

# SCADA::GIS

## BRIDGEing Industrial Control and Geographic Information Systems in Near-Real-Time using open Standards

### CHALLENGE

Geographic information and its application - for example, in navigation or in the social web - has become an essential part of today's information society. Increasingly important, apart from the classical geo levels, is to recognize the cross and cross-domain integration of current sensor data and subjective ratings (people as sensors) as an essential added value for information and monitoring systems - in the areas of environmental monitoring, traffic management, management and building services, and many other application fields.

### GOAL

The goal is a system architecture for technical and semantic coupling of sensor measurement data in the context of the research project SCADA::GIS - to define the outline criteria space and context for integration into an intelligent (geo-) IT infrastructure - from the application areas of SCADA and GIS. Based on the architecture used with the company involved in the research project, a prototypical technical implementation is validated using a concrete application scenario.

### SOLUTION

The project proposal is aimed at making the development of generic SOA building blocks for the mutual integration of spatial information in geographical information SCADA tools (for further processing and visualization), and for the integration of spatial data into SCADA systems. In contrast to existing approaches to perform this integration proprietary, the project team has the goal of using standardized service interfaces, such as OPC UA that have prevailed in the SCADA domain in the last two or three years, with a slack, generalized coupling of several components between these two applications in a service-oriented architecture.

#### PROJECT OVERVIEW

##### INSTITUTION

Research Studios Austria Forschungsgesellschaft mbH  
University of Applied Sciences Salzburg  
COPA-DATA GmbH  
SYNERGIS Informationssysteme GmbH

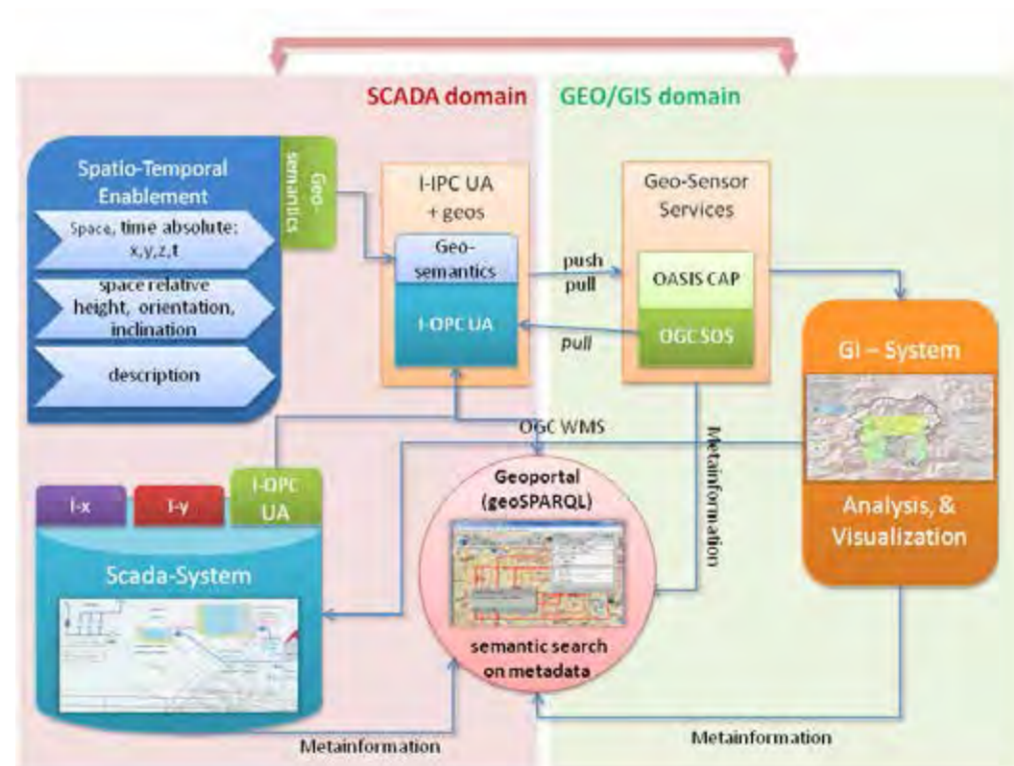


#### TYPE OF PROJECT

FFG Coin  
Period: 2012-2014

#### WANT TO KNOW MORE

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SCADA::GIS Prototype

