



ITC | FACULTY OF GEO-INFORMATION SCIENCE AND EARTH OBSERVATION

ESTÁS LISTO PARA CAMBIAR EL MUNDO?

MARLIES NIJHUIS

OFICIAL DE DESARROLLO DE BECAS

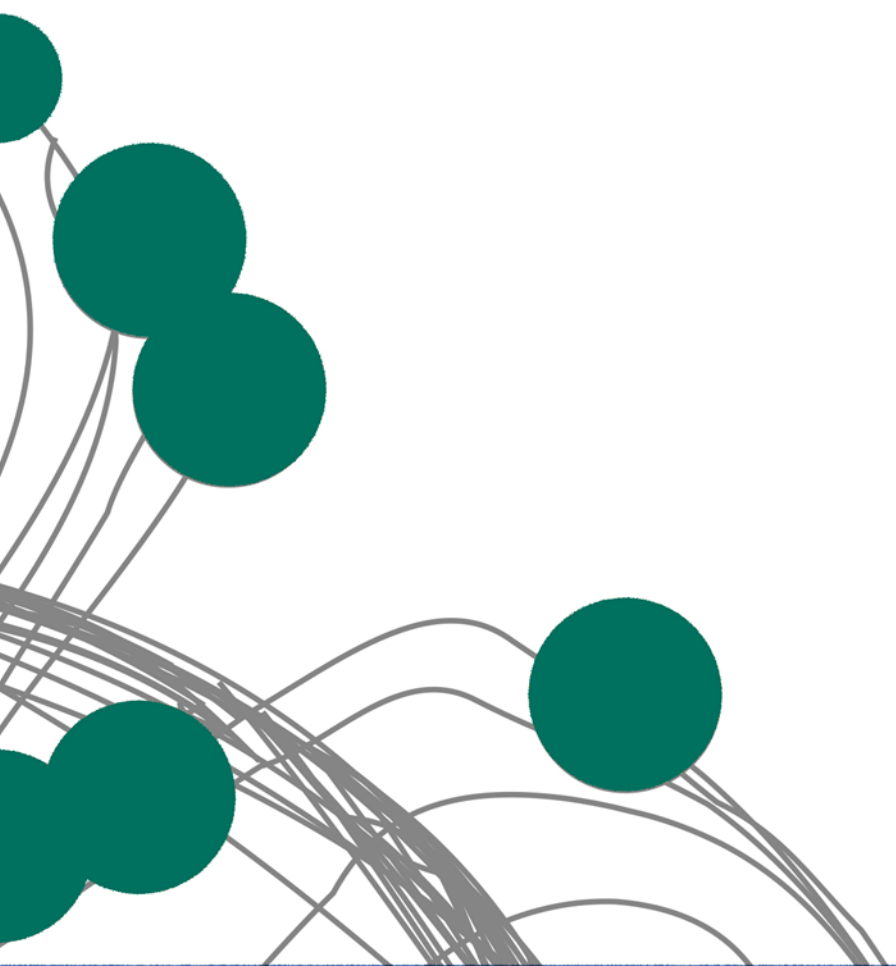
IVETTE TAMEZ, MSC

OFICIAL DE DESARROLLO DE NEGOCIOS

UNIVERSITY
OF TWENTE.



HOY TE PRESENTAMOS



LA FACULTAD DE GEO-CIENCIAS: QUIÉNES SOMOS Y QUÉ HACEMOS



OFERTA EDUCATIVA DE LA FACULTAD: PROGRAMAS DE MAESTRÍA



BECAS Y FINANCIAMIENTOS: BECAS DE LA FACULTAD Y COLFUTURO



BENEFICIOS DE LOS PROGRAMAS: DATOS CURIOSOS



GRADUADOS DEL ITC: ORGULLO DEL ITC Y PERSPECTIVAS DE TRABAJO

FACULTAD ITC

GEO-INFORMATION SCIENCE
AND EARTH OBSERVATION

UNIVERSITY
OF TWENTE.



ITC FACULTY OF GEO-INFORMATION SCIENCE AND EARTH OBSERVATION

La Facultad del ITC es reconocida a nivel mundial por sus logros en capacitación en el área de ciencias de la geo-información y la observación de la tierra a través de su educación, investigación, y fortalecimiento institucional.

Fundada en 1950 como el primer centro de entramiento en los Países Bajos, y en el 2010 se convirtió en una Facultad de la Universidad de Twente.



NUESTRA MISIÓN

Capacitación continua es nuestra **misión**, donde aplicamos, compartimos y facilitamos el uso efectivo de conocimiento y herramientas para solucionar problemas complejos

NUESTRA VISIÓN

Nuestra **visión** es un mundo donde investigadores, catedráticos y alumnos colaboren en un ambiente multidisciplinario y geográfico con organizaciones gubernamentales y no gubernamentales, institutos, negocios y comunidades locales para superar los desafíos actuales y contribuir a sociedades sostenibles, justas y digitales.



SEIS DEPARTAMENTOS CIENTÍFICOS DEL ITC

- Earth Observation Science (EOS)
- Applied Earth Sciences (AES)
- Geo-information Processing (GIP)
- Natural Resources (NRS)
- Urban and Regional Planning and Geo-information Management (PGM)
- Water Resources (WRS)



Resource Security (Seguridad de Recursos)



¿CÓMO PUEDE LA MAPEO MÓVIL REDUCIR LOS RIESGOS Y DESASTRES?

Disaster Resilience (Resiliencia de Desastres)



¿CÓMO PODEMOS MONITOREAR LAS SEQUÍAS Y PREDECIR EL RENDIMIENTO DE LOS CULTIVOS?

Geo-health



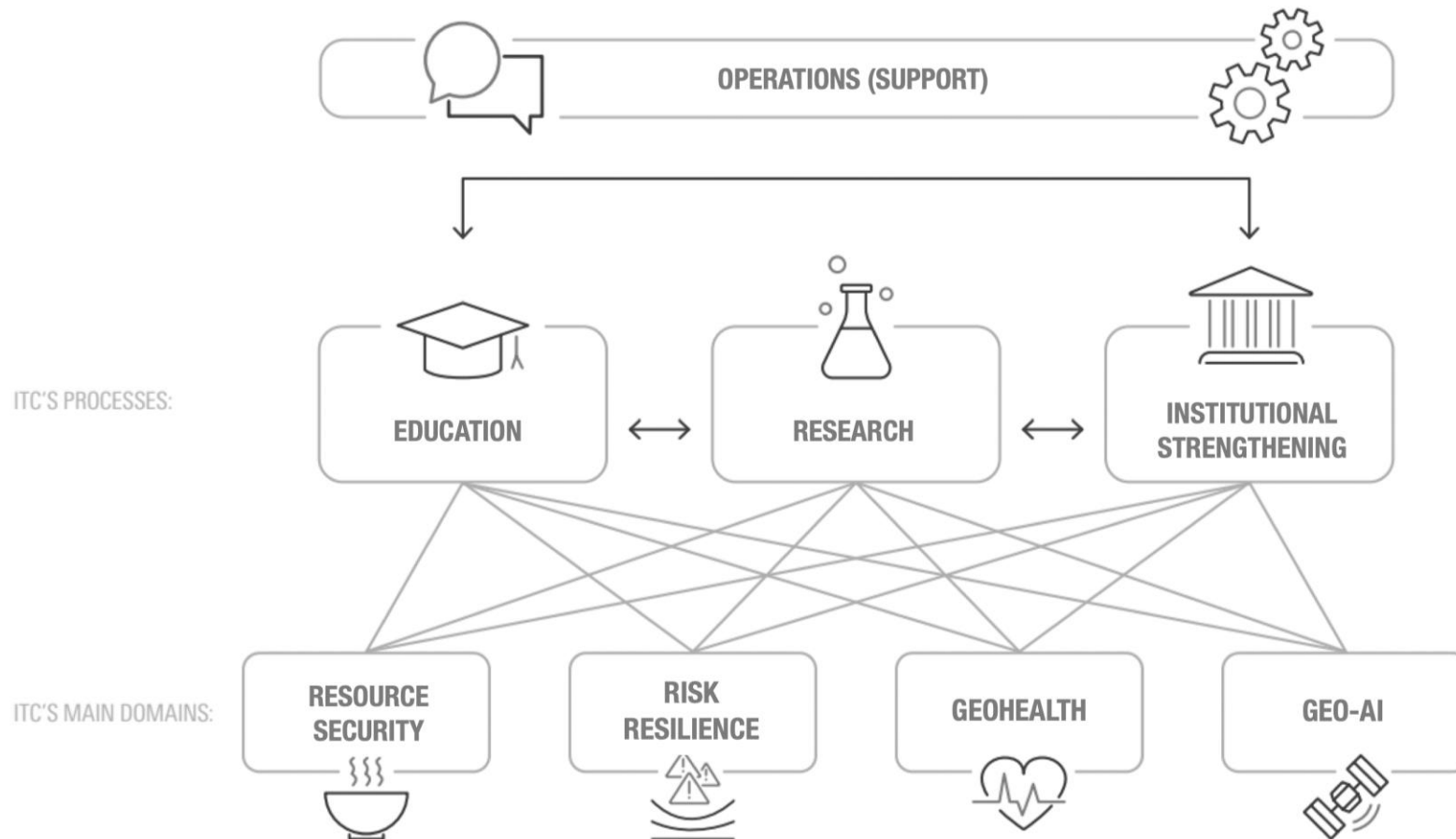
¿DÓNDE Y CUÁNDO OCURREN LAS ENFERMEDADES?

GeoAI



¿QUÉ PODEMOS APRENDER DE GRANDES VOLÚMENES DE DATOS GEOREFERENCIADOS?

EMPODERANDO LA SOCIEDAD A TRAVES DE CAPACITACIONES



ITC FACILITIES AND LABORATORIES



NÚMEROS



STAFF ADMINISTRATIVO

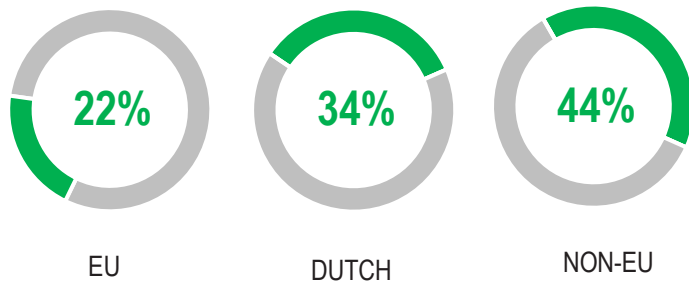
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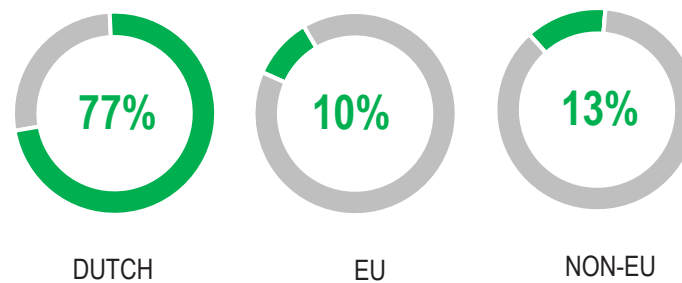
SCIENTIFIC CIENTIFICO

190

SCIENTIFIC CIENTIFICO



STAFF ADMINISTRATIVO



EDUCACIÓN

PREPÁRATE PARA CAMBIAR EL MUNDO

UNIVERSITY
OF TWENTE.



NUESTRA OFERTA EDUCATIVA INCLUYE:

- **Master Spatial Engineering (M-SE)**
- **Master Geo-Information Science and Earth Observation (M-GEO)**
- Doctorados
- Programas de doble titulación y Erasmus (GIMA, Cartography and GEM)

También

- Diploma de posgrado, certificaciones, cursos individuales, educación a distancia, y a la medida.



EQUIVALENCIA DE DIPLOMAS

- Programas certificados por la NVAO, del Ministerio de Educación de los Países Bajos
- Programas internacionalmente reconocidos. Cada diploma de la Universidad de Twente incluye: el Diploma Suplemento



PROGRAMAS DE MAESTRÍA EN CIENCIAS (2 AÑOS)

GEO-INFORMATION SCIENCE AND EARTH OBSERVATION

No solo aprenderás habilidades relevantes para SIG y las ciencias de observación de la Tierra sino **también las ciencias de datos para que pueda recopilar, transformar e integrar datos y utilizarlos para desarrollar soluciones innovadoras y sostenibles** útiles para abordar problemas del mundo real y mejorar nuestro entendimiento del mundo en el que vivimos.

SPATIAL ENGINEERING

Aprenderás a abordar desafíos sociales complejos y a gran escala **combinando conocimientos técnicos y socioeconómicos con una sólida base de análisis y modelado de datos espaciales**

GEO INFORMATION SCIENCES AND EARTH OBSERVATION

ESPECIALIDADES



APPLIED REMOTE SENSING FOR EARTH SCIENCES

If you have a passion for Earth sciences and want to learn to use remote sensing and geographic information systems (GIS) to map supplies of critical raw materials and geothermal ...

22 months | Full-time | 100% English | 2 Joint programmes



FREE SPECIALISATION

Are you keen on combining a few of the specialisations into one? Let's say you want to explore the use of geospatial data in tourism and dive into geoinformatics, water security, and ...

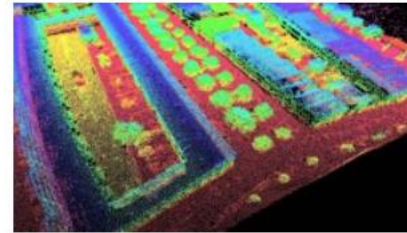
22 months | Full-time | 100% English | 2 Joint programmes



GEO-INFORMATION MANAGEMENT FOR LAND ADMINISTRATION

Geo-information management for land administration is essential for developing, updating, and providing cadastral ...

22 months | Full-time | 100% English | 2 Joint programmes



GEOINFORMATICS

It is a matter of how to capture, classify, analyse, process, and visualise geospatial information before you are able to apply it to tackle various local and global challenges. Learn to develo...

22 months | Full-time | 100% English | 2 Joint programmes



NATURAL HAZARDS AND DISASTER RISK REDUCTION

Learn to identify why, where, and when natural hazards occur. In this specialisation, you will use geo-information to predict, monitor, and quantify hazards and their magnitude in a specif...

22 months | Full-time | 100% English | 2 Joint programmes



NATURAL RESOURCES MANAGEMENT

If you want to specialise in sustainable management of natural resources such as land, water, soil, forestry, and biodiversity by applying GIS and the latest remote sensing technologies, this...

22 months | Full-time | 100% English | 3 Joint programmes



URBAN PLANNING AND MANAGEMENT

Learn how to transform cities into healthier, more sustainable, inclusive, and attractive places where people and nature can thrive. You will work on strategies to improve urban challeng...

22 months | Full-time | 100% English | 2 Joint programmes

GEO-INFORMATION SCIENCE AND EARTH OBSERVATION

YEAR 1			
Quartile 1	Q2	Q3	Q4
Geo-information science and earth observation: a system-based approach (14 EC)	Specialisation (7 EC)	Specialisation (7 EC)	Specialisation (7 EC)
	Specialisation (7 EC)	Global challenges, local action (7 EC)	Elective (7 EC)
Academic skills (4 EC)			

YEAR 2			
Quartile 1	Q2	Q3	Q4
MSc research proposal and MSc research (45 EC)			
Individual study programme (15 EC)			

COMMON COURSE
 SPECIALISATION COURSE
 MSC RESEARCH
 ELECTIVE COURSE

- Two academic years: September to July
- 60 EC p/academic-year
- Research based MSc
- Quartile based calendar 10 weeks - 15 EC
- Internship possibilities

EJEMPLO ESPECIALIDAD

NATURAL HAZARDS AND DISASTER RISK REDUCTION (NHR)

(CLICK EN LA IMAGEN)

YOUR SPECIALIZATION: NATURAL HAZARDS AND DISASTER RISK REDUCTION (NHR)

[Change specialization](#)

[VIEW LIST OF ALL COURSES](#)

[PROGRAMME INFORMATION](#)

[Reset](#) [Continue later](#) [Export to pdf](#)

Year 1 - Q1 (September)

Q2 (November)

Q3 (February)

Q4 (April)

Academic Skills

4 EC

GIS & RS for Geospatial Solutions

4 EC

Introduction to Disaster Risk and
Data Input for Hazard Modelling

7 EC

Global Challenges, Local Action

7 EC

Disaster Risk Management

7 EC

Geospatial data: concepts,
acquisition and management

5 EC

Data-driven Hazard Modelling

7 EC

Physically-based Hazard Modelling

7 EC

+ Electives
(EC 0 / 7)

Geospatial analysis and
interpretation

5 EC

EC 53 / 60

Year 2 - Q1 (September)

Q2 (November)

Q3 (February)

Q4 (April)

MSc Research Proposal and Thesis Writing

45 EC

+ Individual Study Programme
(EC 0 / 15)

EC 45 / 60

— Common — Electives — Specializations — Thesis

SPATIAL ENGINEERING

YEAR 1			
Quartile 1	Q2	Q3	Q4
Climate resilient cities <i>(15 EC)</i> Project work & Choice topics Q1	Food and water security <i>(15 EC)</i> Project work & Choice topics Q2	Human-induced earth movement <i>(15 EC)</i> Project work & Choice topics Q3	Electives <i>(14 EC)</i> Academic skills <i>(1 EC)</i>

YEAR 2			
Quartile 5	Q6	Q7	Q8
International module <i>(7,5 EC)</i> Academic and research phase <i>(37,5 EC)</i>	Academic and research phase <i>(37,5 EC)</i>		Internship project <i>(15 EC)</i>

PROJECT
 MSC RESEARCH
 ELECTIVE COURSE
 OTHER

QUIERES SABER SI SPATIAL ENGINEERING ES PARA TI?

INSCRIBETE A SU PRE-MASTER,
COMIENZA EN SEPTIEMBRE 2023

- 4 cursos, en un semestre
- Inversión: € 1,157.10
- Admisión directa a la maestría
después de terminar los cursos satisfactoriamente

FULL-TIME, ONE-SEMESTER PROGRAMME

This **online** pre-master programme, or transfer minor, dominantly aims at preparing you for the Master's Spatial Engineering. Upon successful completion of the programme, you have direct and unconditional access to this Master's Spatial Engineering. It is a **full-time online** study programme of one semester with four courses:

Challenge: climate adaptation (5 credits)	+
Core knowledge (12.5 credits)	+
Academic Research Skills (7.5 credits)	+
Basis statistics (5 credits)	+

Mas información? Haz click en la imagen

INTERNSHIP OPPORTUNITIES

AIM

- Apply theoretical and practical knowledge in a professional organization
- Learn how to function in an organizational setting
- Growth in social and professional attitude
- Prepare for your future career

TIMELINE

- Year 2
- Elective choice for M-GEO, Compulsory for M-SE
- 10EC for M-GEO, 15EC for M-SE
- 280 hours workload, 8 weeks min. max. 20 weeks



MRS. BELINDA JAARSMA-KNOL
ITC INTERNSHIP COORDINATOR



INTERNSHIP OPPORTUNITIES

WHERE TO GO?

- Companies
- Institutes
- NGO's
- Universities abroad

SUPERVISION

- ITC supervisor
- Host organization supervisor

MORE INFORMATION:

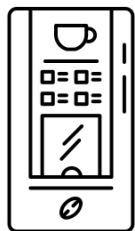
- [Internship information](#)
- [Internship experience](#)



BECAS Y FINANCIAMIENTO

ESTÁ ESTIMADO QUE POR LO GENERAL UN
ESTUDIANTE PUEDE GASTAR ENTRE €1,000 A
€1,200 MENSUALES

COSTOS PROMEDIO



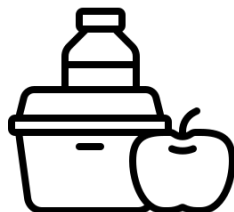
€0.40

Un café de
maquina



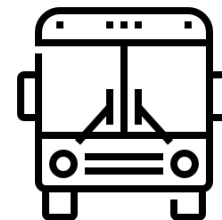
€ 4.00

Un Starbucks



€4.00 – €7.00

Almuerzo
del día



€2.40

Pasaje de
camión
(un viaje)



€400 – €800

Alojamiento
mensual

WHAT ABOUT THE COST?

TUITION FEES 2023 -2024 MSC PROGRAMMES

2 YEAR PROGRAMME
MSE EU
€ 2.314 = USD 2,443.84

2 YEAR PROGRAMME
MGEO MSE NON-EU
€ 17,000 – USD 17,953.89

*Every year an increment of 1.25% in tuition fees approx.

COST OF LIVING APPROX. PER YEAR

TOTAL: €1000 x 12 = €12.000 – USD 12,673.33

FOOD: €2,500 HOUSING: €5.500

BOOKS + SUPPLIES: €600

BANK ACCOUNT: €50

BICYCLE: €125 + TRANSPORTATION: €800

INSURANCE: €650 + ENTRY VISA/RESIDENCE PERMIT €207

FACILITIES FOR OUR STUDENTS

- Well furnished rooms and apartments in the ITC International Hotel
- The hotel includes 24-hour reception, self-service laundry and a free of charge internet connection
- Laboratory facilities at ITC's Langezijds building
- A study and learning centre
- Access to all the sports, arts and culture offerings on UT's campus



SCHOLARSHIPS TO STUDY AT ITC

FOR WHO

Students who are eager to engage with what is happening in the world and use their skills to make our planet more sustainable

THE WHAT

Several scholarship programmes specifically designed to offer talented and motivated international students the opportunity to pursue an MSc degree at ITC in the Netherlands in [Spatial Engineering](#) or [Geo-information Science and Earth Observation](#).



COLFUTURO LOAN PROGRAMME

Shared financing programme to a new to enrol Colombian in one of our Master programmes

- Confirmed: 1 tuition fee waiver of 85%
- To be confirmed: 2 tuition fee waivers of 50%

COLFUTURO will provide the remainder of the tuition fees, living allowance and will cover other study related costs.

Requirements

- Have been admitted unconditionally to a high-quality graduate programme;
- Have at least one year work experience;
- Have an excellent academic record;
- Proficiency level in English Communication (skills).

Application details

- Application opens: 9 January 2024
- Application closes: 29 February 2024
- Results: 16 May 2024



ITC SCHOLARSHIP PROGRAMME (TBA)

A limited number of partial scholarships for applicants with a very good academic track record.

Requirements

- In a position of an academic acceptance letter for the Master Programme
- Academic performance among the top 10% (minimum GPA>75%)
- English: IELTS 6.5
- Residing in and being a national of a country listed on the OECD-approved List of Recipients of Official Development Assistance

Important

Please be aware that the ITC Scholarship Programme is a partial scholarship. This means that applicants should be able to cover all remaining fees and costs (+/- 15.000 euros).

Application process

1. Apply for the MSc course
2. Receive your (conditional) approved admission letter
3. Apply for the ITC Scholarship Programme before the deadline
4. Results will be announced within 3 weeks after the deadline
5. Ensure payment before the deadline

TIPS IN SEARCHING FOR A SCHOLARSHIP

- Before applying for any scholarship or loan programme, you first should apply for the programme through our online application system to become academically accepted.
- Check our 'Scholarship Finder' for the listed Scholarship or Loan Programmes available for ITC courses.
- We strongly advise you to start early with exploring the available funding options for your desired course. Applying for a scholarship can take quite some time!
- It is possible to have multiple scholarships

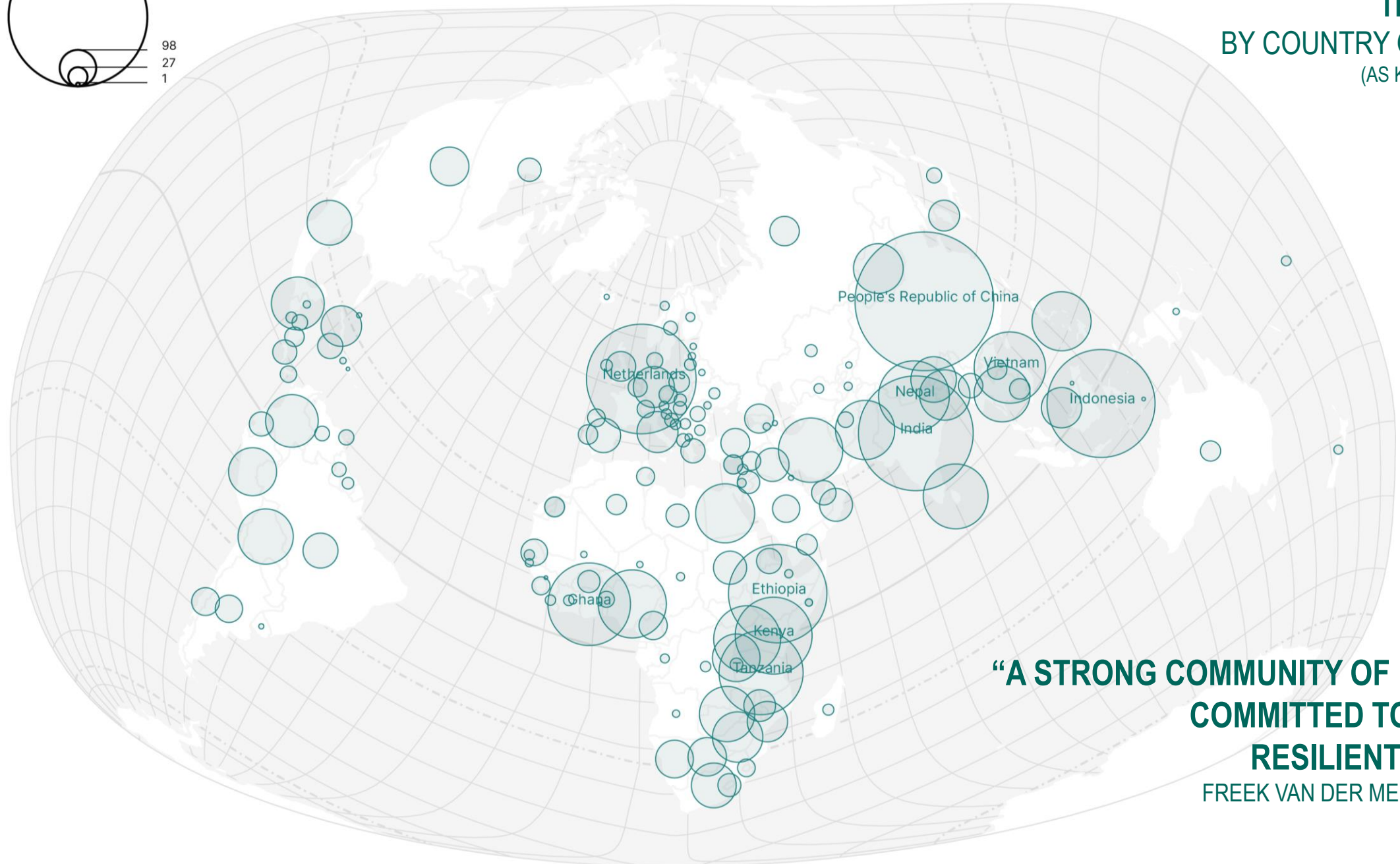
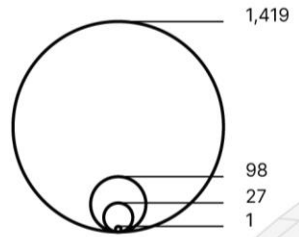


GRADUADOS DEL ITC

UNIVERSITY
OF TWENTE.



**ITC ALUMNI
BY COUNTRY OF ORIGIN
(AS KNOWN IN 2023)**



**“A STRONG COMMUNITY OF EXPERTS
COMMITTED TO A MORE
RESILIENT WORLD”**
FREEK VAN DER MEER, DEAN ITC

CAREER PERSPECTIVES

Graduates are capable of

- Unravelling geo-spatial processes and developing (creating) local solutions for global problems as an applied scientist or a geo-information consultant.
- Working at the nexus between technical specialists and decision-makers
- Working in international teams

ITC alumni work in different sectors ±

Government agency	50%
Education and research (incl. PhD)	20%
Private sector & self employed	20%
NGO (national & international)	10%

90% of graduates find employment within 12 months of graduating



ITC GRADUADOS DE COLOMBIA



Graduada
Colombia

Decana Facultad de Minas
Universidad Nacional de
Colombia Sede Medellín



Graduada
Colombia

Asesor Climatico y Forestal
Embajada de Noruega



Graduado
Colombia

Profesor e Investigador en
Arquitectura GeoWeb en
Facultad ITC

LIGAS DE INTERES – FACULTAD ITC

- [PROGRAMAS DE MAESTRÍA](#)
- [GUIAS DE ESTUDIO](#)
- [PRACTICAS PROFESIONALES](#)
- [ADMISIÓN Y APLICACIÓN](#)
- [ALOJAMIENTO](#)
- [COSTOS DE VIDA](#)
- [OPCIONES DE FINANCIAMIENTO](#)
- [ASOSIACION ESTUDIANTIL \(SAB\)](#)
- [CENTRO DE ENTRENAMIENTO UT](#)
- [ASOCIACIONES ESTUDIANTILES](#)
- [LABORATORIOS](#)

¿QUISIERAS SABER MÁS?

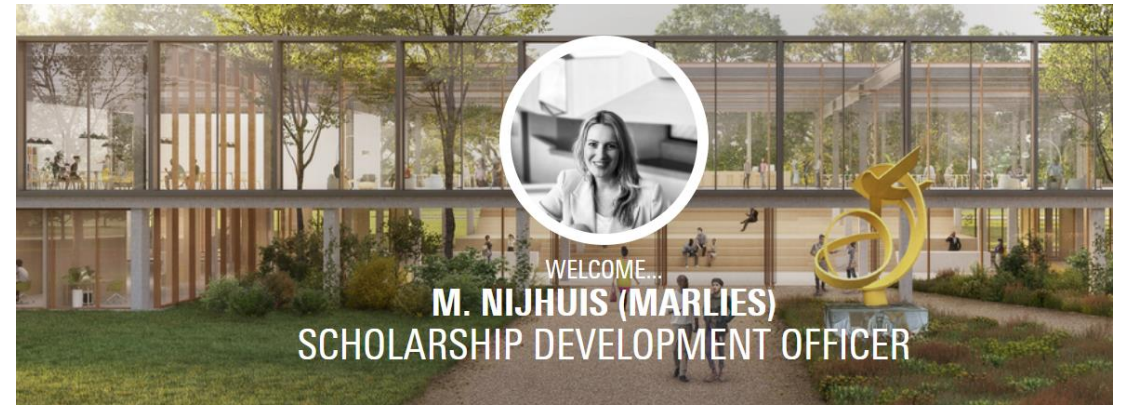


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