

Tentative Programme for the Workshop
Characterizing the built environment stocks: methods and case studies

Day 1: August 11, 2016

09:00-09:30 Welcome and introduction

- 09:00-09:05 Gang Liu (Workshop host) + Ulrich Kral (MINEA chair)
- 09:05-09:15 Round the table
- 09:15-09:30 Henrik Wenzel (Head of SDU Life Cycle Engineering)

09:30-12:00 European case studies (part I)

- 09:30-09:50 Felipe Vasquez (NTNU): Dynamic MFA modelling for building stocks
- 09:50-10:10 Benjamin Schnitzer (TU Darmstadt): Urban Mining Cadastre – INSPIRE
European-wide building-model as harmonized foundation?
- 10:10-10:30 Antonia Köhn (TU Darmstadt): Material stocks of the non-residential
building sector
- 10:30-10:50 Satu Huuhka (TU Tampere): Quantifying and characterizing the Finnish
building stock
- **10:50-11:00 Coffee break**
- 11:00-11:20 Flitz Kleemann (TU Vienna): Building as a potential material resource
- 11:20-11:40 Antonino Marvuglia (LIST Luxembourg): Geospatial characterization of
building material stocks to support environmental LCA at the city scale
- 11:40-12:00 André Thomsen (TU Delft): Understanding obsolescence: an
interdisciplinary model to analyse the life cycle and life cycle
expectations of (residential) buildings

12:00-13:00 Lunch break (in the meeting room)

13:00-14:00 European case studies (part II)

- 13:00-13:20 Regine Ortlepp (IOER): Mapping the anthropogenic stock of Germany:
Bottom-up, top-down, and combination of approaches
- 13:20-13:40 Ulrich Kral (TU Vienna): Material stocks in the subway system and
underground networks in Austria
- 13:40-14:00 Gorazd Žibret (GeoSurvey Slovenia): Construction and demolition and
mining waste recycling practices in South East Europe
- 14:00-14:20 Colin Rose (University College London): Triage: Designing a Materials
Management Framework for secondary use of construction components

14:20-14:40 Coffee break (including a group photo session)

14:40-15:40 Asian case studies

- 14:40-15:00 Keijiro Okuoka (Nagoya University, Japan): The weight of society over time and

space: a case of Japan

- 15:00-15:20 Feng Shi (Shandong Academy of Sciences, China): Characterizing the built environment stocks in Chinese cities
- 15:20-15:40 Han Shi (City University of Hong Kong): Urban metabolism of Hong Kong and Shenzhen, China

15:40-17:00 Discussion on system definition and data

- 15:40-16:30 In two groups (sub-systems, terminologies, case studies, data availability...)
 - Group 1: Buildings
 - Group 2: Infrastructure
- 16:30-17:00 Plenary and summary

18:30-22:00 Get-together dinner in town

Day 2: August 12, 2016

09:00-10:30 Discussion on methods

- 09:00-10:00 In two groups (pros and cons, key parameters, uncertainties, examples...):
 - Group 1: Top-down approaches: bulk MFA; dynamic MFA using lifetime...
 - Group 2: Bottom-up approaches: Statistics based; GIS/RS based...
- 10:00-10:30 Plenary and summary

10:30-10:45 Coffee break

10:45-12:00 Discussion on implications of results

- 10:45-11:30 In two groups (perspectives, potentials, real applications...):
 - Group 1: Implications for industry
 - Group 2: Implications for governmental policy makers
- 11:30-12:00 Plenary and summary

12:00-13:00 Lunch break (in the meeting room)

13:00-13:30 Output as a review paper/report?

- Outline, timeline, tasks...

13:30-14:00 MINEA WG1 next steps

- Workshop place, host, partners to be invited...

14:00-14:30 Open discussion on future collaboration

- Horizon 2020, EU-Asia...

14:30 End of workshop