INTERACT GIS

Task 3.6 of the INTERACT Station Managers’ Forum

Introduction to INTERACT GIS Workshop

The current INTERACT GIS team:

Britta Löfvenberg:
IT-leader at ICT Services and System Development, Umeå University, Sweden (UmU ITS)

Per Hörnblad:
IT-architect at UmU ITS

Anders Printz:
System developer at UmU ITS

Lisa Hörnberg:
System developer at UmU ITS

Elmer Topp-Jørgensen and Marie Frost Arndal:
PI’s, INTERACT

Ulf Jonsell:
PI, SITES

Tomas Thierfelder:
PI of INTERACT GIS work-task, Swedish University of Agricultural Sciences, Uppsala branch, Sweden (SLU-ET)

In collaboration with INTERACT and SITES stations
INTERTACT GIS
Task 3.6 of the INTERACT Station Managers’ Forum
Introduction to INTERTACT GIS Workshop

Agenda for today:

Time-slot 13:50 – 15:30 = 1 hour and 40 minutes

1. The current status of INTERACT GIS
   INTERACT GIS in a nutshell
   The processing of personal information
   Legal structures
   Autonomous system management
   Suggestive managerial structures

2. In-plenary discussions
   Why use INTERACT GIS?
   EU GDPR (general data protection regulation) for all!
   Nation-wise station representation in the INTERACT GIS management board?
   Other issues?
   Suggestions for (nation-wise) INTERACT GIS management-board members?

3. Connecting stations to INTERACT GIS
   Here and now!
   First connection into "catalogue mode", then GDPR
   Please line up!!

In collaboration with
INTERACT and SITES stations
INTERACT GIS

In a nutshell

INTERACT GIS: A web-based Geographic Station Management System:

➢ Two sides to INTERACT GIS:

✓ Usage **without** processing personal information
  • Station catalogue
  • Public investigations regarding stations and station activities
  • Public investigations of publications
    o Provided that you **equip** INTERACT GIS with adequate information
    o The system is **fully editable** at the station level of privileges
  • Etc., etc.

✓ Usage that **involves** the processing of personal information
  • Collecting, storing, processing and disseminating personal information
  • Allows real-time **management** of station visitors and activities
  • Totally **geo-referenced** with map-based interface
  • Operates **across** stations
    • A project may consist of activities spread across **multiple stations**
  • Etc., etc.
INTERACT GIS
Publicly available functionalities

INTERACT Research and Monitoring
This site provides geo-referenced metadata regarding research and monitoring activities performed under the auspices of Arctic Research Stations.

The stations in INTERACT host thousands of scientists from around the world who work on projects within the fields of glaciology, permafrost, climate, ecology, biodiversity and biogeochemical cycling. The INTERACT stations also host and facilitate many international single-discipline networks and aid training by hosting summer schools.

Explore Stations...
Visit INTERACT research stations

Explore Monitoring...
View monitoring details and links to data

Explore Research...
Explore more than 2000 research projects

Apply to do research...
Online application to visit stations
INTERACT GIS

Top-level application form

CREATE APPLICATION

APPLICATION FORM

Organization
INTERACT and SITES organisation

First name
Applicant first name

Surname
Applicant surname

Email
eg. xyz@place.org

Name & invoice address
Name and address

VAT registration number
XYZ123456

Principal investigator
Logged in user

Terms & Conditions
I agree to the terms & conditions

Type of application
Project

Long title:

Conference or workshop

Institution address

Conference or workshop

Academic degree

Nationality

Mobile

Phone

COURSE OR EDUCATION
All courses where the last signup date has not passed yet are listed.

CONFERENCE OR WORKSHOP
All conferences where the last signup date has not passed yet are listed.

APPLICATION DEADLINE!
Research applications should be made prior to the station's application deadline for visits during the current field season. See Terms & conditions for more information.
## APPLICATIONS

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# APPLICATIONS

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<td>LOREX Limnology and Oceanography Research Exchange</td>
<td>David Seekell <a href="mailto:david.seekell@umu.se">david.seekell@umu.se</a> Department of Ecology and Environmental Science Umeå University SE- 901 87 Umeå, Sweden</td>
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INTERACT GIS

The processing of personal information

EU’s General Data Protection Regulation GDPR
https://gdpr-info.eu/:

✓ Generally forbidden to “process” personal data
  • If you don’t follow the very extensive stipulations of GDPR
    o “Processing” means collecting, storing, inferring, disseminating, etc.
  • GDPR turns system development into “a sea of legalities”
    o Particularly if you process personal data on behalf of someone else
    o Big issue around the EU to turn older systems into GDPR compliance

✓ When used in “administrative mode”, INTERACT GIS is intensely processing personal data
  • Stations are the legal owners of their respective batches of personal data
    o With full GDPR responsibility
  • SLU is the legal owner of INTERACT GIS
    o That process personal data on behalf of the owner stations
  • SLU is delegating parts of its GDPR responsibilities to the operator, UmU ITS
    o Controller, processor, and sub-processor
  • The delegation from controller stations is regulated in the INTERACT GIS Data Processing Agreement (DPA)
**INTERACT GIS**

**Legal structures**

**GDPR assumes well-defined legal structures**

- **The system roles** of controller, processor, and sub-processor
  - The respective legal **ownership** of data, the processing system, and storage space
    - Stations, SLU, and UmU ITS
    - Without them, you cannot have GDPR!

- **When connected to INTERACT GIS as a station manager**
  - You have the **free option** of switching back and forth between user modes
    - And am, hence, a **potential controller**
  - Therefore, every user need to sign the INTERACT GIS DPA
    - Regardless of your intended user mode
  - Since the processor is situated in the EU
    - Stations need to sign the INTERACT GIS DPA regardless their nationality
    - Whether or not it is legally necessary
      - The system owner decides

- **Normally you first sign the DPA, then we’ll connect you**
  - An electronic signature administrated via Adobe Sign
  - But at this workshop we’ll do it the other way around
    - And let you into “catalogue mode”
    - Until you’ve signed the DPA
INTERACT GIS
Autonomous system management

INTERACT GIS must be managed by the users themselves

✓ Constituting an autonomous management board
  • SLU will invite to a formal constituent meeting
    o Controllers, processors, sub-processors, and user organisations
    o Main thing that remains to be done with INTERACT GIS in INTERACT II

✓ Controller representation in the management board
  • Dictated by GDPR, controllers may be represented via “functional groups”
    o Basically, national grassroot representation is suggested?
    o Catches national legislation outside the EU
    o And with relatively southern “alpine stations” constituting a special group

✓ What does the management board do?
  • Ensuring the continuous coverage of operational costs
    o Marginal costs when split among user stations, current total around 1,600 EUR/yr.
    o A juridically valid account is required for operational invoicing
      o Perhaps at the INTERACT foundation?
  • Continue to evolve and adapt INTERACT GIS
    o Collaboratively prioritising development sprints
      o Including their financing
  • Etc., etc.
As part of constituting the INTERACT GIS management board

- SLU will pass over the processor role to UmU ITS,
- but will remain a consultant for as long as required,
- and, of course, maintain its intellectual ownership.
INTERACT GIS
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In-plenary discussions

2. In-plenary discussions
   • With notes taken
     ✓ Why use INTERACT GIS?
     ✓ EU GDPR (general data protection regulation) for all!
     ✓ Nation-wise station representation in the INTERACT GIS management board?
     ✓ Other issues?
     ✓ Suggestions for (nation-wise grassroot) INTERACT GIS management-board members?
INTERACT GIS

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Connecting stations to INTERACT GIS

3. Connecting stations to INTERACT GIS

✓ Please provide the names of stations and primary station managers!

• Here and now!

• First connection into “catalogue mode”, then GDPR

• Please line up!!

Thanks’ a lot, and Good Luck!!