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
- Albert Remke, ESRI Germany, a.remke@esri.de
- Matthes Rieke, 52°North GmbH, m.rieke@52north.org
- Christoph Stasch, 52°North GmbH, c.stasch@52north.org
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