



NextGen Nordic Geotechnics (NG²) is a Nordic early-career researcher network advancing geotechnical engineering innovations for climate resilience, sustainability, and digital transformation. The **Interdisciplinary Knowledge Hub (IKH)** hosts bi-monthly virtual seminars throughout the project period, first series focusing on **thematic area TA3: Digital and Data-driven Approaches**. TA3 is led by Monica Löfman and Milad Kowsari and it emphasizes on the integration of *digitalisation*, *artificial intelligence*, and *data-driven methods* in geotechnical practice.

Read more about NextGen Nordic Geotechnics (NG²) at
<https://www.ngi.no/en/projects/nextgen-nordic-geotechnics-ng2/>

IKH#2 Seminar: Statistical methods and machine learning in soil characterization

Date: Wednesday 4.11.2026

Time: EET 13:00-14:30 (UTC+2)

Where: Teams ([link](#))

This seminar is intended for all the NG2 network partners and others interested in the research topics discussed in the event. The seminar will be recorded. Inquiries about the seminar can be sent to monica.lofman@aalto.fi.

Program:

- 13:00-13:05 Welcome / Monica Löfman, Aalto University
- 13:05-13:10 Assessment of sample quality: brief review / **Mike Long**, OsloMet / NGI
- 13:10-13:30 Non-destructive sample quality assessment via CT scanning / **Jubert Andres Pineda**, University of Newcastle Australia (15 min + Q/A)
- 13:30-13:35 Break
- 13:35-13:55 Machine learning soil classification within the GRID EU-Project / **Enrico Soranzo**, Boku University (15 min + Q/A)
- 13:55-14:15 Explainable insight into the vision-based classification of soil core samples from close-range Images / **Andreas-Nizar Granitzer**, NGI (15 min + Q/A)
- 14:15-14:30 Discussion (chair: Milad Kowsari, University of Iceland)