Roundtable 2: LCA in Action

focus on sustainable built environment

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### Panelists

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization/Position</th>
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<tr>
<td>Josefina Lindblom, DG ENV</td>
<td>Works at the European Commission, in DG Environment. Since 2011, she is working on Sustainable Buildings, and have managed the development of Level(s), the European framework for assessment and reporting of sustainable performance of buildings. Her main focus now is to introduce the minimisation of whole life carbon emissions into policy and market initiatives.</td>
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<td>Adam Szymanski, Lodzkie Region</td>
<td>From the International Projects Unit of the Promotion Department Lodzkie Region, Poland. Enthusiast of science, innovative technologies and pro-environmental solutions. He works at the interface of public administration, academia, SMEs, EU funds, projects dedicated to circular economy and LCA issues and related tools.</td>
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<td>Giorgio Bonvicini, RINA</td>
<td>Senior Energy Engineer at consulting company RINA and co-chair of the working group on Districts at the European Technology and Innovation Platform on Renewable Heating and Cooling. He has experience in energy transition topics and specifically in resource efficiency analyses and Life Cycle Assessments in buildings and industrial processes. He is also lecturer of Carbon Footprinting at the Master in Climate Change of Politecnico di Torino.</td>
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Introduction

Good Practices Guide

Promoting life-cycle based approach in policy instruments through the introduction of the Life Cycle Assessment methodology

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LCA for resource efficiency
LCA in waste and material flows
LCA in public procurements
Training and capacity building in LCA
LCA in monitoring and evaluation
A map of selected Good Practices

LCA for resource efficiency
1. LCA for evaluation of construction works
2. Environmental Impact Assessment of Renovated Multi-apartment Building Using LCA
3. Environmental Product Declaration as an example of LCA application in construction
4. Calculation of Carbon Footprint in services of the Commonwealth of the Region of Pamplona
5. Resource efficient land use to promote sustainable land design and development

LCA in waste and material flows
6. Optimization of the regional management of Construction & Demolition Waste through the LCT approach
7. GERLA project Waste management in Lombardy – Life cycle assessment
8. URSA - Alqueva by-products circulation units
9. Application of Life-cycle assessment in optimization of municipal waste management systems

LCA in public procurements
10. Green public procurement in Slovenia
11. Manuals of the Public Procurement Office on the use of green procurement and the life cycle.
12. Active support of the contracting authority by the Public Procurement Office through LCC calculators
13. Green public procurement and LCC in practice – Green vehicles

Training and capacity building in LCA
14. Training and capacity building on circular economy and LCA in Slovenia
15. Course “Business Models in the Circular Economy”
16. Capacity building in life cycle assessment - Lodz University of Technology
17. KEINO Academy for sustainable procurement management

LCA in monitoring and evaluation
18. National Registry of Carbon Footprint (CF), CO2 compensation, and CO2 absorption projects
19. Wines of Alentejo Sustainability programme – WASP
20. Regional Green House Gas (GHG) emissions Inventory
21. Doing good: carbon handprints as assessing positive impacts of companies and the public sector
**Good Practice nº 1**

**LCA for evaluation of construction works**

- Multi-storied buildings were constructed by concrete or wood materials. LCA and LCC were used to obtain comparable data for the time span of 100 years.

**THE HOUSING FINANCE AND DEVELOPMENT CENTRE OF FINLAND (ARA)**
Helsinki-Uusimaa, Finland (Suomen)

**Date:** February 2018 - Ongoing

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**Good Practice nº 2**

**Environmental Impact Assessment of Renovated Multi-apartment Building Using LCA**

- The life cycle has shown that renovation measures for multi-apartment buildings could reduce the impact on the climate change from 12% and 48%.

**KAUNAS UNIVERSITY OF TECHNOLOGY**
Lietuva, Lithuania (Lietuva)

**Date:** January 2018 - May 2018

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**Good Practice nº 3**

**Environmental Product Declaration as an example of LCA application in construction**

- Development of Environmental Product Declaration using LCA analysis for thermal insulation systems in the construction industry.

**ATLAS Sp. z o. o.**
Lodzkie, Poland (Polska)

**Date:** March 2014 - Ongoing

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**Good Practice nº 4**

**Optimization of the regional management of Construction & Demolition Waste through the LCT approach**

- The AWARE Group adopted the life cycle thinking approach (LCA and LCC) to maximize the resource-efficiency of the regional CDW management.

**LOMBARDY REGION**
Lombardia, Italy (Italia)

**Date:** April 2016 - Ongoing

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**Good Practice nº 10**

**Green public procurement in Slovenia**

- This practice describes the implementation and use of green public procurement legislation in Slovenia. The latter also considers the use of LCA methodologies.

**NATIONAL INSTITUTE OF CHEMISTRY**
Zahodna Slovenija, Slovenia (Slovenija)

**Date:** January 2011 - Ongoing

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**Good Practice nº 18**

**National Registry of Carbon Footprint (CF), CO2 compensation, and CO2 absorption projects**

- Registry to promote the calculation and reduction of CF of organizations, and encourage projects to improve soil capacity and become a tool to tackle climate change.

**MINISTRY FOR ECOLOGICAL TRANSITION AND DEMOGRAPHIC CHALLENGE**
Comunidad de Madrid, Spain (España)

**Date:** March 2014 - Ongoing
Discussions

- Why should we focus on the built environment? And why is sustainability key (including also social and economical aspects)?

- How from your point of view do you see sustainability in built environment solved? What are the challenges or issues to it?

- What is, in your opinion, the way forward, how do you see the future of the sector?
Thank you!

Questions welcome