NORDIC LCA GUIDELINE FOR INFRASTRUCTURE
OVERVIEW OF ONGOING WORK

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Joint effort between NPRA, STA and FTA

NordLCA project initiated in 2017

WP1 – Phase II: Nordic LCA Guideline for Infrastructure

Draft prepared by Østfoldsforskning during 2018
NORDIC LCA GUIDELINE – MOTIVATION

• Narrow down playing field defined in ISO and EN standards
• Support methodological consistency and implementation
• Provide base for development of National Guidelines
NORDIC LCA GUIDELINE – STRUCTURE

• Introduction
• LCA in short
• Planning process
• Study definition / Implementation
NORDIC LCA GUIDELINE – STRUCTURE

- Communication
- National Guidelines
- Green Procurement
- Procurement of LCA Services
• Provide support for decision making across planning process stages
• Develop material to support environmental certification and third party verified communication of environmental performance
STUDY DEFINITION – PRODUCT SYSTEM

• Transportation system
• Project
• Element
• Component
• Material
• One km of the straight-line distance between point A and point B
• Road infrastructure: one km of road (option to use m² available).
• Rail infrastructure: one km of railway
• Specific boundary definition across all planning process stages
• Based on EN 15804
• Management of activities requiring specific consideration addressed
• Recommendation on study assessment period
• 60 years suggested

• Longer or shorter assessment period may be defined when supported by the study goal and product system definition
STUDY DEFINITION – DATA QUALITY

• Progressive scale-up of quality requirements
• Based on EN 15804
• Focus on generic vs specific/EPD data
• Assumptions on technology development over study period
Based on EN 15804
Focus on Global Warming Potential
GWPFOSSIL – mandatory
GWPLULUC – recommended
GWPBIOGENIC – optional
Recommended to include core indicators