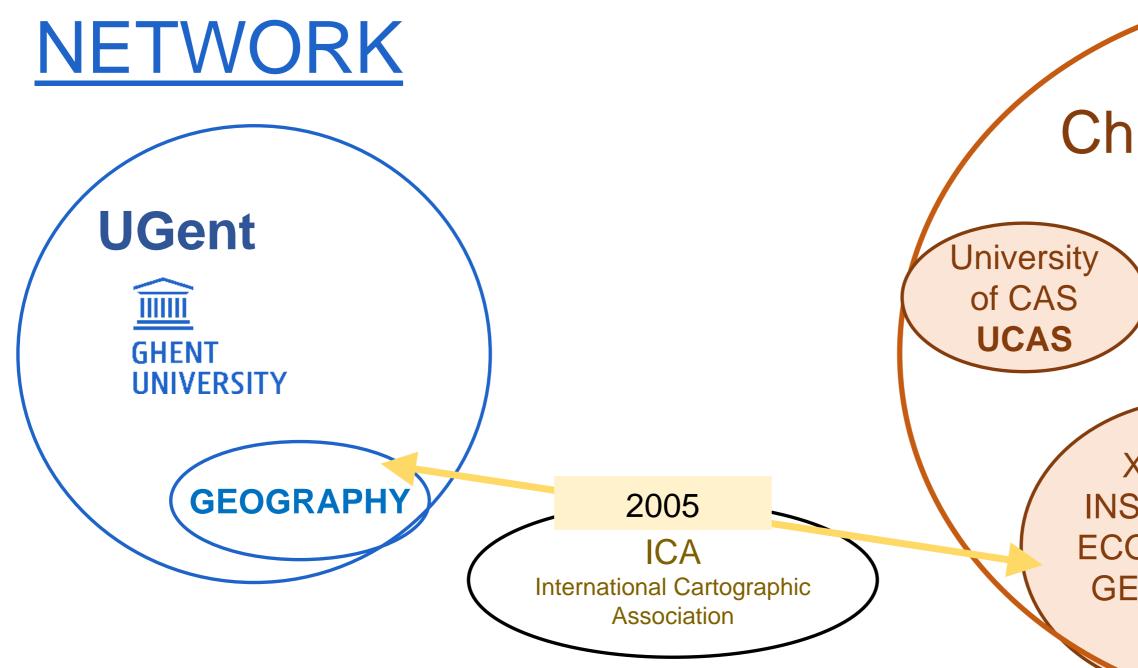
# FROM JOINT RESEARCH TO JOINT LAB AND DOUBLE PHD'S

Philippe DE MAEYER











# Chinese Academy of Sciences

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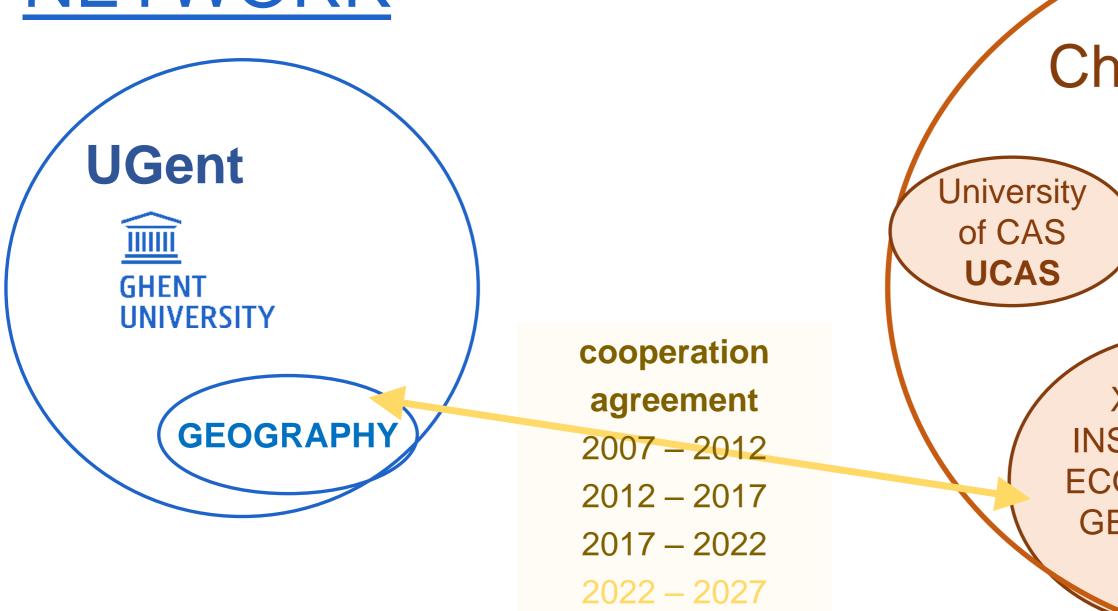
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XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY XIEG

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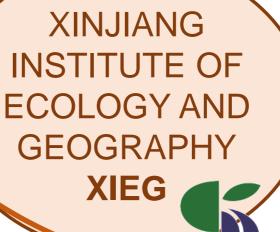
## Chinese Academy of Sciences

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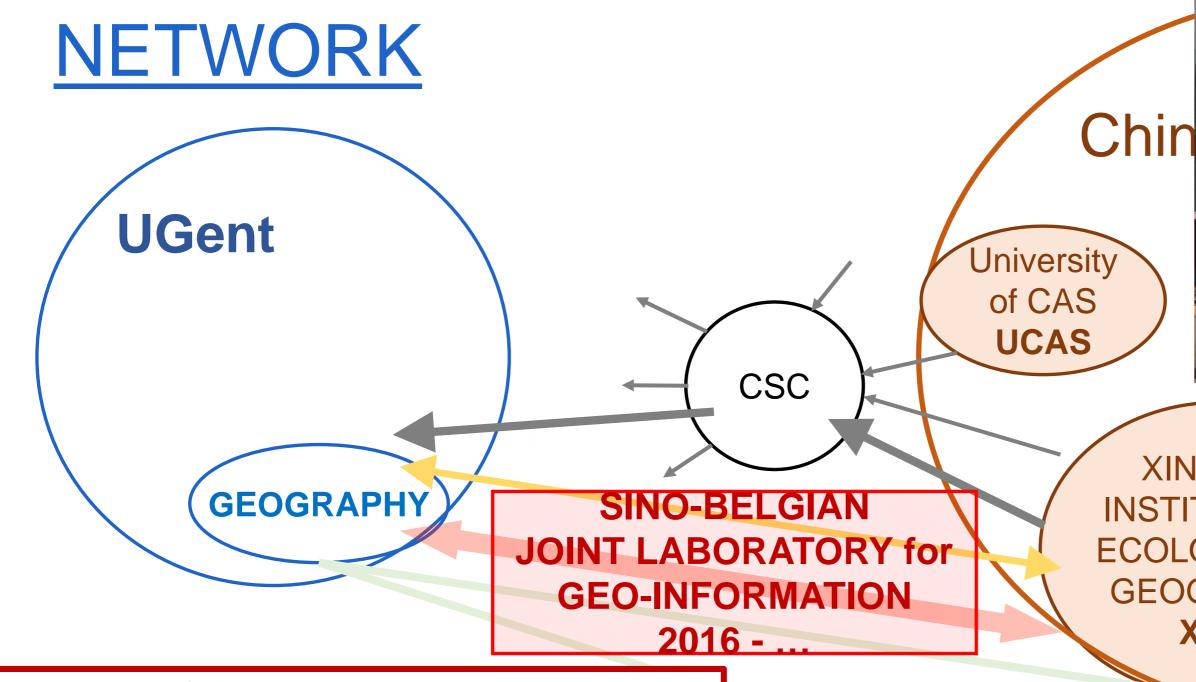
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The purpose of the Joint Lab is to conduct academic exchanges and research cooperation in science and technology innovation and to strengthen the cooperative relationship between the Parties. The research topics will mainly focus on geoinformation in the fields and disciplines of climate change, sustainable development, geo-archeology, environment, ecology, geography and geology.

XINJIANG **INSTITUTE OF** ECOLOGY AND **GEOGRAPHY XIEG** 

中国科学院新疆生态与地理研究所与比利时本

副校长

Chunli BAI 白春礼院长

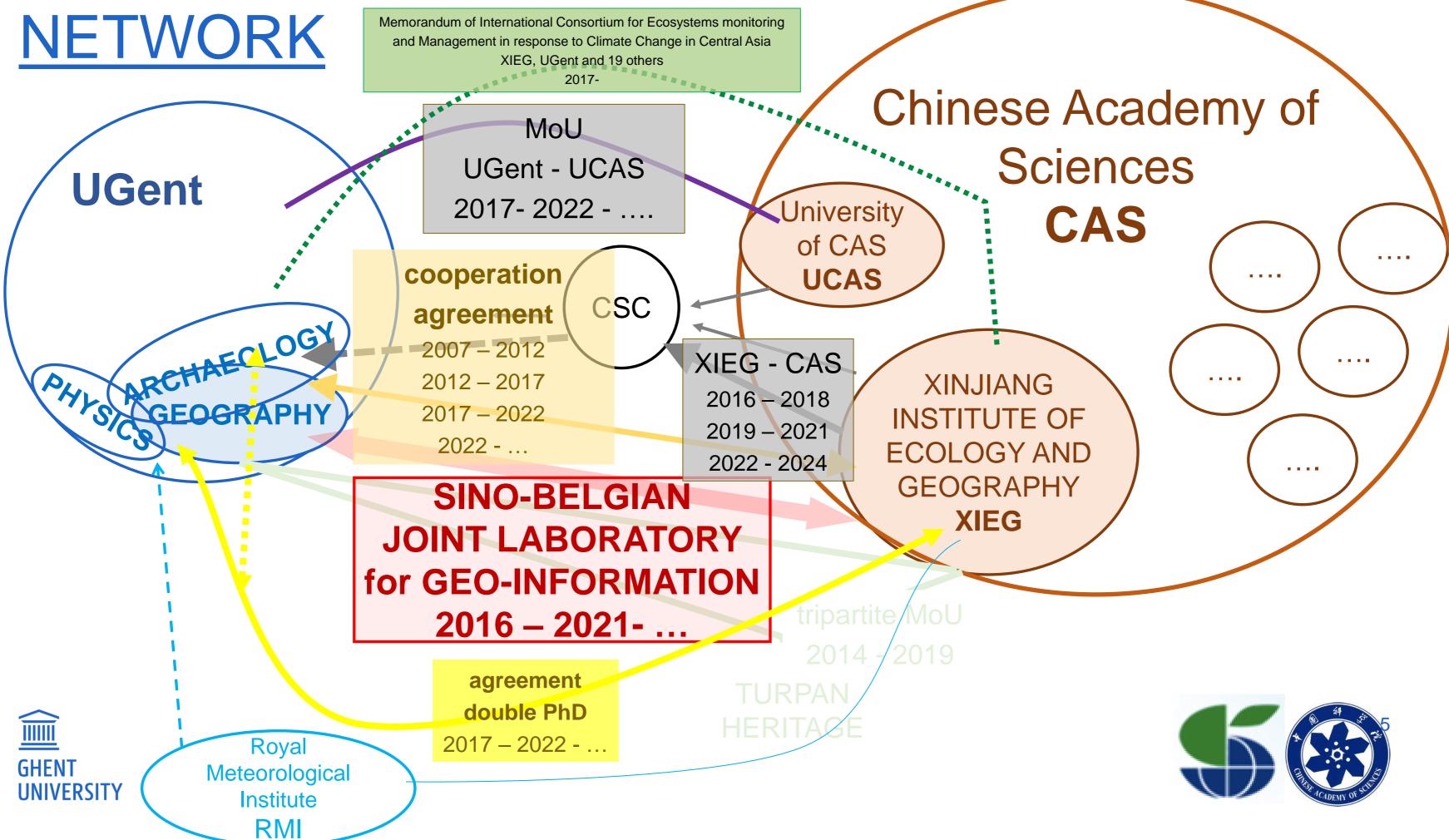
24/05/2016

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09/09/2016

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# NETWORK

Collaboration based on 3 pillars:

- common research topics
- exchange of staff and students, incl. teaching
- Sino-Belgian Joint Lab for Geo-Information 中国-比利时地理信息联合实验室

Strengths and Opportunities:

- complementary competences
- personal understanding
- highly ranked institutions and labs
- existing networks of institutes
- OBOR, Silk Road Initiative,...
- long term collaboration **GHENT** UNIVERSITY





### 亚地理信息技术国际研讨会

The International Seminar on Geoinformation Technology of Central Asia

测绘地理信息学会 新疆维吾尔自治区测绘地理信息局 维吾尔自治区测绘学会 中亚地理信息开发利用国家测绘地理信息局工程技术研 中亚地理信息系统年会 GISCA 2014 时空中的丝绸之路:乌鲁木齐节点 ne Annual Central Asia GIS Conference GISCA 2014 Silk Road in space and time: the Urumqi nod

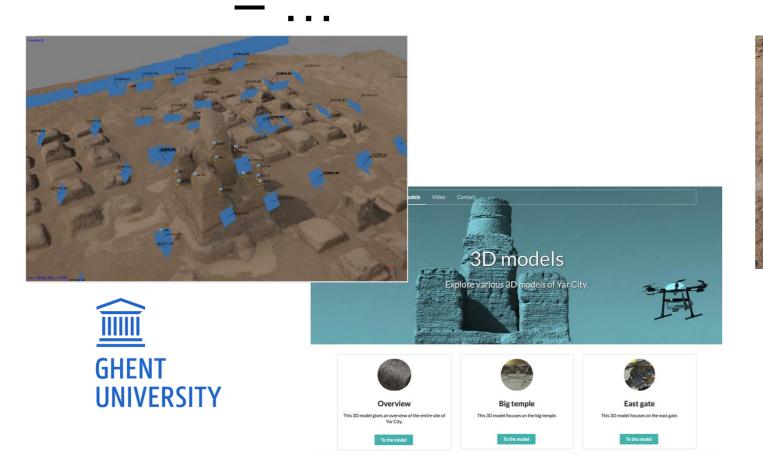


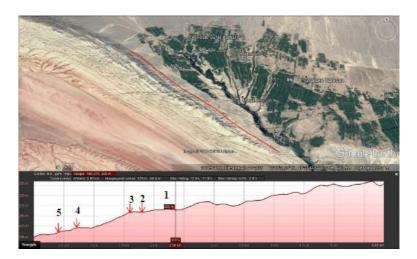
First International Science Forum of National Scientific Organizations on the Belt and Road Initiative

# **RESEARCH THEMES**

## modelling and understanding heritage issues along 1. Silk Road. (UGent, Dept. Geography and Dept. Archaeology)

- 3D&4D GIS modeling for World Heritage along Silk Road
- petroglyph map study
- changing water landscape



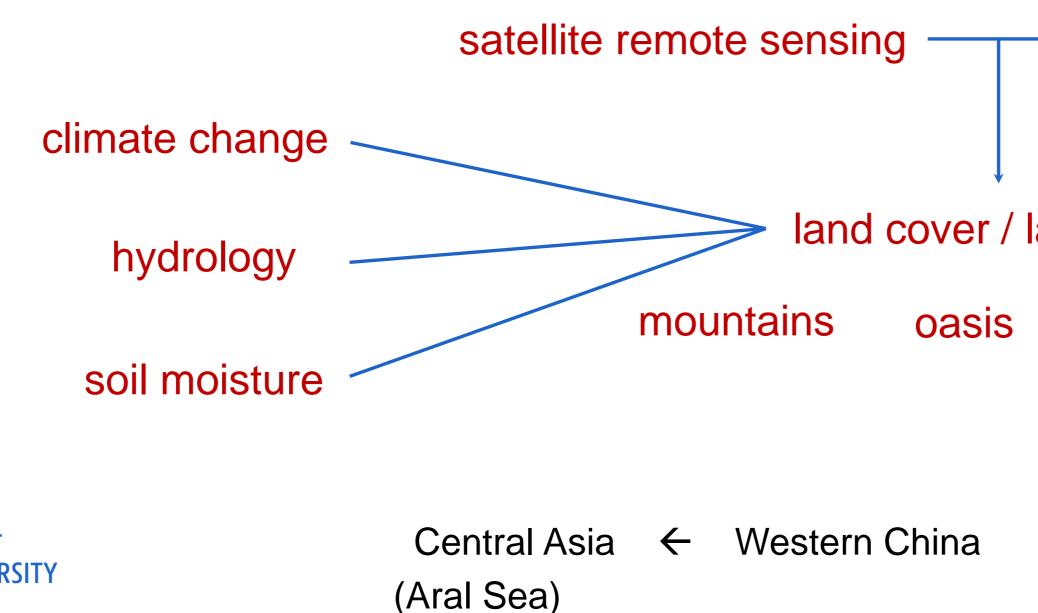




# **RESEARCH THEMES**

# 2. climate change and impact on land use/cover, hydrology and soils in <u>Central -Asia</u>

(UGent, Dept. Geography and Dept. Physics) + RMI



field observation

## land cover / land use (change)

lake desert



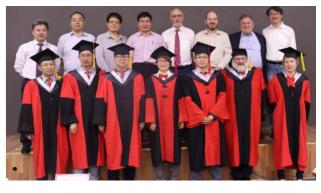
- double PhDs: defended 18 (January 2022)
- Gonghuan FANG, PhD May 2016, Impact of climate variability on hydrological processes in the Kaidu River Basin (North-West China)
- Jiao LIU, PhD May 2017, Hydrological processes and impacts of climate change in the alpine catchment in the arid region A case study on the Yarkant River basin in Karakoram
- Xiuliang YUAN, PhD May 2018, Common land model improvements and its application for estimating evapotranspiration in Xinjiang, China
- Miao ZHANG, PhD May 2018, A study on water-heat patterns and regional climate of mountain- oasis-desert system in north Tianshan Mountains based or the WRF model
- Hao GUO, PhD May 2019, Study of drought characteristics in the arid zones of Central Asia over the last 50 years.
- Min LUO, PhD May 2019, Defining spatiotemporal characteristics of climate changes trends in Central Asia and its impact on water resources in selected river basins.
- Yungian WANG, PhD May 2019, Characterizing soil moisture variability for prediction of drought and precipitation in Xinjiang, China.
- Liangliang JIANG, PhD May 2020, Monitoring land degradation and assessing its drivers in Central Asia.
- Lu ZHANG, PhD May 2020, Structure and Optimization Strategies of the Air Passengers' Transport Network in "the Belt and Road" Region.
- Liangzhong CAO, PhD May 2020, The Spatiotemporal Distribution of the Three-Dimensional Atmospheric CO2 Concentrations and the Controlling Factors at Global and Regional Scales.
- Yongchao DUAN, PhD May 2020, Study on flood mechanisms and processes under complex climatic conditions in the Kunlun Mountains.
- Peng CAI, PhD May 2020, The Climatic and Ecological Effects of Modern Oasis Evolution in the North Tianshan Mountains.
- Tao PAN, PhD May 2020, Evolution of the cropland structure and effects on grain production and land surface thermal environments in the Sanjiang Plain, China.
- Tao YANG, PhD May 2021, Variation of Snow Resource and its Moisture Characteristics in the Tianshan Mountains (Central Asia).
- Shan ZOU, November 2021, Research on water resources change under climate change and human activities in Syr Darya River Basin, Central Asia.
- Huili HE, November 2022, Impacts of land use/land cover change on regional climate in the Aral Sea region.
- Jiabin PENG, November 2021, Environmental Flows Assessment and Regulation of Bosten Lake Wetland.

Sophie BARBAIX, November 2021, The water landscape of Turpan: the karez and their context.

#### **GHENT** ongoing double PhDs: 12 UNIVERSITY













– <u>PostDoc</u>: 1 (FWO) 2018 - 2021

#### – **PUBLICATIONS**:

– Joint publications indexed on the Web of Science

	Mentioning UGent and Joint-Lab	Mentioning UGent and XIEG (without Joint Lab)	Total publica
2015		2	
2016		2	
2017	9	3	
2018	9		
2019	16		
2020	13		
2021	22	1	
2022 (Feb 2022)	2+	1	
2015 - 2022 (02/2022)	71+	9	



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2
2
12
9
16
13
23
3+
80+













### Philippe De Maeyer

#### DEPARTMENT OF GEOGRAPHY

E philippe.demaeyer@ugent.be
T +32 9 264 46 88
M +32 476 411 389
www.ugent.be

f	Ghent University
y	@ugent
in	Ghent University

http://www.geografie.ugent.be/cartogis-en https://sketchfab.com/geographyugent http://cartogis.ugent.be/yarcity3d/





