



Finished and running projects

Running Projects

ID	Running Projects
34	<p>Acronym: SELINA</p> <p>Title: Science for Evidence-based and sustainable decisions about NATural capital</p> <p>Duration: 06/2022 – 05/2027</p> <p>Programme: Horizon Europe (RIA)</p> <p>Total Budget: 12.999.523,00 EUR</p> <p>Uni Salzburg Budget: 222.500,00 EUR</p> <p>Personal role: Z_GIS project manager</p>
33	<p>Acronym: SMART Biking</p> <p>Title: A synthesis of Geoinformatics, Sports and Environmental Protection</p> <p>Duration: 01/2022 –</p> <p>Programme: non-financed (Third Mission)</p> <p>Total Budget: 0,00 EUR</p> <p>Uni Salzburg Budget: 0,00 EUR</p> <p>Personal role: PI</p>

Finished Projects

ID	Finished Projects
32	<p>Acronym: SalzBike</p> <p>Title:</p> <p>Duration: 08/2022 – 11/2022</p> <p>Programme: Federal State of Salzburg Funding</p> <p>Total Budget: 10.000,00 EUR</p> <p>Uni Salzburg Budget: 10.000,00 EUR</p> <p>Personal role: Z_GIS project manager</p>
31	<p>Acronym: OMAA</p> <p>Title: Automatisierung in der Verarbeitung von Umweltdaten in Echtzeit</p> <p>Duration: 02/2018 – 11/2018</p> <p>Programme: OMAA</p> <p>Total Budget: 4.768,00 EUR</p> <p>Uni Salzburg Budget: 3.000 EUR</p> <p>Personal role: PI, Z_GIS project manager</p>
30	<p>Acronym: ESMERALDA</p> <p>Title: Enhancing ecosystem sERvices mApping for poLicy and Decision mAking (Link)</p> <p>Duration: 02/2015 – 08/2018 (42 month)</p> <p>Programme: Horizon 2020</p> <p>Total Budget: 2.000.000 EUR</p> <p>Uni Salzburg Budget: 75.000 EUR</p> <p>Personal role: PI, Z_GIS project manager</p> <p>Summary: Mapping and assessment of ecosystems and their services are core to the EU Biodiversity Strategy. Both are essential to perform informed decisions. ESMERALDA aims to deliver a flexible methodology for pan-European and regional assessments. This methodology will build on existing ES projects and databases (e.g. MAES, OpenNESS, OPERAs, national studies), the Millennium Assessment (MA) and TEEB. The objective of ESMERALDA is to share experience through an active process of dialogue and knowledge co-creation. The mapping approach proposed will integrate biophysical, social and economic assessment techniques. The work will exploit expert- and land cover-based methods, existing ES indicator data and more complex ES models. As a result, the outcomes will be applicable in different contexts. The strength of the ESMERALDA consortium lies in its ability to make solutions for mapping and assessment problems available to stakeholders from the start of the project, because our expertise allows us to build on existing research projects and data sharing systems.</p>

ID	Finished Projects
29	<p>Acronym: SMART (proposal submission: 07.04.2011)</p> <p>Title: Smart Characterisation of New Zealand's Aquifers</p> <p>Duration: 07/2011 – 06/2017 (72 month)</p> <p>Programme: New Zealand Research and Innovation Fund, MBIE</p> <p>Total Budget: 1,28 mio NZ\$ (0,75 mio EUR) per year 8,80 mio NZ\$ (5,0 mio EUR) total</p> <p>Uni Salzburg Budget: 175.000 NZ\$ (~ 100.000 EUR) per year 1.050.000 NZ\$ (600.000 EUR) total</p> <p>Personal role: PI, Z_GIS project manager; WP leader</p> <p>Summary: This project will identify, develop, apply, validate and optimise a suite of novel methods for accurate, rapid and cost-effective characterisation and mapping of New Zealand's aquifer systems. By 2017, the outputs from the research programme will be used nationally by stakeholders such as regional authorities and will lead to better understanding of key aquifer systems. By 2020, national adoption of outputs from the research programme will have led to a demonstrable improvement in the management of groundwater and interconnected surface water systems. Z_GIS will set-up an operational Sensor Observation Service in order to validate remote sensing applications done by partner institutions. Based on a harmonized Spatial Data Infrastructure of hydrological datasets a 3D WebGIS will be set-up and operating as a Decision Support System for New Zealand's stakeholders which a part of the project.</p>

ID	Finished Projects
28	<p>Acronym: GeoSPS</p> <p>Title: Geo-enabled smart processes and services</p> <p>Duration: 08/2014 – 07/2016 (24 month)</p> <p>Programme: FFG Qualifizierungsnetze</p> <p>Total Budget: 450.000 EUR</p> <p>Uni Salzburg Budget: 245.000 EUR</p> <p>Personal role: contribution to work package 1 "Location aware Sensors"</p> <p>Summary: In Geo-enabled smart processes and services - GeoSPS erarbeiten zwei führende wissenschaftliche Einrichtungen der Geoinformatik maßgeschneiderte Qualifizierungsangebote für österreichische Unternehmen. Geoinformatik hat sich in den letzten Jahren als wesentlicher Wirtschaftszweig in der angewandten IKT etabliert. Effizienz in Suchfunktionen, Entscheidungsprozessen, in Potential- und Risiko-abschätzungen, aber auch Industrie 4.0-Anwendungen basieren zunehmend auf GIS-Werkzeugen und machen diese zu Querschnittstechnologien. Durch den Aufbau eines Wissens- und Methodenpools, durch Innovationslehrveranstaltungen und durch die Entwicklung von Prototypen und Demonstratoren, soll die nachweislich exzellente Geoinformatik-Forschung am Standort Salzburg wirtschaftlich erschlossen werden. Gegenstand des Transfers sind Lösungen, die im GeoInnoLab entwickelt werden und in der Wirtschaft wertschöpfend eingesetzt werden. Diese basieren auf raum-zeitlichen Konzepten und Technologien von GIS-Systemen und dem Einsatz von virtuellen Globen und integrierenden Methoden der Geoinformatik. Neun Themen basieren als gemeinsamer Nenner auf raum-zeitlichen Sensormessungen und Objektpositionen und Geometrien (AP1-3, Location aware Sensors, Outdoor/Indoor Positioning, Bildanalyse /Pointcloud2object,), deren Modellierung, Visualisierung und Qualitätsbeschreibung in Prozessen (AP4-6 Augmented Reality Contextual quality assurance, Webportale für 3D-Anwendungen), sowie neuartige Möglichkeiten deren Analyse und weiterführender Simulation (AP7-9 Big Data, Open Geo-Content, Open Standards, Open Data, Building Information Models). Die Unternehmen zielen auf die Vorbereitung von „Industrie 4.0-Zukunft“ mit einem Schwerpunkt auf Integrationsmöglichkeiten kontextueller Informationen (raum-zeitlich-logisch) über standardisierte Modellierung und standardisierte technische Schnittstellen. Dies umfasst auch Standards- und Normen, gesetzliche Rahmenbedingungen sowie Standardisierungsbestrebungen für Geodaten (OGC, ISO).</p>
27	<p>Acronym: OMAA</p> <p>Title: Interdisziplinäre Ausbildung auf Basis von computergestützter hydrologischer Modellierung und praxisnaher Anwendung von Umweltsensorik</p> <p>Duration: 07/ 2014 – 01/2015 (10 month)</p> <p>Programme: OMAA</p> <p>Total Budget: 2.800 EUR</p> <p>Uni Salzburg Budget: 400 EUR</p> <p>Personal role: PI, Z_GIS project lead</p>

ID	Finished Projects
26	<p>Acronym: YouthMap 5020</p> <p>Title: Integrating GIS Use in Education in Several Subjects</p> <p>Duration: 05/2013 – 10/2014 (18 month)</p> <p>Programme: FFG Regional Talente</p> <p>Total Budget: 59.900 EUR</p> <p>Uni Salzburg Budget: 58.900 EUR</p> <p>Personal role: Z_GIS staff member</p>
25	<p>Acronym: ThermoMap</p> <p>Title: Area mapping of superficial geothermic resources by soil and groundwater data (Link)</p> <p>Duration: 01/2012 – 12/2014 (36 month)</p> <p>Programme: FP7-ICT Policy Support Programme</p> <p>Total Budget: 1,9 mio EUR</p> <p>Uni Salzburg Budget: 224.915 EUR</p> <p>Personal role: Z_GIS project manager; WP leader</p> <p>Summary: The ThermoMap project focusses on mapping the potential of very shallow geothermal energy in Europe. Very shallow geothermal energy within the first 10m below the earth surface is predominantly influenced by solar energy input and thus belongs to the renewable energy resources. Variations of air and soil temperature and heat flow in low depths are controlled by external variables like effective sun radiation, distribution of rainfall and infiltration processes based on site-specific soil conditions. This energy resource can be best exploited in the saturated and unsaturated zone of the unconsolidated rock zone where easy access to the underground is possible. The ThermoMap project will harmonise and analyse already existing data collections (geological, hydrogeological, soil, climate, land use/land cover and relief geodata) with standardised methods to calculate a value for the geothermal potential on three different low depth levels in order to help finding favourable areas for superficial geothermal exploitation in a very short time and without high costs. The resulting geothermal potential values will be integrated in an Open Source WebGIS as well as all necessary geodata. The 12 participating project partners of 9 EU member states will define an exemplary test area in each country. For these nine test areas, the geodata and calculated geothermal potential values will be shown on cadastral parcel level, while for the entire EU area there will be created a shallow geothermal potential overview map in scale 1:250 000.</p>

ID	Finished Projects
25	<p>Acronym: C3-Alps</p> <p>Title: Capitalising Climate Change Knowledge for Adaptation in the Alpine Space (Link)</p> <p>Duration: 01/2012 – 12/2014 (36 month)</p> <p>Programme: Interreg IVb, Alpine Space Programme</p> <p>Total Budget: 3,1 mio EUR</p> <p>Uni Salzburg Budget: 222.396 EUR</p> <p>Personal role: PI, Z_GIS project manager; WP leader</p> <p>Summary: C3-Alps will synthesize, transfer and implement in policy and practice results of previous Alpine Space projects on climate change adaptation. The capitalisation approach aims at a) generating new and directly usable forms of state-of-the-art synthesis adaptation knowledge in the Alps, harmonised across sectors and useful to adaptation decision-makers, b) its effective and tailor-made communication and transfer to target groups, c) enhancing effectiveness of adaptation policy and governance frameworks, and d) initiating, supporting and pioneering tailored and cross-cutting adaptation processes, strategies, action plans and decision support in pilot regions and municipalities. To leverage sustainable impacts, the project will be driven by the information and user needs of target groups. By supporting bottom-up action, C3-Alps will contribute to implementation of national adaptation policies on regional and municipal levels and to advancement of national adaptation strategies.</p>
24	<p>Acronym: RainHeater</p> <p>Title: Energieautarke Erfassung von Winterniederschlägen über einen umweltangepassten Heizmechanismus</p> <p>Duration: 07-09/2014 (3 month)</p> <p>Programme: FFG Talente</p> <p>Total Budget: 1.000 EUR</p> <p>Uni Salzburg Budget: 300 EUR</p> <p>Personal role: PI, Z_GIS project lead</p>
23	<p>Acronym: SnowCam</p> <p>Title: Echtzeiterfassung von Schneefall und Schneebedeckung im Einzugsgebiet Koppl</p> <p>Duration: 07-09/2014 (3 month)</p> <p>Programme: FFG Talente</p> <p>Total Budget: 2.000 EUR</p> <p>Uni Salzburg Budget: 600 EUR</p> <p>Personal role: PI, Z_GIS project lead</p>
22	<p>Acronym: SenSecure</p> <p>Title: Sicherung öffentlich zugänglicher Umweltsensoren gegen Vandalismus und Beeinträchtigung durch Tiere</p> <p>Duration: 07-09/2014 (3 month)</p> <p>Programme: FFG Talente</p> <p>Total Budget: 2.000 EUR</p> <p>Uni Salzburg Budget: 600 EUR</p> <p>Personal role: PI, Z_GIS project lead</p>

ID	Finished Projects
21	<p>Acronym: PromoDGM</p> <p>Title: Prognosemodelle aus Geländemolldaten</p> <p>Duration: 04/2008 - 12/2011 (36 + 8 month)</p> <p>Programme: Interreg IVa</p> <p>Total Budget: 2.000.000 EUR</p> <p>Uni Salzburg Budget: 35.000 EUR</p> <p>Personal role: PI, Subcontractor</p> <p>Summary: Cross-border LIDAR datasets are processed towards a uniform cross border standard in the area of Salzburg, Tirol and Bavaria. Forecasting and simulation models include exact digital elevation models to estimate the heights of trees and the spatial change of available snow based on further climate datasets from past and future. A cross-border use of forecasting and simulation models is ensured by developing a solid modelling environment to be used with the uniform datasets derived.</p>
20	<p>Acronym: CliChaMoR (proposal submitted 11.03.2011)</p> <p>Title: Climate Change in Mountain Regions: meta-disciplinary impacts, causes, consequences and mitigation and adaptation strategies</p> <p>Duration: 09/2011 – 08/2012</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 35.000 EUR</p> <p>Uni Salzburg Budget: 7.000 EUR + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>
19	<p>Acronym: EnviSDI II</p> <p>Title: Spatial Data Infrastructure for environmental datasets</p> <p>Duration: 10/2010 – 09/2011</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 27.000 EUR</p> <p>Uni Salzburg Budget: 7.000 + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>
18	<p>Acronym: GISLERS III</p> <p>Title: Bridging GIS, Landscape Ecology and Remote Sensing for Landscape Planning</p> <p>Duration: 09/2010 – 08/2011</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 31.000 EUR</p> <p>Uni Salzburg Budget: 7.000 EUR + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>

ID	Finished Projects
17	<p>Acronym: NatureSDIplus</p> <p>Title: Best Practice Network for SDI in Nature Conservation</p> <p>Duration: 10/2008 - 03/2011 (30 month)</p> <p>Programme: eContentplus</p> <p>Total Budget: 2.700.000 EUR</p> <p>ÖAW Budget: 127.000 EUR</p> <p>Personal role: PI, Project collaborator</p> <p>Summary: NatureSDIplus was an eContentplus Best Practice Network for SDI in Nature Conservation. The main objective of the project is to improve harmonisation of national datasets and make them more accessible and exploitable, with reference to a cluster of data themes on nature conservation, like protected sites, biogeographical regions, habitats and biotopes or species distribution.</p>
16	<p>Acronym: Alp-Water-Scarce</p> <p>Title: Water Management Strategies against Water Scarcity in the Alps</p> <p>Duration: 10/2008 - 09/2011 (36 month)</p> <p>Programme: Interreg IVB (Alpine Space)</p> <p>Total Budget: 2.800.000 EUR</p> <p>Uni Salzburg Budget: 153.000 EUR</p> <p>Personal role: PI, Project collaborator</p> <p>Summary: The main challenges of this project are to create local Early Warning Systems against Water Scarcity in the Alps based on sound and perennial monitoring and modelling and anchored strongly and actively within a Stakeholder Forum linked across comparative and contrasting regions across the Alps. The Early Warning System is based on the linkage and improvement of field monitoring and assemblage of qualitative and quantitative data derived from anthropogenic water use in selected pilot regions in France, Italy, Austria, Slovenia and Switzerland. The aims are to implement water management at the short-term (annual) scale as well as the long term (future scenarios) scale based on modelling under climate change and anthropogenic scenarios. Future water shortages should be prognosed and prevented by innovative measures of mitigation and adaptation. Awareness raising and stakeholder interaction will form an important part of problem identification, participation in the project, dissemination of results and implementation of new approaches.</p>

ID	Finished Projects
15	<p>Acronym: GS Soil</p> <p>Title: Assessment and strategic development of INSPIRE compliant Geodata-Services for European Soil Data (Link)</p> <p>Duration: 06/2009 - 05/2012 (36 month)</p> <p>Programme: eContentplus</p> <p>Total Budget: 4.100.000 EUR</p> <p>Uni Salzburg Budget: 210.000 EUR</p> <p>Personal role: PI, WP leader</p> <p>Summary: The project GS Soil aims at establishing a European network to improve the access to spatial soil data for public sector bodies, private companies and citizens. The project will consider aspects of data organisation, data harmonisation as well as semantic and technical interoperability in order to produce seamless geospatial information and to improve the data access for a wide community of different user groups.</p>
14	<p>Acronym: Freshwater Sandpit</p> <p>Title: Delivering a Sustainable Future for Freshwater Resources</p> <p>Duration: 03/2011</p> <p>Programme: FP7 Programme FRENTZ</p> <p>Total Budget: 3.000 EUR</p> <p>Uni Salzburg Budget: 3.000 EUR</p> <p>Personal role: PI, Project manager; grant recipient</p>
13	<p>Acronym: Contact visit in Kiel, Germany</p> <p>Title: Proposal preparation fund to ensure successful collaboration</p> <p>Duration: 12/2010</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 750 EUR</p> <p>Uni Salzburg Budget: 750 EUR</p> <p>Personal role: PI, Overall project coordinator</p>
12	<p>Acronym: Water Scarcity II</p> <p>Title: Analysing, mapping and evaluating spatio-temporal water scarcity problems</p> <p>Duration: 10/2010 – 09/2011</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 34.000 EUR</p> <p>Uni Salzburg Budget: 7.000 EUR + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>
11	<p>Acronym: EnviSDI I</p> <p>Title: Spatial Data Infrastructure for environmental datasets</p> <p>Duration: 10/2009 – 09/2010</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 30.000 EUR</p> <p>Uni Salzburg Budget: 6.500 EUR + incoming fees from participants</p> <p>Personal role: Overall project coordinator</p>

ID	Finished Projects
10	<p>Acronym: GISLERS II</p> <p>Title: Bridging GIS, Landscape Ecology and Remote Sensing for Landscape Planning</p> <p>Duration: 09/2009 – 08/2010</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 31.000 EUR</p> <p>Uni Salzburg Budget: 6.500 EUR + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>
09	<p>Acronym: Water Scarcity I</p> <p>Title: Analysing, mapping and evaluating spatio-temporal water scarcity problems</p> <p>Duration: 10/2009 – 09/2010</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 35.000 EUR</p> <p>Uni Salzburg Budget: 6.500 EUR + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>
08	<p>Acronym: GISLERS I</p> <p>Title: Bridging GIS, Landscape Ecology and Remote Sensing for Landscape Planning</p> <p>Duration: 09/2008 – 08/2009</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 32.000 EUR</p> <p>Uni Salzburg Budget: 7.000 EUR + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>
07	<p>Acronym: ENERegion III</p> <p>Title: Regional Potentials for Renewable Energy Generation</p> <p>Duration: 09/2008 – 08/2009</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 30.000 EUR</p> <p>Uni Salzburg Budget: 7.000 EUR + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>
06	<p>Acronym: ENERegion II</p> <p>Title: Regional Potentials for Renewable Energy Generation</p> <p>Duration: 09/2007 - 08/2008</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 28.000 EUR</p> <p>Uni Salzburg Budget: 7.000 EUR + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>

ID	Finished Projects
05	<p>Acronym: GMOSS</p> <p>Title: Global Monitoring of Security and Stability</p> <p>Duration: 03/2004 - 02/2008 (48 month)</p> <p>Programme: FP6</p> <p>Total Budget: 3.000.000 EUR</p> <p>Uni Salzburg Budget: 350.000 EUR</p> <p>Personal role: Project collaborator</p>
04	<p>Acronym: ENERegion I</p> <p>Title: Regional Potentials for Renewable Energy Generation</p> <p>Duration: 10/2006 - 09/2007</p> <p>Programme: ERASMUS Lifelong Learning, Intensive Programme</p> <p>Total Budget: 29.000 EUR</p> <p>Uni Salzburg Budget: 7.000 EUR + incoming fees from participants</p> <p>Personal role: PI, Overall project coordinator</p>
03	<p>Acronym: BrahmaTWinn</p> <p>Title: Twinning European and South Asian River basins to enhance capacity and implement adaptive integrated water resources management approaches</p> <p>Duration: 06/2006 - 05/2009 (36 month)</p> <p>Programme: FP6</p> <p>Total Budget: 2.900.000 EUR</p> <p>Uni Salzburg Budget: 250.000 EUR</p> <p>Personal role: Project collaborator</p> <p>Summary: Enhancing and improving capacity to carry out a harmonised integrated water resources management (IWRM) approach as addressed by the European Water Initiative in headwater river systems of alpine mountain massifs in respect to impacts from likely climate change, and to transfer professional IWRM expertise, approaches and tools based on case studies carried out in twinning European and Asian river basins. It will be realized by holistic case studies carried out in two twinning macro-scale basins: 1) the Upper Danube River Basin (UDRB) in Europe, and 2) Upper Brahmaputra River Basin (UBRB) in Southeast Asia.</p>
02	<p>Acronym: SeenLandWirtschaft</p> <p>Title: Nachhaltige Landwirtschaft in der euRegionalen Seenlandschaft</p> <p>Duration: 01/2004 - 12/2007 (48 month)</p> <p>Programme: Interreg IIIa</p> <p>Total Budget: 960.000 EUR</p> <p>Uni Salzburg Budget: 75.000 EUR</p> <p>Personal role: PI, Z_GIS project manager#</p> <p>Summary: Sustainable agriculture in the EU-regional lake area. Pilot project to secure and maintain the ecological and economic functioning of the Bavarian-Austrian pre-alpine Lake District.</p>

ID	Finished Projects
01	<p>Acronym: SPIN</p> <p>Title: Spatial Indicators for European Nature Conservation (Link)</p> <p>Duration: 04/2001 - 03/2004 (36 month)</p> <p>Programme: FP5</p> <p>Total Budget: 2.550.000 EUR</p> <p>Uni Salzburg Budget: 280.000 EUR</p> <p>Personal role: Project collaborator</p> <p>Summary: The projects developed and tested an Earth Observation based spatial explicit indicator System in order to support monitoring and management for protected sites. We achieved an advancement of know-how in satellite image processing, and in using them in decision – making, testing of an indicator system in a wetland area and provided a proposal of indicators to be used in monitoring and reporting. Actions and activities were dedicated to the development of standard Earth observation and geodata products, development of advanced classification methods, development and testing of indicators, GIS developments, and regional applications, including CD-ROM with information, policy implications and customer involvement.</p>

This list is maintained on the website <https://www.hermannklug.com>.