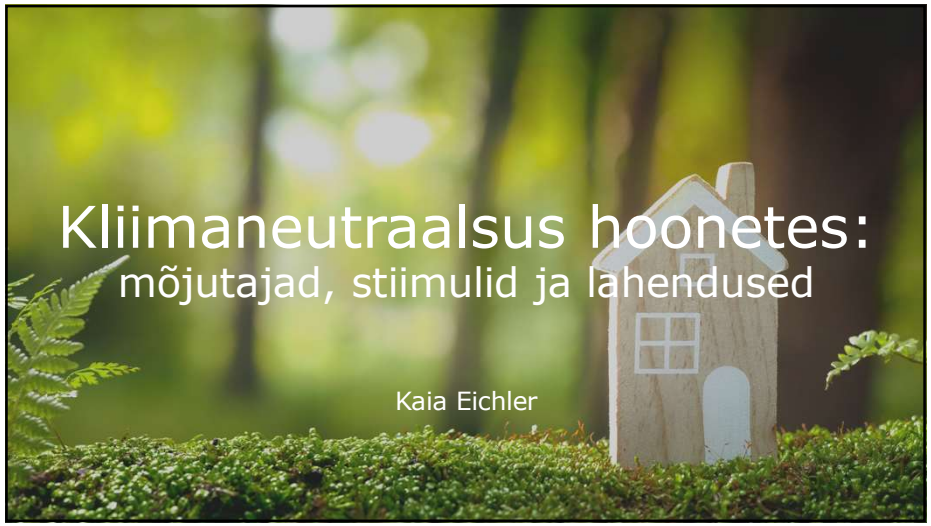
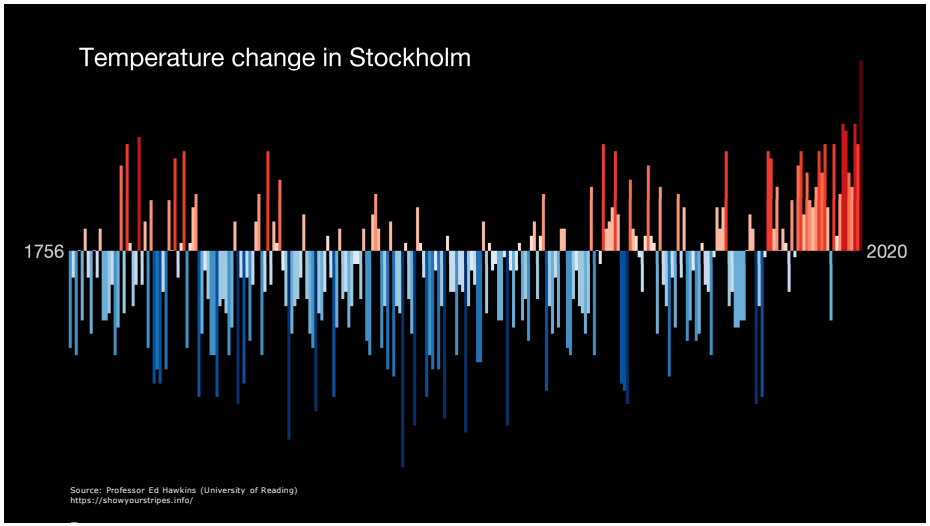
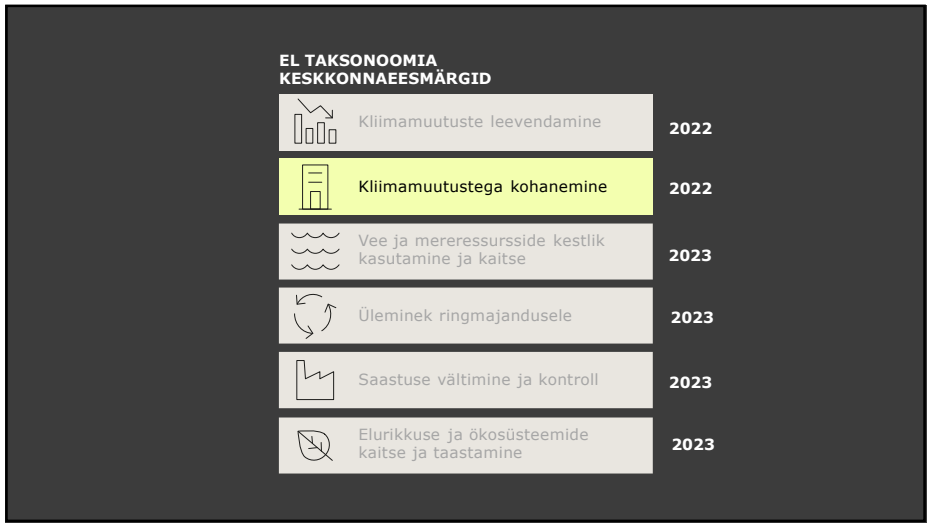

Kliimaneutraalsus hoonetes:
mõjutajad, stiimulid ja lahendused
Kaia Eichler

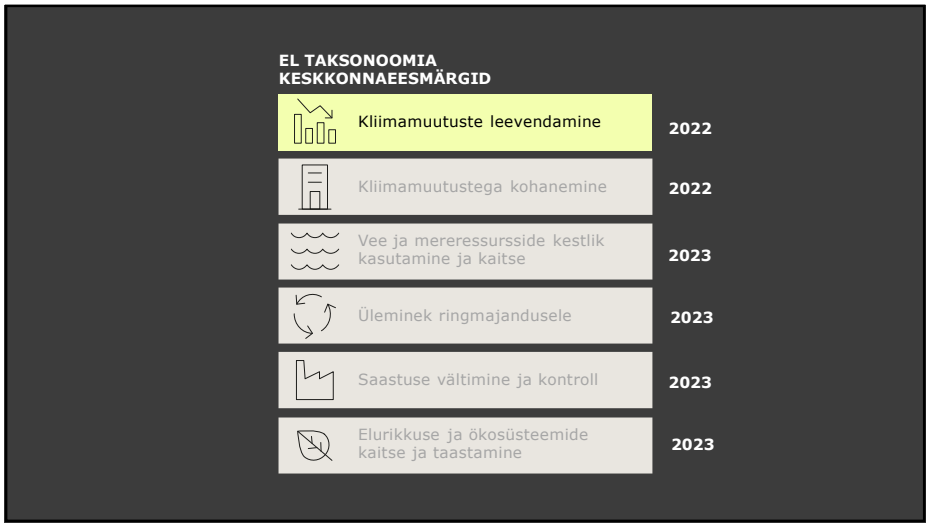
1


Temperature change in Stockholm
1756
2020
Source: Professor Ed Hawkins (University of Reading)
https://showyourstripes.info/

2


EL TAKSONOOMIA
KESKKONNAEESMÄRGID
Kliimamuutuste leevendamine
2022
Kliimamuutustega kohanemine
2022
Vee ja mereressursside kestlik kasutamine ja kaitse
2023
Üleminek ringmajandusele
2023
Saastuse vältimine ja kontroll
2023
Elurikkuse ja ökosüsteemide kaitse ja taastamine
2023

3


EL TAKSONOOMIA
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2023
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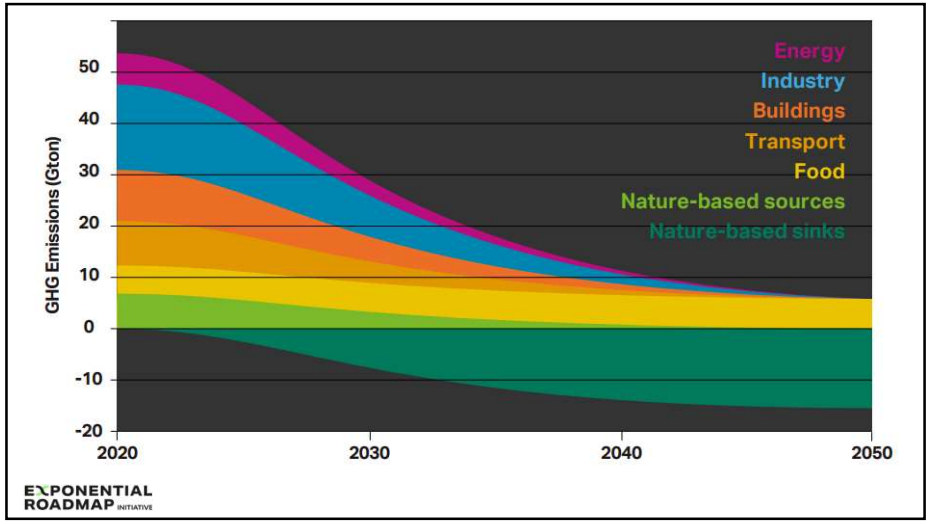
2023
Elurikkuse ja ökosüsteemide kaitse ja taastamine
2023

4



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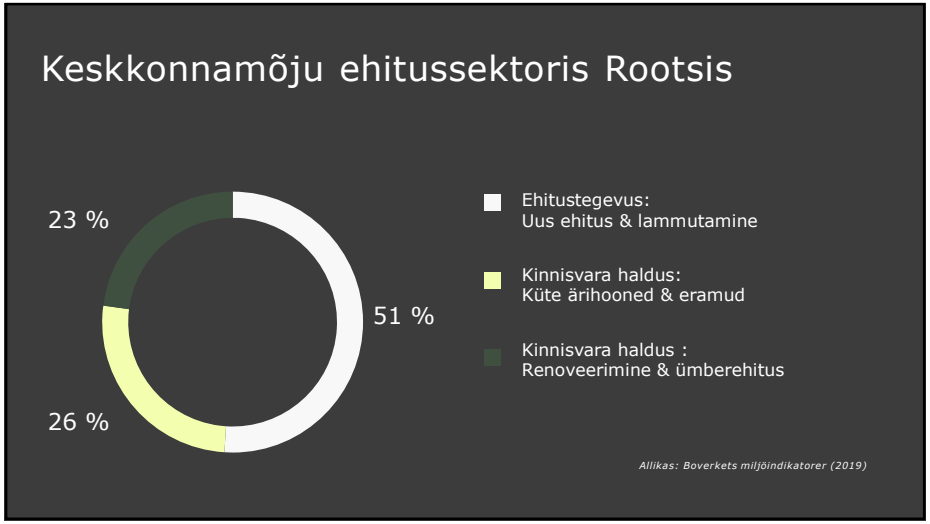

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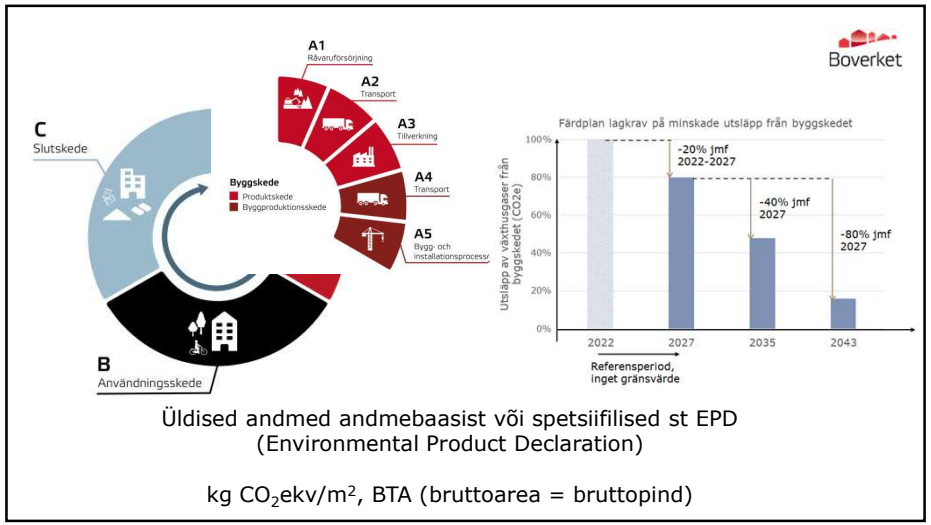

Üldised andmed andmebaasist või spetsiifilised st EPD (Environmental Product Declaration)

kg CO_2ekv/m^2, BTA (bruttoarea = bruttopind)

7

8

Steel industry
Fossil free steel
2045
Maritime industry
Fossil free domestic
2045
Fast-moving consumer goods industry
Fossil free value chain
2045
Recycling sector
Net zero greenhouse gas emissions
2040
Digitalisation consultancy industry
Halve energy use
2030
Cement industry
Climate neutral cement is here
2030
Fossil Free Sweden
Petroleum and biofuel industry
Climate neutral
2045
Gas sector
Fossil free energy gases
2045
Food retail sector
No new oil in plastic packaging
2030
Heavy road haulage
Trucks cut CO_2 emissions by 70%
2030
Concrete industry
Climate neutral concrete on the market
2030
Agricultural sector
Fossil free
2030
Forest sector
Bioeconomy on the rise
2045
Aggregates industry
Halve emissions
2030
Construction and civil engineering sector
Halve emissions
2030
Electricity sector
Fossil free
2030
Aviation industry
Domestic flights go fossil free
2030
Ski resort sector
Fossil free ski resorts
2027
Mining and minerals industry
Fossil free mining
2035
Automotive industry Heavy transport
50% electric trucks
2030
Heating sector
Fossil free
2030
Automotive industry Passenger cars
80% rechargeable cars
2030
22 Roadmaps
for fossil free competitiveness

9

Steel industry
Fossil free steel
2045
Maritime industry
Fossil free domestic
2045
Fast-moving consumer goods industry
Fossil free value chain
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Recycling sector
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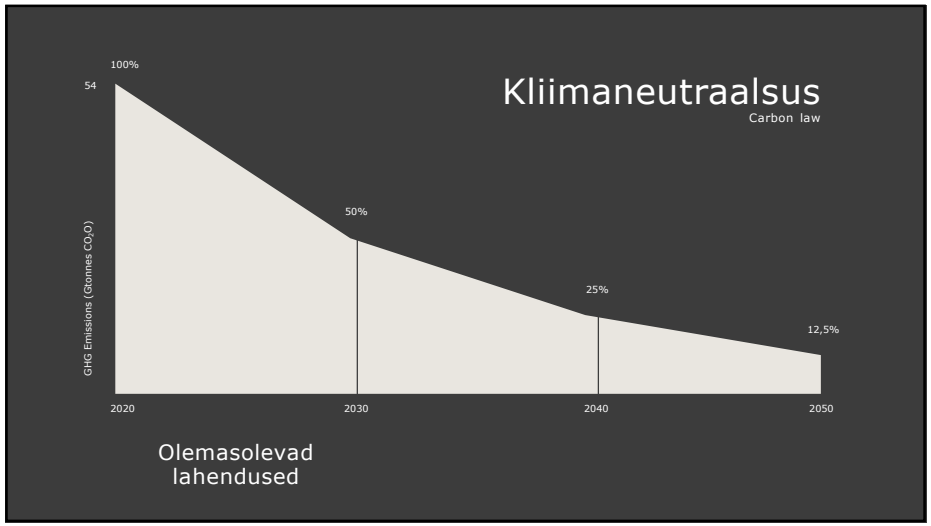
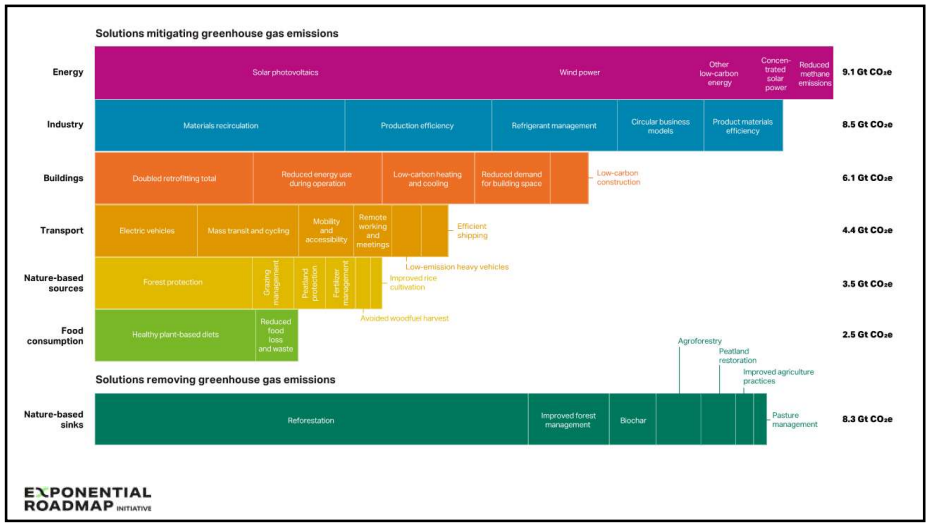
22 Roadmaps
for fossil free competitiveness

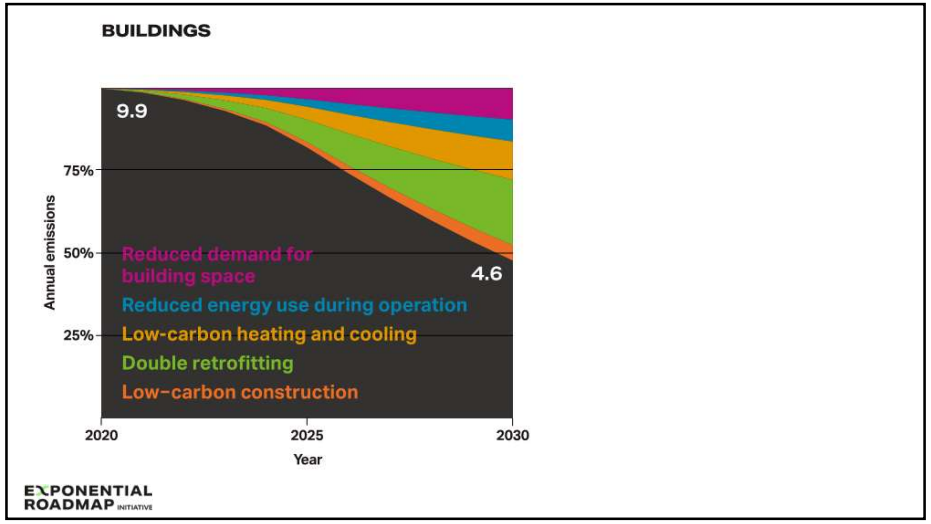
10


Kliimaneutraalsus
Carbon law
100%
54
50%
25%
12,5%
GHG Emissions (Gtonnes $CO_2$0)
2020
2030
2040
2050
Olemasolevad lahendused

11


Solutions mitigating greenhouse gas emissions
Energy
Solar photovoltaics
Wind power
Other low-carbon energy
Concentrated solar power
Reduced methane emissions
9.1 Gt CO_2e
Industry
Materials recirculation
Production efficiency
Refrigerant management
Circular business models
Product materials efficiency
8.5 Gt CO_2e
Buildings
Doubled retrofitting total
Reduced energy use during operation
Low-carbon heating and cooling
Reduced demand for building space
Low-carbon construction
6.1 Gt CO_2e
Transport
Electric vehicles
Mass transit and cycling
Mobility and accessibility
Remote working and meetings
Efficient shipping
4.4 Gt CO_2e
Nature-based sources
Forest protection
Grazing management
Peatland protection
Peatland management
Low-emission heavy vehicles
Improved rice cultivation
Avoided woodfuel harvest
3.5 Gt CO_2e
Food consumption
Healthy plant-based diets
Reduced food loss and waste
2.5 Gt CO_2e
Agroforestry
Peatland restoration
Improved agriculture practices
Solutions removing greenhouse gas emissions
Nature-based sinks
Reforestation
Improved forest management
Biochar
Pasture management
8.3 Gt CO_2e
EXPONENTIAL ROADMAP INITIATIVE

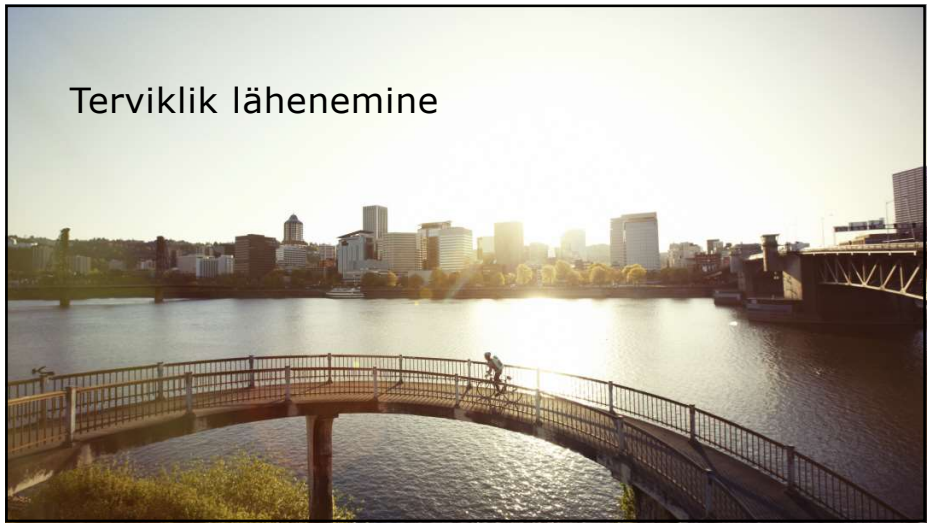
12


BUILDINGS
9.9
4.6
75%
50%
25%
Annual emissions
Reduced demand for building space
Reduced energy use during operation
Low-carbon heating and cooling
Double retrofitting
Low-carbon construction
2020
2025
2030
Year
EXPONENTIAL ROADMAP INITIATIVE

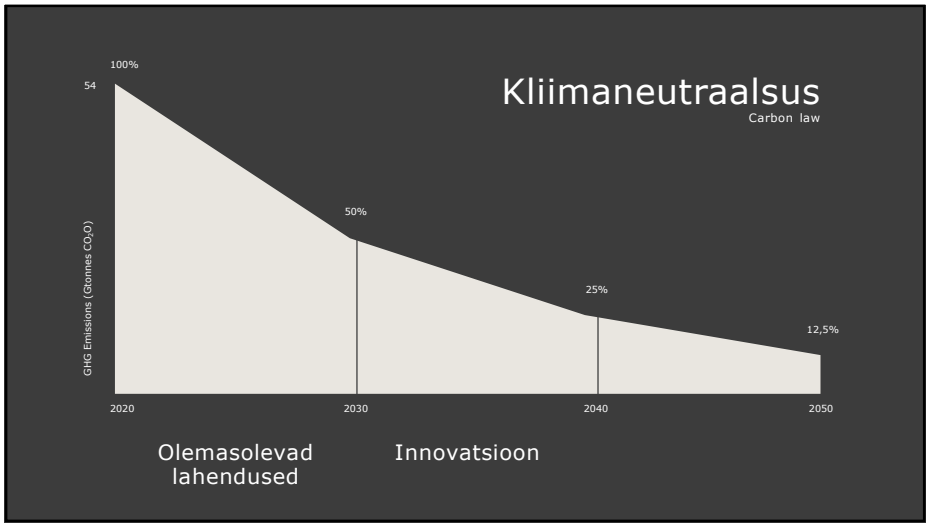
13

Olelusring

14


Terviklik lähenemine

15


Kliimaneutraalsus
Carbon law
100%
54
50%
25%
12,5%
GHG Emissions (Gtonnes CO2O)
2020
2030
2040
2050
Olemasolevad lahendused
Innovatsioon

16

Innovatsioon

17

Partnerlus

18

Oma mõju
mõistmine

19

Tänan!
https://www.linkedin.com/in/kaia-eichler

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