

ISSMGE TC222 Geotechnical BIM and Digital Twins Online Workshop

National Geotech Databases & Asset Registers

Thursday May 30th | 10:00 (Paris) | 16:00 (Hong Kong) | 4:00 (New York)

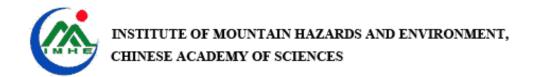
Duration: 2 hours

with talks from:

Grzegorz Ryżyński (Polish Geological Institute), Dongri Song (Institute of Mountain Hazards and Environment), Rob van der Krogt (TNO – Geological Survey of the Netherlands), Ben Gislon (ARUP)











Welcome to the 4th ISSMGE TC222 online Workshop!

Agenda



10h00: Welcome

10h05: Introduction about ISSMGE TC222 (5min)

• 10h10: Introduction about national geotech database and asset registers (5min)



10h15: PGI presentation – Grzegorz Ryżyński (20min + 5 for Q&A)



10h40: IMHE presentation – Dongri Song (20min + 5 for Q&A)



11h05: TNO presentation – Rob van der Krogt (20min + 5 for Q&A)

• 11h30: NUAR presentation – Ben Gilson (20min + 5 for Q&A)

11h55: Wrap-up (5min)

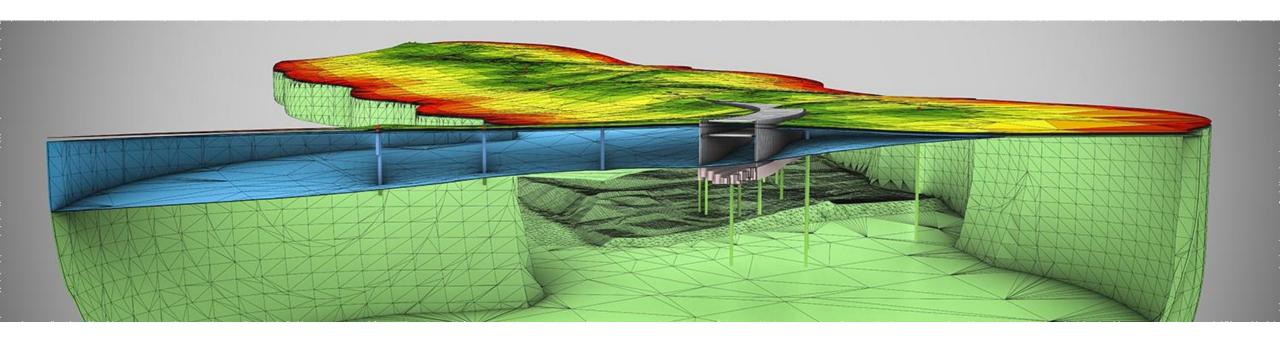
For Q&A



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Introducing ISSMGE TC222

Magnus Rømoen (Chair, NGI) & Mickaël Beaufils (Vice-Chair, BRGM)

ISSMGE



International Society for Soil Mechanics and Geotechnical Engineering

 90 members societies / national bodies and around 20,000 individual members

• 37 Technical Commitees: 7 about Fundamentals (TC1xx), 21 about Applications (TC2xx), 9 about Impact on Society (TC3xx)

TC222: BIM & Digital Twins for Geotechnics

TC222 Council





Magnus Rømoen

NGI



Vice-chair

Mickaël Beaufils

BRGM



Secretary

Mats Kahlström

NGI





Jelena Ninic

University of Birmingham

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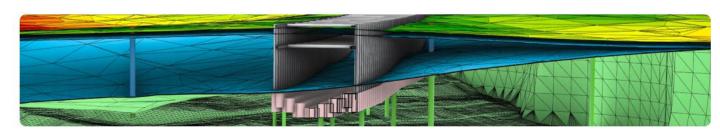


- On LinkedIn:
 - https://www.linkedin.com/company/issmge-tc-222/



- On Youtube:
 - https://www.youtube.com/channel/UC7eMKzvagK7DN3MnlvK7yCQ

Previous workshops recordings are available!





ISSMGE TC222

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3rd ISSMGE TC222 workshop - Digital Standards for ...

303 vues • il y a 11 jours

2nd ISSMGE TC222 workshop - Frontiers in...

217 vues • il y a 2 mois

1st ISSMGE TC222 workshop

1 k vues • il v a 1 an

YouTube

https://www.youtube.co m/channel/UC7eMKzva gK7DN3MnlvK7yCQ

Interactive Technical Talk (Episode #17)

IITT Speakers - TC222 Geotechnical BIM and Digital Twins



YouTube



Mickaël Beaufils
Data Engineer,
BRGM, France.
(Vice-chair of TC222,
Chair of OGC
GeoScienceDWG)

Digital standards for FAIR geotechnical data



Amanda Huang
Lecturer, Department of
Civil and Construction
Engineering, Swinburne
University of Technology,
Australia
(TC222 Member)

From BIM to Digital Twin for Underground Construction



Ashtarout Ammar Assistant Professor, Myers-Lawson School of Construction, Virginia Tech, USA

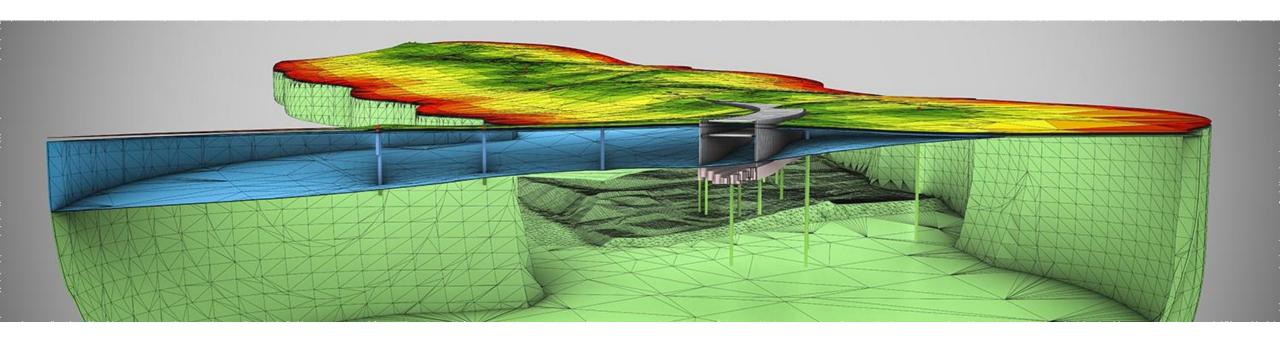
Digital Twins for Transportation Asset Data Management



Sankar V S
Director, Digital Services
Leader (East Asia – Arup)
(Co-Chair Hong Kong
Internet of Things
Alliance)

Citywide Digital Twin enabled by Artificial Intelligence https://www.youtube.co m/watch?v=MOhqj3TsXf

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Introducing Workshop Topic

Magnus Rømoen (Chair, NGI) & Mickaël Beaufils (Vice-Chair, BRGM)

In the previous episode (TC222 Workshop #3)



- An overview of digital standards for geotechnical data and synergies between:
 - AGS
 - DIGGS
 - buildingSmart International (bSI)
 - Open Geospatial Consortium (OGC)





Magnus Rømoen



Mickaël Beaufils



Mats Kahlström



Neil

Chadwick

Dan

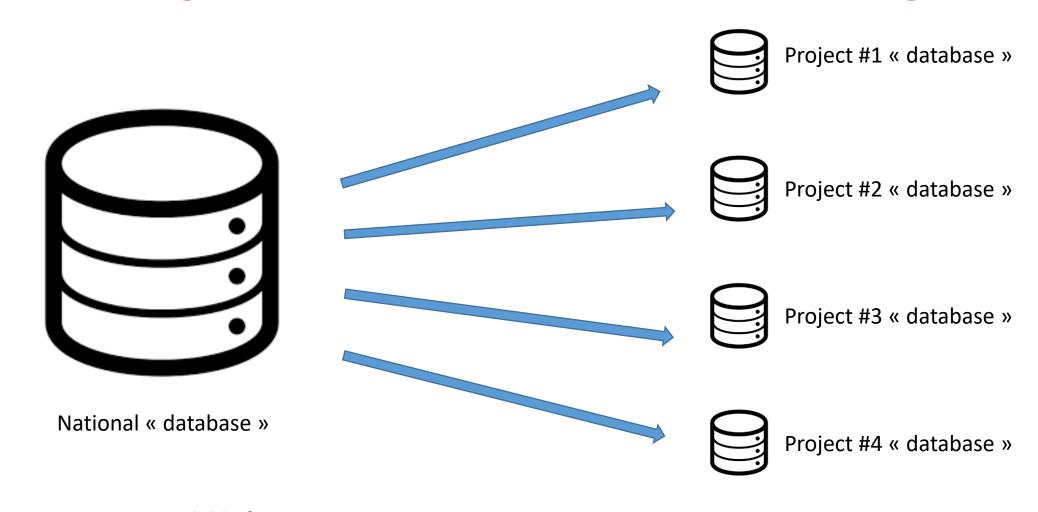
Ponti



Jonas Weil

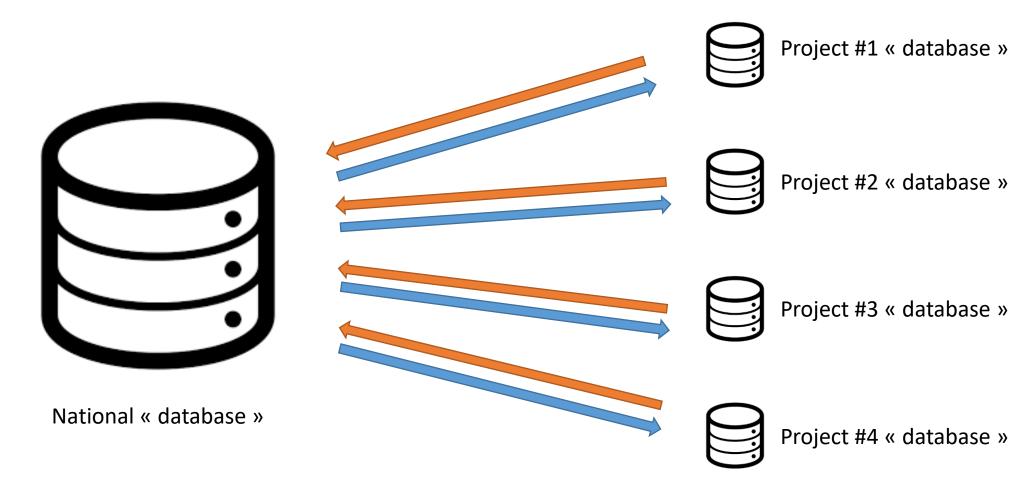
Important ingredients for « big » databases and data exchange

National geotech databases and asset registers



Resources available for projects

National geotech databases and asset registers





Contributions from projects to build the national database / make it bigger

National geotech databases and asset registers



National geotech database or asset registers

- Which services are offered?
- How is the national database filled?
- Governmental support: existing regulations in the country?
- Technical aspects: formats, technologies behind?

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ARUP • :

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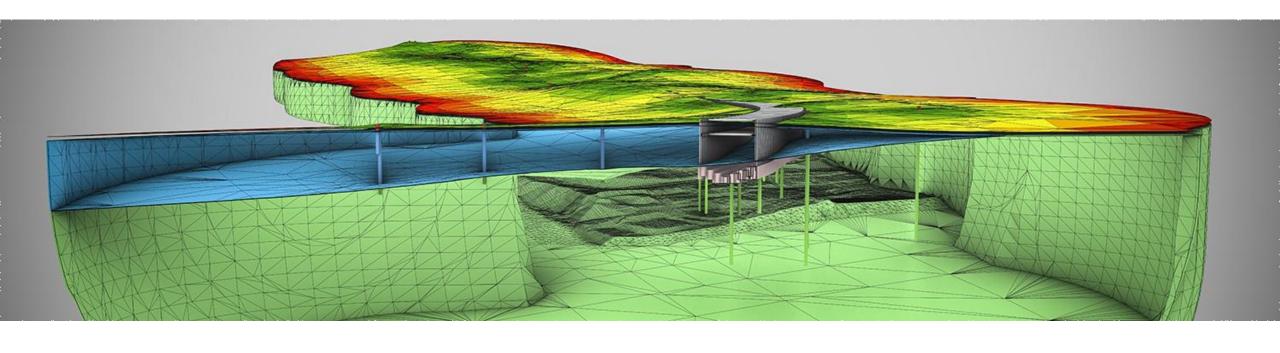
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Wrap-up

Magnus Rømoen (Chair, NGI) & Mickaël Beaufils (Vice-Chair, BRGM)

Conclusion & perspectives

- National geotech databases and asset registers
 - An overview of some practices in some countries
 - Data and services available
 - Organization of the data collection
 - Technical informations
 - Governance, regulations and governmental support

To be continued with more examples...

Next event(s)

- ISSMGE TC222 5th Online Workshop
- Date: Tuesday June 25th, 10.00 12.00 CET (time to be confirmed)
- Topics:
 - National geotechnical database and assets registers Episode II
- Would like to propose you / someone as speaker?
 - Contact us at

https://www.issmge.org/committees/technical-committees/applications/geotechnical-bim-and-dt

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