

From imagery to impact

High Level Forum: Space as a Driver for Socio-Economic Sustainable Development
Dubai, United Arab Emirates
21 November 2016

Einar Bjorgo, Manager, UNOSAT



Introduction to UNOSAT

- A programme of the United Nations Institute for Training and Research (**UNITAR**)
- **Fifteen** years of operations
- Fully dedicated to **satellite imagery analysis** and **capacity development**

What do we do?

1. Satellite imagery analysis

- Natural disasters and risks
- Conflicts, protection of civilians and cultural heritage

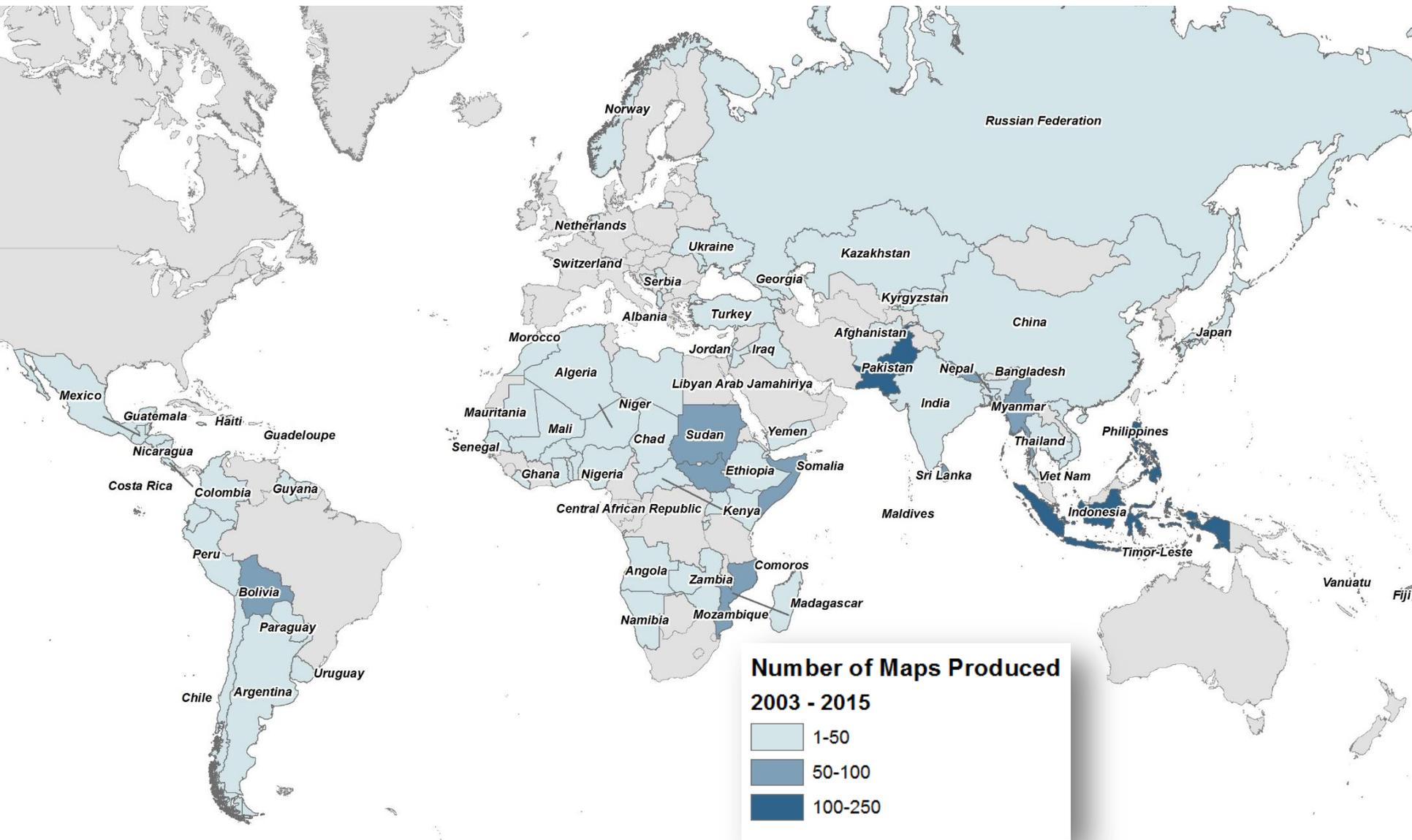
2. Training and capacity development

3. Research and innovation

UNOSAT's offices



Maps produced (2003-2015)



Number of Maps Produced

2003 - 2015

- 1-50
- 50-100
- 100-250

Introduction to UNOSAT



50%

MAPPING

Research, Analysis &
Applications

50%

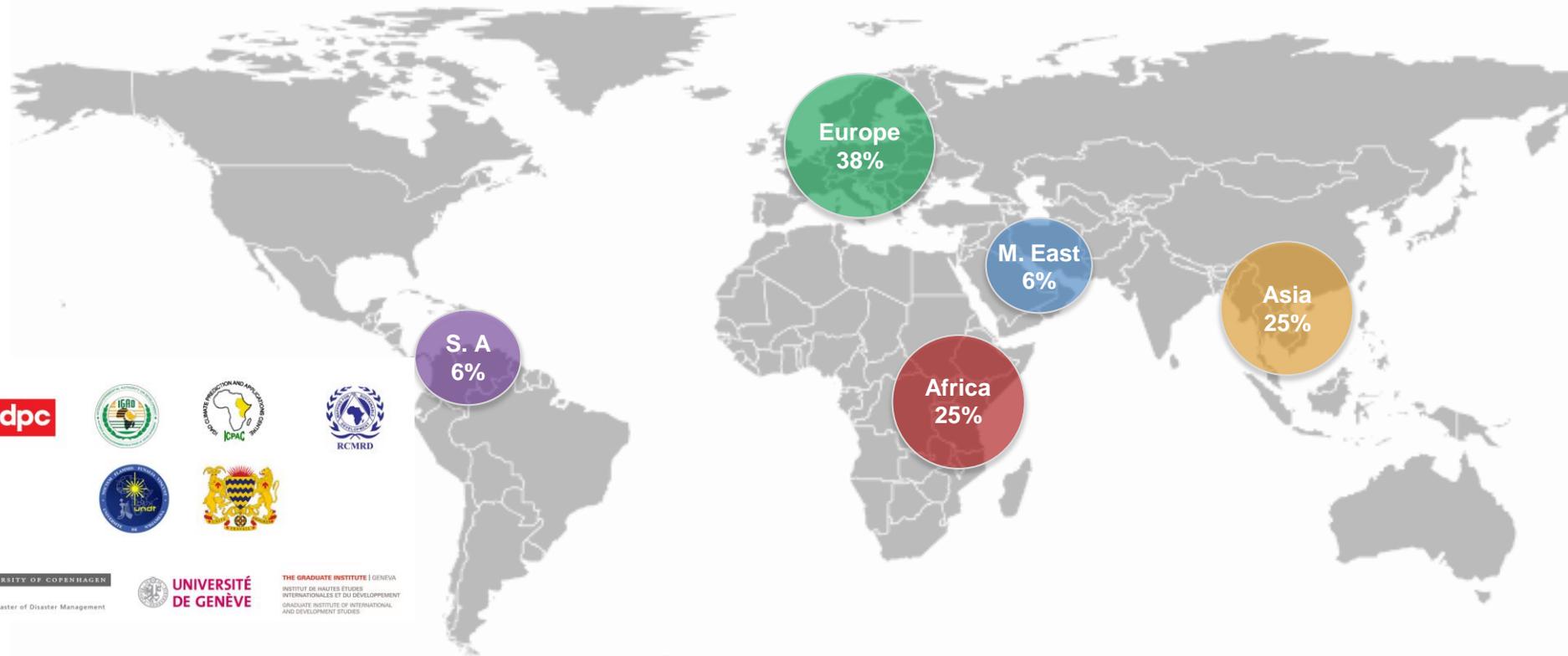


Training & Capacity Development

Hands-on, Data and
Knowledge Transfer

Knowledge transfer

Capacity development – beneficiaries (2006 – 2015)



adpc



UNIVERSITY OF COPENHAGEN

Master of Disaster Management

UNIVERSITÉ DE GENÈVE

THE GRADUATE INSTITUTE | GENEVA
INSTITUT DE HAUTES ÉTUDES INTERNATIONALES ET DU DÉVELOPPEMENT
GRADUATE INSTITUTE OF INTERNATIONAL AND DEVELOPMENT STUDIES

Activities

- Master level training
- Basic & advanced courses
- In-country capacity building programmes
- Workshops and information sharing

Beneficiaries

814

28% 72%

Learning events

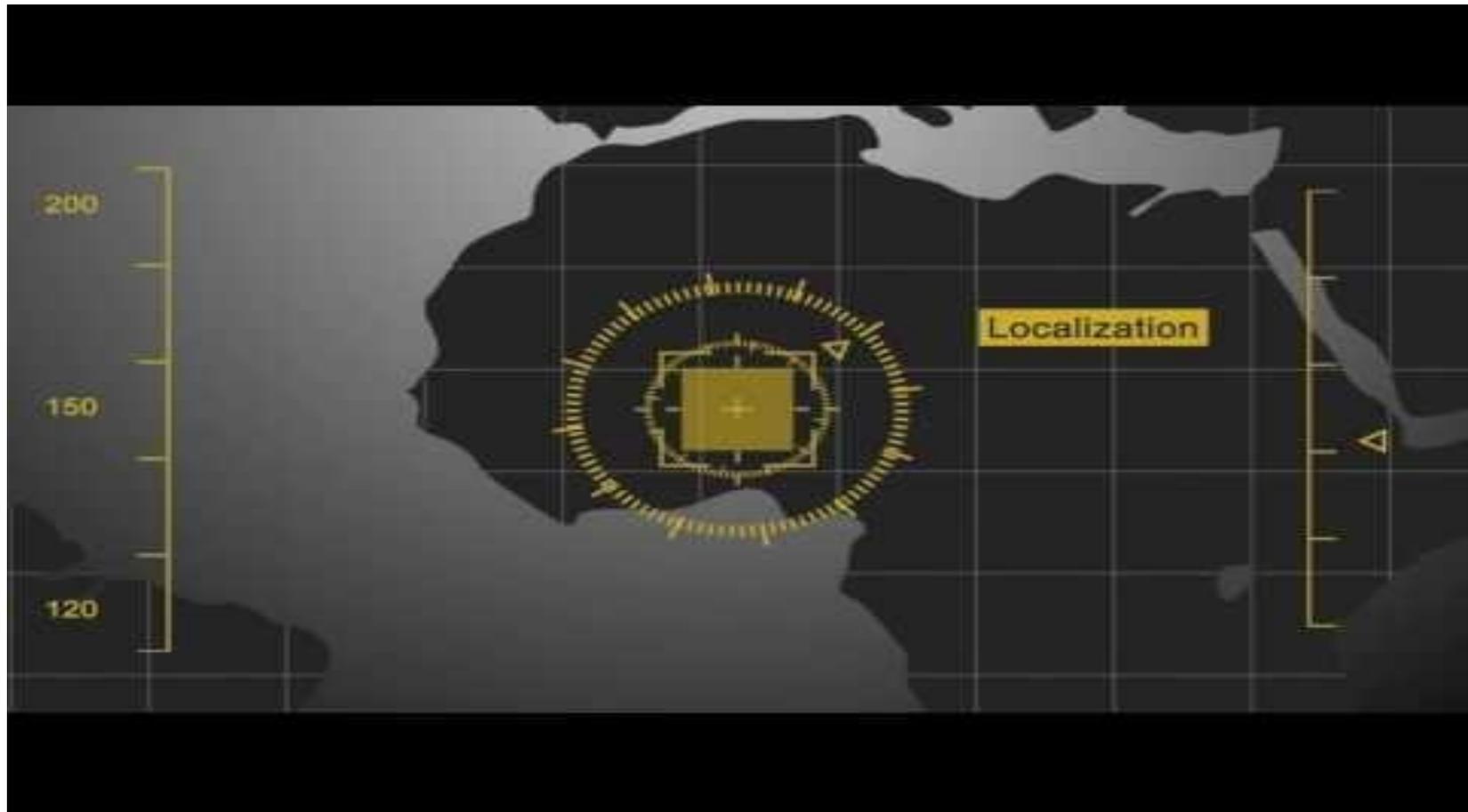
8000+

Knowledge sharing events

Organisational Affiliation

- 47% National authorities
- 23% Academic
- 15% NGOs
- 8% Regional organisations
- 7% UN system

ResEau Chad: Sustainable water management





Raising awareness on empowering and encouraging girls and young women to consider studies and careers in ICT



“The girls [...] really enjoyed it [...]. It was a great insight for them (and for us) on the application of science and I am sure will go on to motivate the girls in their careers.”



United Nations Institute for Training and Research



United Nations
Educational, Scientific and
Cultural Organization



Satellite-Based Damage Assessment of Cultural Heritage Sites

2015 Summary Report of
Iraq, Nepal, Syria & Yemen

June 2016



UNOSAT



United Nations Institute
for Training and Research

Cultural Heritage Damage Assessment



NEWS

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Middle East

Palmyra's Temple of Bel destroyed, says UN

1 September 2015 | Middle East

Before

After



Pair of columns left standing



<

Now Playing

U.N.: ISIS destroys 1st-century temple

04:55

Syrian antiquities chief: Palmyra taken hostage by ISIS

01:53

ISIS destroys Palmyra temple, continues Syrian assault

02:25

ISIS destroys ancient Syrian temple

02:22

Saving Syri from ISIS

>

Story highlights

NEW: The Temple of Bel has been destroyed, the U.N. says

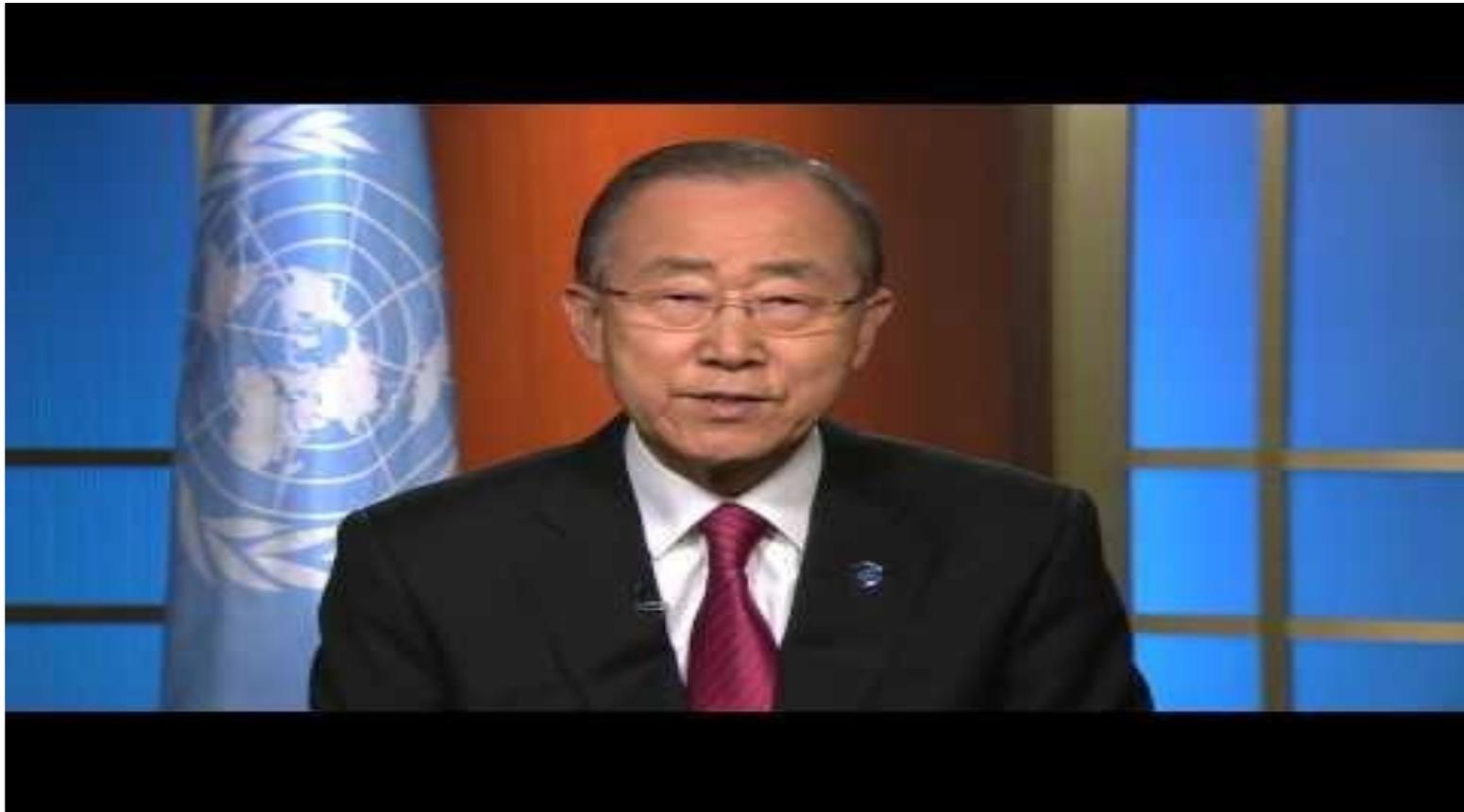
The Temple of Bel dates back 2,000 years

which for nearly 2,000 years has been the center of religious life in Palmyra, Syria -- was no longer standing, despite conflicting reports earlier in the day that it was not fully demolished.

UNOSAT Manager Einar Bjorgo said he could "confirm destruction of the main building of the Temple of Bel as well as a row of columns in its immediate vicinity."

(CNN)—One of the most culturally significant pieces of architecture in the world has been destroyed, the United Nations said on Monday.

The U.N. training and research agency released satellite images and analysis that confirmed the Temple of Bel --



Conclusions

- 15 years: From imagery to impact
- UNOSAT knowledge transfer to countries transforms concepts into action
- Integrating earth observation into existing structures is key for impact on society

UNITAR Operational Satellite Application Programme (UNOSAT)

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