

# 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



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# INTERACT GIS

## Task 3.6 of the INTERACT Station Managers' Forum

### Introduction to INTERACT 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

The logo features a stylized line-art map of a city skyline above the text 'INTERACT GIS'. The word 'INTER' is in a smaller font, followed by a symbol resembling a double-headed arrow or a plus sign, and then 'ACT' in a larger font, followed by 'GIS' in the largest font.

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# 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
      - Provided that you **equip** INTERACT GIS with adequate information
      - 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 GIS



STATIONS

RESEARCH

PUBLICATIONS

APPLICATION

ABOUT

Login

Sign Up

## 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...



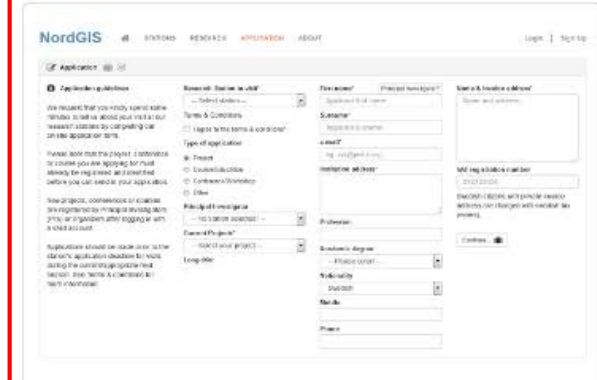
View monitoring details and links to data

## Explore Research...



Explore more than 2000 research projects

## Apply to do research...



Online application to visit stations

### CREATE APPLICATION

Application guide Application **Reservation** Confirmation

**ABOUT THE FORM**

**PROJECTS**  
To find your project you have to identify the Principal Investigator(PI) of your project first and then select from the list of his/her ongoing projects  
**Important!** Projects without a valid end year or not having been updated/saved since 06 September 2017 will NOT show up in the list. If so please login to InteractGIS and update your project.

**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.

### APPLICATION FORM

**Organization**  
INTERACT and SITES organisation: ▾

**Research Station to visit\***  
-- Select station -- ▾

Terms & Conditions  
 I agree to the terms & conditions\*

**Type of application**  
 Project  
 Course  
 Conference  
 Other

**Principal investigator**  
-- No station selected -- ▾

**Project\***  
-- No PI selected -- ▾

**Long title:**  
-

Principal investigator  Logged in user

**First name\***  
Applicant first name

**Surname\***  
Applicant surname

**Email\***  
eg. xyz@place.org

**Institution address\***

**Profession or Discipline**

**Academic degree**  
-- Please select -- ▾

**Nationality**  
-- Please select -- ▾

**Mobile**

**Phone**

**Name & invoice address\***  
Name and address

**VAT registration number**  
XYZ123456

Go back

Continue... ✓

# INTERACT GIS

## Administration of applications I



### APPLICATIONS

Year

Status

35 Applications

Applicant	Type	Reason for visit	Visitors	Arrival	Departure	Received
Chelsea Hintz		LOREX	1	2019-06-14	2019-08-04	2019-03-10
Chelsea Hintz		LOREX	1	2019-06-14	2019-08-04	2019-03-10
Maren Buth		Nuolja Phenology Project	1	2019-05-30	2019-09-01	2019-03-06
Maren Buth		Nuolja Phenology Project	1	2019-05-30	2019-09-01	2019-03-06
Katie Forrest		CIRC Internship Program 2019	1	2019-05-31	2019-07-31	2019-03-05
Mattias Dalkvist		Snowfence Storflaket	1	2019-03-04	2019-05-15	2019-03-05
Mikhail Maslov		SOCRATES	1	2019-07-13	2019-07-27	2019-03-04
Pierre Nassivera		CIRC Internship Program 2019	1	2019-07-01	2019-08-31	2019-03-04
Marina Louk		LOREX	1	2019-06-14	2019-08-04	2019-03-10

# INTERACT GIS

## Administration of applications II

### APPLICATIONS

Year: 2019 Status: Registered

**Applicant**  
Chelsea Hintz

**Invoice address**  
Umeå universitet PG 1099 737 84  
Fagersta Sweden (reference code 5100DSE)

**VAT number**  
SE202100287401

**Project**  
LOREX  
Limnology and Oceanography Research  
Exchange

**Principal investigator**  
David Seekell  
david.seekell@umu.se  
Department of Ecology and  
Environmental Science Umeå University  
SE- 901 87 Umeå, Sweden

Add reservation(s) for: [+ Applicant](#) [+ Course Organizer](#) [+ Other member](#) [+ Family](#)

Role	Full Name	Gender	Born	Arrival	Departure	Requirements	Modify	Delete
Applicant	Chelsea Hintz	Female	1990	2019-06-14	2019-08-04	Carex/Culex Housing CIRC project		

Add reservation(s) for: [+ Group](#)

Group	Women	Men	Arrival	Departure	Requirements
-					



# 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
    - “Processing” means collecting, storing, inferring, disseminating, etc.
  - GDPR turns system development into “**a sea of legalities**”
    - Particularly if you process personal data **on behalf of someone else**
    - **Big issue** around the EU to turn older systems into GDPR compliancy
- ✓ When used in “administrative mode”, INTERACT GIS is **intensely** processing personal data
  - **Stations** are the legal owners of their respective batches of personal data
    - With full GDPR responsibility
  - **SLU** is the legal owner of INTERACT GIS
    - That process personal data **on behalf of** the owner stations
  - SLU is delegating parts of its GDPR responsibilities to the operator, **UmU ITS**
    - **Controller, processor, and sub-processor**
  - The **delegation** from controller stations is regulated in the INTERACT GIS **Data Processing Agreement (DPA)**

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# 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



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# 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**
    - Controllers, processors, sub-processors, and user organisations
    - **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”
    - Basically, **national grassroots representation** is suggested?
    - Catches **national legislation** outside the EU
    - And with relatively southern “alpine stations” constituting a special group
- ✓ What does the management board **do**?
  - Ensuring the continuous coverage of **operational costs**
    - **Marginal** costs when split among user stations, current **total** around 1,600 EUR/yr.
    - A juridically valid account is required for operational invoicing
      - Perhaps at the **INTERACT foundation**?
  - Continue to **evolve and adapt** INTERACT GIS
    - **Collaboratively prioritising** development sprints
      - Including their **financing**
  - Etc., etc.



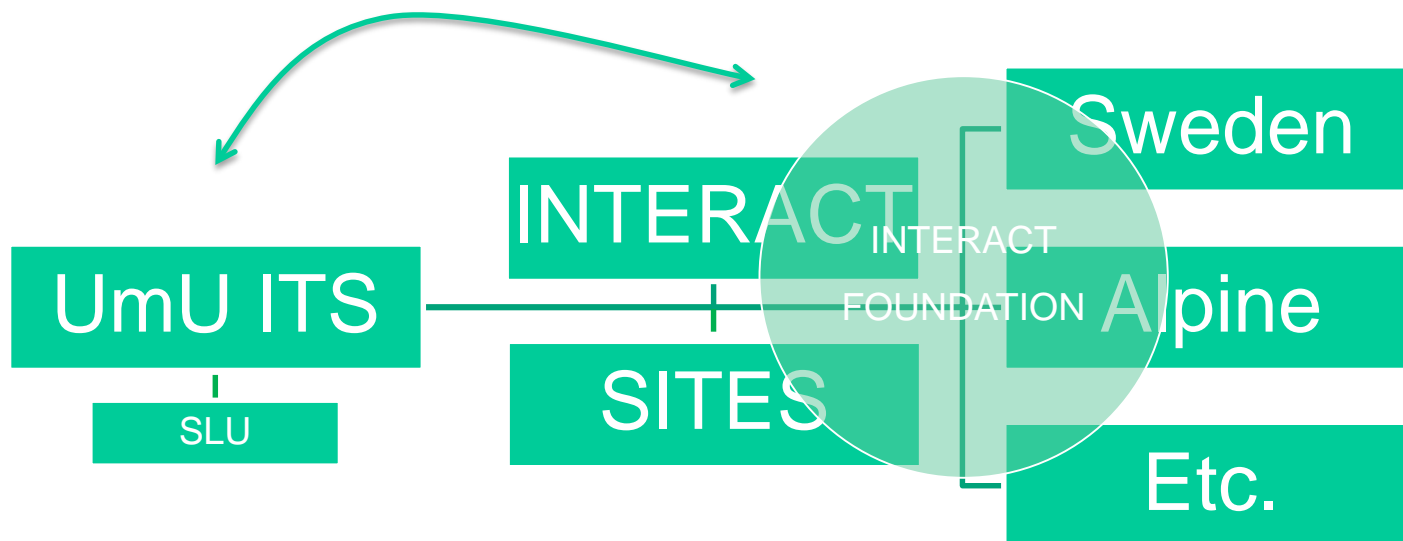
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# INTERACT GIS

## Suggestive managerial structures



- ✓ 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**.

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# 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 grassroots) INTERACT GIS management-board members?

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# 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!!

The logo for INTERACT GIS features a stylized line graph above the text "INTERACT GIS". The word "INTER" is in a smaller font, "ACT" is in a medium font, and "GIS" is in a large, bold font.

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