

## Proposal for pre-conference workshop – AGILE 2017 Wageningen, Tuesday 9 May 2017

<http://www.agile-online.org/index.php/conference/conference-2017>

### 1. Workshop name/title (and acronym is applicable)

Event-based Dissemination and Processing of Geospatial Information

### 2. Description of the workshop by listing topic(s), objective(s) and planned outcome(s)

#### 2.1 Topic(s)

- Handling events in Sensor Web infrastructures
- Event processing of spatio-temporal information
- Publish/Subscribe patterns in Spatial Data Infrastructures
- IoT applications in the geospatial domain
- Applying mainstream IT eventing technologies in Geo-IT applications

#### 2.2 Objective(s)

- Gather an overview on event-based approaches for providing and processing geospatial information
- Identify relevant application domains and use cases
- Identify patterns for eventing in spatial data infrastructures and architectures
- Identify and discuss current research topics

#### 2.3 Planned outcome(s)

- Joined report of participants on current state of event-based approaches for geospatial information provision and processing including a research agenda

### 3. Abstract

*Event-based architectures are more and more used in various mainstream IT applications including the financial sector or large scale IoT applications. However, the geospatial*

*domain, especially spatial data infrastructures, often rely on the traditional Web Service pattern (request/response pattern). This workshop aims to discuss the potential of event-based architectures in geospatial applications (e.g. disaster management, environmental monitoring, or public security) and to set up a corresponding research agenda. Therefore, the first part of the workshop will consist of invited expert talks on event-based technologies and applications. Based on these inputs, several topics of interest will be identified and discussed in break-out groups in the afternoon. In a final session, the results of the break-out groups will be gathered and discussed to serve as input for a summarizing report.*

#### **4. Short description of the intended length (half or full day) and the format of the workshop**

Full day workshop consisting of two morning sessions for invited talks to gather an overview on state-of-the-art technologies and applications. The afternoon will be used for breakout-sessions for discussion of specific topics. The day will be closed by a final session with presentation and discussion of results.

#### **5. Brief statement of the relevance of the workshop for AGILE**

Event-based dissemination and processing of geospatial information is highly relevant for the following general conference topics:

- Big Spatial Data: Analysis and Visualization
- Spatiotemporal Data Acquisition, Modelling, and Analysis
- Model Web, Geospatial Workflows and Service Composition
- Geosensors Networks and Sensor Web
- Spatial Data Infrastructures: Data and Service Sharing
- Future Internet, Ubiquitous Web and Geographic Information Systems
- Natural Resources Management and Monitoring
- Disaster and Risk Management

#### **6. What is the approximate number of expected participants?**

30

#### **7. Names and e-mail addresses of the organizing member(s)**

*Workshop Organizers:*

- Simon Jirka, 52°North GmbH, [s.jirka@52north.org](mailto:s.jirka@52north.org)
- Albert Remke, ESRI Germany, [a.remke@esri.de](mailto:a.remke@esri.de)
- Matthes Rieke, 52°North GmbH, [m.rieke@52north.org](mailto:m.rieke@52north.org)
- Christoph Stasch, 52°North GmbH, [c.stasch@52north.org](mailto:c.stasch@52north.org)

- *Andreas Wytzisk, University of Applied Sciences Bochum, [a.wytzisk@hs-bochum.de](mailto:a.wytzisk@hs-bochum.de)*

*Contributing AGILE members (including the persons involved) – at least one seconding AGILE member is needed:*

- *Alexander Kotsev, JRC, Ispra, [alexander.kotsev@jrc.ec.europa.eu](mailto:alexander.kotsev@jrc.ec.europa.eu)*
- *Lars Bernard, Technische Universität Dresden, [Lars.Bernard@tu-dresden.de](mailto:Lars.Bernard@tu-dresden.de)*

#### **8. Additional information about previous workshops, if held.**

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#### **9. Expected resources needed**

- *internet connection*
- *projector*
- *room with 30 seats*
- *room(s) for break-out sessions in the afternoon*

#### **10. Other information**

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Submission by e-mail to: [Agile2017@wur.nl](mailto:Agile2017@wur.nl)