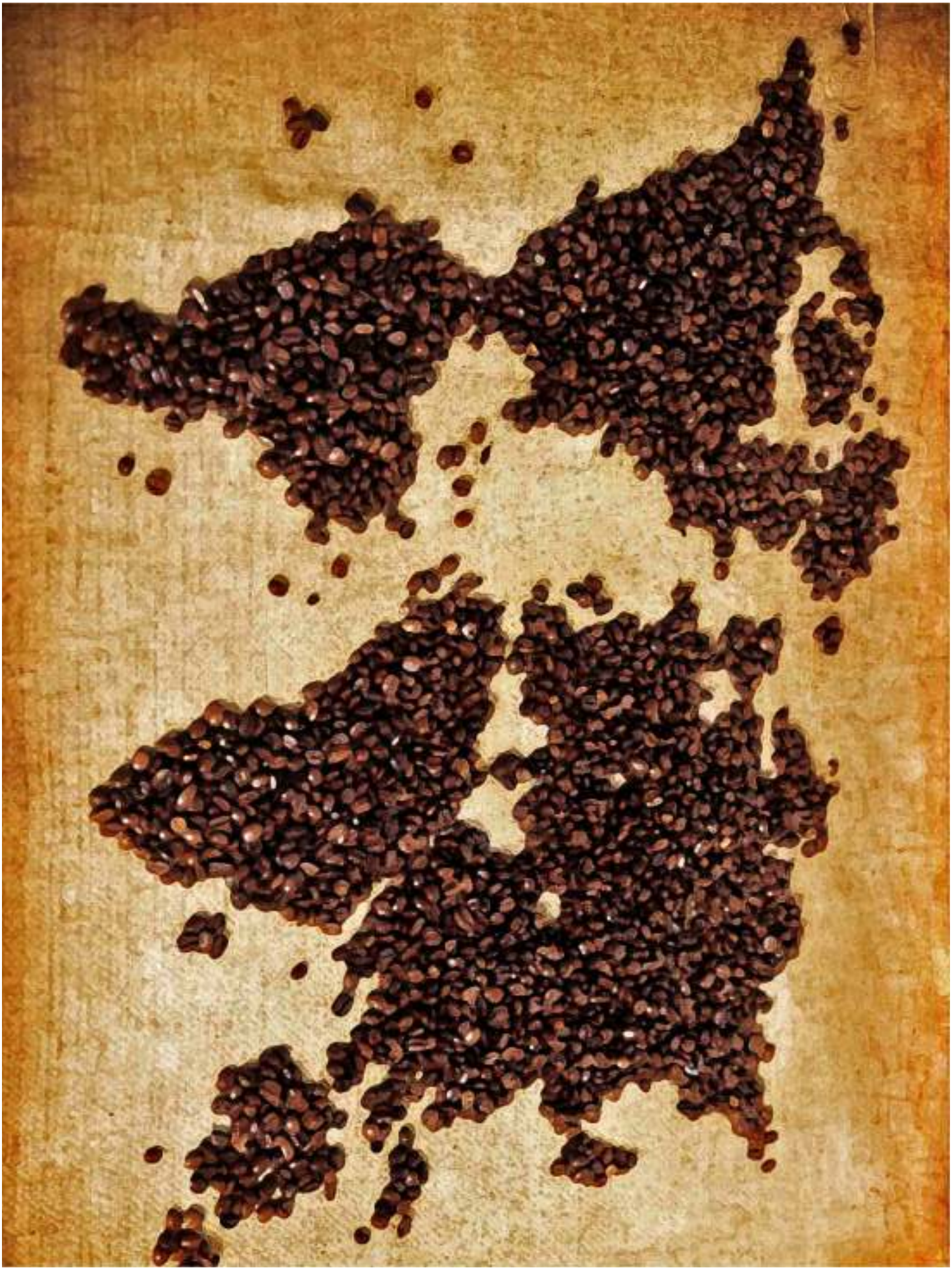

Geoinformatik interdisziplinär – Mehrwert der räumlichen Perspektive

Z_GIS
DEPARTMENT OF GEOINFORMATICS

UNIVERSITÄT SALZBURG
DE EN

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Home | Organisation | Research | Education | Events | Team | Contact

Calendar

- 09. Oct.: IFFB-Opening, Edmundsburg, Salzburg
- 09. - 11. Oct.: Visit us at INTERGEO, Hannover
- 22. - 24. Oct.: Visit us at Synergis 2012, Alpbach
- 25. - 28. Oct.: Worldwide UNIGIS partner meeting in Salzburg
- 04. - 05. Dec.: Visit us at European LIDAR Mapping Forum, Salzburg

Z_GIS Blogs

SocialMedia@AGIT
[AGIT]

AGIT 2012 - Erfolgreicher Call for Papers
[AGIT]

Washington DC – University of Salzburg has joined the University Consortium of GIS (UCGIS)
[GIScience]

Dr. Thomas Blaschke held the keynote presentation at GEOBIA 2012
[GIScience]

Home

Welcome to the Department of Geoinformatics!

Z_GIS is an interdisciplinary Centre of Competence for Geoinformatics, serving the University of Salzburg as well as partner institutions and the geospatial community worldwide. By integrating basic and applied research with graduate education and outreach activities, we are contributing to applying new technologies and developing methods for managing our societies, businesses and environments.

Geographic Information Systems and Services (GIS) today are important interfaces between the real and the virtual worlds. The concept of 'Digital Earth' addresses public participation and 'spatially thinking citizens', including education and learning across all disciplines and levels, which Z_GIS is fostering through academic programmes, outreach to schools and public service initiatives.

Z_GIS contributes to the worldwide geospatial community through memberships in scientific and professional associations, through project partnerships and as a centre of expertise for industry partners. Our global network of academic partner institutions is a strong platform for exchange of students and faculty, joint research and fostering awareness, motivation and sustainable management of livelihoods.

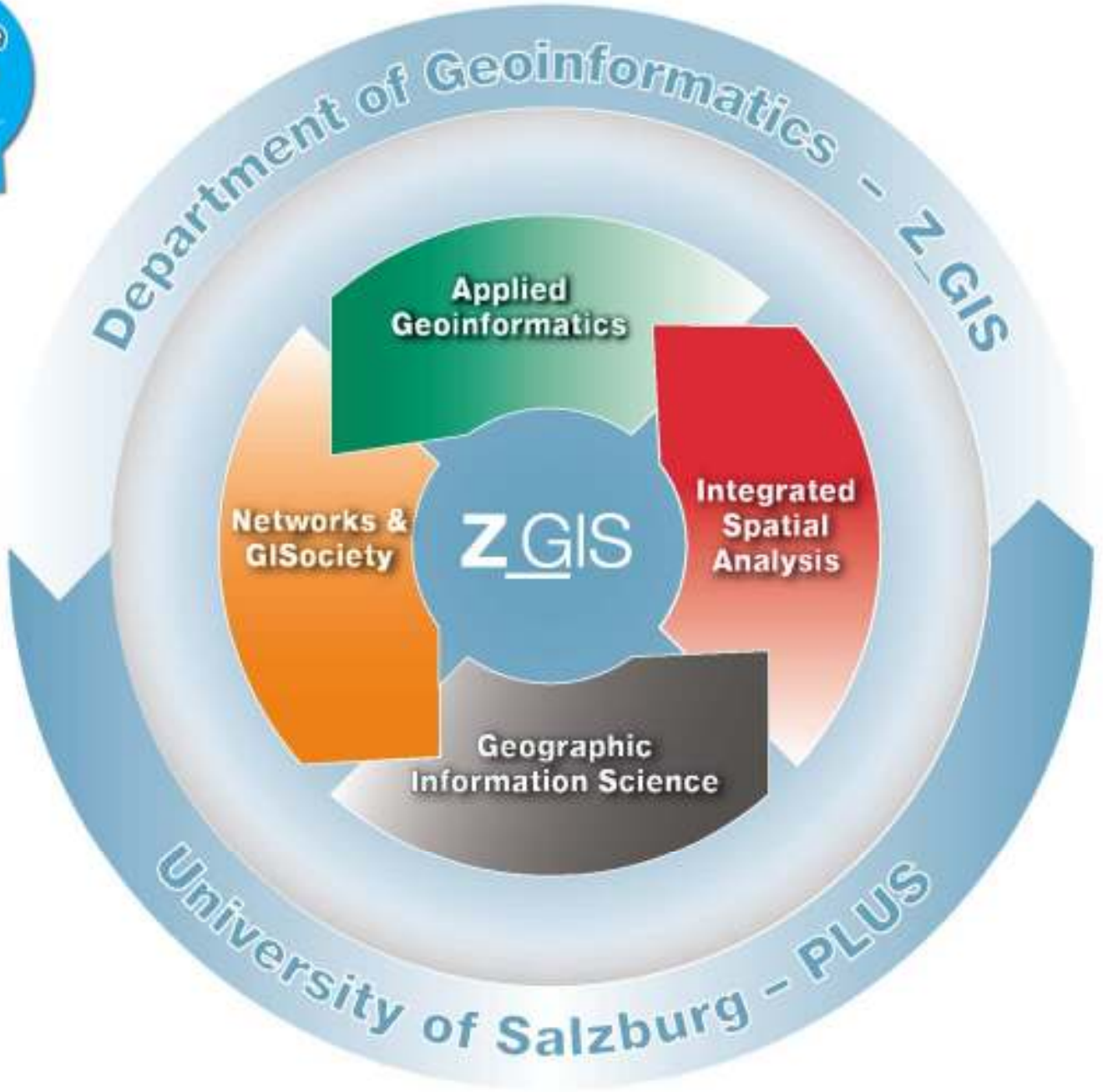
Twitter

GIStrobl: "Googlization of Space" - check out the paper by #ZGIS' etal/Fischer/Vogler: http://t.co/7eCmtPje - free download!
[GIStrobl]

GIStrobl: #GIScience Mobility: Thea Turkington welcome at #ZGIS - CHANGES research on climate models / hazards / mountains http://t.co/Tay3swBb
[GIStrobl]

agit_team: #AGIT2012 - Toller Nachbericht zur #AGIT: Studierende der #TUM haben im Auftrag des #RTGIS e.V. einen http://t.co/xtc9sKkf verfasst.


foursquare
CHECK-IN
HERE


Department of Geoinformatics - Z_GIS
Applied Geoinformatics
Integrated Spatial Analysis
Networks & GISociety
Z_GIS
Geographic Information Science
University of Salzburg - PLUS


Department of Geoinformatics - Z_GIS
Applied Geoinformatics
Integrated Spatial Analysis
Geographic Information Science
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‚Geospatial‘
Wissen und Kompetenz müssen interdisziplinär konzipiert werden.

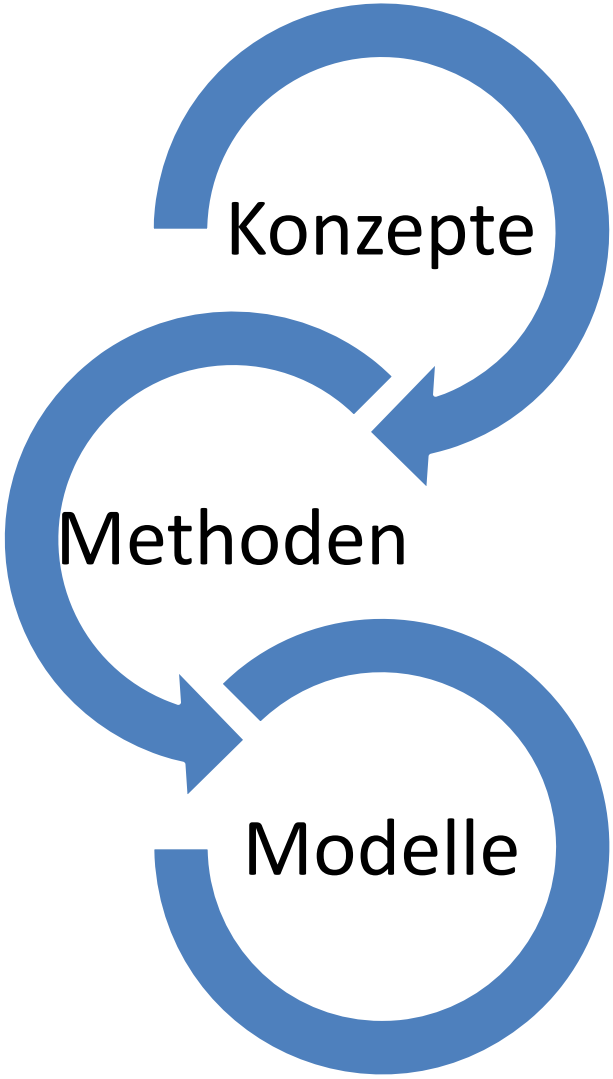
Building the Geospatial Knowledge Platform

Dr. A. Kalam

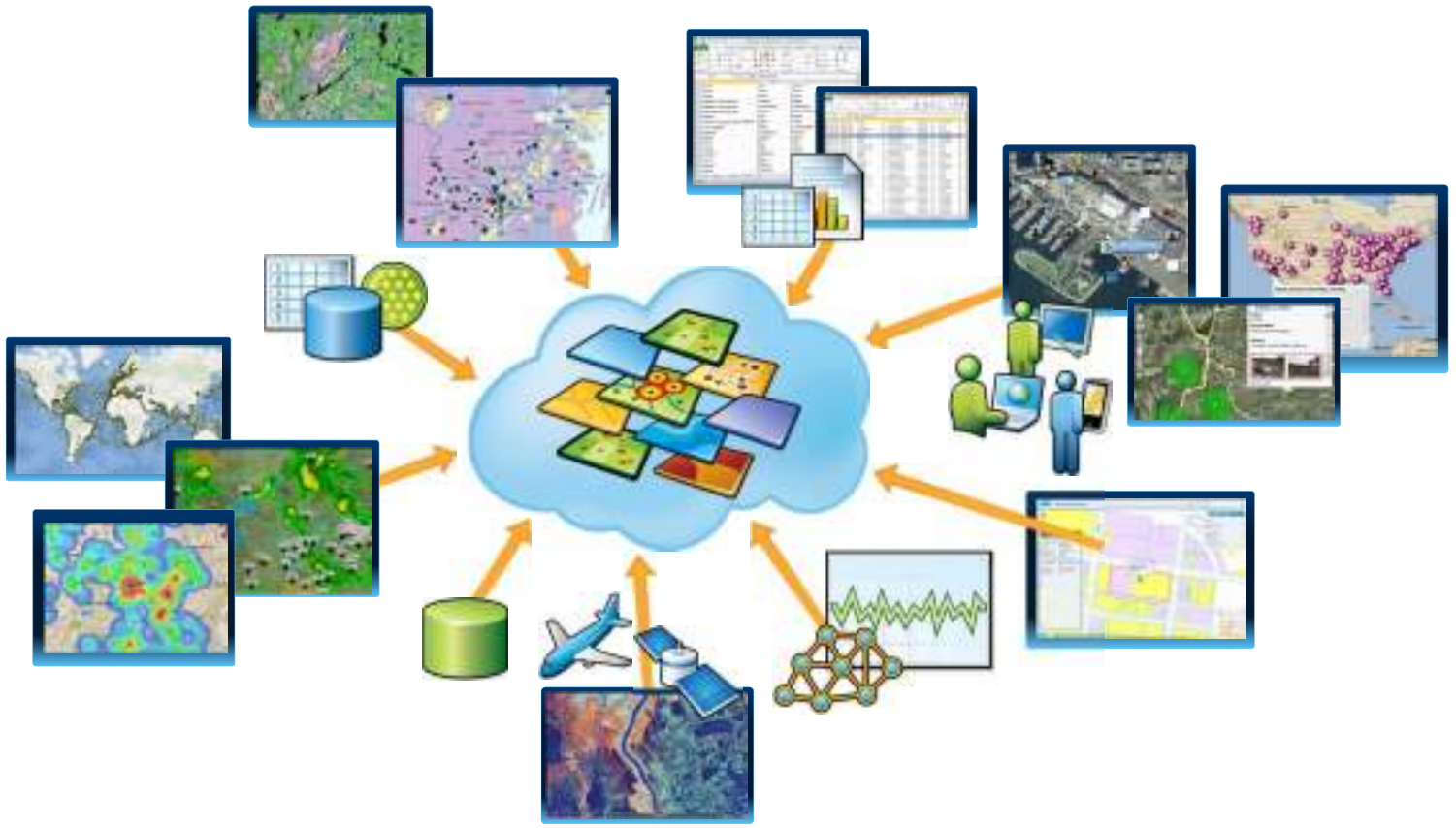
Themen ...


Räumliche Kontexte, Skalen
2.0
Spatial Literacy
GI Geograph. Integration
Sensoren + Echtzeit

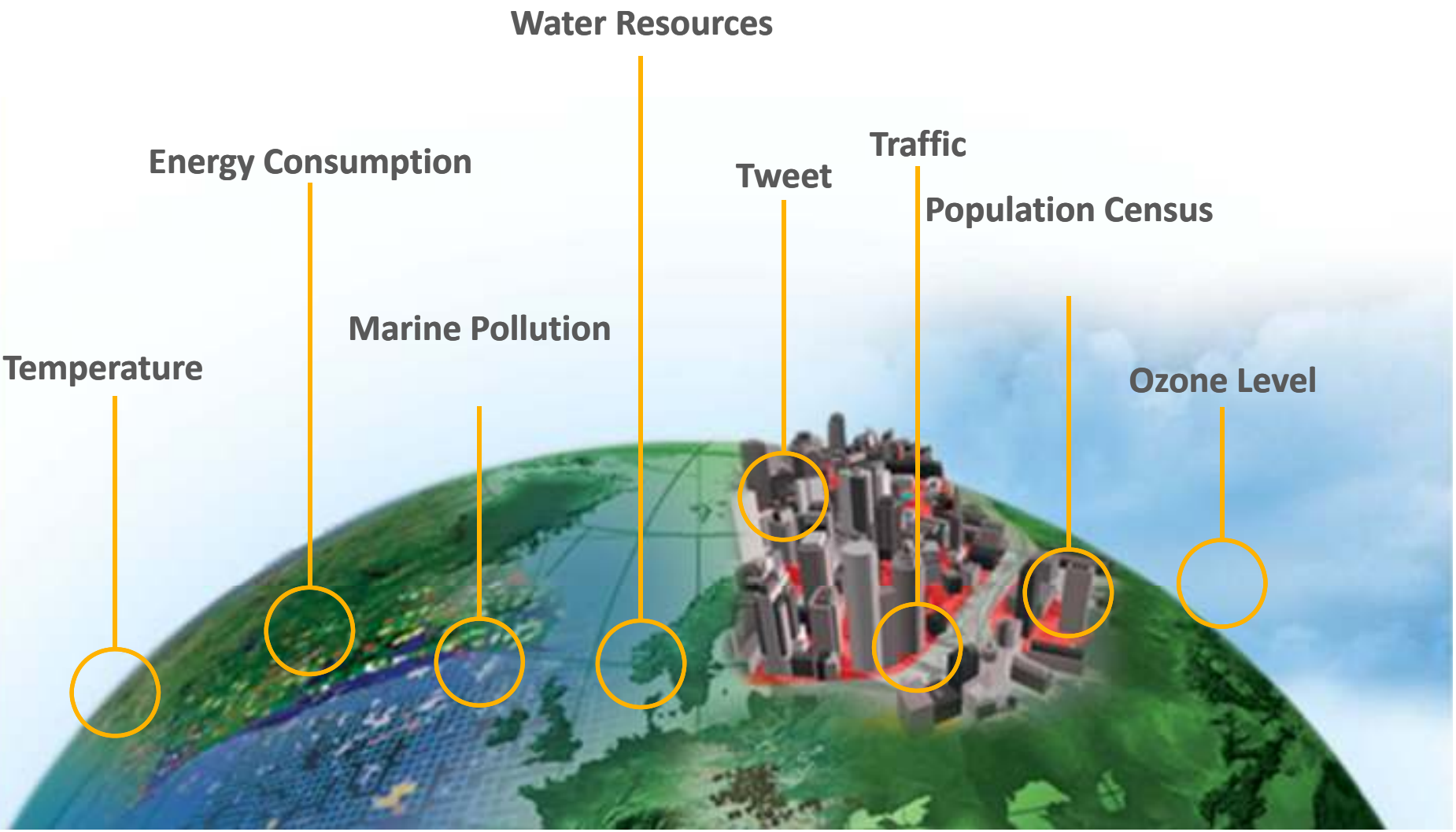
Integrierte Geoinformatik



Integrationsplattform

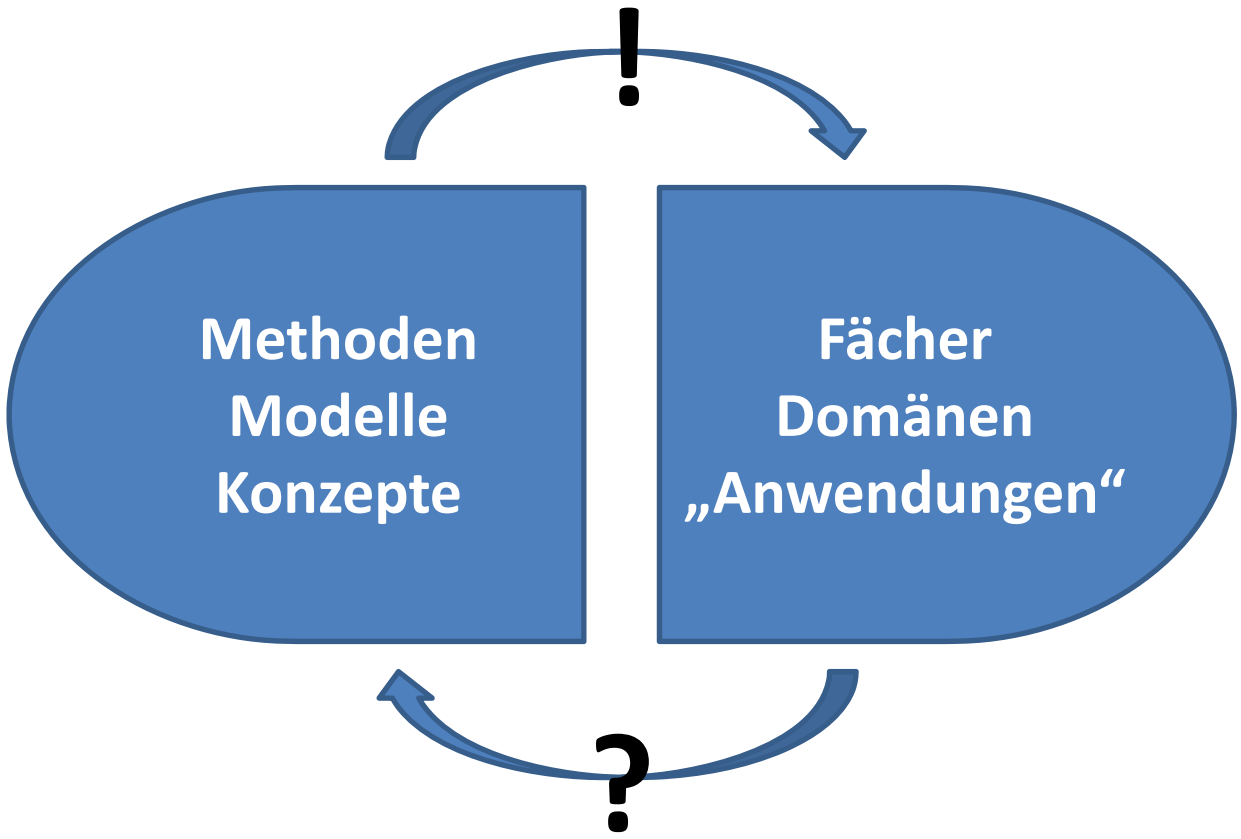


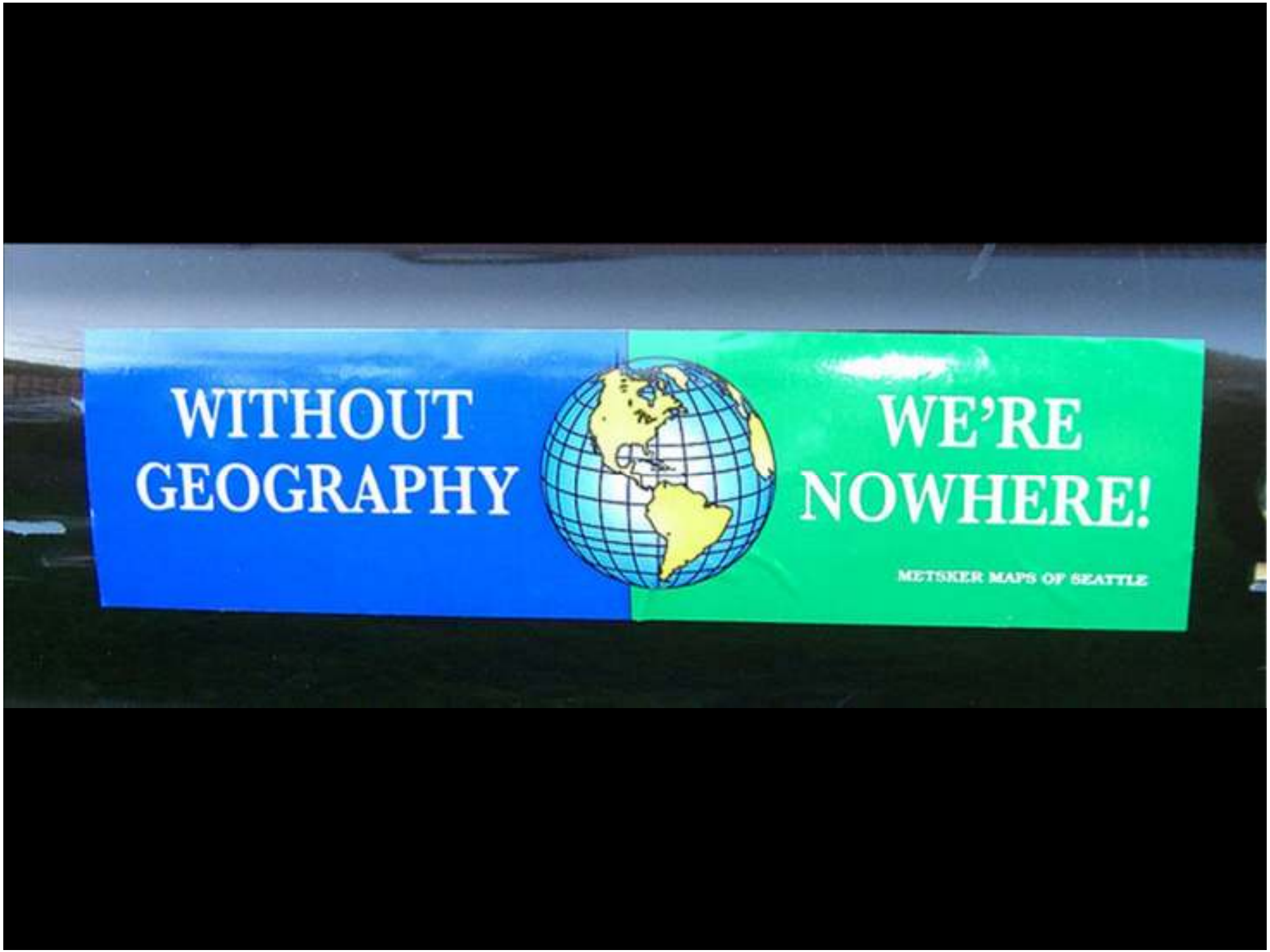
Problemdomänen



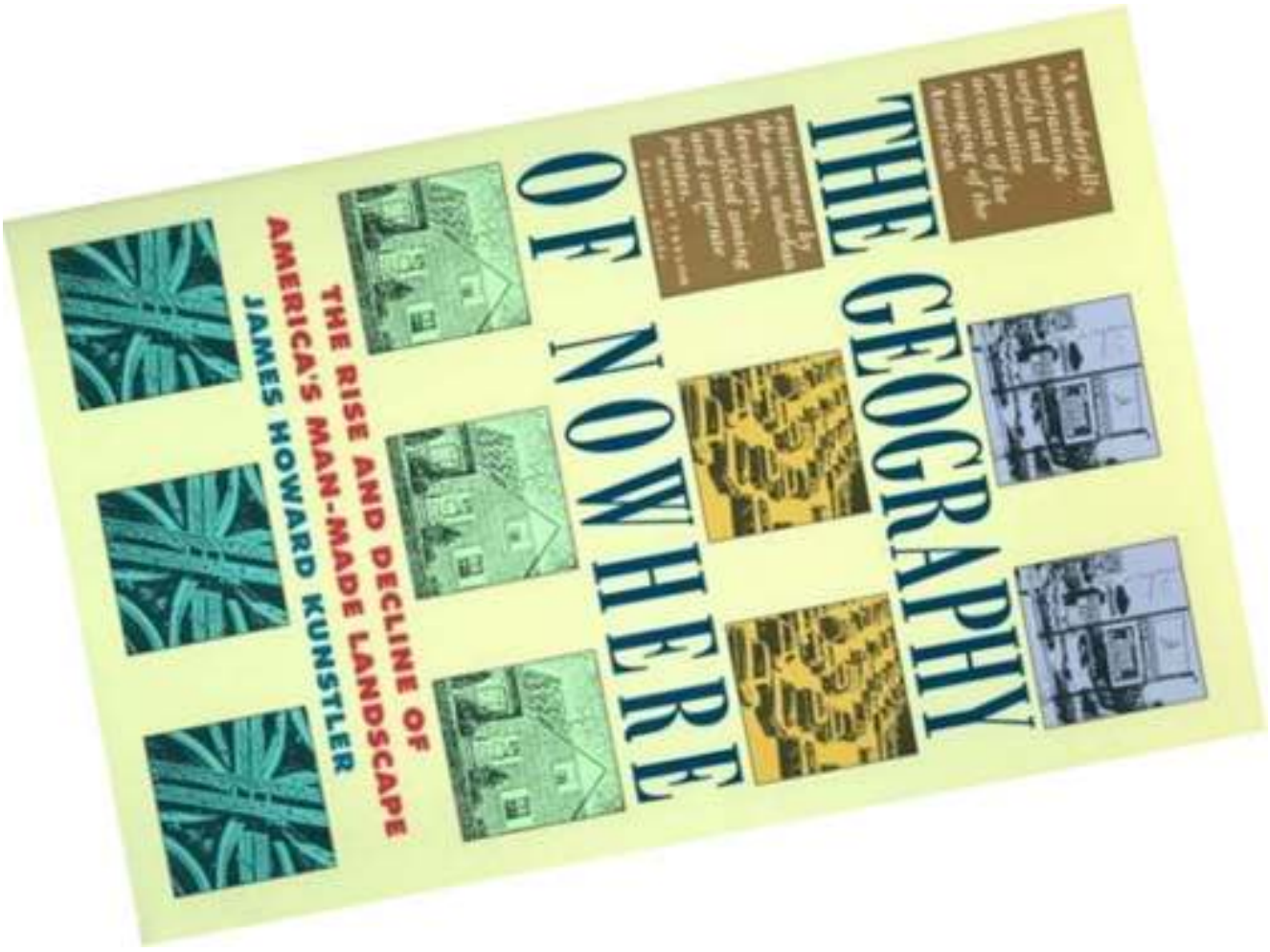
Integrierte Organisation

Räumliche Perspektive

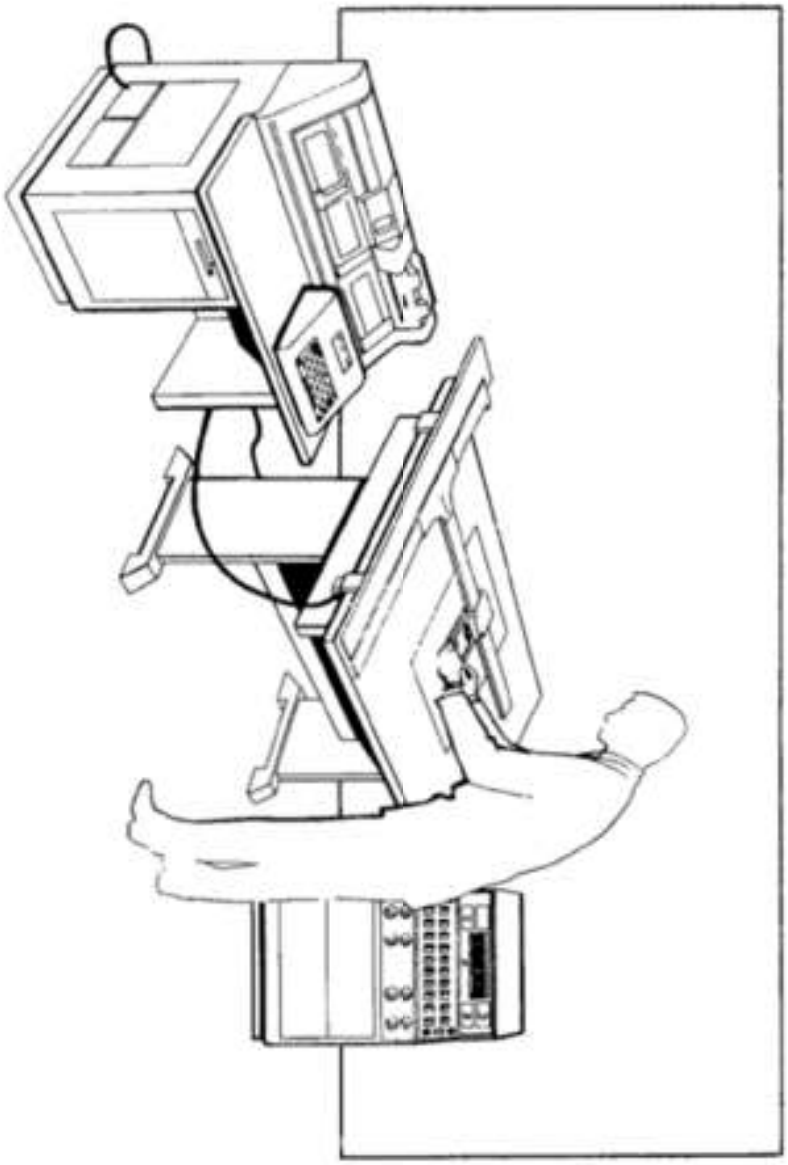



WITHOUT
GEOGRAPHY
WE'RE
NOWHERE!
METSKER MAPS OF SEATTLE


BORDER ROADS ORGANISATION
HIMANK
WITHOUT GEOGRAPHY
YOU'RE NOWHERE.
-JIMMY BUFFETT
491RMPL
54RCC
16 TF


THE GEOGRAPHY OF NOWHERE
THE RISE AND DECLINE OF AMERICA'S MAN-MADE LANDSCAPE
JAMES HOWARD KUNSTLER

ORBIS TERRAE COMPENDIOSA DESCRIPTIO

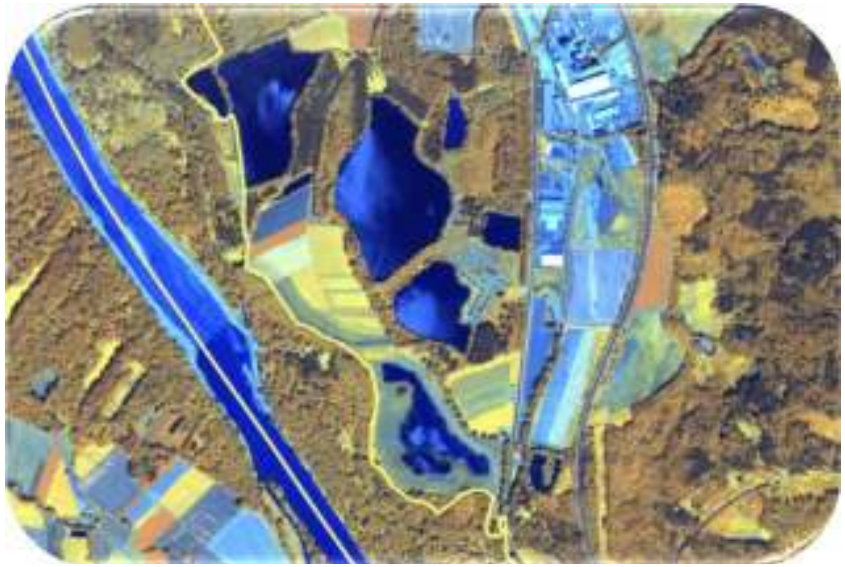



JAHRE

"THE FURTHER BACKWARDS YOU LOOK, THE FURTHER FORWARD YOU CAN SEE"

Winston Churchill

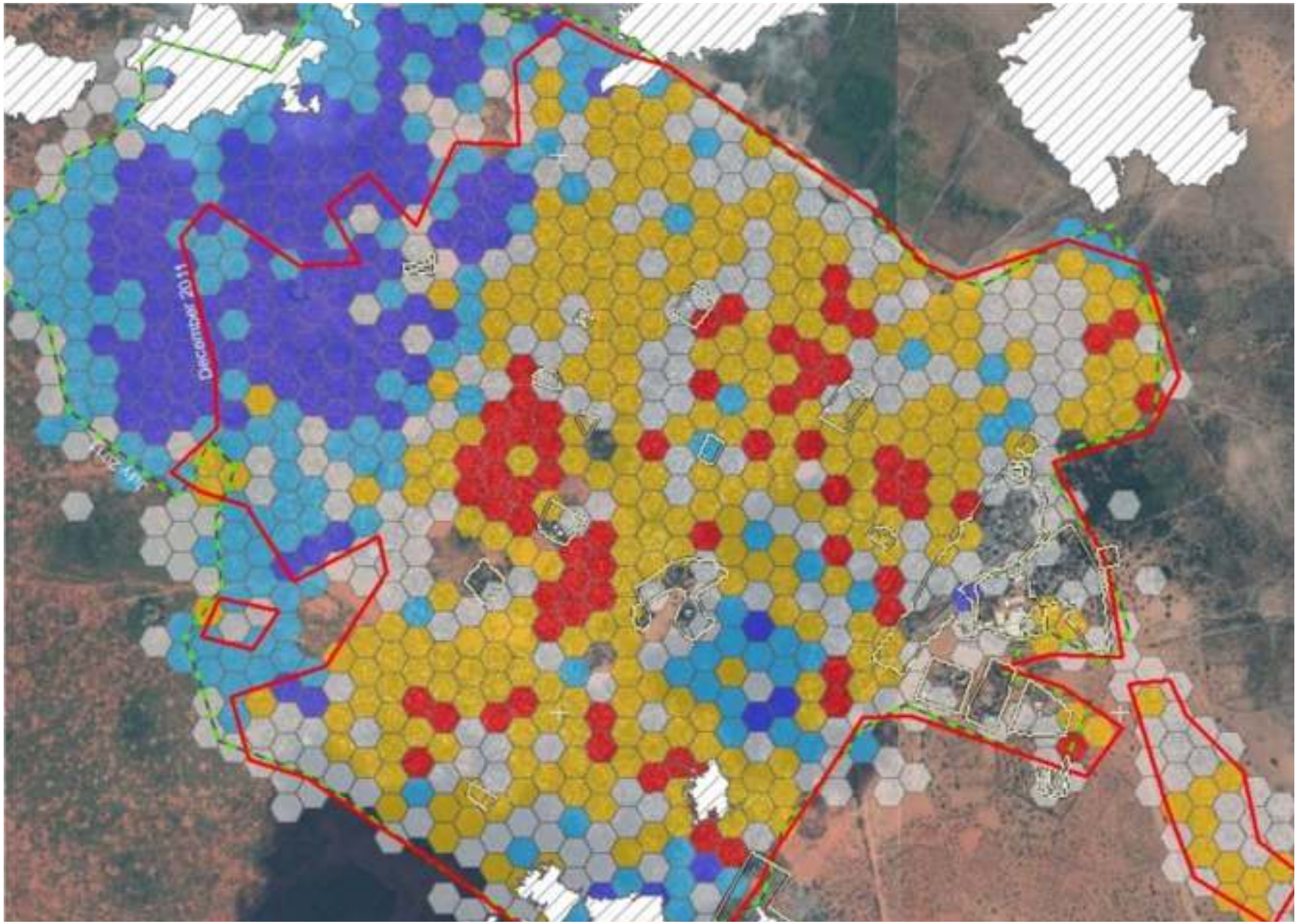
INTEGRATED SPATIAL ANALYSIS



Fernerkundungsbasierte Habitatkartierung in den Salzachauen nördlich von Salzburg. Das FFH Gebiet steht unter speziellem europäischen Schutz uns soll in seiner Qualität und Entwicklung beobachtet werden.

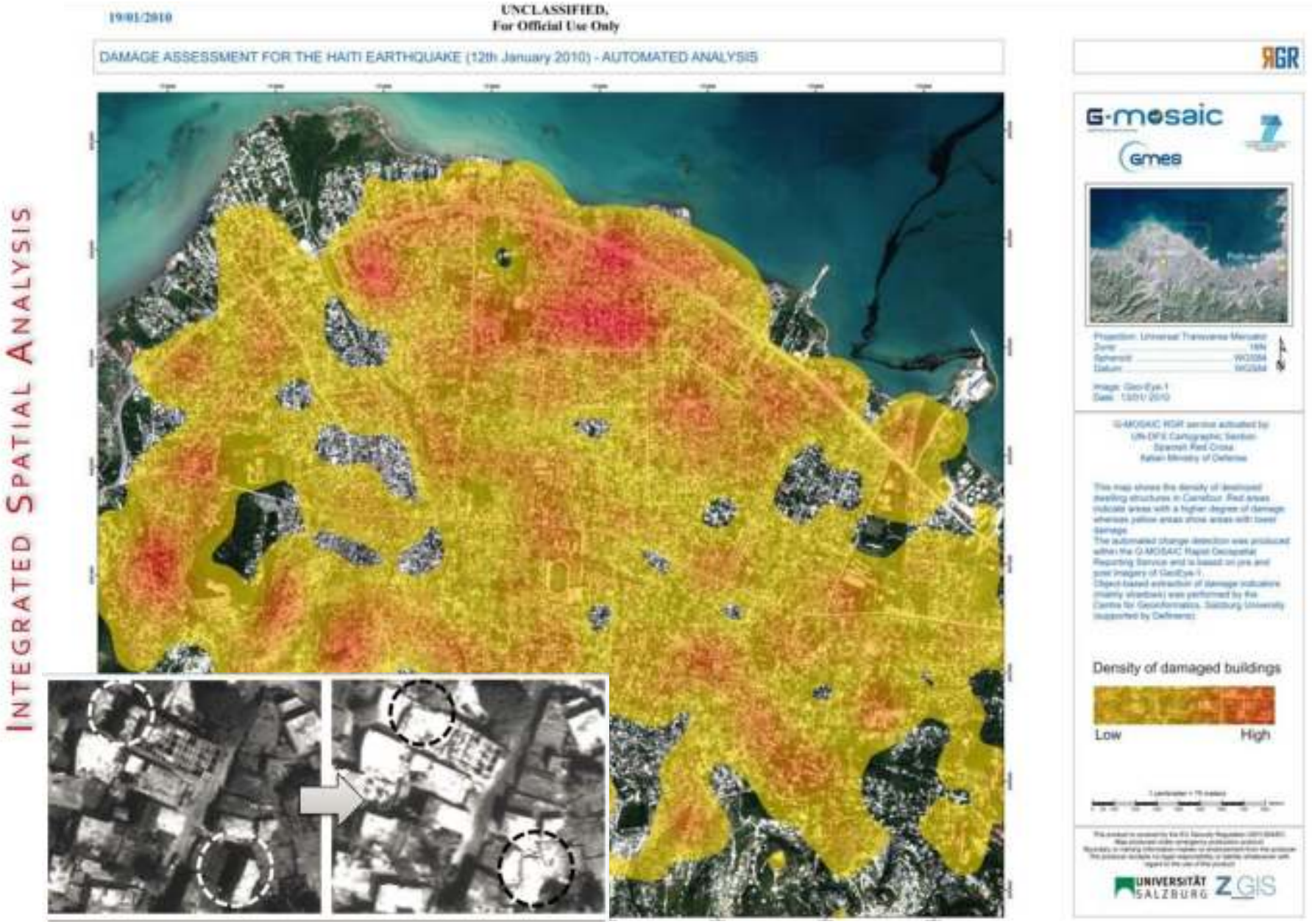
MS-MONINA: Multi-scale Service for Monitoring NATURA 2000 Habitats of European Community Interest [2010-2013, Fördergeber: EU FP7-SPACE Collaborative Project, 17 Partner]

INTEGRATED SPATIAL ANALYSIS



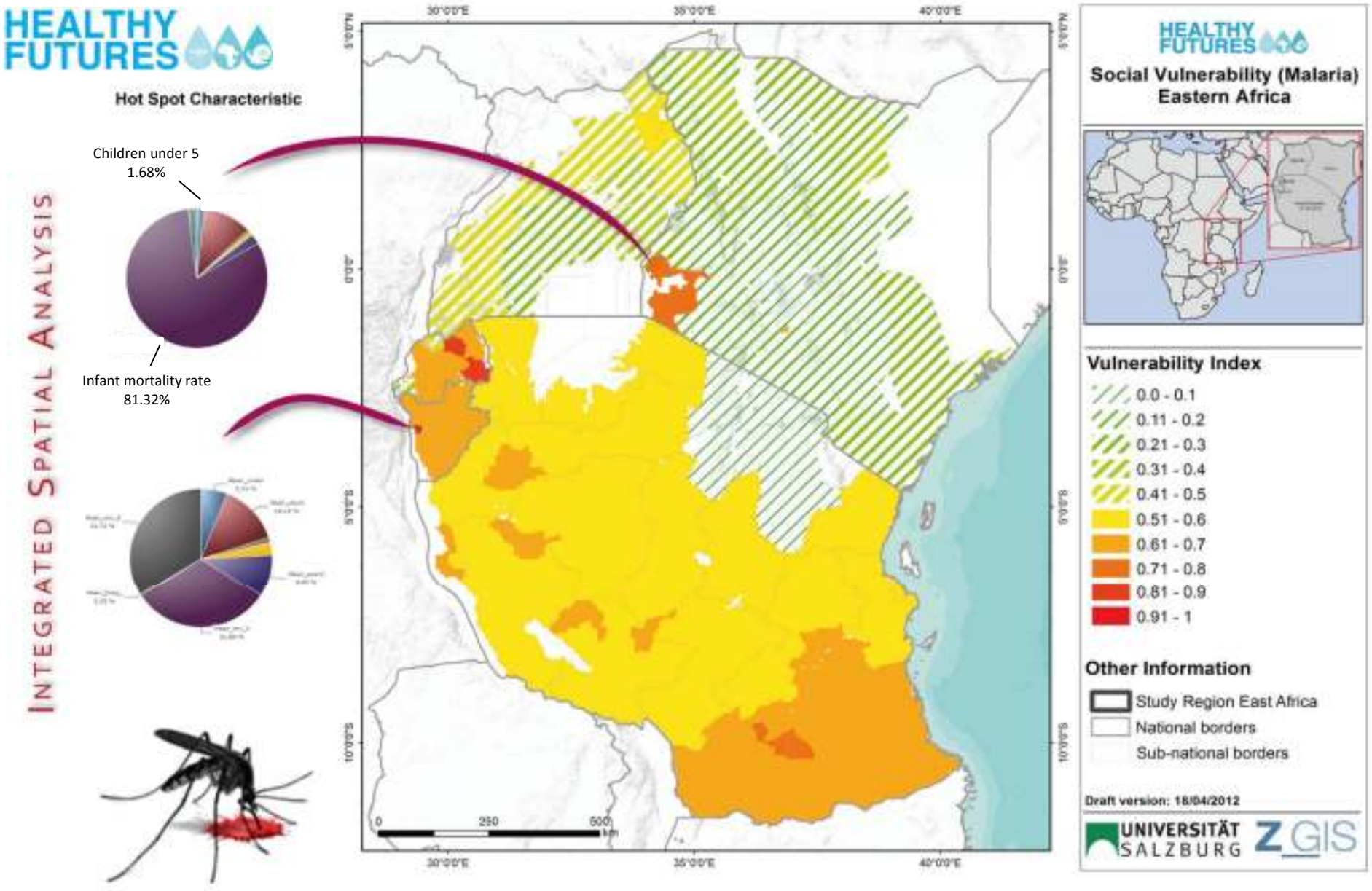
Automatisierte Extraktion von Dichteparametern in Mega-Flüchtlingslagern (hellere/dunklere Tönung), kombiniert mit einer Veränderungsanalyse der Entwicklung innerhalb des Jahres 2011 (rot: Verdichtung)

Kooperation "Ärzte ohne Grenzen" [2012-2015, Fördergeber: Karl-Kahane Stiftung]



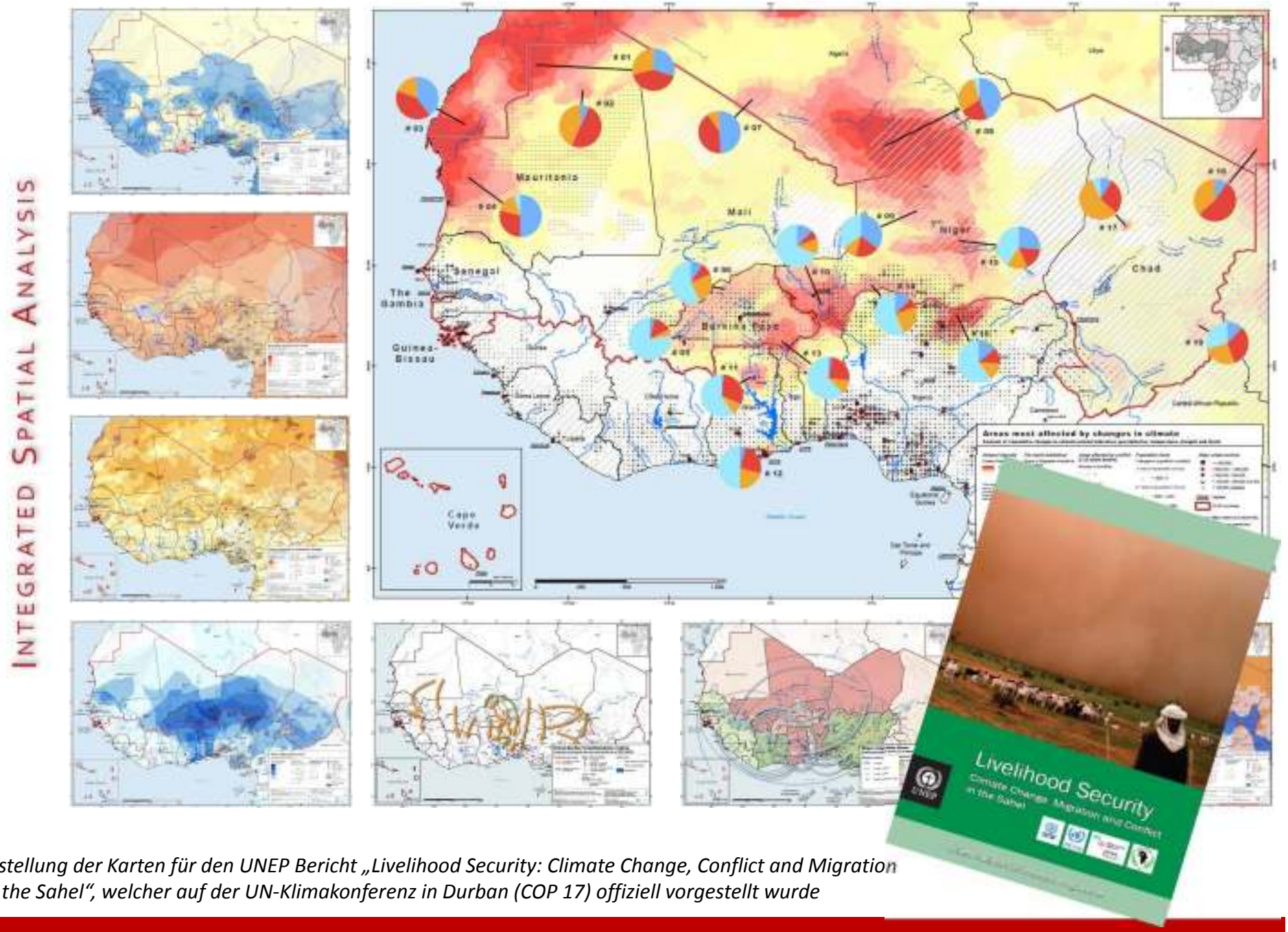
Automatische Berechnung von Schadensverteilungskarten aus Satellitendaten nach dem Erdbeben in Haiti, 2010. Veröffentlicht am 19.1.2010 und an die Nutzer (vor Ort) weitergegeben -12 Stunden nachdem die Satellitendaten zur Verfügung gestellt wurden.

G-MOSAIC: GMES Services for Management of Operations, Situation Awareness and Intelligence for regional Crises [2009-2012, Fördergeber: EU FP7-SPACE Collaborative Project, 40 Partner]



Räumliche Analyse der sozialen Vulnerabilität in Bezug auf Malaria in Ostafrika (Burundi, Kenia, Ruanda, Tansania, Uganda).

HEALTHY FUTURES: Health, environmental change and adaptive capacity: mapping, examining and anticipating future risks of water-related vector-borne diseases in eastern Africa [2011-2014, Fördergeber: EC FP7-ENVIRONMENT]



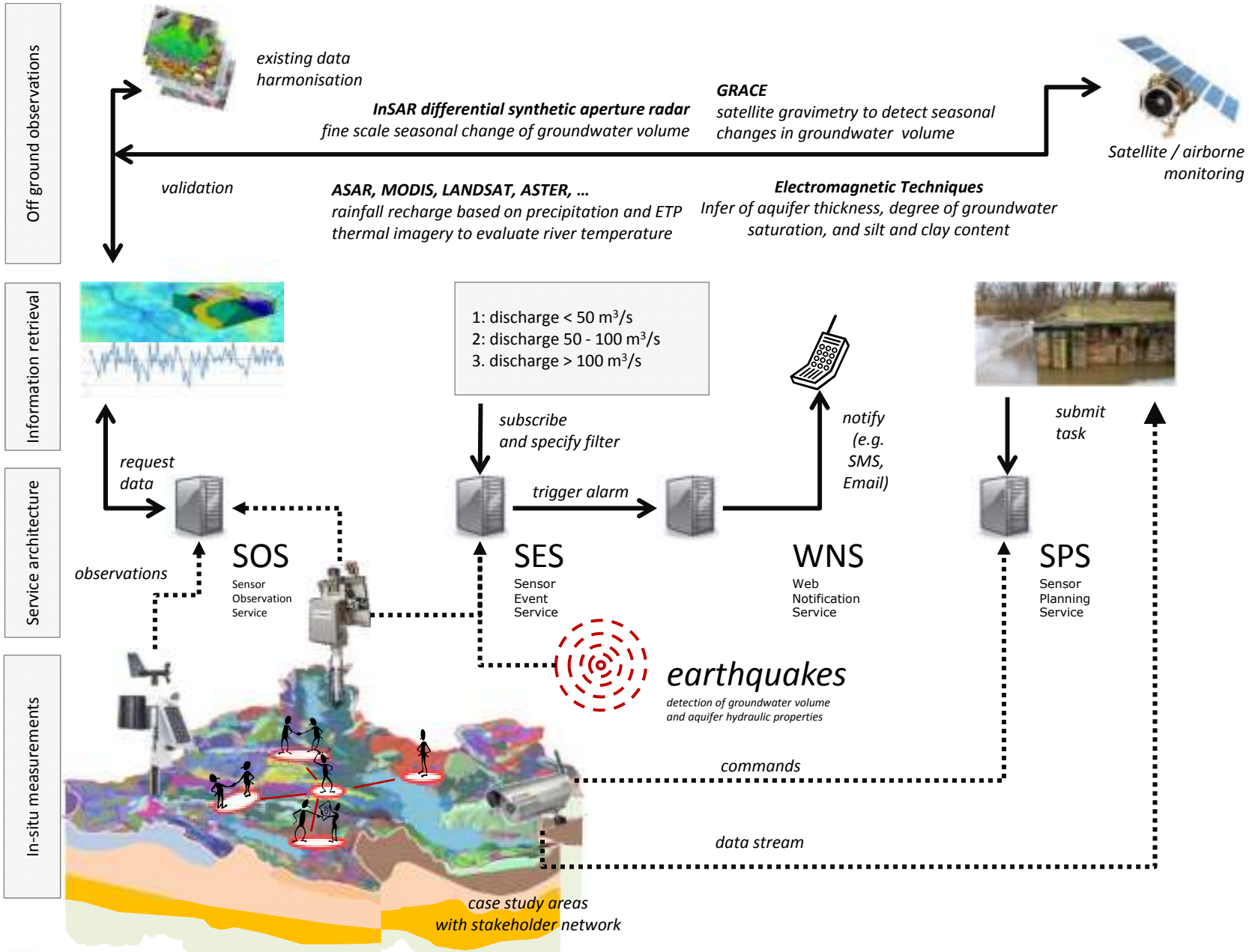
Erstellung der Karten für den UNEP Bericht „Livelihood Security: Climate Change, Conflict and Migration In the Sahel“, welcher auf der UN-Klimakonferenz in Durban (COP 17) offiziell vorgestellt wurde

UNEP SAHEL: Livelihood Security: Climate Change, Migration and Conflict in the Sahel [2010-2011, Fördergeber: UNEP]

INTEGRATED SPATIAL ANALYSIS

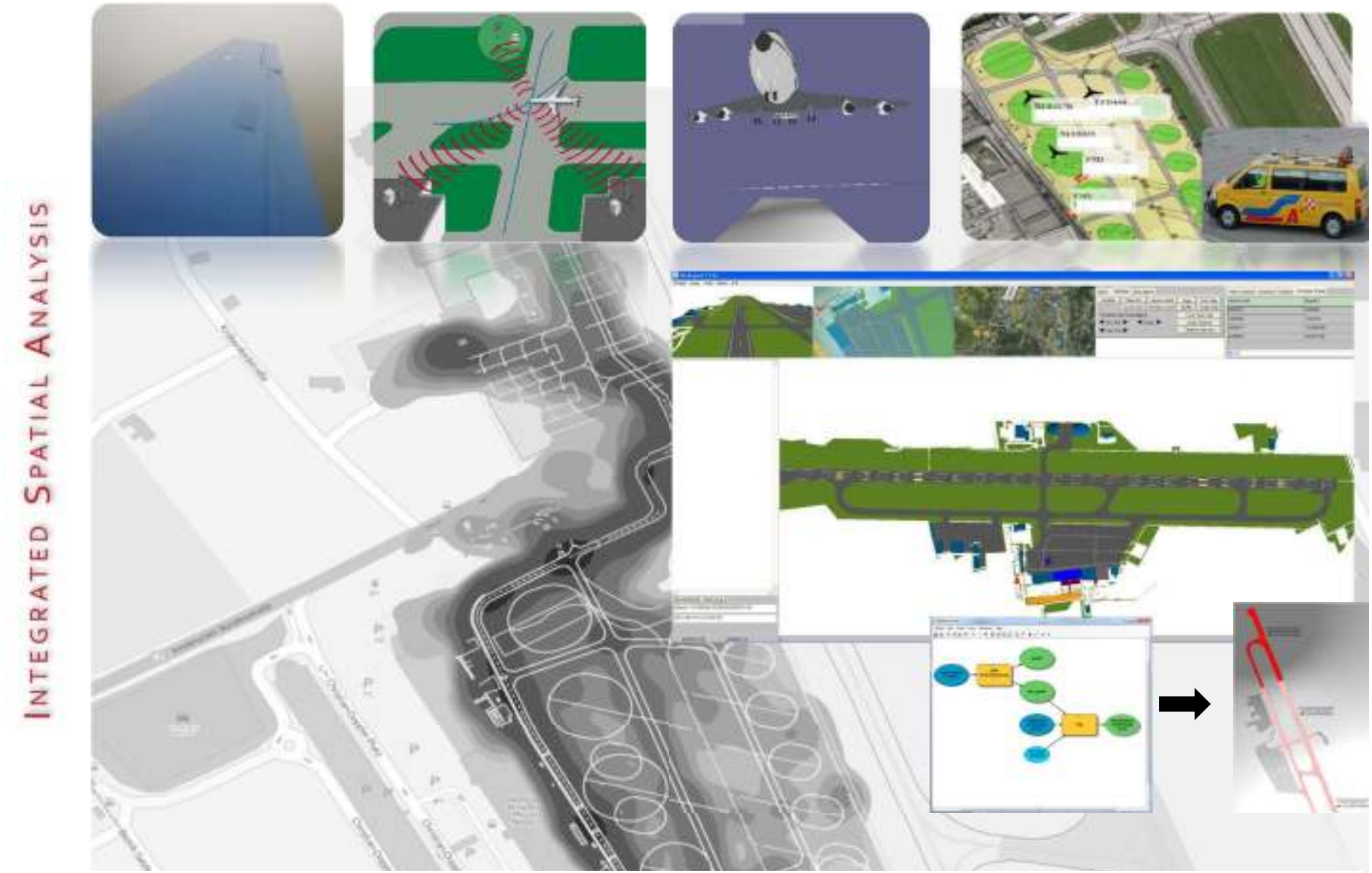
Automatisierte Extraktion von Totholzflächen im Nationalpark Kalkalpen, Oberösterreich (gelbe Umrahmung)

OBIALP [2012-2015, Fördergeber: DOC-fFORTE Stipendium, Österreichische Akademie der Wissenschaften]



Charakterisierung von Neuseelands Grundwasserressourcen auf Basis harmonisierter Geodaten, Fernerkundungstechnologie und stationäre Sensorüberwachung integriert in einem WebGIS

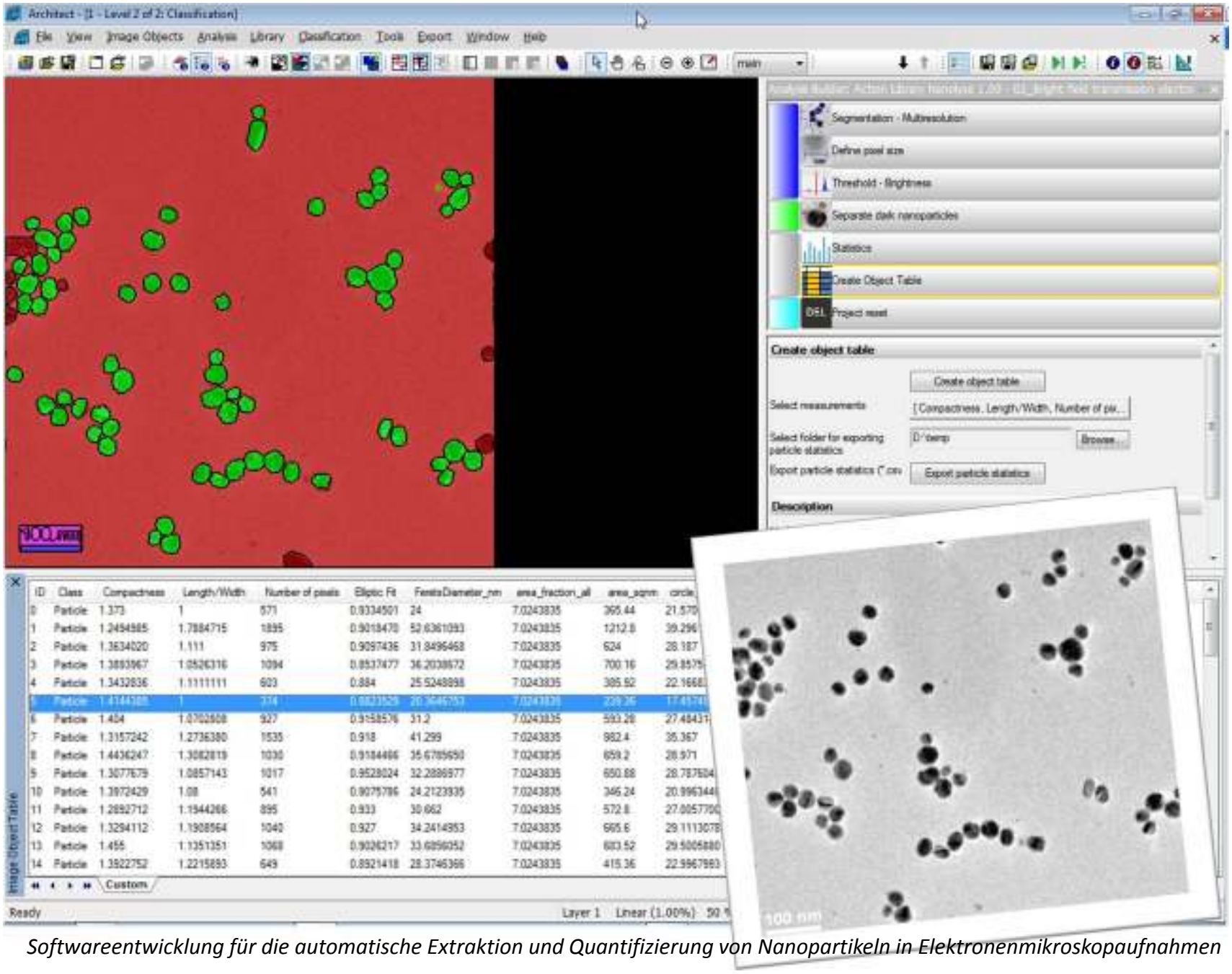
SMART Aquifer Characterisation [2011-2017, Fördergeber: MBIE Neuseeland]



Neue Methoden für die Erfassung, Analyse und Bereitstellung heterogener Geo-Daten an Flughäfen wurden in SESAAM erforscht. Eine Geo-Infrastruktur samt Visualisierung ermöglicht die integrierte Nutzung dieser Lageinformationen.

Projekt SESAAM Programm "TAKE OFF" [2010-2012, Fördergeber: FFG, BMVIT]

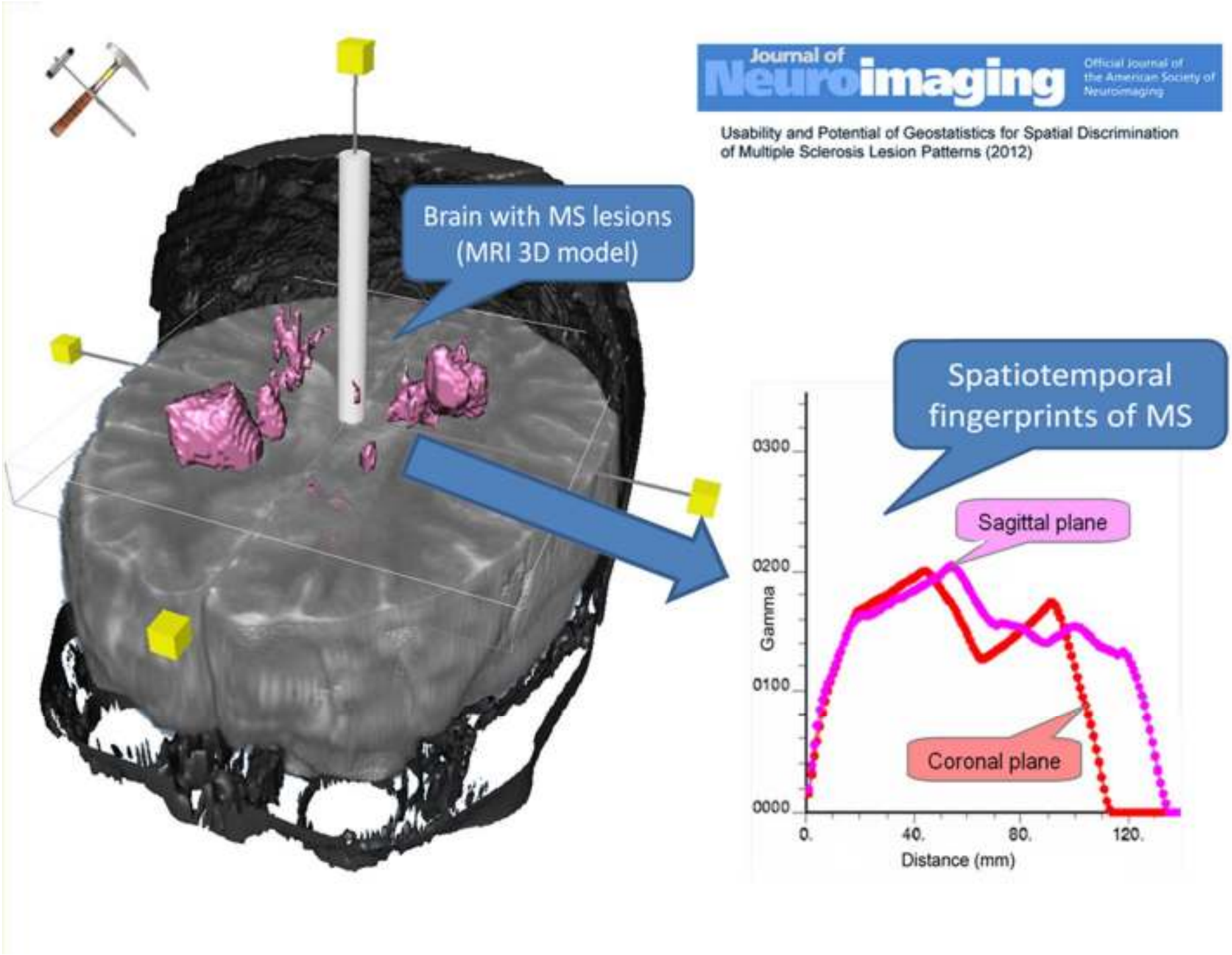
INTEGRATED SPATIAL ANALYSIS

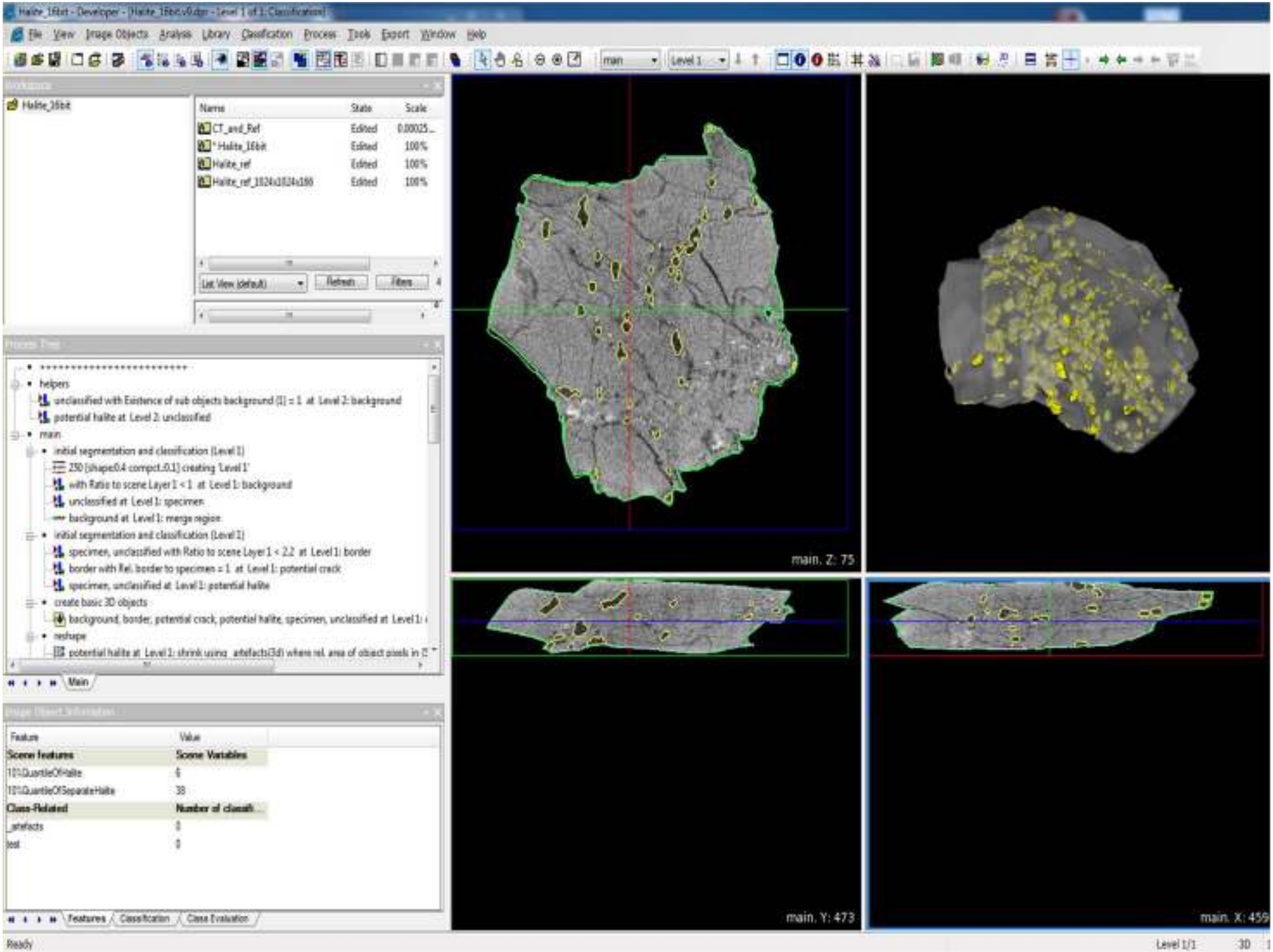


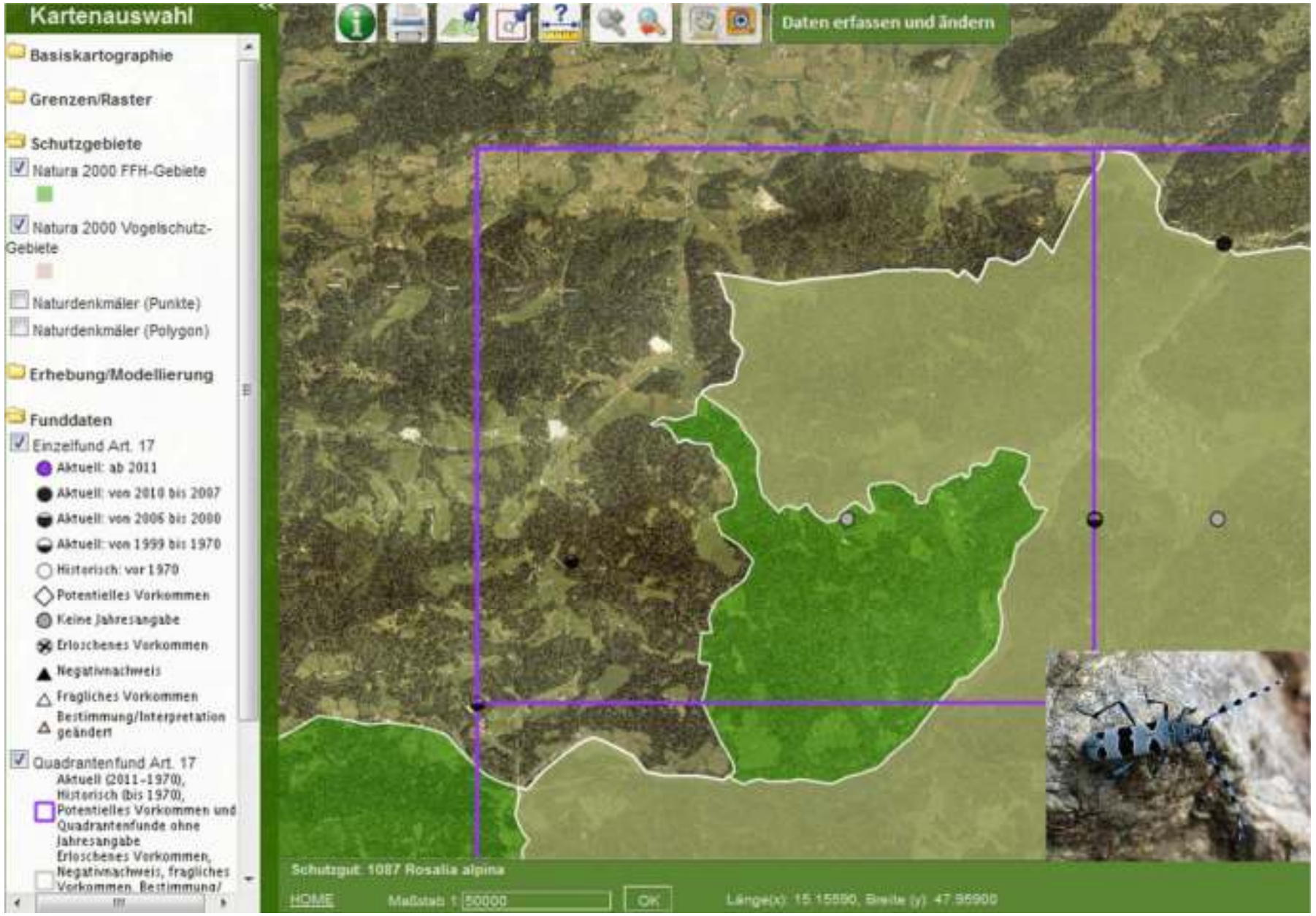
Softwareentwicklung für die automatische Extraktion und Quantifizierung von Nanopartikeln in Elektronenmikroskopaufnahmen

NanoLyse - Nanoparticles in Food: Analytical methods for detection and characterisation [2010-2012, Fördergeber: EU FP7 Collaborative Project, Z_GIS: sub-contractor]

main, T: 0
main


Journal of Neuroimaging
Official Journal of the American Society of Neuroimaging
Usability and Potential of Geostatistics for Spatial Discrimination of Multiple Sclerosis Lesion Patterns (2012)
Brain with MS lesions (MRI 3D model)
Spatiotemporal fingerprints of MS
Sagittal plane
Coronal plane
Gamma
0300
0200
0100
0000
0.
40.
80.
120.
Distance (mm)


Halite_16bit - Developer - [Halite_16bit.v0.dpr - Level 1 of 1: Classification]
File View Image Objects Analysis Library Classification Process Tools Export Window Help
Workspace
Halite_16bit
Name State Scale
CT_and_Ref Edited 0.00025...
* Halite_16bit Edited 100 %
Halite_ref Edited 100 %
Halite_ref_1024x1024x186 Edited 100 %
List View (default) Refresh Filters
Process Tree
helpers
unclassified with Existence of sub objects background (1) = 1 at Level 2: background
potential halite at Level 2: unclassified
main
initial segmentation and classification (Level 1)
250 [shape:0.4 compct.:0.1] creating 'Level 1'
with Ratio to scene Layer 1 < 1 at Level 1: background
unclassified at Level 1: specimen
background at Level 1: merge region
initial segmentation and classification (Level 2)
specimen, unclassified with Ratio to scene Layer 1 < 2.2 at Level 1: border
border with Rel. border to specimen = 1 at Level 1: potential crack
specimen, unclassified at Level 1: potential halite
create basic 3D objects
background, border, potential crack, potential halite, specimen, unclassified at Level 1:
reshape
potential halite at Level 1: shrink using artefacts(3d) where rel. area of object pixels in
Main
Image Object Information
Feature Value
Scene features Scene Variables
10%QuantileOfHalite 6
10%QuantileOfSeparateHalite 38
Class-Related Number of classifi...
artefacts 0
test 0
Features Classification Class Evaluation
main. Z: 75
main. Y: 473
main. X: 459
Ready
Level 1/1
3D

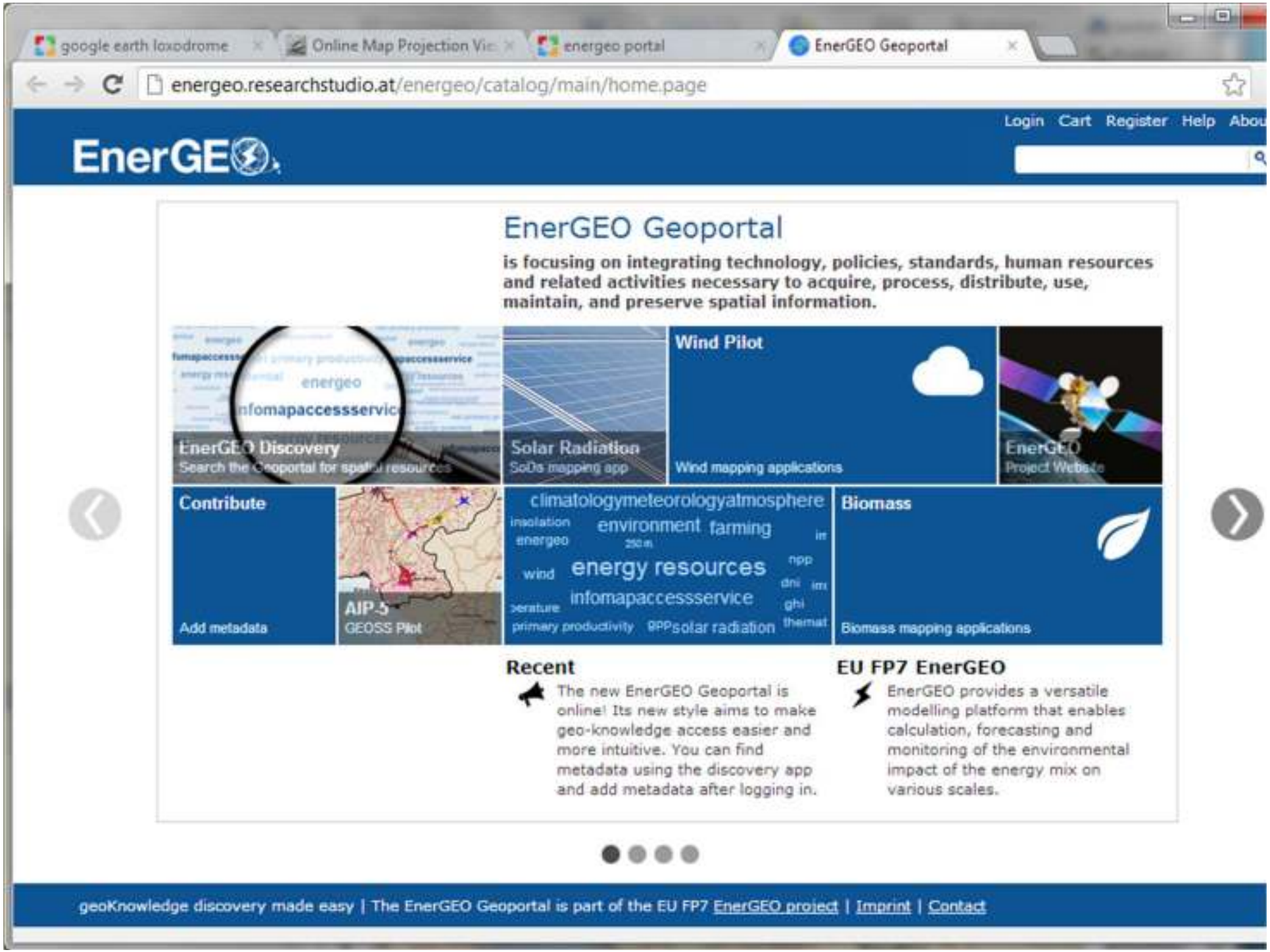


INTEGRATED SPATIAL ANALYSIS

EMART
Expert Monitoring and Reporting Tool

WebGIS Viewer zur Datenaufnahme und Visualisierung von gefährdeten Lebensraumtypen und Arten in Österreich . *Violette Quadranten und Punkte zeigen die Verbreitung des Alpenbocks (Rosalia alpina)*

LRT und Arten [2010-2012, Fördergeber: österr. Bundesländer]

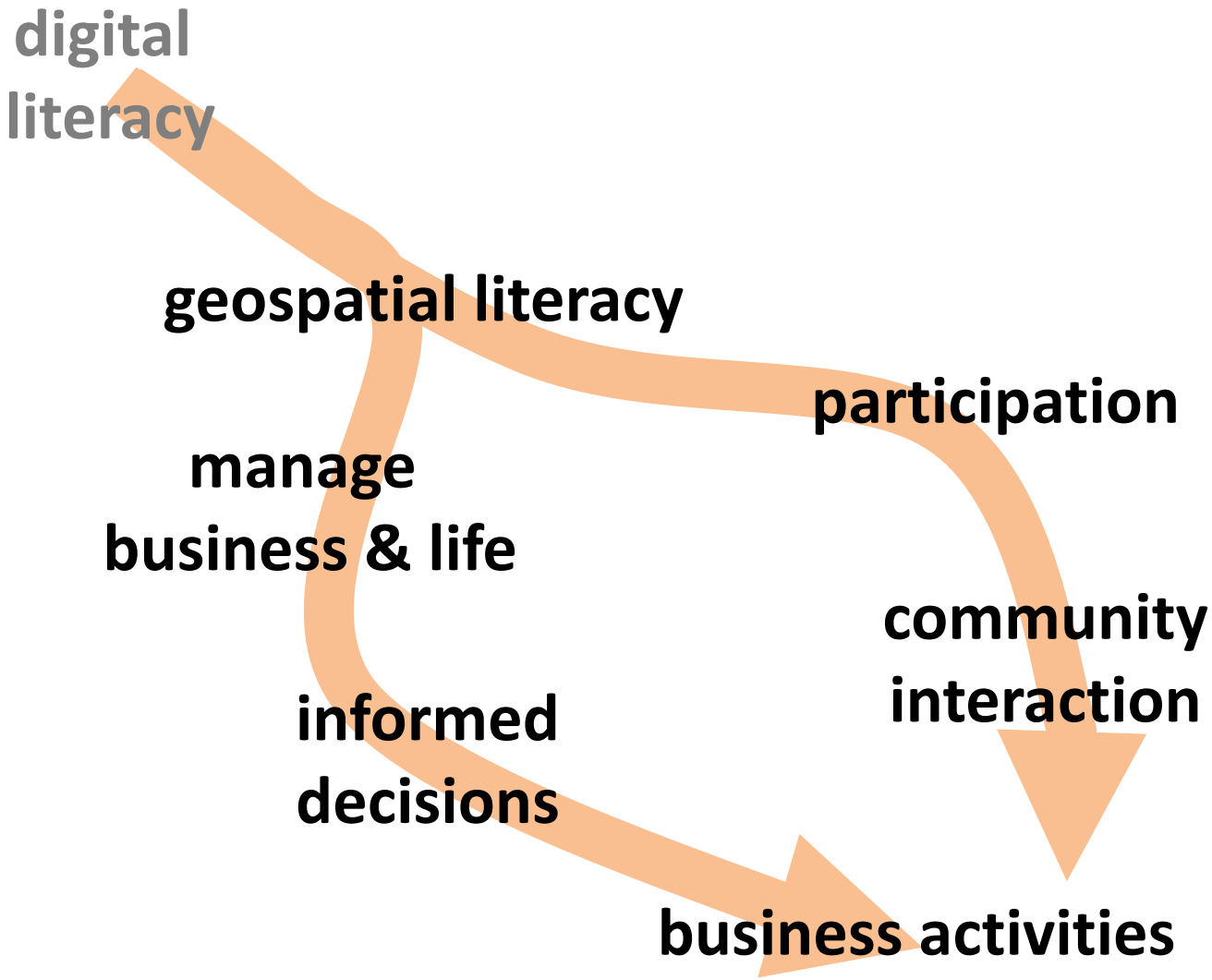

google earth loxodrome
Online Map Projection Vie
energeo portal
EnerGEO Geoportal
energeo.researchstudio.at/energeo/catalog/main/home.page
Login Cart Register Help Abou
EnerGEO
EnerGEO Geoportal
is focusing on integrating technology, policies, standards, human resources and related activities necessary to acquire, process, distribute, use, maintain, and preserve spatial information.
EnerGEO Discovery
Search the Geoportal for spatial resources
Solar Radiation
SoDa mapping app
Wind Pilot
Wind mapping applications
EnerGEO
Project Website
Contribute
Add metadata
AIP-5
GEOSS Pilot
climatologymeteorologyatmosphere
insolation
environment
farming
energeo
wind
energy resources
npp
dni
ghi
infomapaccessservice
primary productivity
solar radiation
thermal
Biomass
Biomass mapping applications
Recent
The new EnerGEO Geoportal is online! Its new style aims to make geo-knowledge access easier and more intuitive. You can find metadata using the discovery app and add metadata after logging in.
EU FP7 EnerGEO
EnerGEO provides a versatile modelling platform that enables calculation, forecasting and monitoring of the environmental impact of the energy mix on various scales.
geoKnowledge discovery made easy | The EnerGEO Geoportal is part of the EU FP7 EnerGEO project | Imprint | Contact

digital-earth.eu

digital:earth – spatial citizen brainware

This project has been funded with support from the European Commission. This Web site reflects the views only of the network, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Spatial Citizenship



digital-earth.eu

digital-earth.eu

The **digital-earth.eu** project examines the use of geographic media in schools and teacher education. Geo-media is the visualisation of information from different media sources and is concerned with digital content and its processing based on place, position and location. Many geographic media are widely used for navigation and routing purposes. Cartographic communication has never been so easy to implement, therefore 21st century school education needs to include geo-media into daily work. Innovative approaches to teaching and learning are needed to study environments from local to global scale.

The **digital-earth.eu** network links innovative centres around Europe where geo-media use is well developed. Products, resources, experiences and ideas are shared between the centres and opened to the public wherever possible.

A **digital-earth.eu** infrastructure is under development. The European Centre and an accredited network of national and regional Centres of Excellence are developing an online catalogue of materials, courses, publications, links and good practice scenarios, and are publishing a series of core publications.

Supported by:

EACEA Education, Audiovisual & Culture Executive Agency

Education and Culture DG

Digital-earth.eu
digitalearthеu

digitalearthеu Animating the cartography of disaster #geomefia bit.ly/wnO79t lnkd.in/MaNJ4p
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digitalearthеu What Is The Purpose of Geospatial Media? vector1media.com/vectorone/?p=9...: lnkd.in/HW-S5Z
23 hours ago · reply · retweet · favorite

digitalearthеu Satellite images showing change over time cnn.com/SPECIALS/world...: lnkd.in/MSrWuV
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twitter Join the conversation

digital-earth.eu presented at Media and Learning 2011

More than 300 delegates present at the Media and Learning Conference attended digital-earth.eu screening on Nov. 24th, 2011. The presentation introduced the importance of geospatial

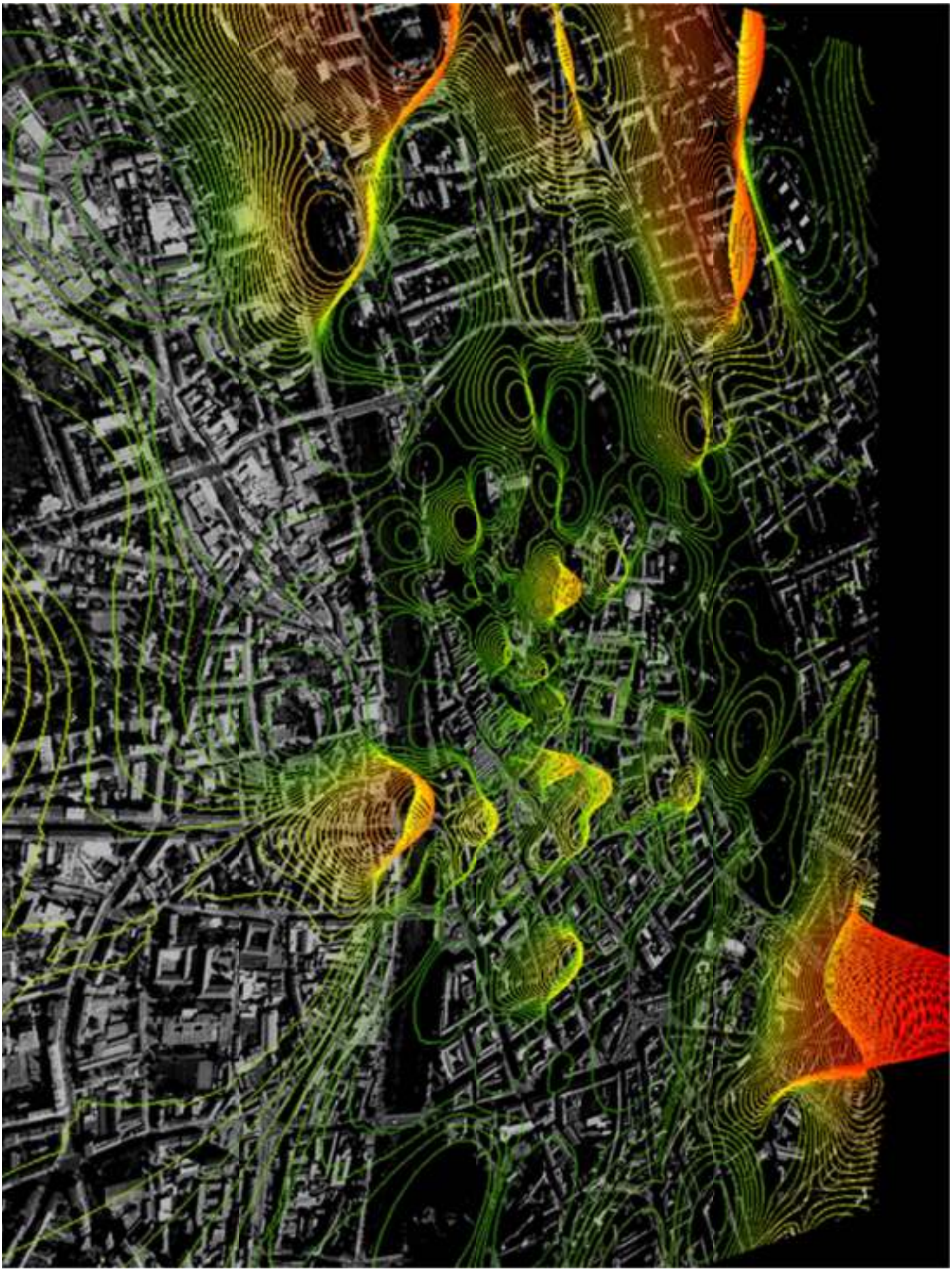

13:50–14.40
14.55–15.45
16.30–17.20
17.35–18.25
Lecture Plus 3 E1
Learning 'live' online – the benefits
KS2–P16
David Holmes, Education Consultant
Lecture 5 C2
Global energy dilemmas: a geographical perspective
Subject Update
Professor Michael Bradshaw, Professor of Human Geography, University of Leicester
Lecture 6 E7
Making sense of diversity
KS1–3
Eleanor Knowles, Director
Lecture Plus 4 E7
Water security: what we need to know
Subject Update
Professor J A Allan, Professor Emeritus, King's College London
Lecture 8 E1
Exploring differences in society using the UK census
Subject Update
Dr Paul Norman, Lecturer in Human Geography, University of Leeds
Lecture 9
Social geography of young
15.45–16.30 Refreshments and exhib
Lecture Plus 5 E1
Geomedia in secondary education KS4
Alan Parkinson, Consultant, and Dr Michael Solem, Educational Affairs Director, Association of American Geographers
Sponsored by digital-earth.eu
Lecture 11 C2
Citizenship, cities and difference: you
Lecture 14 E7
Adapting to climate change: lessons from water resource management
Subject Update
Professor Clive Agnew, Vice President
17.00 Exhibition
digital-earth.eu
a European Curriculum Network connecting those using Spatial Media and Geoinformation in school
GEO-MEDIA IN THE CURRICULUM
FOR A BETTER WORLD!
Workshop (IT) 22 G2

digital-earth.eu – Geo-media in Schools

Call for Applications

“digital-earth Centres of Excellence”
&
“digital-earth Experts”

People as Sensors

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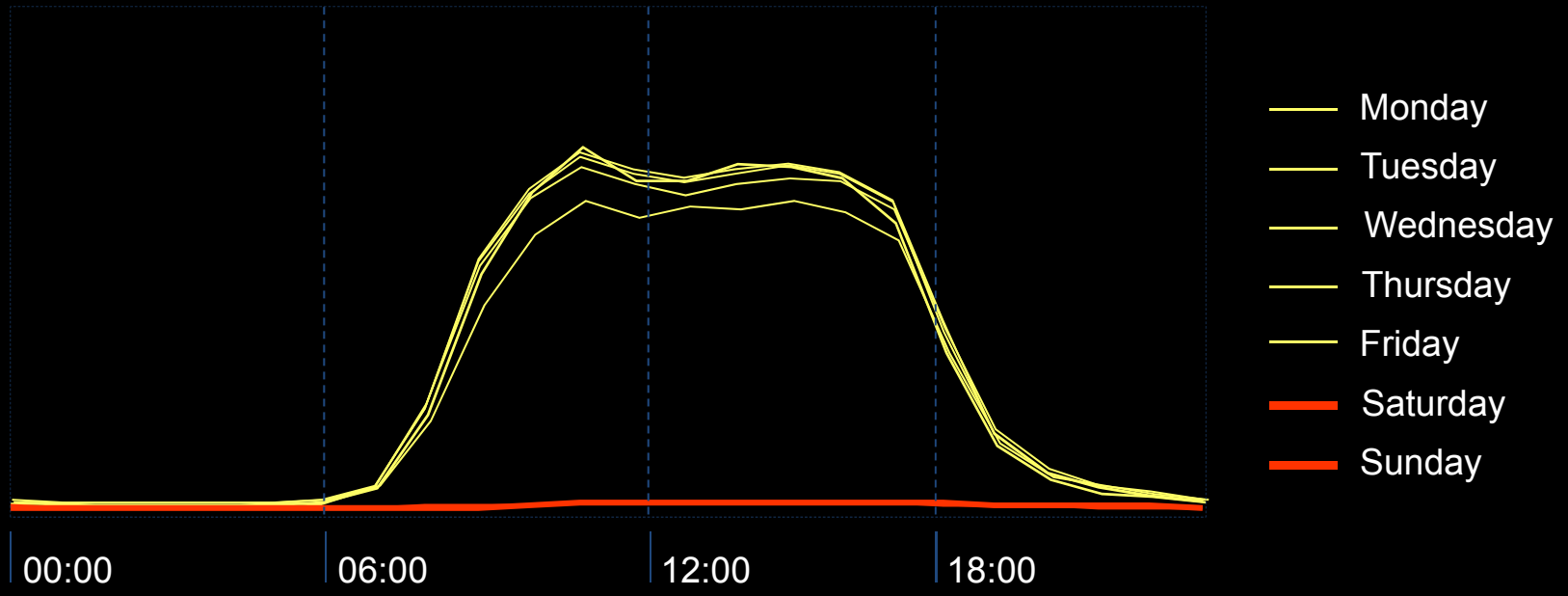
SALZBURG

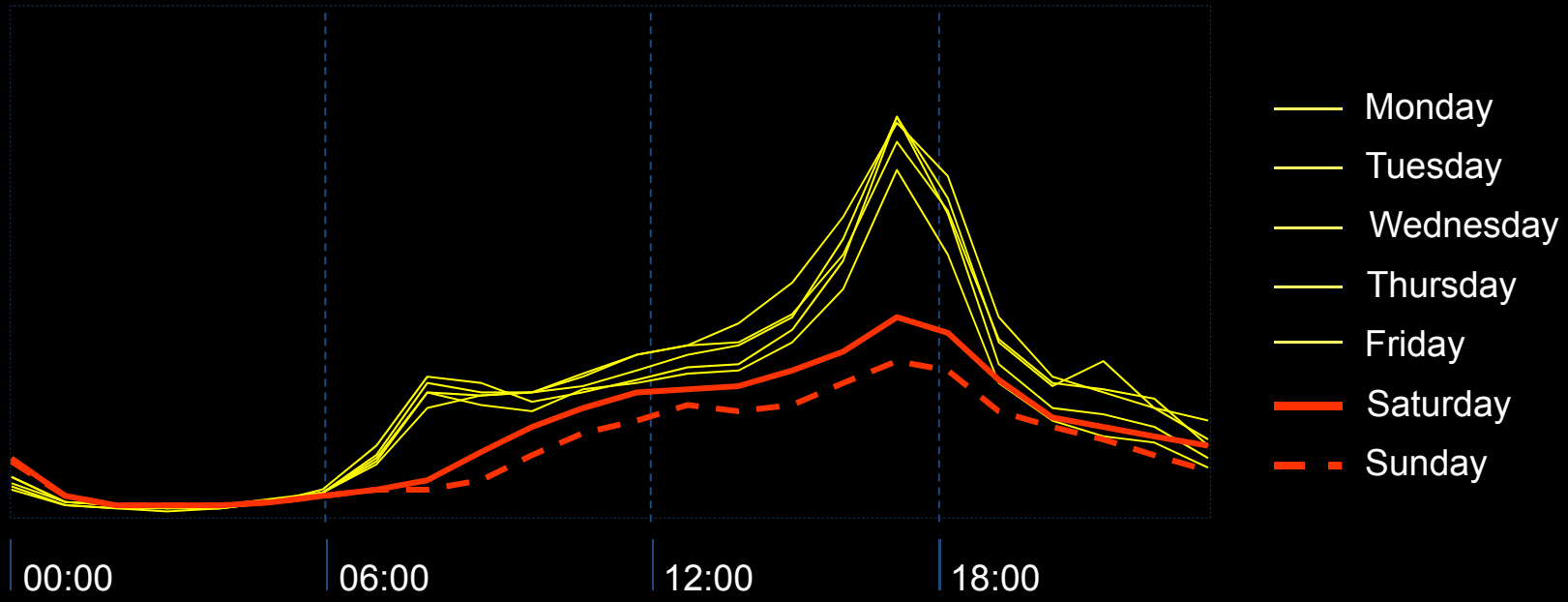
World Trade Center



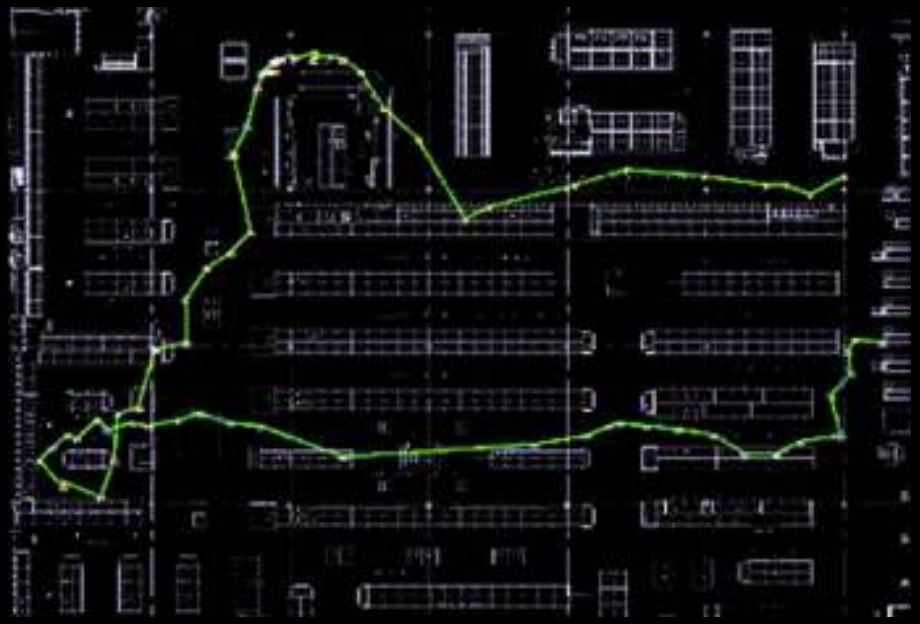
Aggregated call intensity

Source: bMA Amsterdam

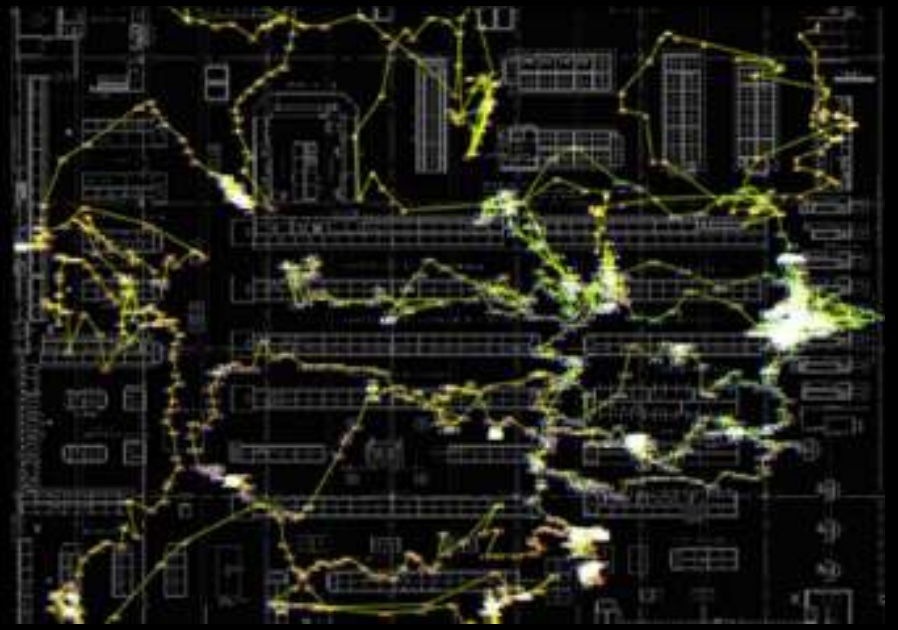
Central Station



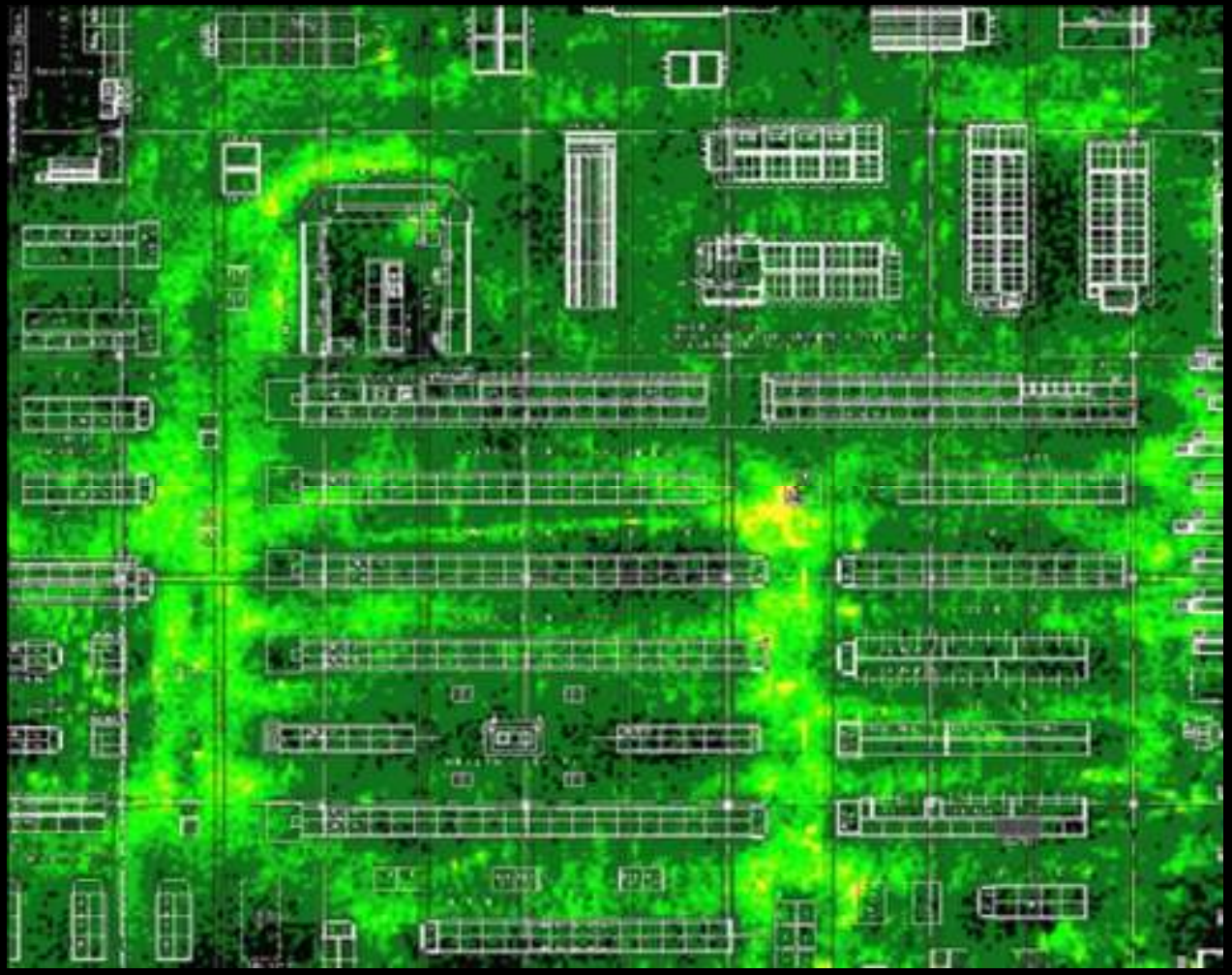
Aggregated call intensity



0:02:40



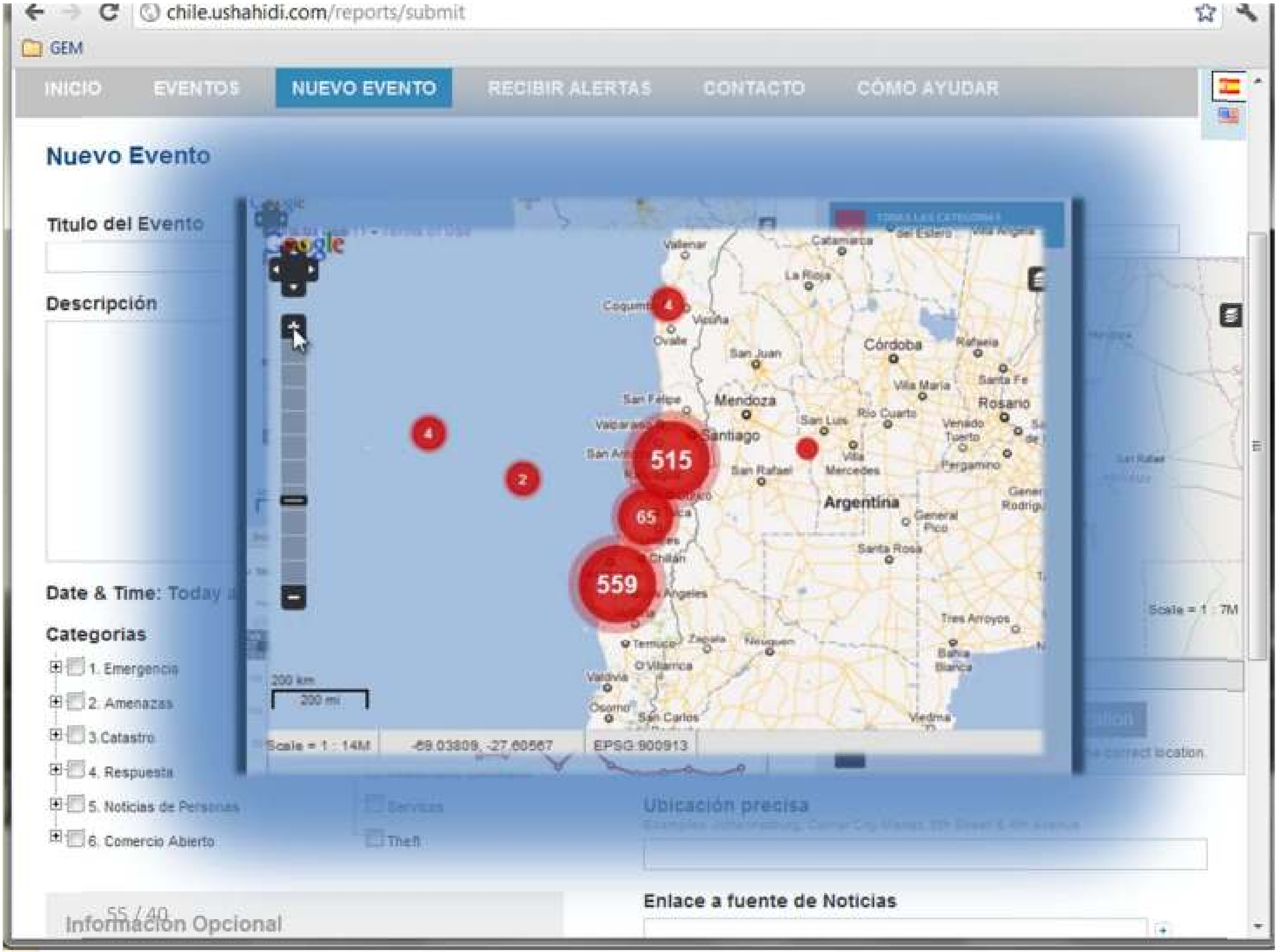
1:08:40



Geoinformatik Interdisziplinär – Universität Salzburg


CARLOS TEVEZ
VIDEO HIGHLIGHTS >
STATISTICS >
INFORMATION >
VOTE MAN OF THE MATCH >

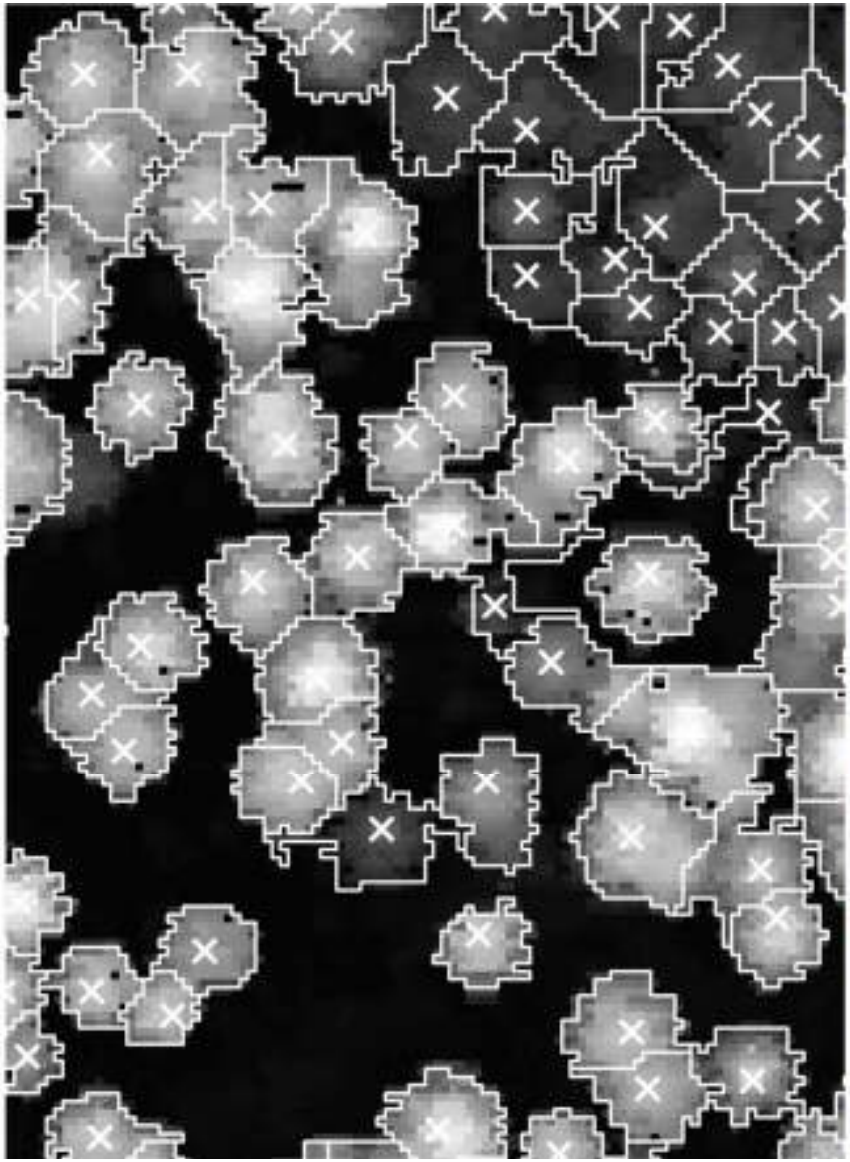

12:19
NOISE WATCH
Peak
Decibel dB
Current Value 41
Stop
EYE ON EARTH
Time Remaining 6
AVG Value 38
12:20
NOISE WATCH
Current Location
Sound level is 44 dB
EYE ON EARTH
Send
Computed Indicator
AVG Value 44
12:21
NOISE WATCH
Success
Thank you for participating, your data will be posted on www.eyeonearth.org in 24 hours.
OK
EYE ON EARTH
Send
AVG Value 44
UNIVERSITÄT SALZBURG

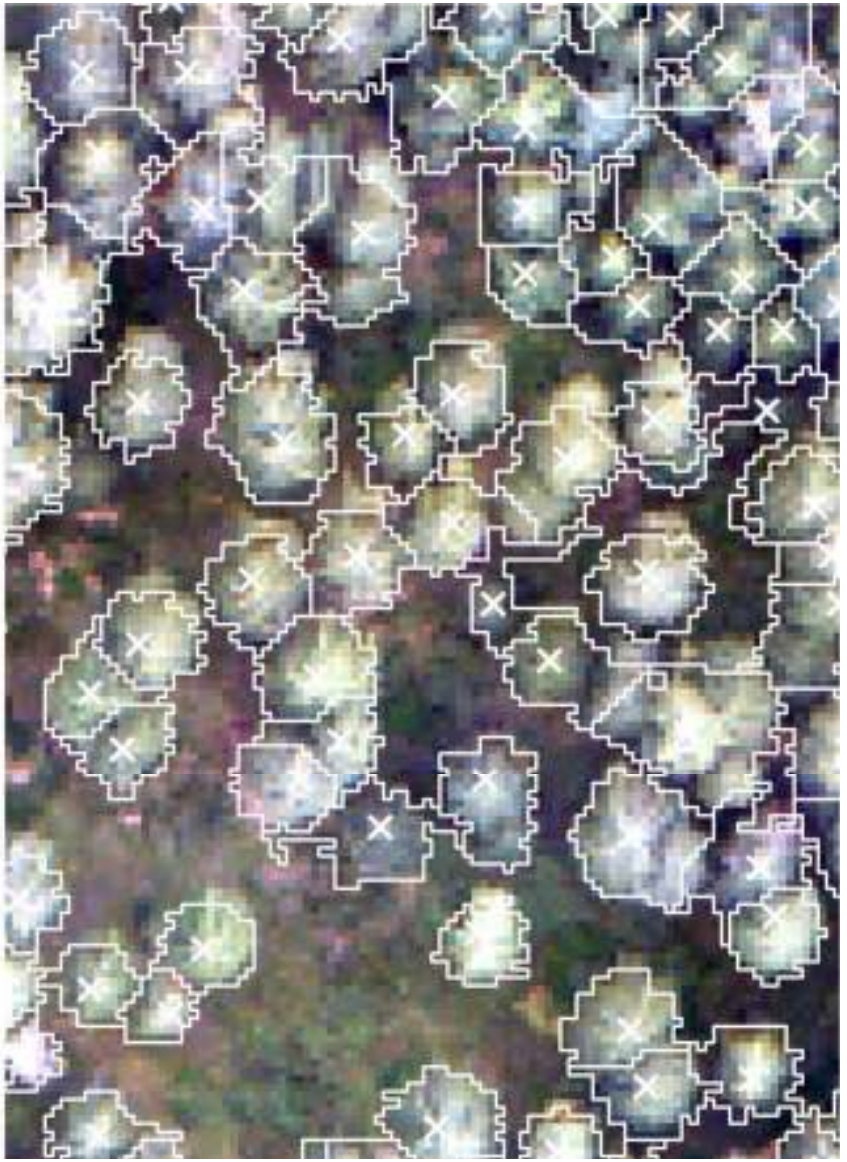

chile.ushahidi.com/reports/submit
GEM
INICIO
EVENTOS
NUEVO EVENTO
RECIBIR ALERTAS
CONTACTO
CÓMO AYUDAR
Nuevo Evento
Titulo del Evento
Descripción
Date & Time: Today
Categorias
1. Emergencia
2. Amenazas
3. Catastro
4. Respuesta
5. Noticias de Personas
6. Comercio Abierto
Services
Theft
Ubicación precisa
Enlace a fuente de Noticias
Información Opcional
4
2
4
515
65
559
Santiago
Mendoza
Córdoba
Rosario
Argentina
Scale = 1 : 14M
-69.03809, -27.60567
EPSG:900913
200 km
200 mi
Scale = 1 : 7M
55 / 40

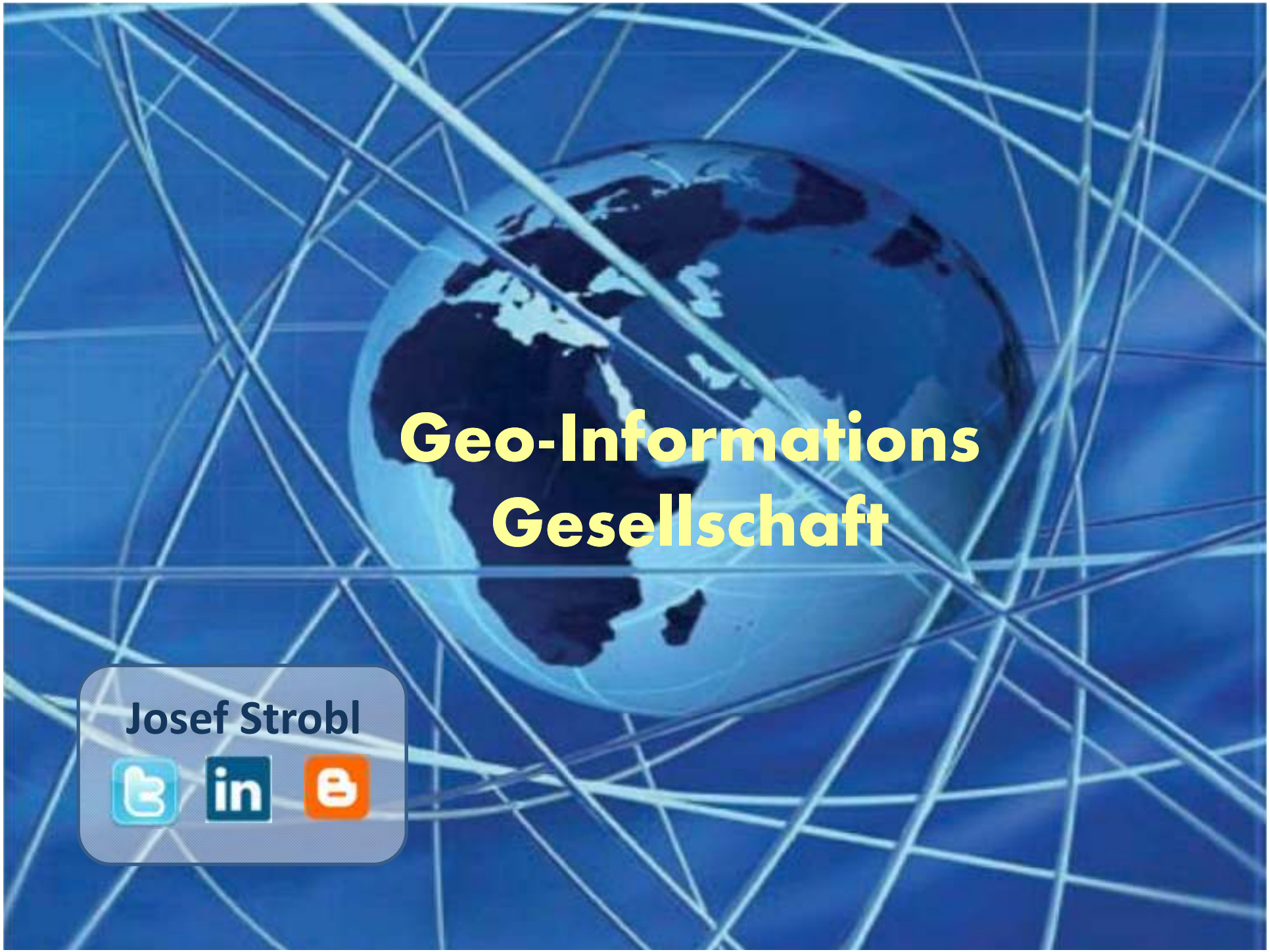
Sensors, Sensors Everywhere

Digital ‚Skin‘ of our planet

.. über den Wald und die Bäume






Geo-Informations
Gesellschaft
Josef Strobl

Geoinformatik interdisziplinär – Mehrwert der räumlichen Perspektive