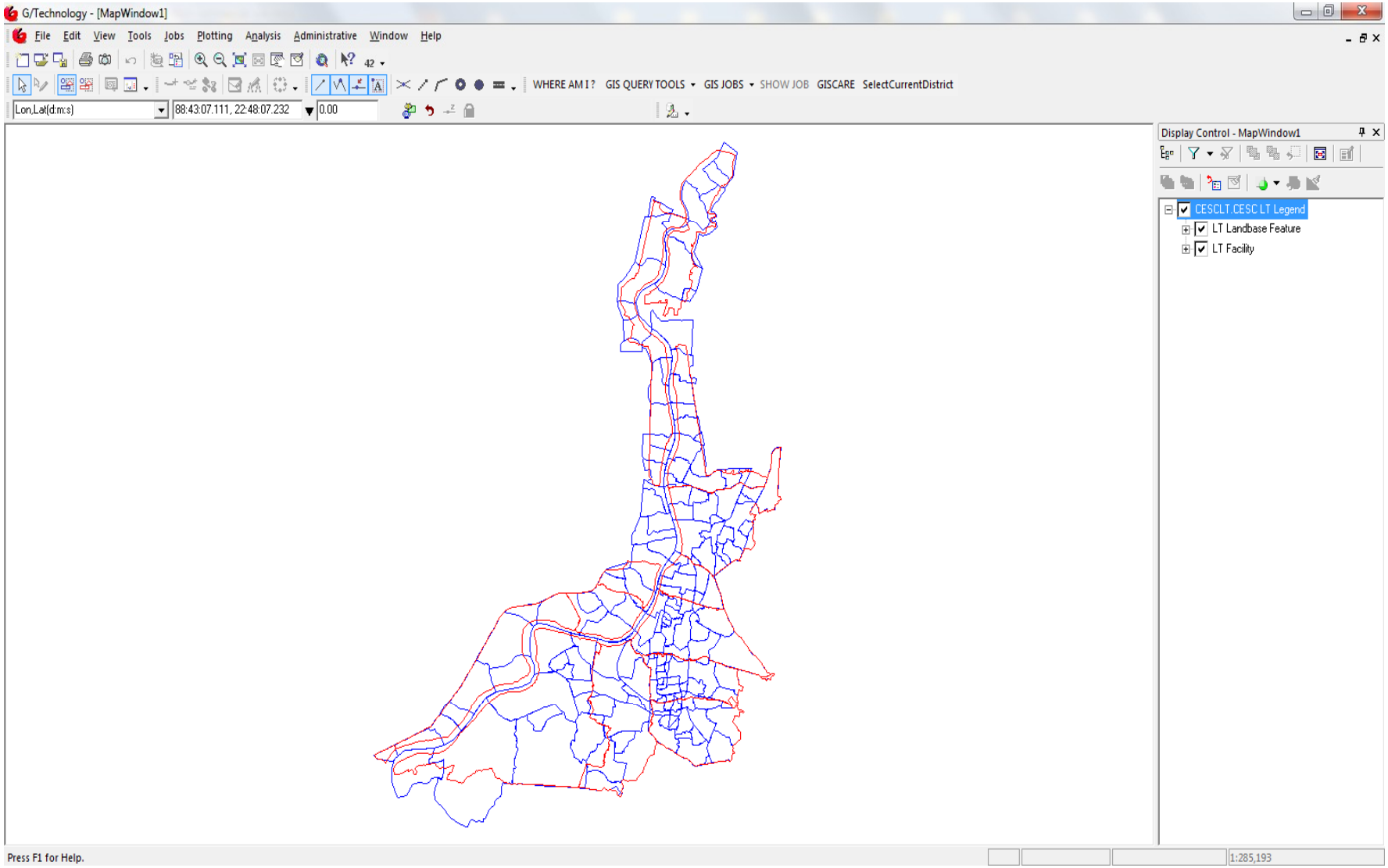
SHOW: BEST SITES FOR SOLAR FARM TO DECISION MAKER

HEXAGON

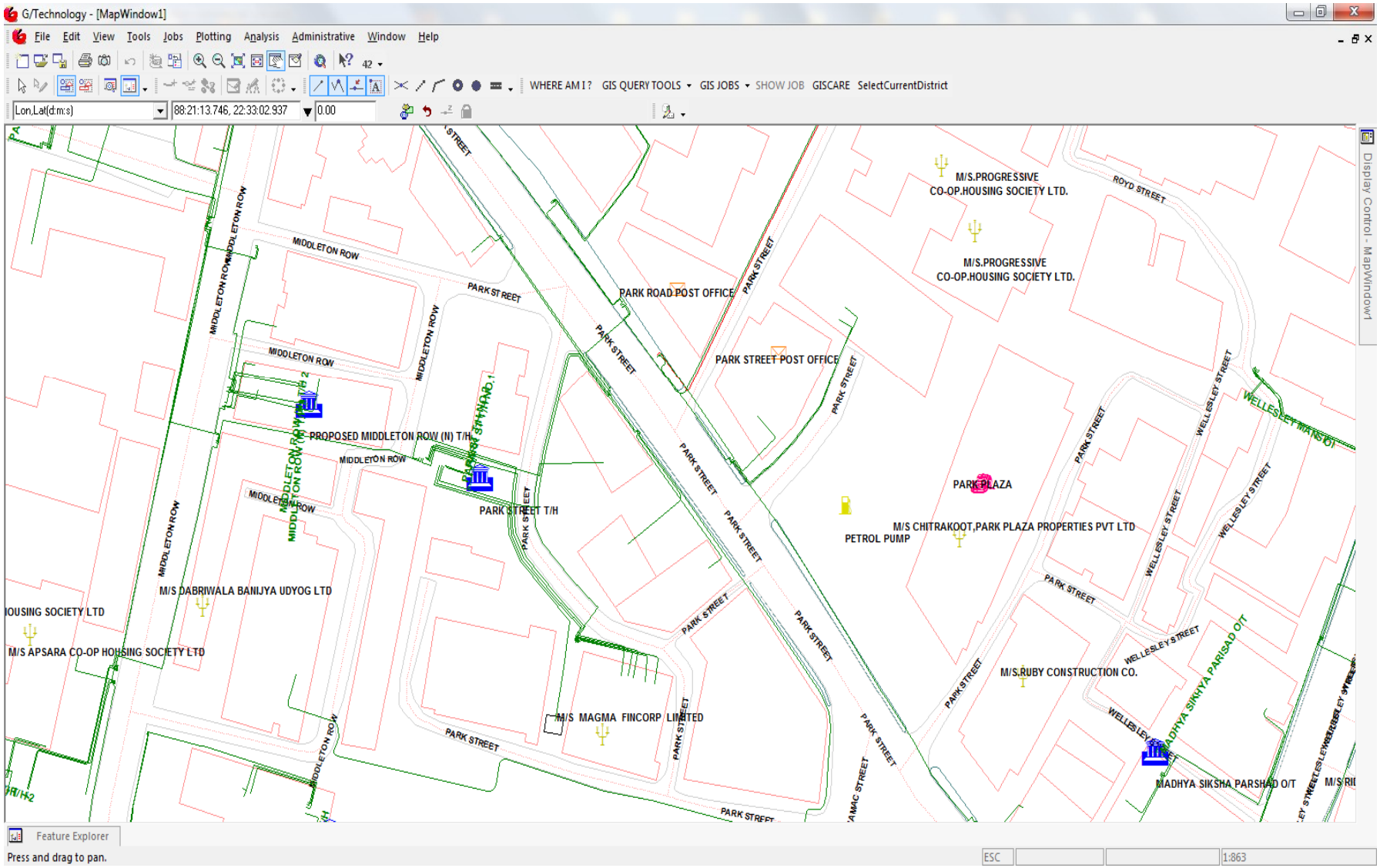
SMARTGRID



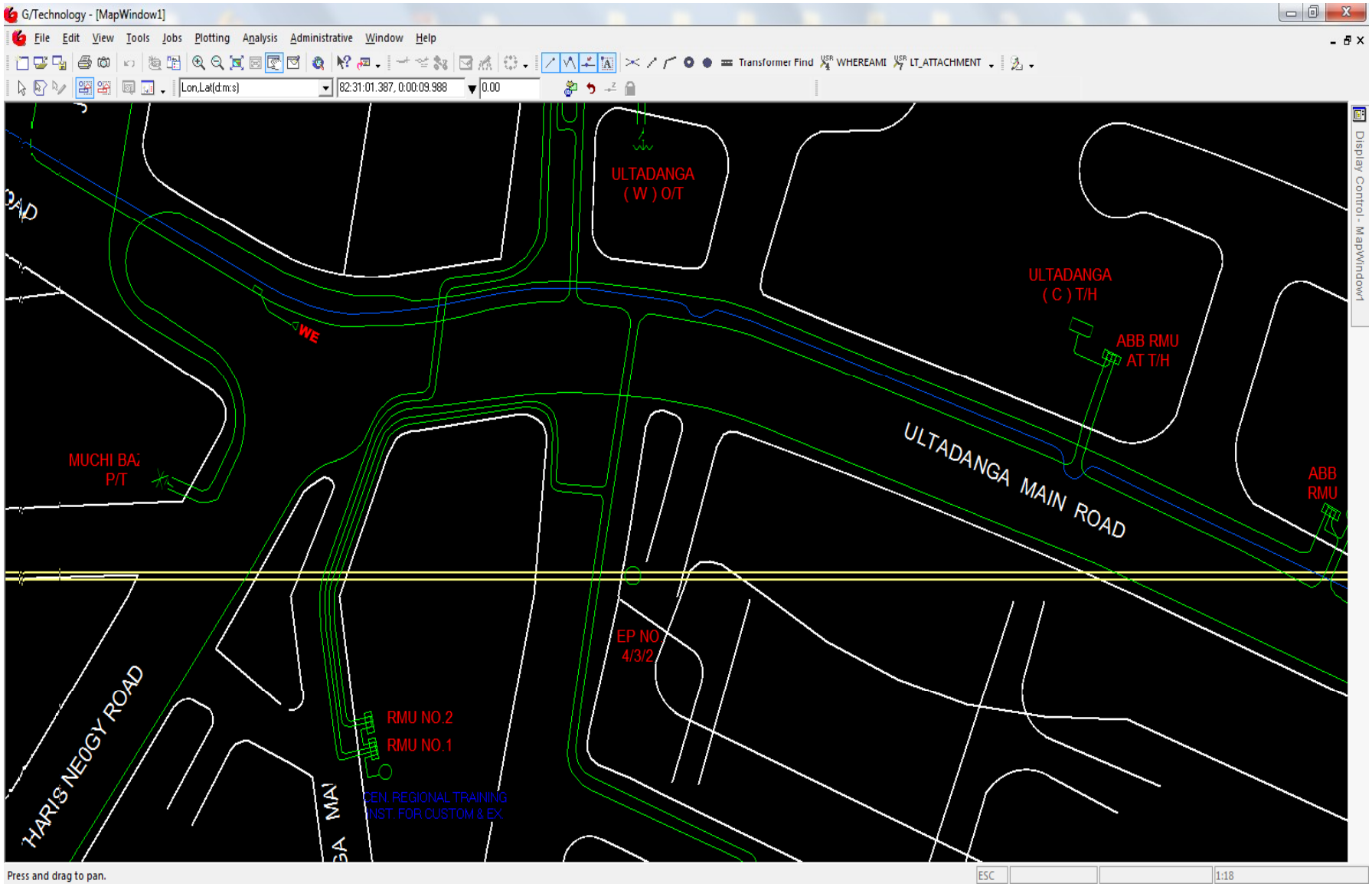
Leveraging the digital information in electric networks to improve decision making and operational efficiency


G/Technology - [MapWindow1]
File Edit View Tools Jobs Plotting Analysis Administrative Window Help
WHERE AM I? GIS QUERY TOOLS GIS JOBS SHOW JOB GISCARE SelectCurrentDistrict
Lon,Lat(d:m:s)
88:43:07.111, 22:48:07.232
0.00
Display Control - MapWindow1
CESCLT.CESC LT Legend
LT Landbase Feature
LT Facility
Press F1 for Help.
1:285,193

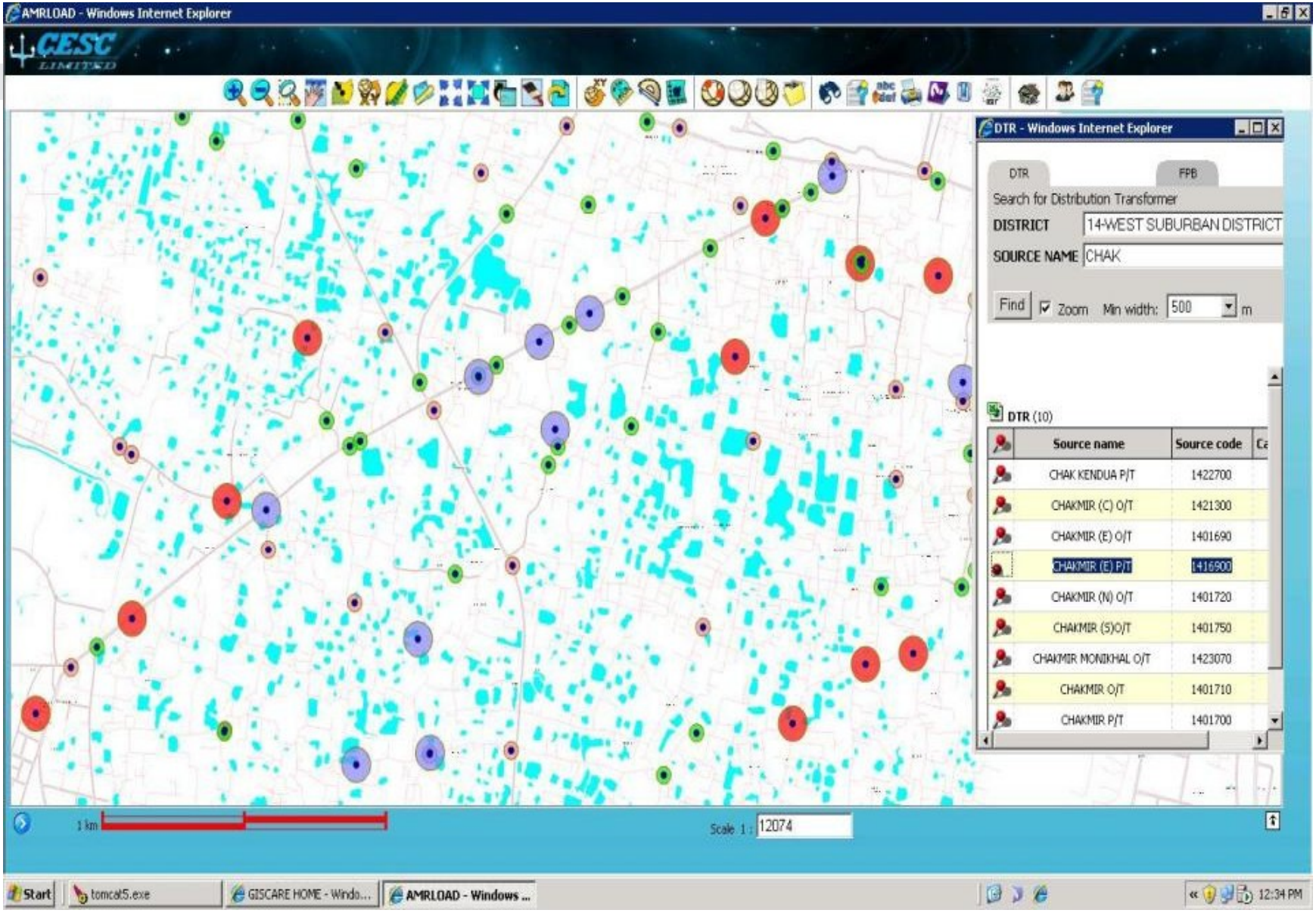
HEXAGON


G/Technology - [MapWindow1]
File Edit View Tools Jobs Plotting Analysis Administrative Window Help
WHERE AM I ? GIS QUERY TOOLS GIS JOBS SHOW JOB GISCARE SelectCurrentDistrict
Lon,Lat(d:m:s)
88:21:13.746, 22:33:02.937
0.00
M/S.PROGRESSIVE CO-OP.HOUSING SOCIETY LTD.
M/S.PROGRESSIVE CO-OP.HOUSING SOCIETY LTD.
ROYD STREET
PARK ROAD POST OFFICE
PARK STREET POST OFFICE
PARK STREET
MIDDLETON ROW
PROPOSED MIDDLETON ROW (N) T/H
PARK STREET T/H
PARK PLAZA
M/S CHITRAKOOT,PARK PLAZA PROPERTIES PVT LTD
PETROL PUMP
WELLESLEY STREET
WELLESLEY MANSION
M/S DABRIWALA BANIJYA UDYOG LTD
M/S APSARA CO-OP HOUSING SOCIETY LTD
M/S RUBY CONSTRUCTION CO.
M/S MAGMA FINCORP LIMITED
MADHYA SIKSHA PARISAD O/T
Feature Explorer
Press and drag to pan.
ESC
1:863
Display Control - MapWindow1

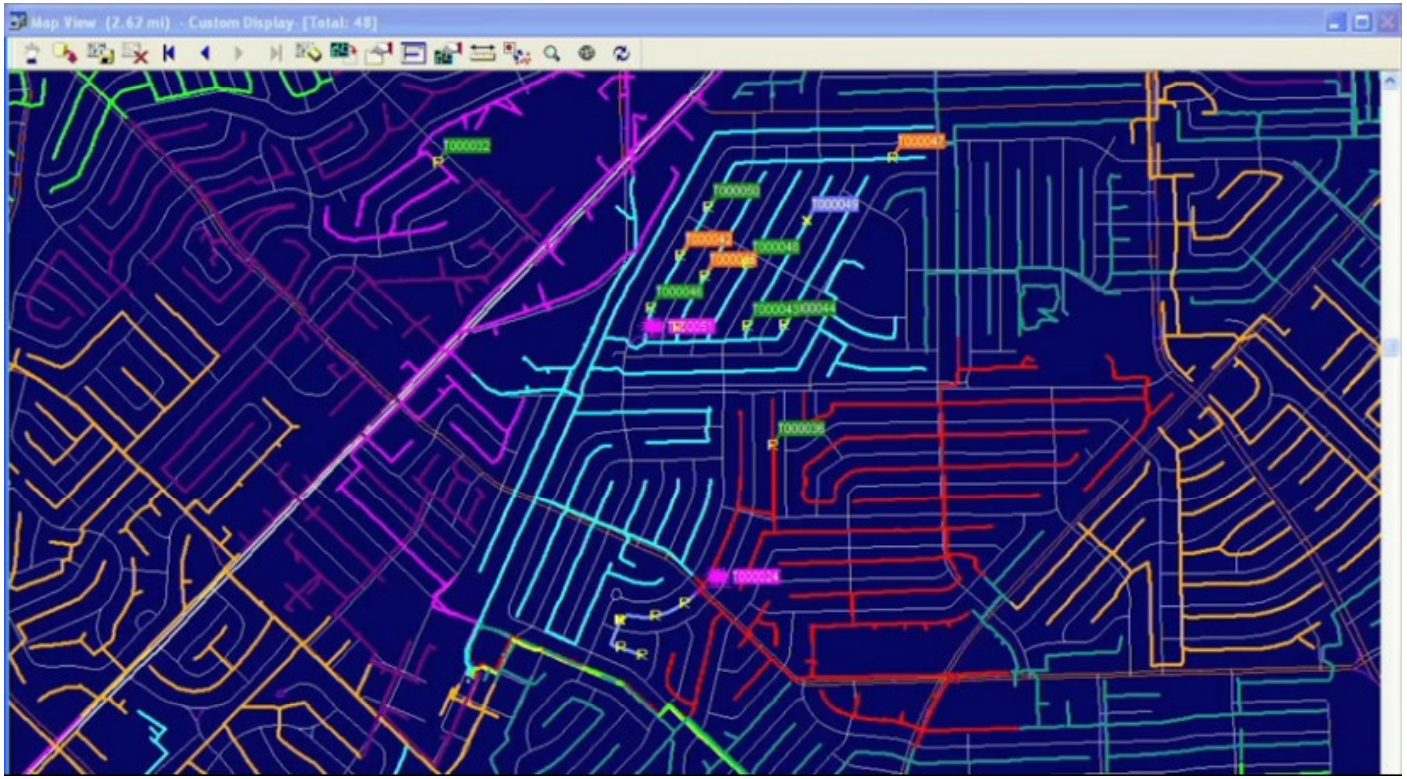
HEXAGON


G/Technology - [MapWindow1]
File Edit View Tools Jobs Plotting Analysis Administrative Window Help
Transformer Find WHEREAMI LT_ATTACHMENT
Lon,Lat(d:m:s)
82:31:01.387, 0:00:09.988
0.00
ULTADANGA
(W) O/T
ULTADANGA
(C) T/H
ABB RMU
AT T/H
ABB
RMU
ULTADANGA MAIN ROAD
MUCHI BA
P/T
EP NO
4/3/2
RMU NO.2
RMU NO.1
CEN. REGIONAL TRAINING
INST. FOR CUSTOM & EX.
HARIS NEOGY ROAD
Display Control - MapWindow1
Press and drag to pan.
ESC
1:18

HEXAGON


AMRLOAD - Windows Internet Explorer
CESC LIMITED
DTR - Windows Internet Explorer
DTR
FPB
Search for Distribution Transformer
DISTRICT
14-WEST SUBURBAN DISTRICT
SOURCE NAME
CHAK
Find
Zoom
Min width:
500
m
DTR (10)
Source name
Source code
CHAK KENDUA P/T 1422700
CHAKMIR (C) O/T 1421300
CHAKMIR (E) O/T 1401690
CHAKMIR (E) P/T 1416900
CHAKMIR (N) O/T 1401720
CHAKMIR (S)O/T 1401750
CHAKMIR MONIKHAL O/T 1423070
CHAKMIR O/T 1401710
CHAKMIR P/T 1401700
1 km
Scale 1 : 12074
Start
tomcat5.exe
GISCARE HOME - Windo...
AMRLOAD - Windows ...
12:34 PM

HEXAGON

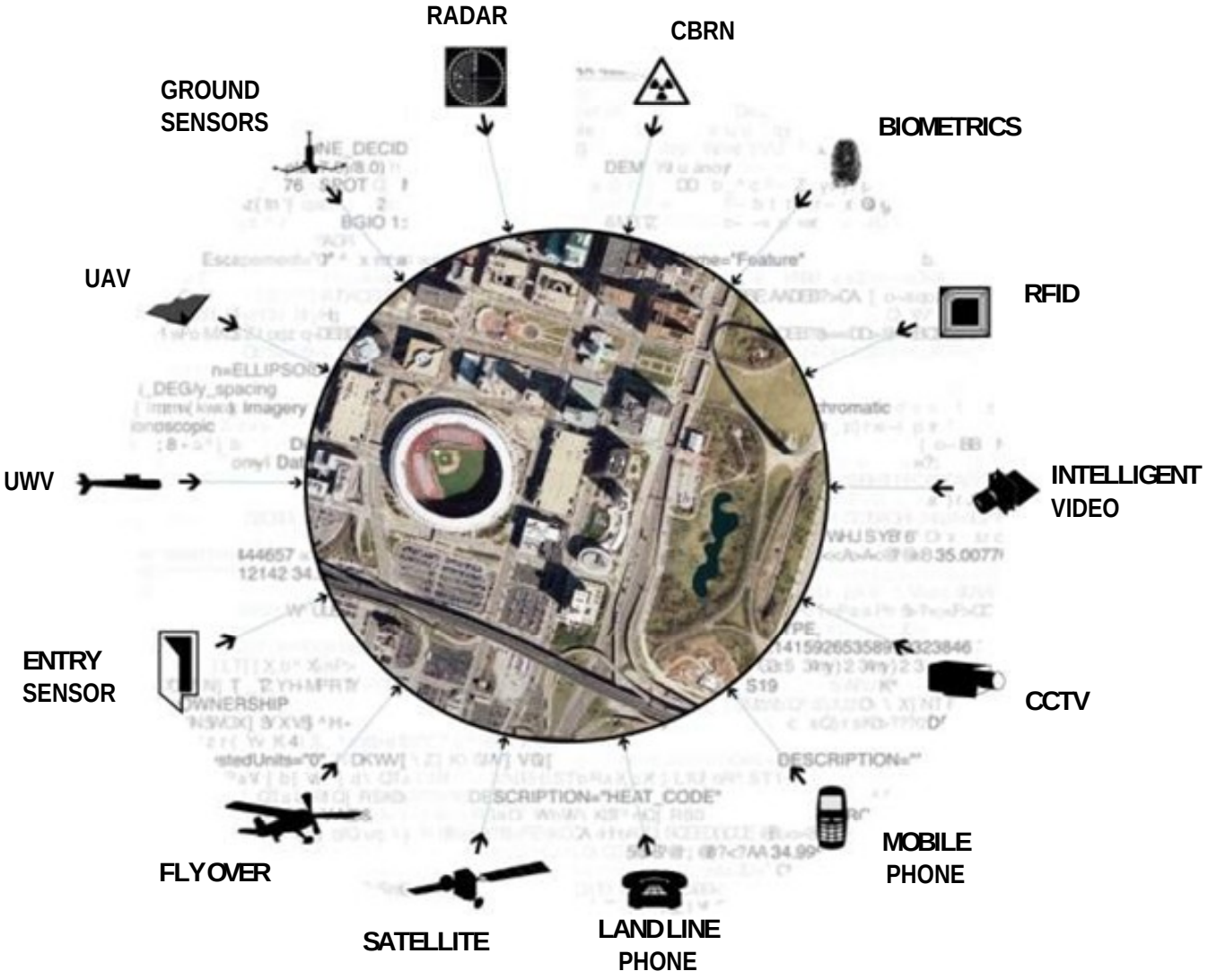


SMART GRID:

INTEGRATED GIS, OUTAGE MANAGEMENT, DISTRIBUTION MANAGEMENT & MOBILE WORKFORCE MANAGEMENT

HEXAGON

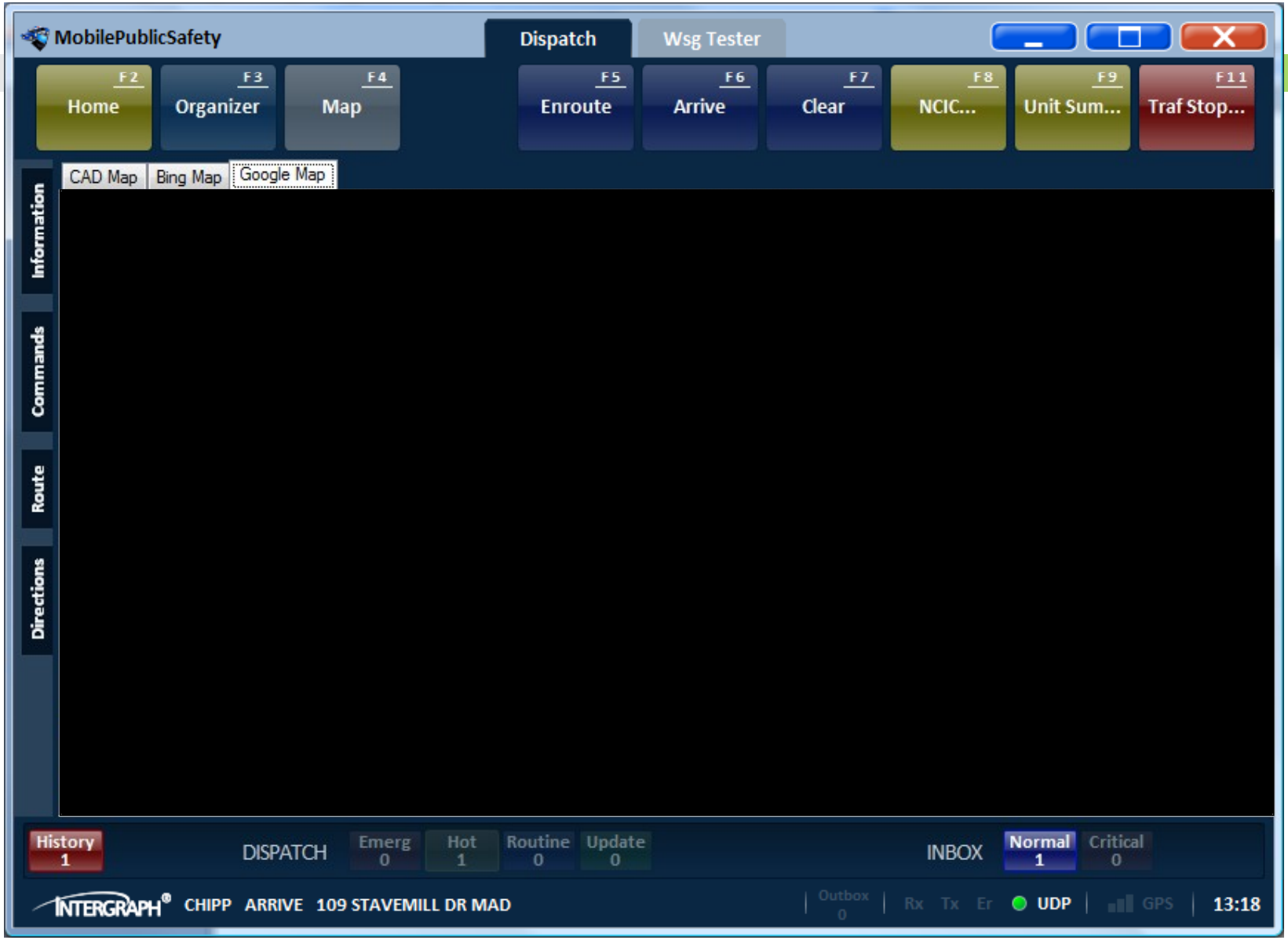
SAFECITY


RADAR
CBRN
GROUND SENSORS
BIOMETRICS
UAV
RFID
UWV
INTELLIGENT VIDEO
ENTRY SENSOR
CCTV
FLYOVER
SATELLITE
LAND LINE PHONE
MOBILE PHONE

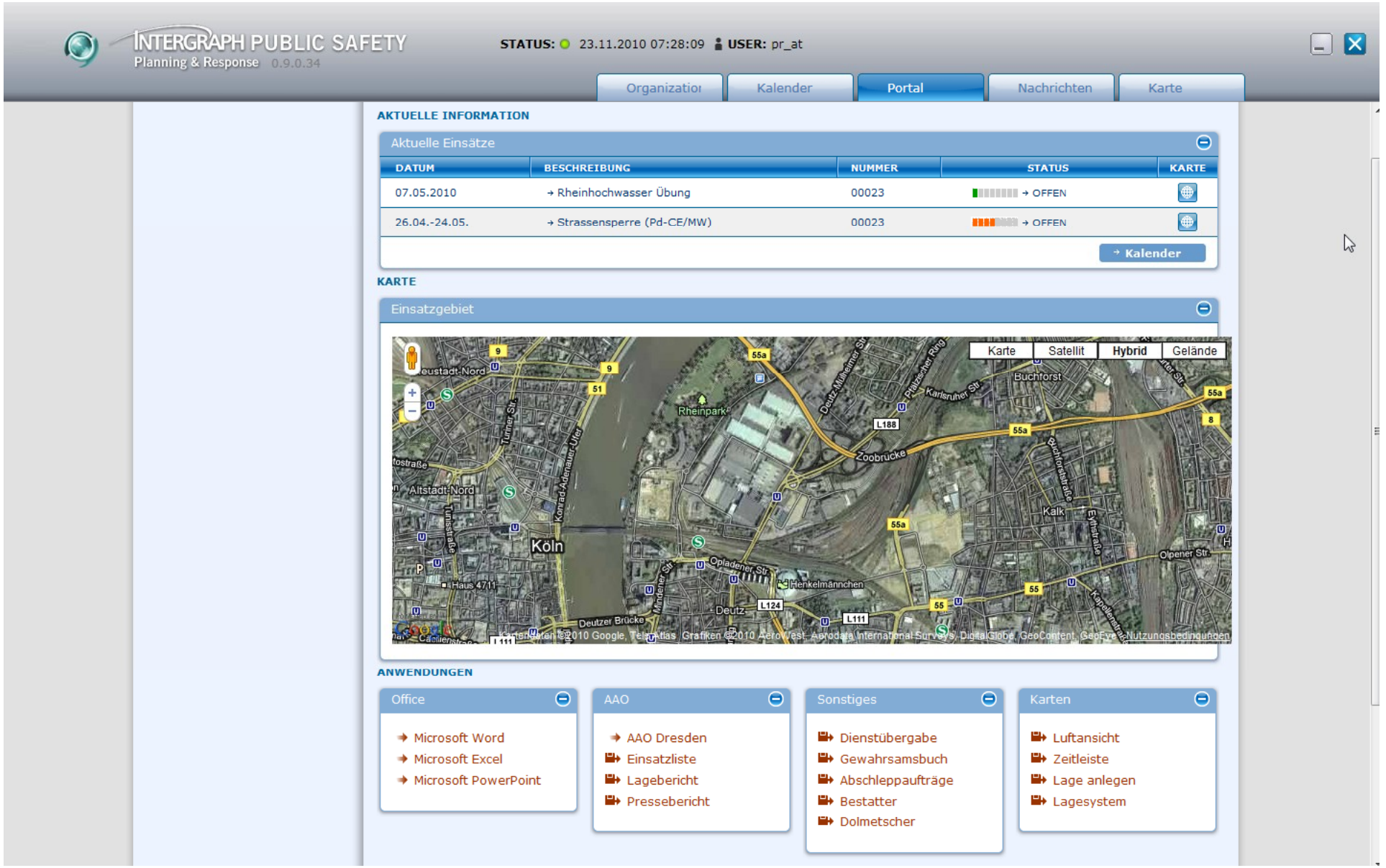
HEXAGON


Mangaldas Road
MANGALDAS GALLI
Lokmanya Tilak Marg
(G.T.Hospital)
D'N ROAD
Dr Dadabhoy Nowroji Marg
Mumbai Police Head Quarter
Police Parade Ground
Mumbai Police Head Quarter
Mumbai Police - Crime Branch Division
Commissioner Of Police Officer
C.P.Office SIGNAL, Kalbadevi
Police Quarter Bldg - A Block
Mumbai Police Head Quarter room
Bombay Deep Niwas Bldg
Mumbai Police Head Quarter
Mahatma Phule Market
Maratha Co-op Bank Ltd.
Jolly Hindu Hotels
Hotel New Bengal Howrah Bengal Restaurant
Civil Restaurant
A.D. Marg

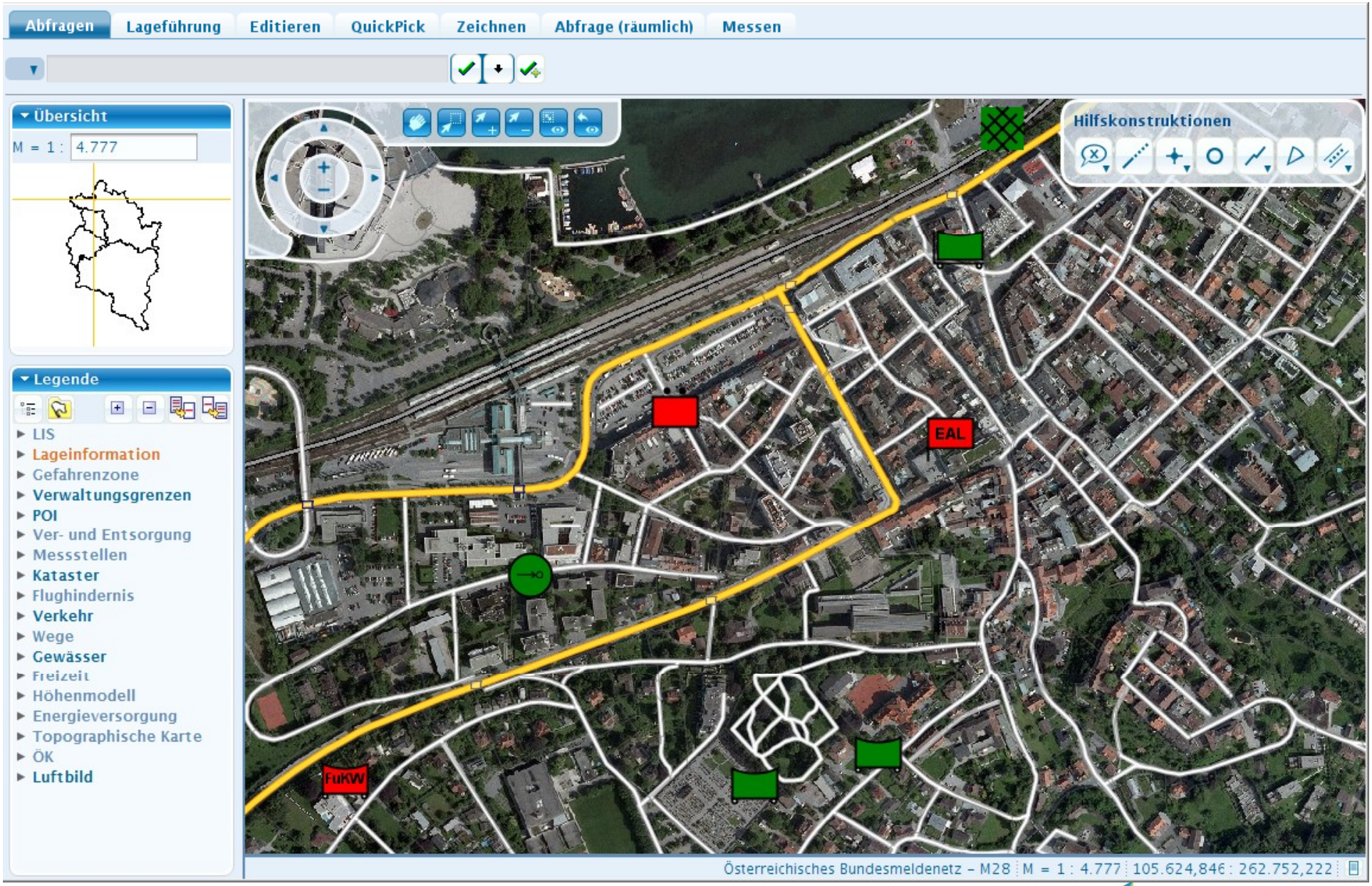
HEXAGON


MobilePublicSafety
Dispatch
Wsg Tester
F2 Home
F3 Organizer
F4 Map
F5 Enroute
F6 Arrive
F7 Clear
F8 NCIC...
F9 Unit Sum...
F11 Traf Stop...
CAD Map
Bing Map
Google Map
Information
Commands
Route
Directions
History 1
DISPATCH
Emerg 0
Hot 1
Routine 0
Update 0
INBOX
Normal 1
Critical 0
INTERGRAPH
CHIPP ARRIVE 109 STAVEMILL DR MAD
Outbox 0
Rx Tx Er
UDP
GPS
13:18

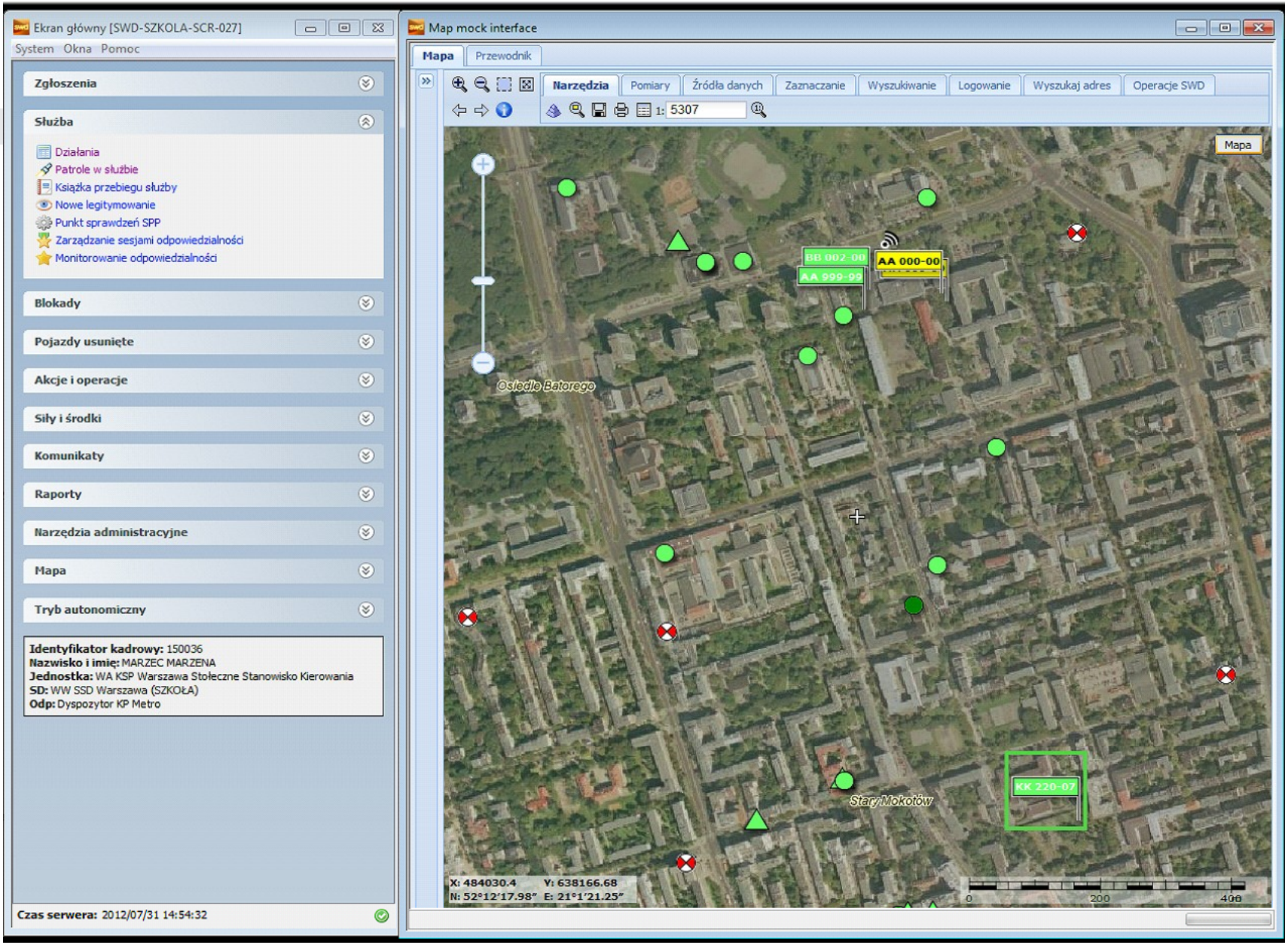
HEXAGON


INTERGRAPH PUBLIC SAFETY
Planning & Response 0.9.0.34
STATUS: 23.11.2010 07:28:09 USER: pr_at
Organizatio
Kalender
Portal
Nachrichten
Karte
AKTUELLE INFORMATION
Aktuelle Einsätze
DATUM
BESCHREIBUNG
NUMMER
STATUS
KARTE
07.05.2010
→ Rheinhochwasser Übung
00023
→ OFFEN
26.04.-24.05.
→ Strassensperre (Pd-CE/MW)
00023
→ OFFEN
→ Kalender
KARTE
Einsatzgebiet
Karte
Satellit
Hybrid
Gelände
Köln
Altstadt-Nord
Rheinpark
Deutzer Brücke
Zoobrücke
Deutz
Buchforst
Kalk
Opladener Str.
Olpener Str.
Henkelmännchen
Haus 4711
ANWENDUNGEN
Office
Microsoft Word
Microsoft Excel
Microsoft PowerPoint
AAO
AAO Dresden
Einsatzliste
Lageberichte
Pressebericht
Sonstiges
Dienstübergabe
Gewahrsamsbuch
Abschleppaufträge
Bestatter
Dolmetscher
Karten
Luftansicht
Zeitleiste
Lage anlegen
Lagesystem

HEXAGON

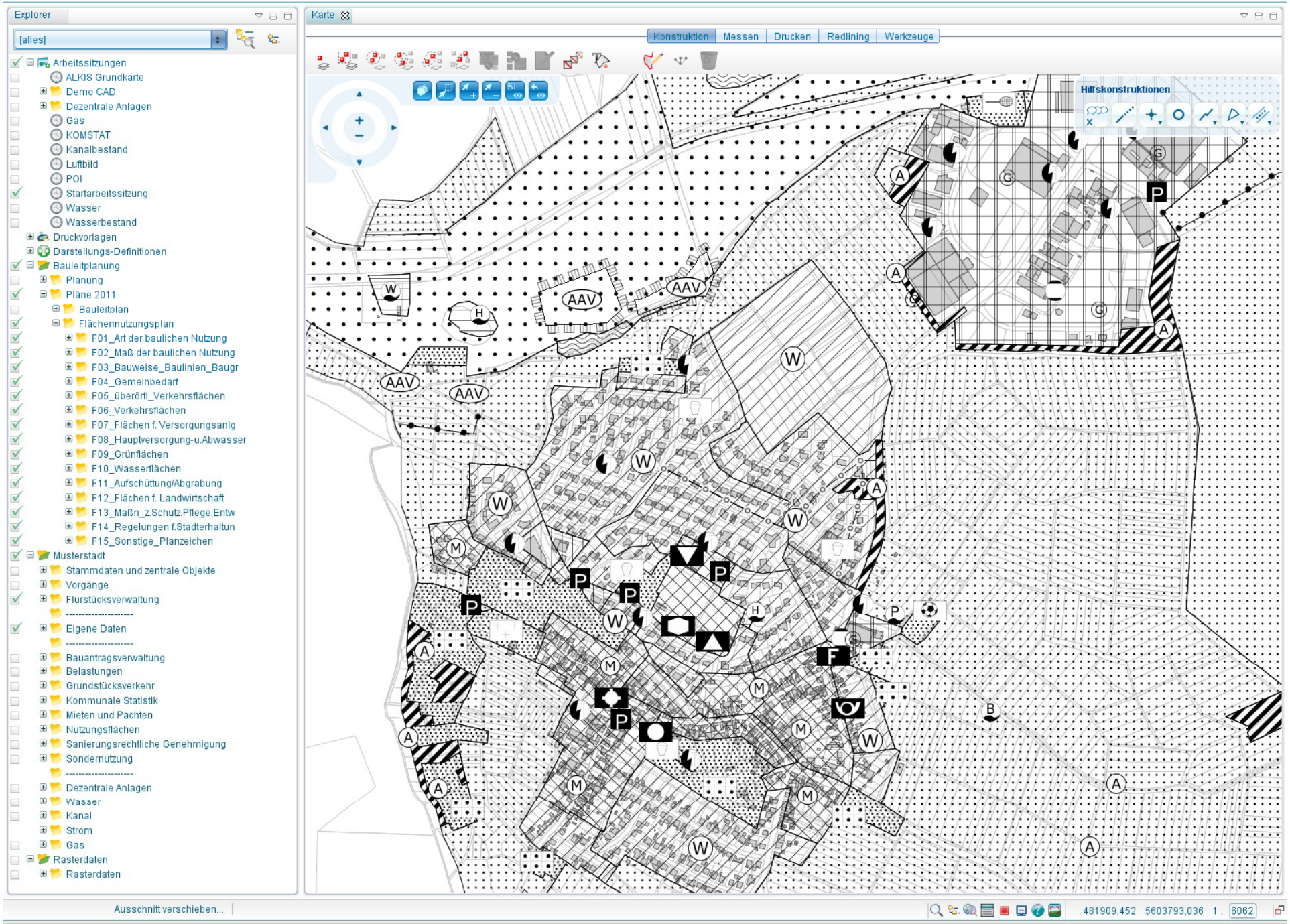

Abfragen
Lageführung
Editieren
QuickPick
Zeichnen
Abfrage (räumlich)
Messen
Übersicht
M = 1 : 4.777
Legende
LIS
Lageinformation
Gefahrenzone
Verwaltungsgrenzen
POI
Ver- und Entsorgung
Messstellen
Kataster
Flughindernis
Verkehr
Wege
Gewässer
Freizeit
Höhenmodell
Energieversorgung
Topographische Karte
ÖK
Luftbild
Hilfskonstruktionen
EAL
FuKW
Österreichisches Bundesmeldenetz – M28
M = 1 : 4.777
105.624,846 : 262.752,222

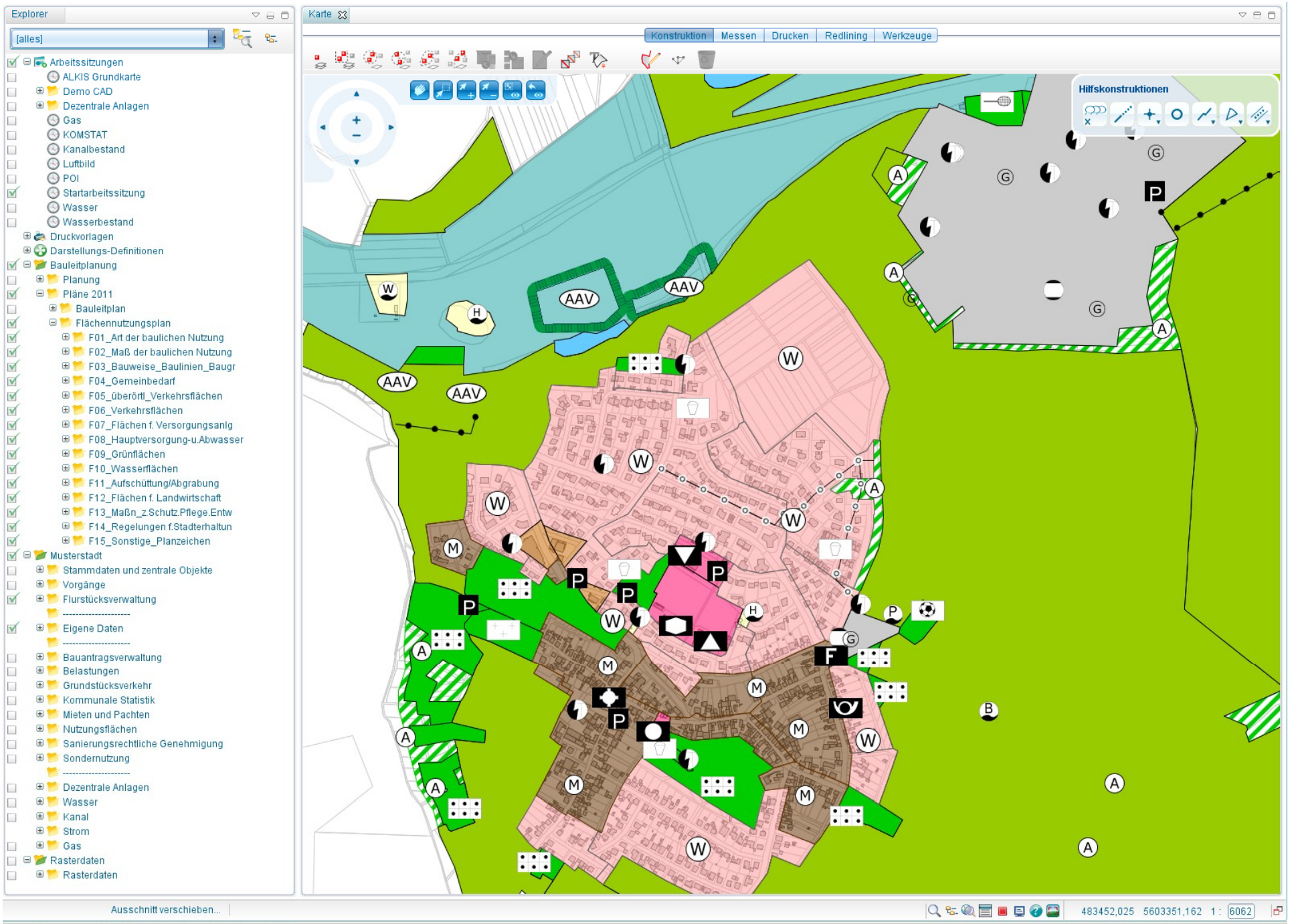
HEXAGON


Ekran główny [SWD-SZKOLA-SCR-027]
System Okna Pomoc
Zgłoszenia
Służba
Działania
Patrole w służbie
Książka przebiegu służby
Nowe legitymowanie
Punkt sprawdzeń SPP
Zarządzanie sesjami odpowiedzialności
Monitorowanie odpowiedzialności
Blokady
Pojazdy usunięte
Akcje i operacje
Siły i środki
Komunikaty
Raporty
Narzędzia administracyjne
Mapa
Tryb autonomiczny
Identyfikator kadrowy: 150036
Nazwisko i imię: MARZEC MARZENA
Jednostka: WA KSP Warszawa Stołeczne Stanowisko Kierowania
SD: WW SSD Warszawa (SZKOŁA)
Odp: Dyspozytor KP Metro
Czas serwera: 2012/07/31 14:54:32
Map mock interface
Mapa
Przewodnik
Narzędzia
Pomiary
Źródła danych
Zaznaczanie
Wyszukiwanie
Logowanie
Wyszukaj adres
Operacje SWD
1: 5307
Mapa
BB 002-00
AA 000-00
AA 999-99
Osiedle Batorego
Stary Mokotów
KK 220-07
X: 484030.4 Y: 638166.68
N: 52°12'17.98" E: 21°1'21.25"
0
200
400

HEXAGON

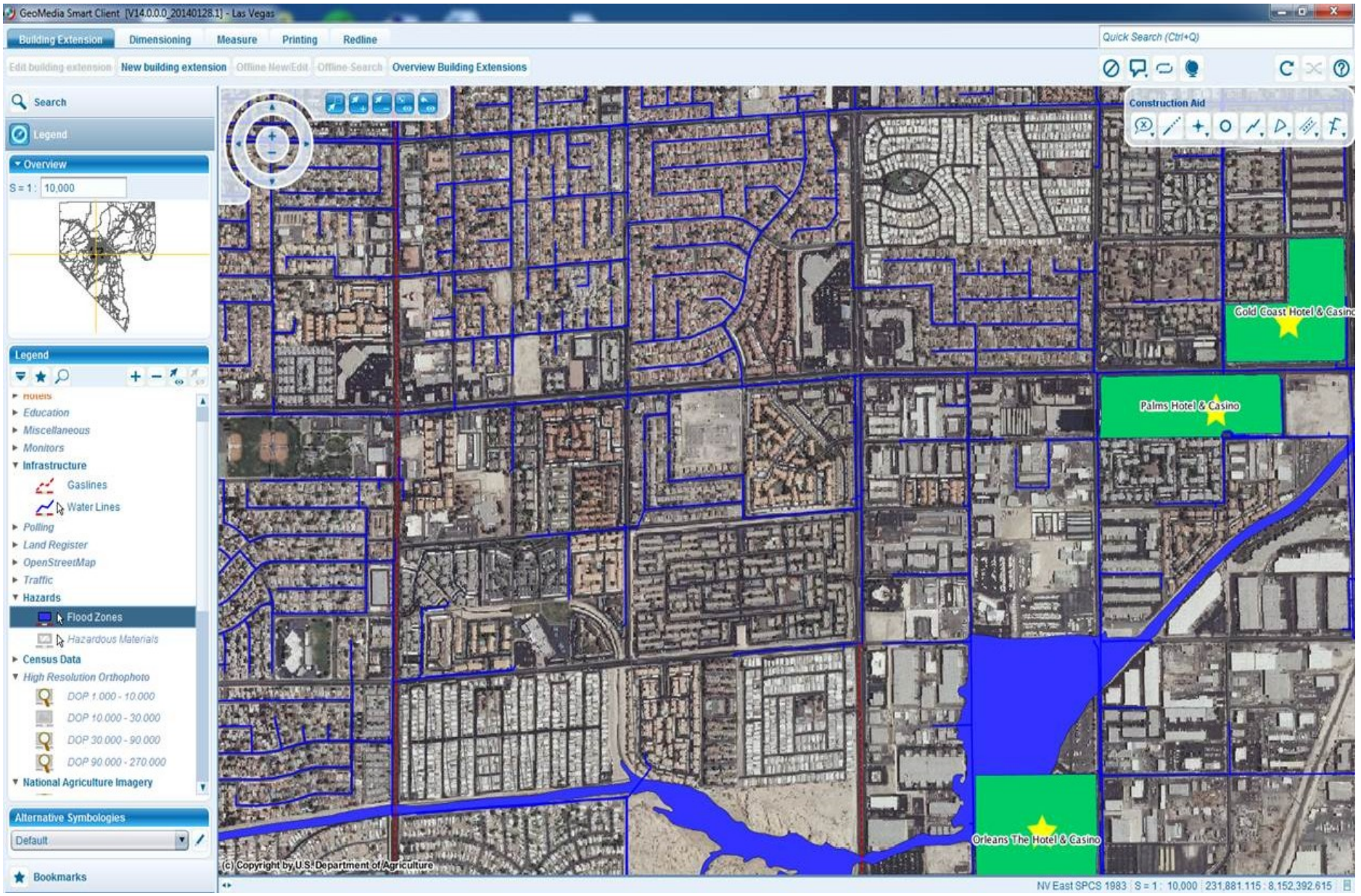
CITYINFRASTRUCTURE


Explorer
[alles]
Arbeitssitzungen
ALKIS Grundkarte
Demo CAD
Dezentrale Anlagen
Gas
KOMSTAT
Kanalbestand
Luftbild
POI
Startarbeitssitzung
Wasser
Wasserbestand
Druckvorlagen
Darstellungs-Definitionen
Bauleitplanung
Planung
Pläne 2011
Bauleitplan
Flächennutzungsplan
F01_Art der baulichen Nutzung
F02_Maß der baulichen Nutzung
F03_Bauweise_Baulinien_Baugr
F04_Gemeinbedarf
F05_überörtl_Verkehrsflächen
F06_Verkehrsflächen
F07_Flächen f. Versorgungsanlg
F08_Hauptversorgung-u.Abwasser
F09_Grünflächen
F10_Wasserflächen
F11_Aufschüttung/Abgrabung
F12_Flächen f. Landwirtschaft
F13_Maßn_z.Schutz.Pflege.Entw
F14_Regelungen f.Stadterhaltun
F15_Sonstige_Planzeichen
Musterstadt
Stammdaten und zentrale Objekte
Vorgänge
Flurstücksverwaltung
Eigene Daten
Bauantragsverwaltung
Belastungen
Grundstücksverkehr
Kommunale Statistik
Mieten und Pachten
Nutzungsflächen
Sanierungsrechtliche Genehmigung
Sondernutzung
Dezentrale Anlagen
Wasser
Kanal
Strom
Gas
Rasterdaten
Rasterdaten
Karte
Konstruktion
Messen
Drucken
Redlining
Werkzeuge
Hilfskonstruktionen
Ausschnitt verschieben...
481909,452 5603793,036 1 : 6062

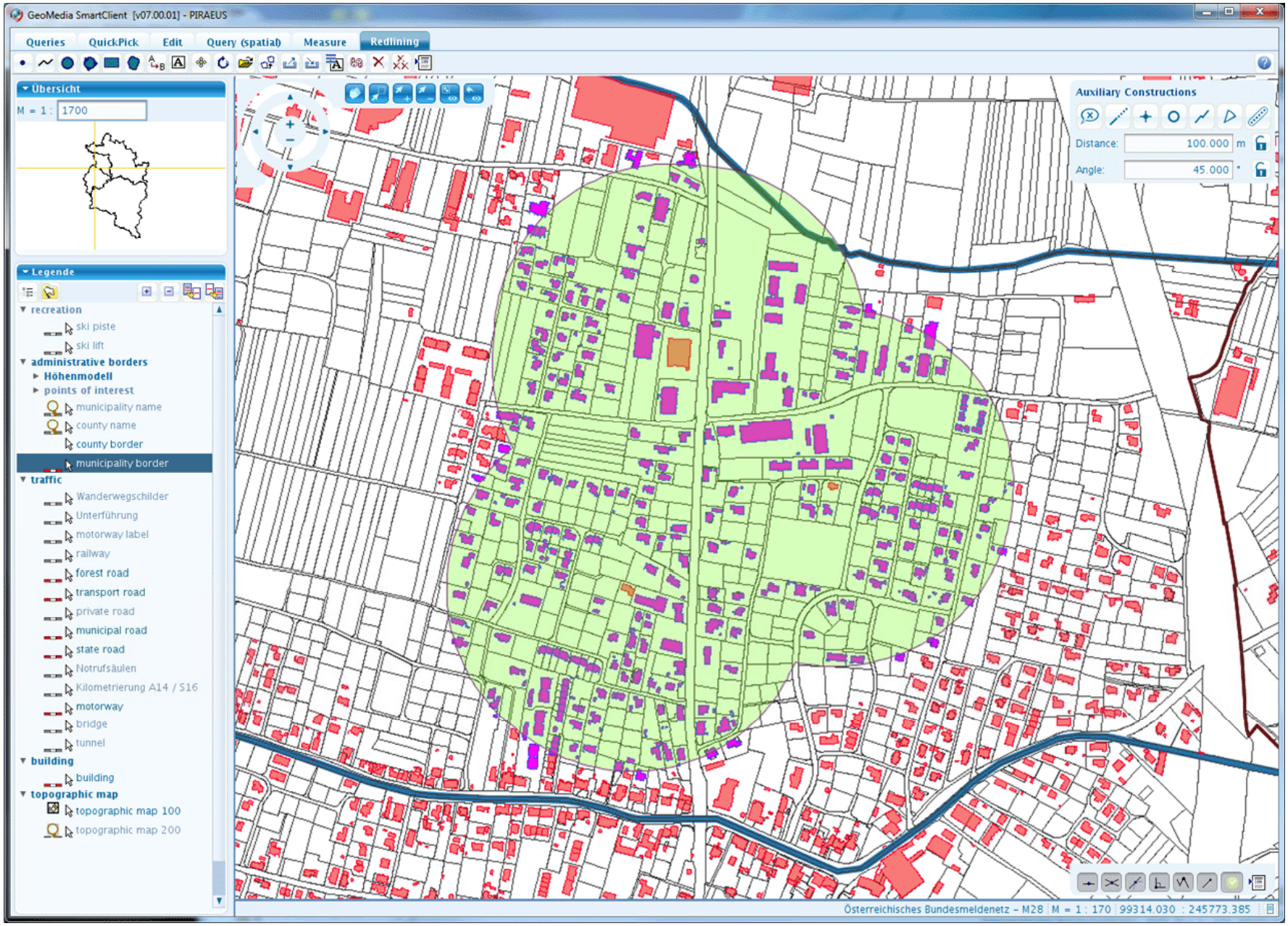

Explorer
[alles]
Arbeitssitzungen
ALKIS Grundkarte
Demo CAD
Dezentrale Anlagen
Gas
KOMSTAT
Kanalbestand
Luftbild
POI
Startarbeitssitzung
Wasser
Wasserbestand
Druckvorlagen
Darstellungs-Definitionen
Bauleitplanung
Planung
Pläne 2011
Bauleitplan
Flächennutzungsplan
F01_Art der baulichen Nutzung
F02_Maß der baulichen Nutzung
F03_Bauweise_Baulinien_Baugr
F04_Gemeinbedarf
F05_überörtl_Verkehrsflächen
F06_Verkehrsflächen
F07_Flächen f. Versorgungsanlg
F08_Hauptversorgung-u.Abwasser
F09_Grünflächen
F10_Wasserflächen
F11_Aufschüttung/Abgrabung
F12_Flächen f. Landwirtschaft
F13_Maßn_z.Schutz.Pflege.Entw
F14_Regelungen f.Stadterhaltun
F15_Sonstige_Planzeichen
Musterstadt
Stammdaten und zentrale Objekte
Vorgänge
Flurstücksverwaltung
Eigene Daten
Bauantragsverwaltung
Belastungen
Grundstücksverkehr
Kommunale Statistik
Mieten und Pachten
Nutzungsflächen
Sanierungsrechtliche Genehmigung
Sondernutzung
Dezentrale Anlagen
Wasser
Kanal
Strom
Gas
Rasterdaten
Rasterdaten
Karte
Konstruktion
Messen
Drucken
Redlining
Werkzeuge
Hilfskonstruktionen
AAV
W
H
A
G
P
M
F
B
Ausschnitt verschieben...
483452,025 5603351,162 1 : 6062

MANAGE Infrastructure - Tablet and phone-based field inspection and editing *app* for enterprise cloud GIS data management.

HEXAGON


GeoMedia Smart Client [V14.0.0.0_20140128.1] - Las Vegas
Building Extension
Dimensioning
Measure
Printing
Redline
Quick Search (Ctrl+Q)
Edit building extension
New building extension
Offline New/Edit
Offline Search
Overview Building Extensions
Search
Legend
Overview
S = 1 : 10,000
Legend
Education
Miscellaneous
Monitors
Infrastructure
Gaslines
Water Lines
Polling
Land Register
OpenStreetMap
Traffic
Hazards
Flood Zones
Hazardous Materials
Census Data
High Resolution Orthophoto
DOP 1.000 - 10.000
DOP 10.000 - 30.000
DOP 30.000 - 90.000
DOP 90.000 - 270.000
National Agriculture Imagery
Alternative Symbologies
Default
Bookmarks
Construction Aid
Gold Coast Hotel & Casino
Palms Hotel & Casino
Orleans The Hotel & Casino
(c) Copyright by U.S. Department of Agriculture
NV East SPCS 1983 | S = 1 : 10,000 | 231,881.115 : 8,152,392.615

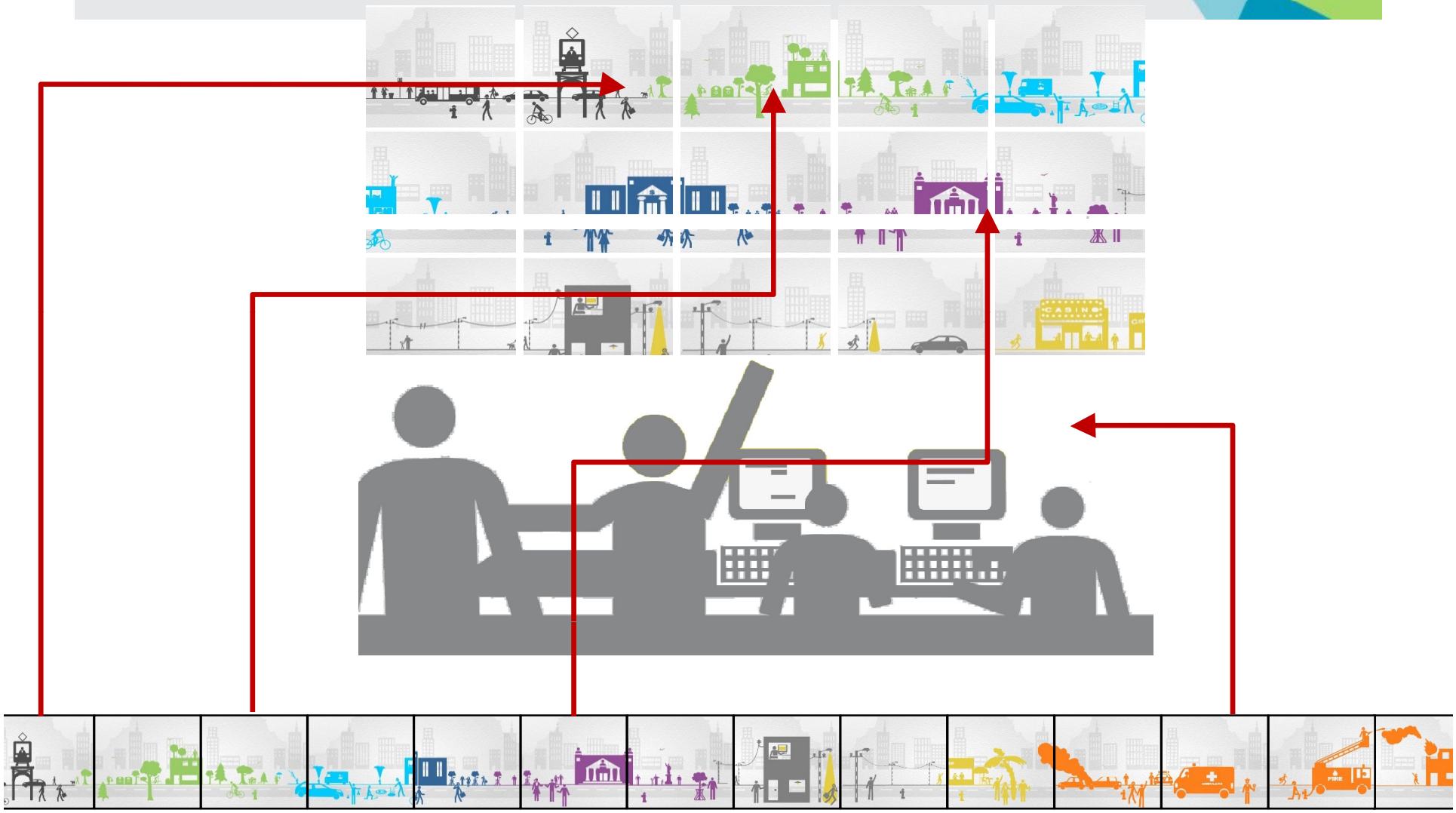
HEXAGON


GeoMedia SmartClient [v07.00.01] - PIRAEUS
Queries
QuickPick
Edit
Query (spatial)
Measure
Redlining
Übersicht
M = 1 : 1700
Legende
recreation
ski piste
ski lift
administrative borders
Höhenmodell
points of interest
municipality name
county name
county border
municipality border
traffic
Wanderwegschilder
Unterführung
motorway label
railway
forest road
transport road
private road
municipal road
state road
Notrufsäulen
Kilometrierung A14 / S16
motorway
bridge
tunnel
building
building
topographic map
topographic map 100
topographic map 200
Auxiliary Constructions
Distance: 100.000 m
Angle: 45.000 °
Österreichisches Bundesmeldenetz – M28 | M = 1 : 170 | 99314.030 : 245773.385

HEXAGON

SITUATIONALROOM

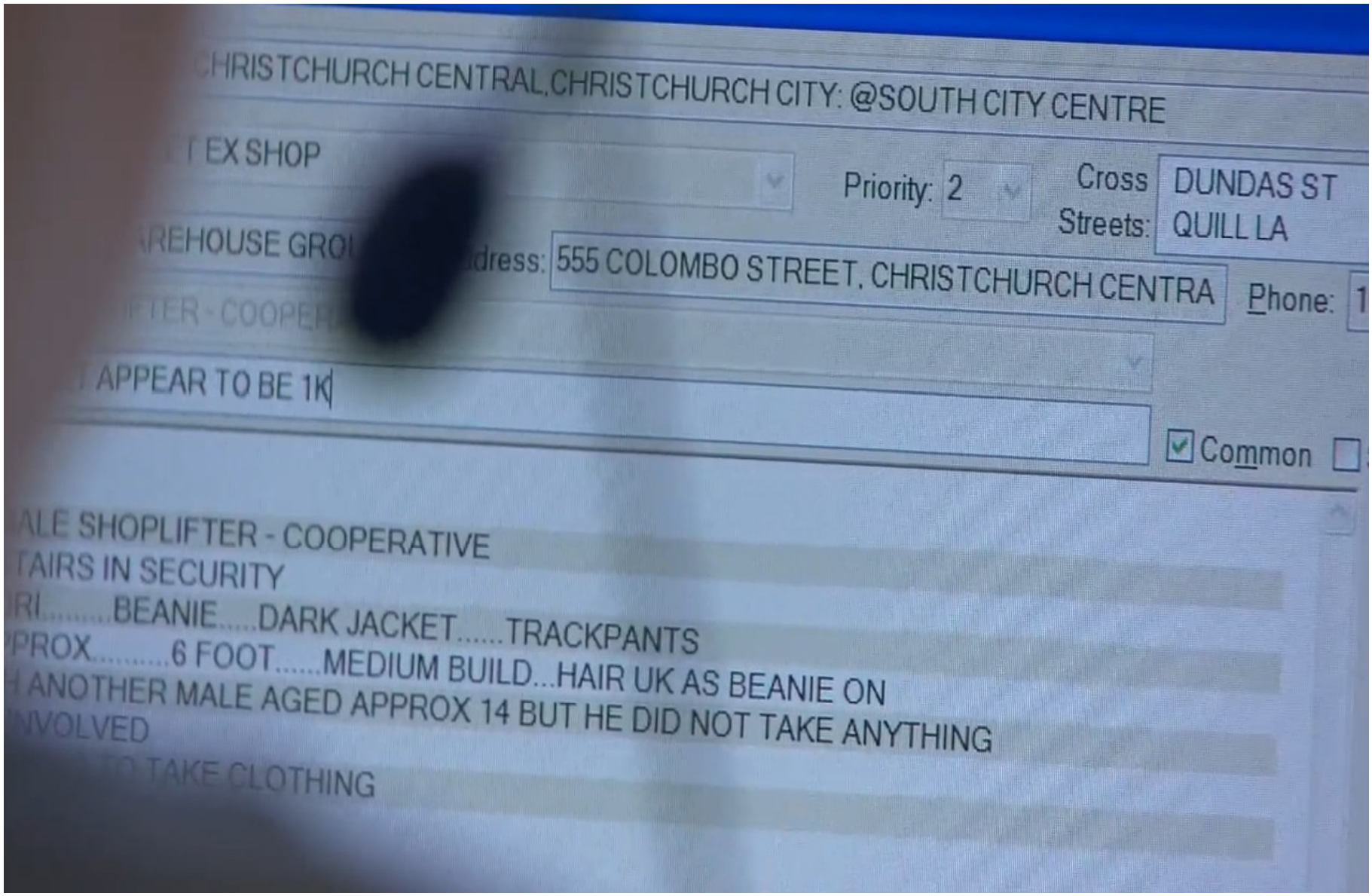
HEXAGON



HEXAGON


Cable Car Museum
NORTH
LOWER NORTH
KELBURN
PARK
SALAMANCA
ONSLOW
GLEN RD
RIMU RD
UPLAND RD
ROAD
RAWHITI TCE
GLASGOW ST
PARADE
Victoria University
CHURCH
ALLENBY
O'REILLY
FLAGSTAFF
MERCER
KENZIE
TCE

HEXAGON

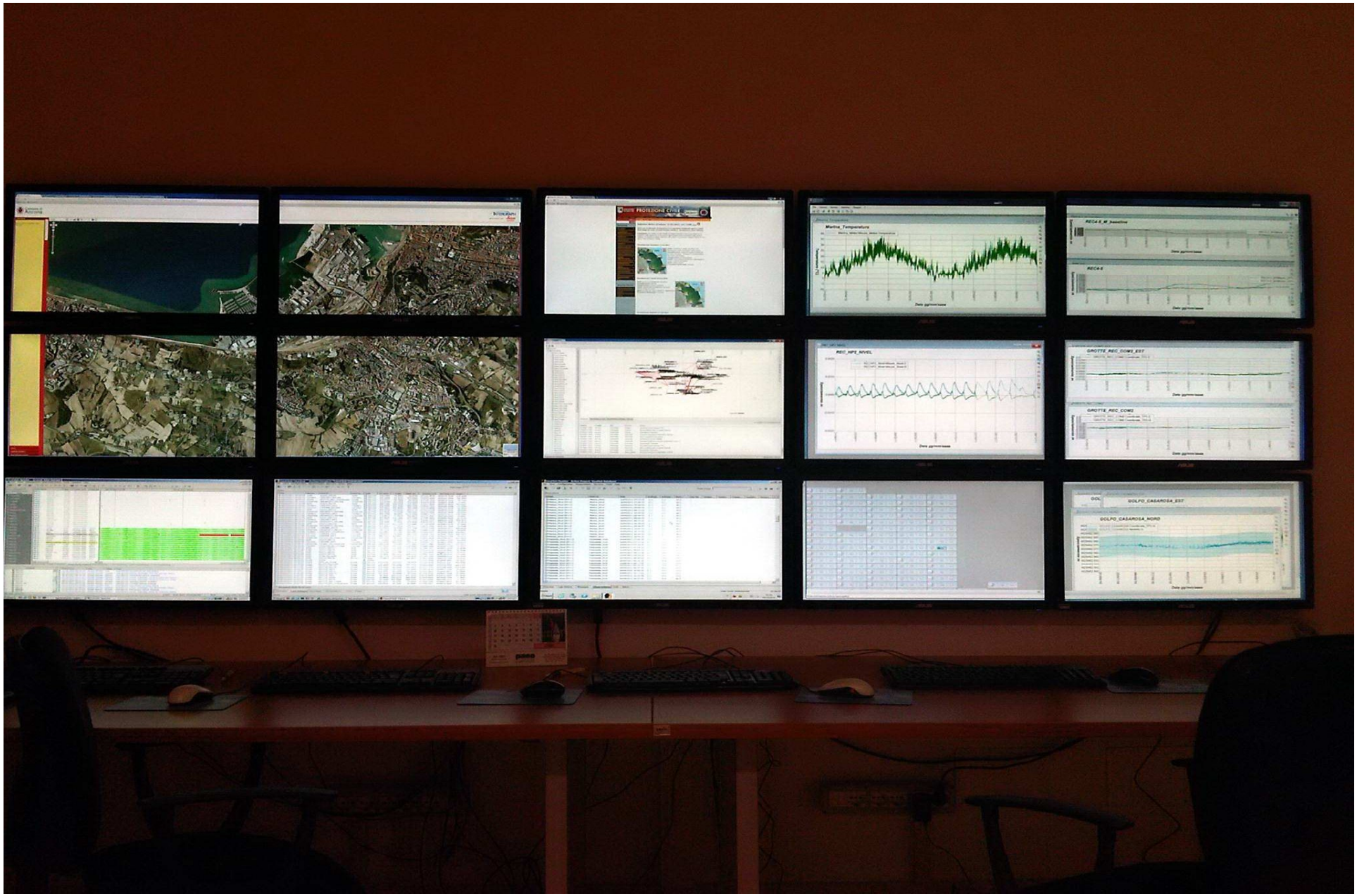

HRISTCHURCH CENTRAL,CHRISTCHURCH CITY: @SOUTH CITY CENTRE
T EX SHOP
Priority: 2
Cross Streets: DUNDAS ST QUILL LA
REHOUSE GRO
dress: 555 COLOMBO STREET, CHRISTCHURCH CENTRA
Phone:
TER - COOPER
APPEAR TO BE 1K
Common
ALE SHOPLIFTER - COOPERATIVE
TAIRS IN SECURITY
RI.....BEANIE....DARK JACKET.....TRACKPANTS
PROX.....6 FOOT.....MEDIUM BUILD...HAIR UK AS BEANIE ON
H ANOTHER MALE AGED APPROX 14 BUT HE DID NOT TAKE ANYTHING
NVOLVED
TO TAKE CLOTHING

HEXAGON

HEXAGON

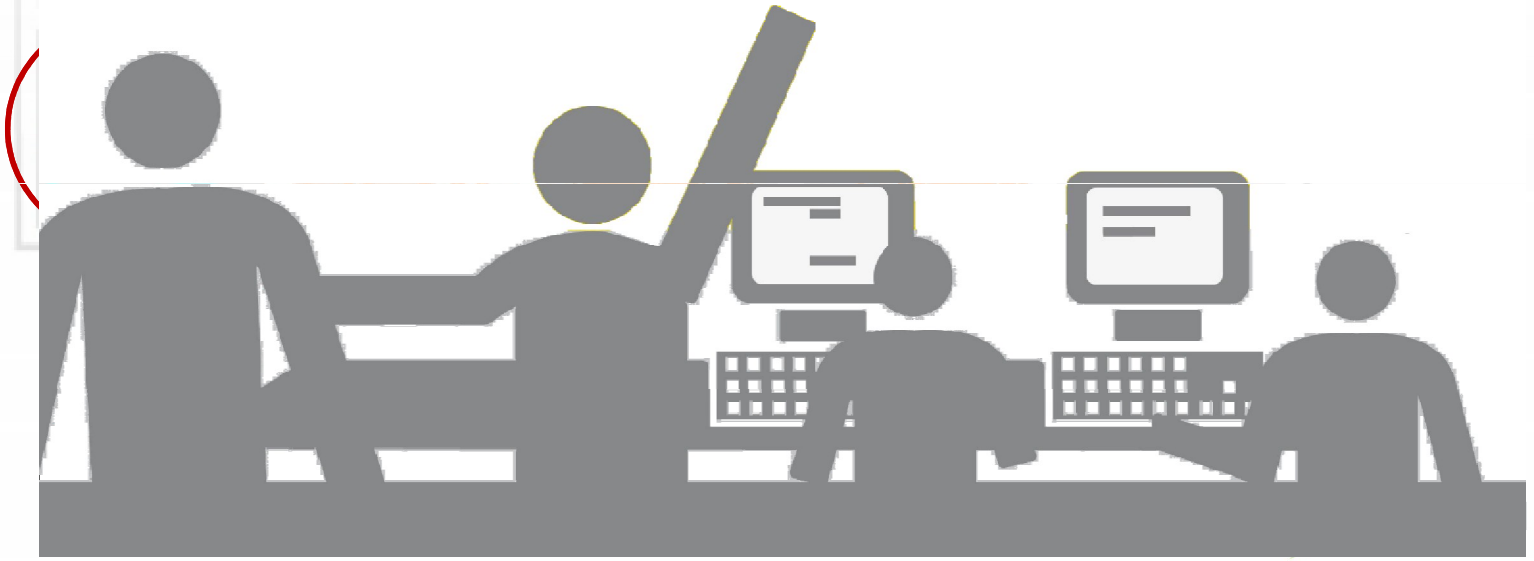
HEXAGON

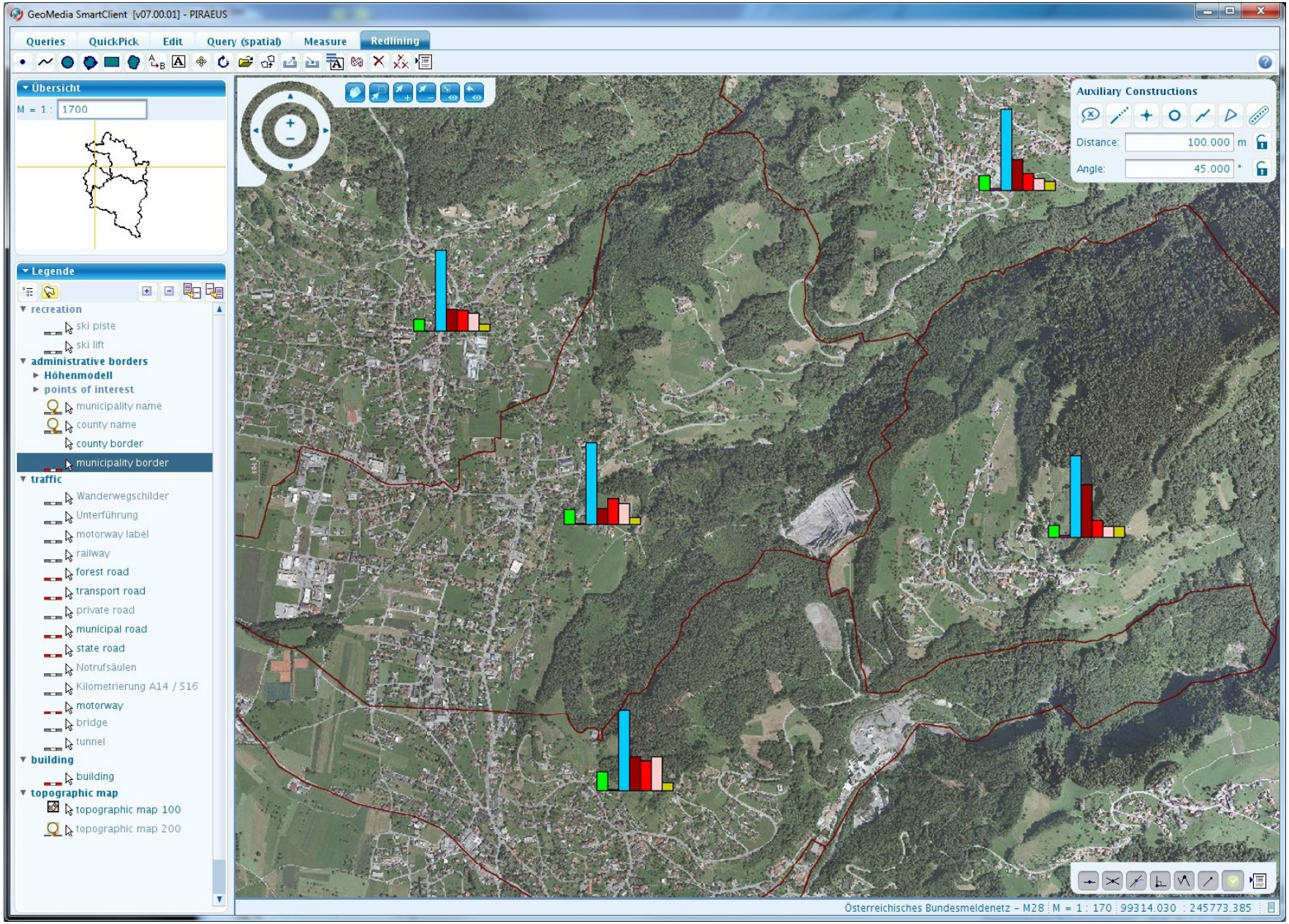
HEXAGON



HEXAGON

BUSINESSINTELLIGENCE




GeoMedia SmartClient [v07.00.01] - PIRAEUS
Queries
QuickPick
Edit
Query (spatial)
Measure
Redlining
Übersicht
M = 1 : 1700
Legende
recreation
ski piste
ski lift
administrative borders
Höhenmodell
points of interest
municipality name
county name
county border
municipality border
traffic
Wanderwegschilder
Unterführung
motorway label
railway
forest road
transport road
private road
municipal road
state road
Notrufsäulen
Kilometrierung A14 / S16
motorway
bridge
tunnel
building
building
topographic map
topographic map 100
topographic map 200
Auxiliary Constructions
Distance: 100.000 m
Angle: 45.000 °
Österreichisches Bundesmeldenetz – M28 M = 1 : 170 99314.030 : 245773.385

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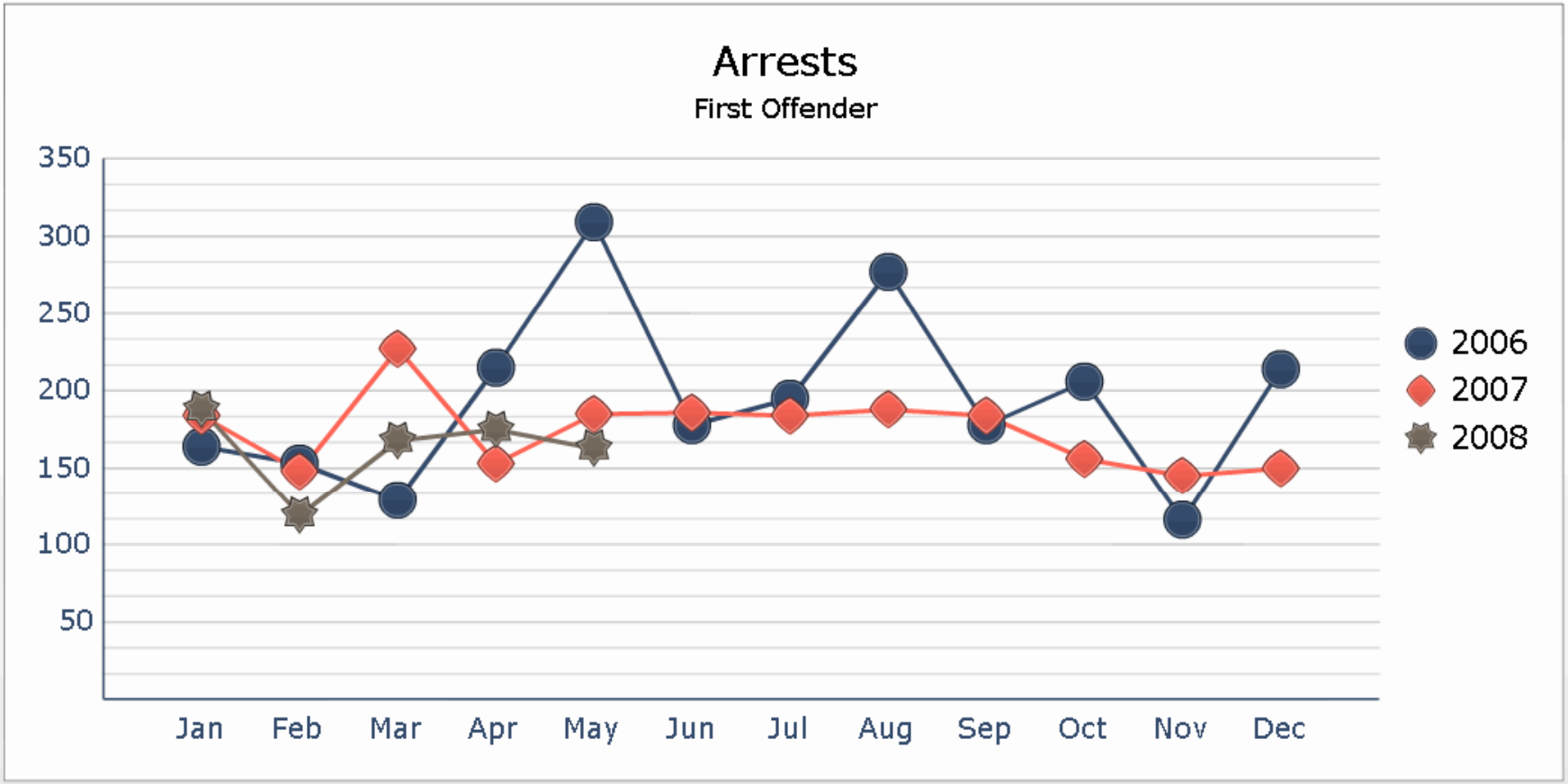
Arrests | Calls | Crimes - Per... | Drug Arrests | Juvenile | Municipal O... | Traffic | Summary

Select Arrest Type

First Offender

First Offender

-10.33



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2007	10.87	-3.378	43.172	-40.523	-67.027	4.301	-5.978	-47.34	3.261	-32.051	20	-42.667
2008 YTD	2.128	-24.37	-35.119	12.571	-13.497							

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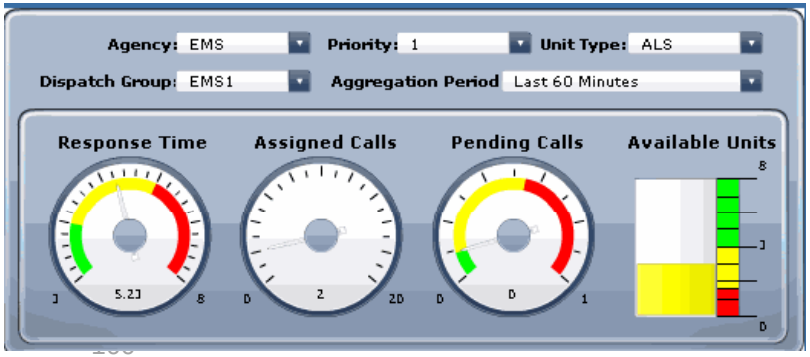
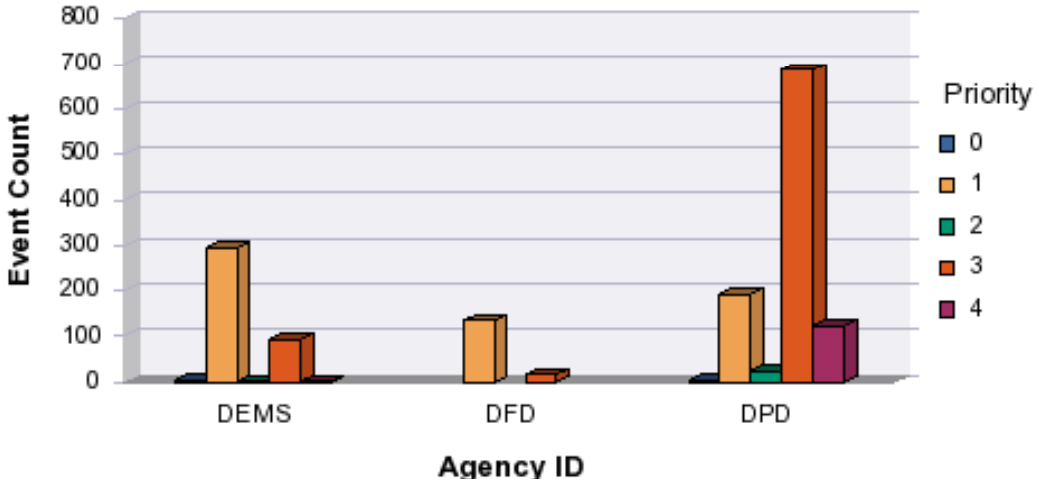
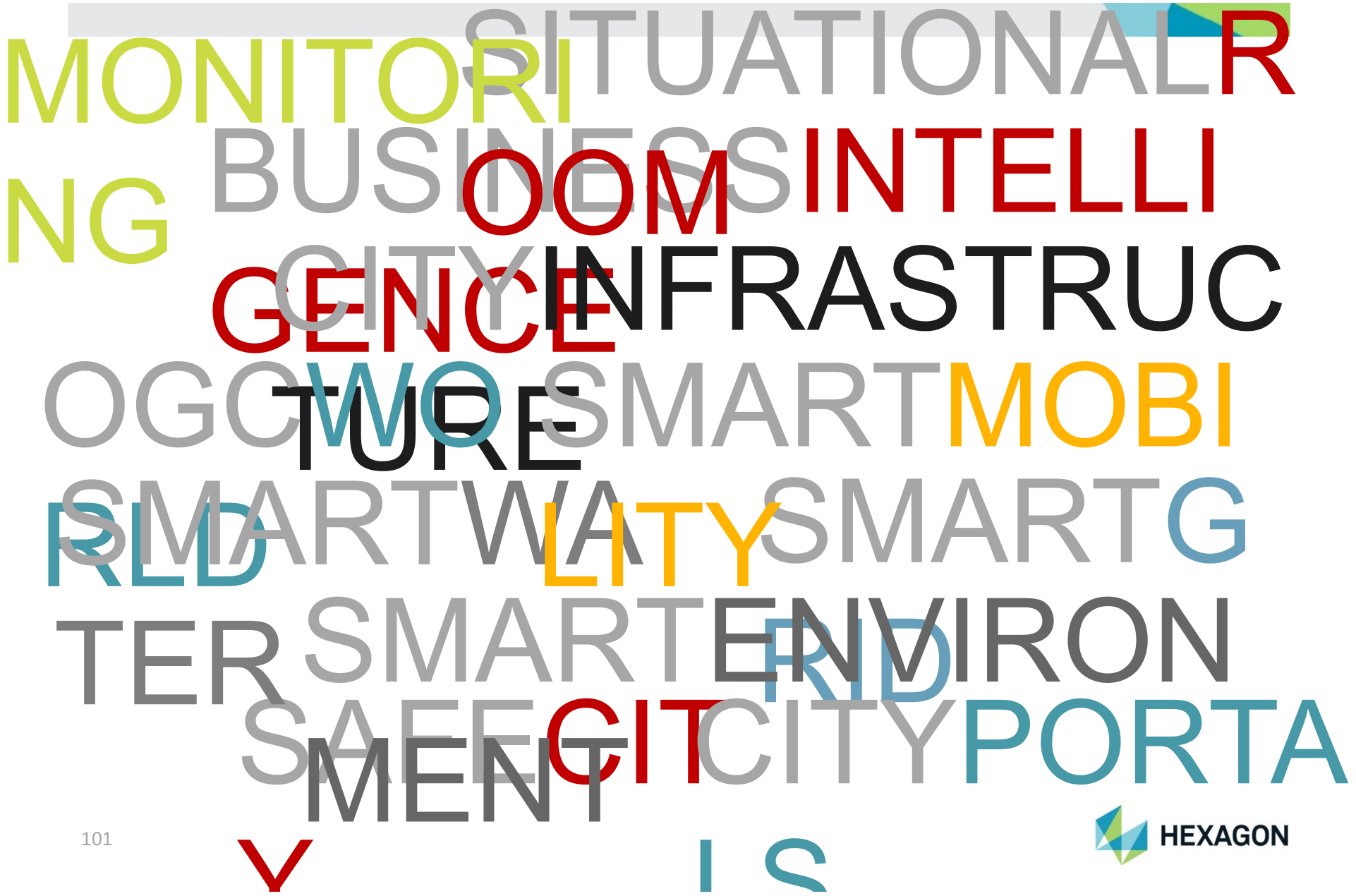
Priority	DEMS	DFD	DPD
0	3		5
1	295	134	192
2	1		23
3	92	16	686
4	1		123






SITUATIONAL
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KEY TO SUCCESS

1 GEOSPATIAL advantage

2 CREATIVITY innovation

3 GOING smarter

4 INTEGRATION platform

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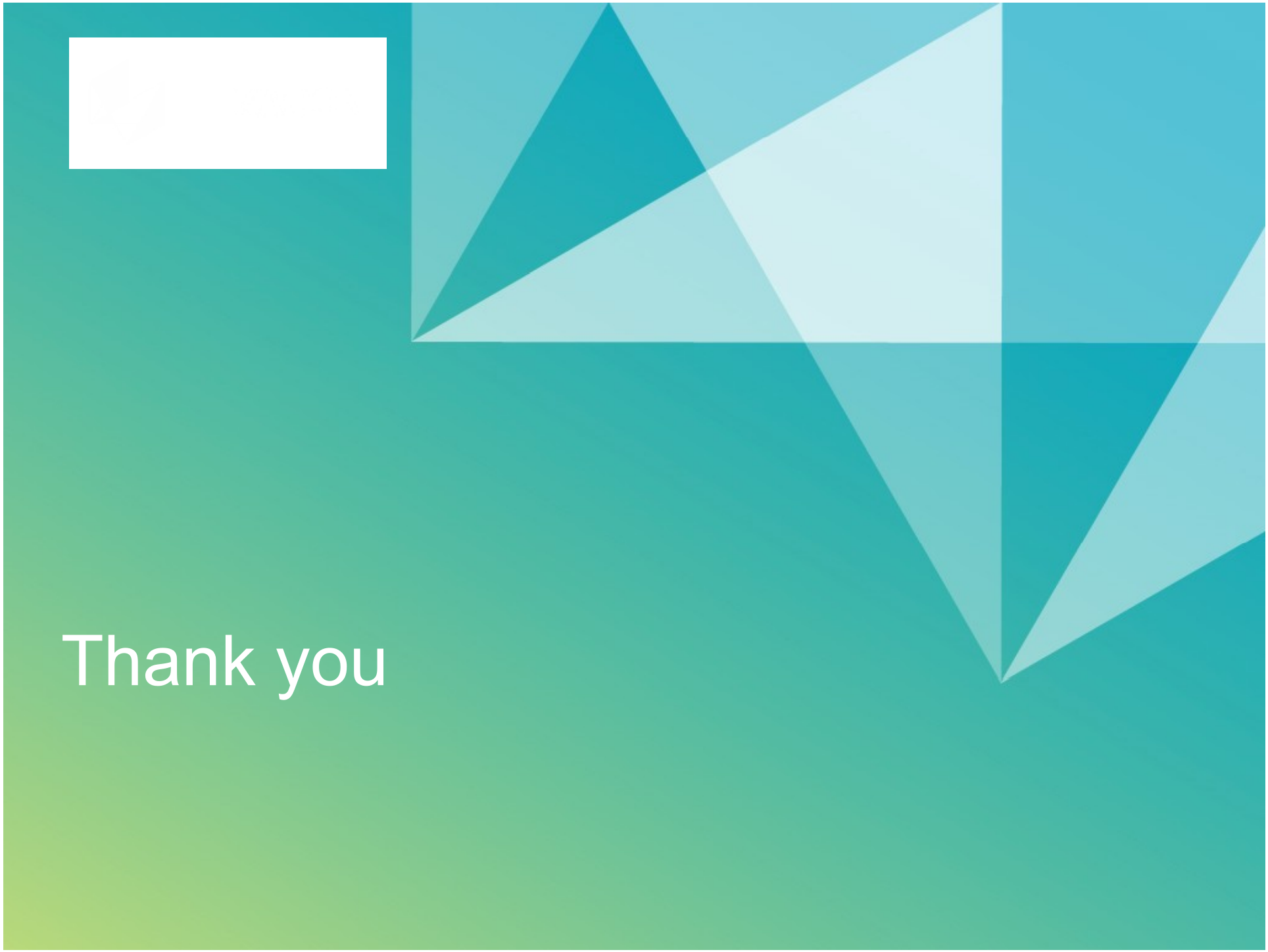
Thank you