



Co-funded by the  
Erasmus+ Programme  
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# ERASMUS+ Project GeoServices-4-Sustainability

Z GIS

Interfakultärer FACHBEREICH GEOINFORMATIK  
Interfaculty DEPARTMENT OF GEOINFORMATICS

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- **Cooperation for Innovation and the Exchange of Good Practices**
  - Capacity Building in the field of Higher Education
- **Region 6 (...China-3, Thailand-3)**
  - GeoS4S: EURO 996.131,-
  - Duration: 3 Years
  - Period: 15-10-2015 - 14-10-2018

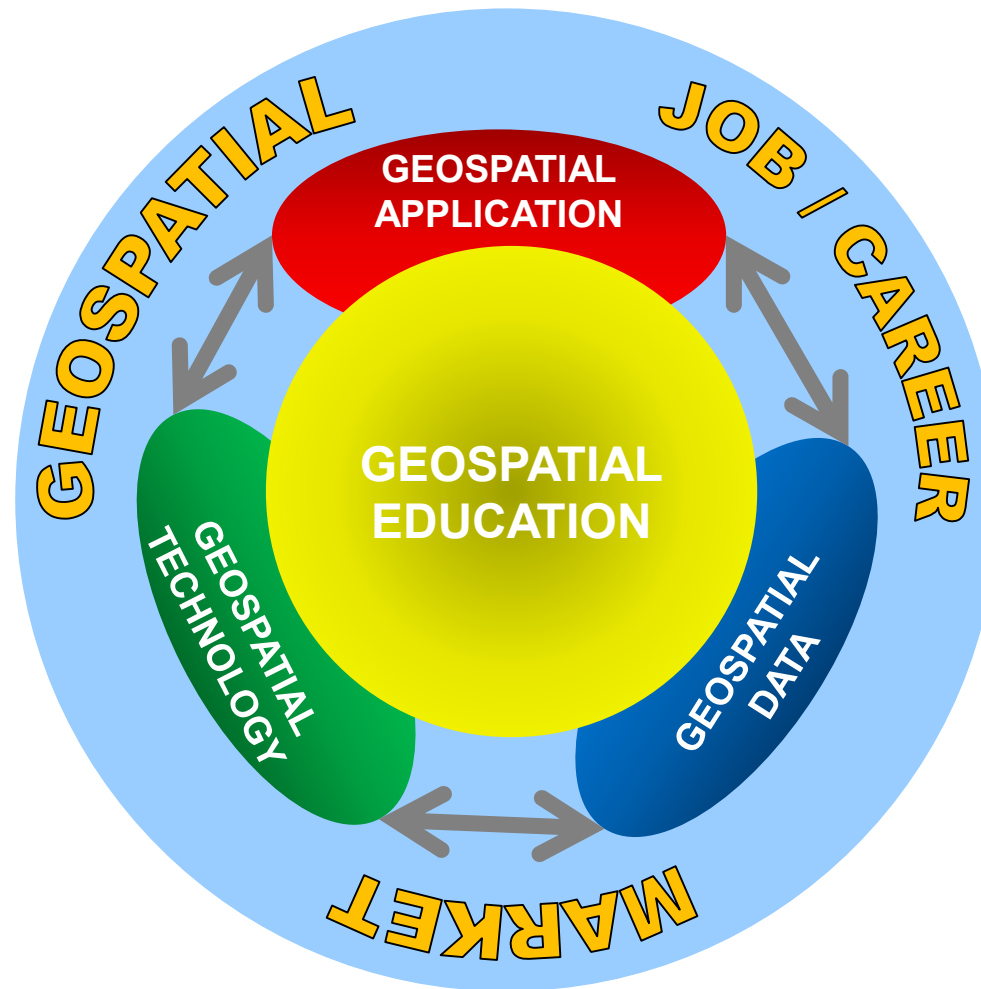
# Background

- Frequent changes in the demands from **Geospatial job / career markets**
- Companies require ***'fit-for-job'*** professionals
- HEIs face a challenge of producing ***'fit-for-job'*** graduates in response to the employment requirements

# Geospatial Education

- **3 main driving forces for Geospatial education:**
  - Geospatial Application fields / Domains
  - Geospatial Data
  - Geospatial Technologies / Tools
- **3 driving forces have multilateral and reciprocal interaction, changes in one drive changes in the other two**

# GeoS4S: Background



# GeoS4S: Objectives

- Design curricular structure / syllabus of ,add-on‘ modules
- Develop problem-oriented and case-study based teaching / learning materials
- Give ‘hands-on‘ practical training of working with the case studies as well as in delivering newly developed learning/teaching materials
- Integrate the materials in an e-Learning platform for free and open access worldwide
- Set-up a framework for awarding ‘*International Qualification Certificate*‘ to those completing at least 30 ECTS across all modules

# Target Groups

- **University faculty members**
- **Graduate students**

# Project Partners - EU

## 4 partners

- University of Salzburg (**PLUS**), Austria - Coordinator
- VU University of Amsterdam (**VU**), Netherlands
- Eberswalde University of Sustainable Development (**HNEE**), Germany
- Palacky University (**PU**), Olomouc, Czech Republic



# Project Partners - China

## 3 partners

- Nanjing Normal University, Nanjing (**NJNU**)
- Wuhan University, Wuhan (**WHU**)
- Xinjiang Institute of Ecology and Geography – Chinese Academy of Sciences, Urumqi (**XIEG-CAS**)

# Project Partners - Thailand

## 3 partners

- Chiang Mai University (**CMU**)
- Asian Institute of Technology (**AIT**)
- King Mongkut's University of Technology Thonburi (**KMUTT**)

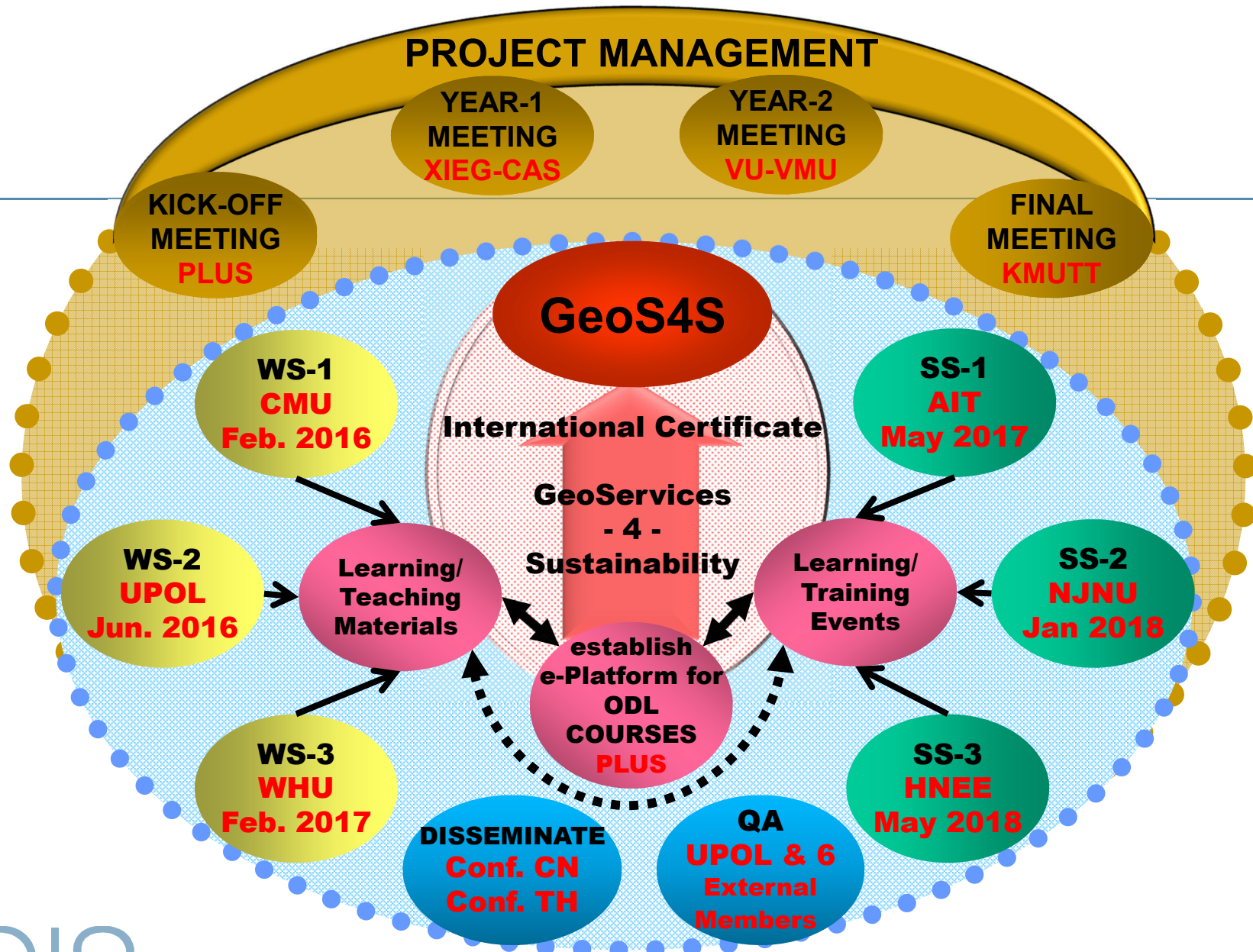
# Associate Partners

## Serve an important role, BUT not funded

- UNIGIS International, Amsterdam, Netherlands (**UNIGIS**)
- Geospatial Media and Communications, Amsterdam, Netherlands (**GM&C**)
- Geoinformatics International, Pathumthani, Thailand (**GeoInfo**)

# Major Tasks

- **TASK-1**
  - Develop Learning/Teaching Materials of 20 modules covering technology, data, application
- **TASK-2**
  - Organise Learning / Training Events for testing the newly developed Learning/Teaching Materials of the modules.
    - 3 Summer Schools, one each at AIT, HNEE and NJNU



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Management Processes	Main Objectives	Contributing Processes	Learning/Training Events	Outreach Processes
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Dashboard: DASHBOARD EVERYTHING PROJECTS CALENDAR STATUSES PEOPLE

Project: **GeoServices-4-Sustainability** University of Salzburg - Z\_GIS

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Categories:

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## Files

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File Name	Author	Location	Time	Size	Actions
AS-CN-NJNU-DTA-Exercise 1 Generation of DEM.docx	Fayuan Li	AS-CN-NJNU	14 days ago	641.88KB	View Download Share
AS-CN-NJNU-DTA-2.DEM Data Sources.ppt	Fayuan Li	AS-CN-NJNU	14 days ago	15.09MB	View Download Share
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GeoS4S_Lesson-Format_AEM Lesson 01.ppt	Alishir Kurban	AS-CN-XIEG-CAS	14 days ago	9.47MB	View Download Share

# Kick-Off Meeting

## University of Salzburg, Austria

**30 Oct. - 1 Nov. 2015**

- Introductions among partners
- Overview of project framework, objectives, tasks, working procedures, communications, financial provisions, monitoring etc.
- Signing 'Partnership Agreements'
- Preparing for WS-1 at Chiang Mai University in February, 2016

# Kick-Off Meeting....

- Disseminate initial information on website ([www.zgis.net/geos4s](http://www.zgis.net/geos4s))
- Use 'Teamwork' (<https://zgis.teamwork.com>) as platform for internal communications and sharing documents / deliverables
- Social media, e.g. facebook, not important until the teaching/learning material are ready for wider dissemination
- e-Learning platform will be decided later



# WS-1: 21-25 Feb. 2016, CMU

- International Faculty Development Workshop on ‘Module Structure and Syllabi Design’
  - Facilitating self-learning process of students
  - Each module of 6 ECTS i.e. 150-180 Hrs. Of student learning effort
    - ~15 Lessons
    - 1 Core Learning / Teaching presentation
      - 20-25 Slides, Key words / graphics on main slide and detailed description in the notes section
    - 4-6 exercises - for self-assessment by the students
    - 4-6 assignments - for evaluation and grading by the teacher / instructor

- International Faculty Development Workshop on 'Module Structure and Content Design'
- **All draft module syllabi ready** 😊 😊 😊
- **Present and Discuss:**
  - the proposed lessons and contents
    - Define lesson level 2-3 learning objectives matching the lesson title and module objectives
    - Include keywords of main content
    - Design exercises and assignments to assess the achievement of the learning outcomes

# Yr-1: 22-27 Sep. 2016, XIEG

- **5-6 Draft Lessons of ‘most’ Modules**

**Ready** 😊 😊 😊

- **Present and Discuss:**

- Year-1 Progress
- Expenditure Documents
  - Honorarium, Travels, Time Sheets, ???
- Module Status
  - Lessons, Exercises and Assignments, ???

# GeoS-4-S: Module Lessons

## STATUS 24.09.2016

	Modules (ECTS = 6)	PLUS	UPOL	HNEE	VU-VMU	XIEG-CAS	NJNU	WHU	KMUTT	CMU	AIT
1	OpenGIS for SDI	6		Peter	Niels vM				Sally		
2	Real Time App Design	4			Niels vM			Wan			
3	Geo-Visualization		6				Sheng		Perry		
4	Geo Application Development		6	Frank				Du	Sally		Nitin
5	Advanced Remote Sensing Methods			7		Alishir	LIF				
6	Forest Biomass and Carbon Stock Quantification			4		Alishir			Perry	Chanida	
7	GeoDesign		Jerry		5			Du			
8	Incident and Crisis Management				6						Nitin
9	Arid Ecosystem Management			Peter		3+4					
10	Climate Change and Adaptation	Shah				6 / 7			Perry	Arisara	Salin
11	Digital Terrain Analysis	JS					6		Sally		
12	3 D City Modelling	Mariana	Vit		Niels vM		6				
13	Smart City	Mariana	Jerry					6			Nitin
14	GIS for Transportation	Shah					Zhang	6			
15	Food Security and Sustainability	Shah				Li			6		
16	Community and Participatory GIS				Niels vM			Lin	7		
17	Commercial Plantation Potential Modelling??			Frank		Li				6	
18	Disaster Risk Management				Bart			Lin		6	Salin
19	HealthGIS				Bart		Sheng				5
20	Geoinformatics for Coastal and Marine Resources Management	Shah				Li					5
	LEAD										
	Contribute										



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Management Processes	Main Objectives	Contributing Processes	Learning/Training Events	Outreach Processes
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## International Faculty Development Workshop on 'Module Structure and Syllabi Design'

- **Present and Discuss:**
  - the proposed lessons and contents
    - Number of lessons, titles, learning objectives etc.
  - balance/workload of Exercises and Assignments
  - overlap with other modules



# Project Meeting @CAS Urumqi September 2016

