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About the presenter

Education:

- MSc, Aalto University
 - Environmental and Water Engineering

Work experience:

2014-2018 The Natural Step Nordic Oy Carbon footprinting, LCA

2019 SustainOnline Oy Reporting tool development

2020-present Positive Impact Finland Oy

Sustainability advisor & software developer



Carbon calculators - why?

- + Concrete way to measure progress
- + More legislative pressure
- + Customer wants
- + Marketing and sales



Carbon calculators - how?

- + Existing online tools
 - + Custom tools
- + Mobile applications
- + Microsoft Excel
- + Google Sheets



Different calculator types

Global / national level tools Industry specific Regional / city Company Product / service CO₂ calculators for personal use

Periodic - one time Annual Monthly Quarterly Real time?



User needs: what are the calculators used for?

- + Koskisen group: Corp footprint and product footprint calculator
- + Finlayson: company and select products
- + Finanssiala ry and partners: digitization of physical documents
- + Miils: carbon footprint of meals (demo)
- + Kotihiili: pilot for household CO2
- + Hiilipörssi: to calculate carbon impact of peatland restoration
- + CO2roadmap.com: to create fact based carbon neutrality roadmap and footprint calculations



CO2roadmap.com: calculations, goal setting and action planning in one place



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CO2 Roadmap[™] - How it works?



1. Set up the boundary and data sources 2. Collect data and create footprints

3. Set overall goal and targets

4. Create the roadmap

- Kickoff workshop to define the boundary
- Set up the system:
 - Categories and components
 - Sites and units
 - Emission factors
- Identify data sources and engage people to the project

- Collect the data from various sources
- Add it in the app
- Create footprints and other reports
- Export data and tables for further use (desktop graphics, CSR reports etc.)
- Set up the update and maintenance routines

- Set company level goal: target year and emission reduction percentage
- Define target year and reduction percentage for each component
- Evaluate and adjust overall goal vs. targets

- Brainstorm actions
- Assign them to components
- Quantify actions with reduction percentages and emission factor changes
- Assign time frame
- Follow up and track the progress.



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Quick demo

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Understanding CO₂ calculations

- + Comparability
- + Repeatability
- + Transparency
- + Methodology

Data quality

GIGO: garbage in, garbage out

Company data Emission factors -> open database?



