

Rudus Biodiversity Programme

Experiences and Opportunities for Precast Sector

Quality and Environmental Manager

Terhi Rauhamäki

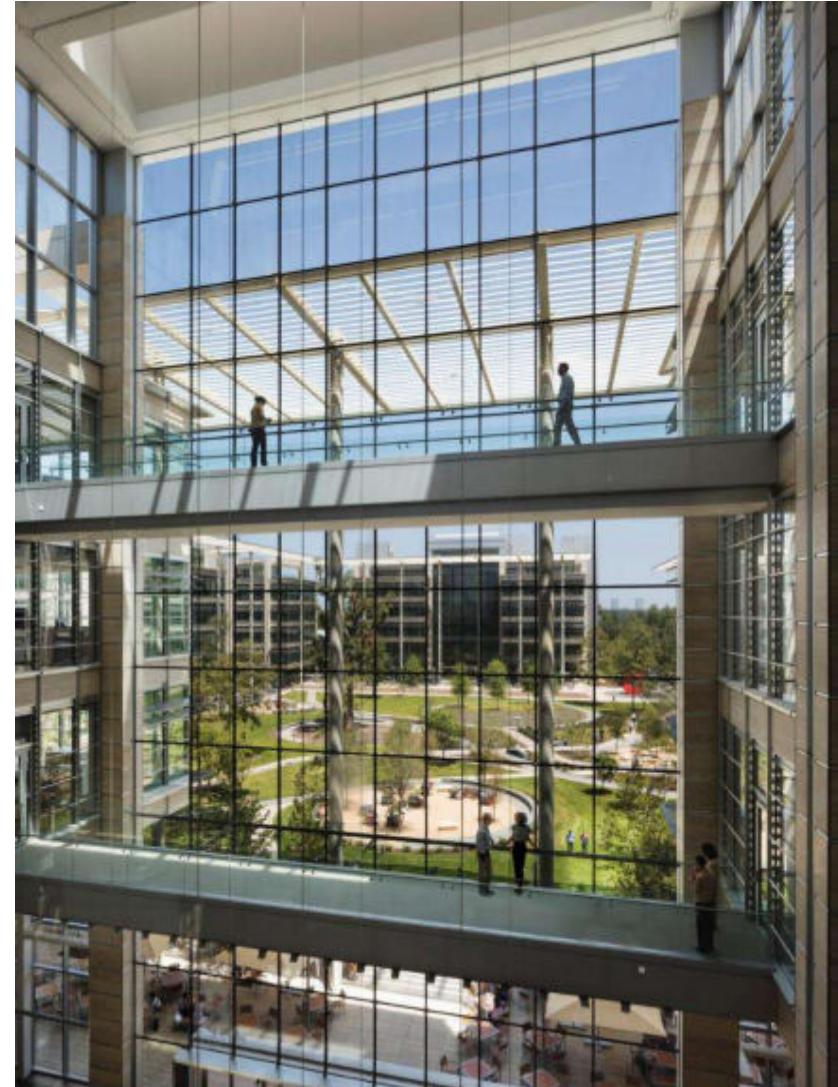
29.9.2023

Rudus is part of the leading building materials business in the world - CRH plc Group



Operates in 29 countries
Employs 75 800 people
3 200 locations
Sales 2022 32,7 billion €
Listed in the Dublin, London and New York stock exchanges

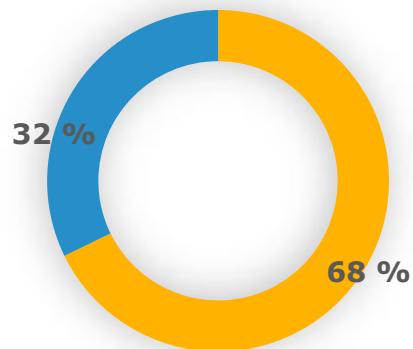
- CRH manufactures and supplies a range of integrated building materials, products and innovative solutions for the construction industry.
- Our products can be found throughout the built environment from major public infrastructure to commercial buildings and residential structures.



Rudus

Business Operations

Concrete and Aggregate Materials
Concrete Products
Recycling



Percentage of sales

- Concrete and Aggregate Materials
- Concrete Products

399
M€

sales

Personnel appr.
961

Rudus in Finland

Ready Mixed Concrete

Plants	49
Personnel	101

Aggregates

Gravel pits and rock quarries	86
Crushing plants	11
Personnel	103

Recycling

Concrete waste reception centres	13
Fly ash delivery points	5
Green soil reception points	10
Personnel	5

Concrete Products

Plants	17
Personnel	515

Concrete Products

Infra Elements

Nurmijärvi
Kurikka
Lappeenranta



Water Solutions

Lohja
Tampere
Oulu



Facades and Stairs

Tuusula
Kitee
Savonlinna
Savonranta
Suonenjoki
Suomussalmi



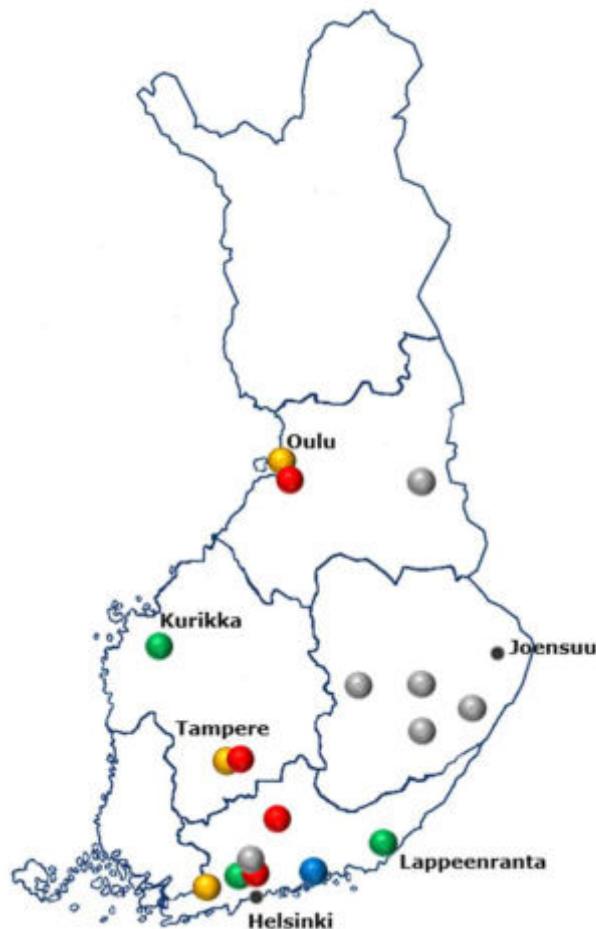
Architectural Products

Tuusula
Tampere
Orimattila
Oulu



Elpo Elements

Kotka



As a pioneer in environmental responsibility

1990

- Research and development of "Betoroc", recycled concrete, is started.

2000

- Research and development of the low carbon “Rudus Green Concrete”, is started.

2010

- The biodiversity programme, "the Rudus LUMO programme", is launched.
- Research and development of "Uuma Products" made from recycled concrete, is started.

2020

- Environmental Responsibility Programme related to climate change, circular economy and biodiversity is published.
- The process of setting Science-Based Targets for Nature (SBTN), is started.

Rudus
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Concrete Acts!

Rudus Environmental Responsibility Programme

MISSION

We create low-carbon solutions for future generations, supporting biodiversity and promoting a circular economy



Climate action



VISION

We are part of emission-free construction



CIRCULAR ECONOMY SOLUTIONS



BIODIVERSITY

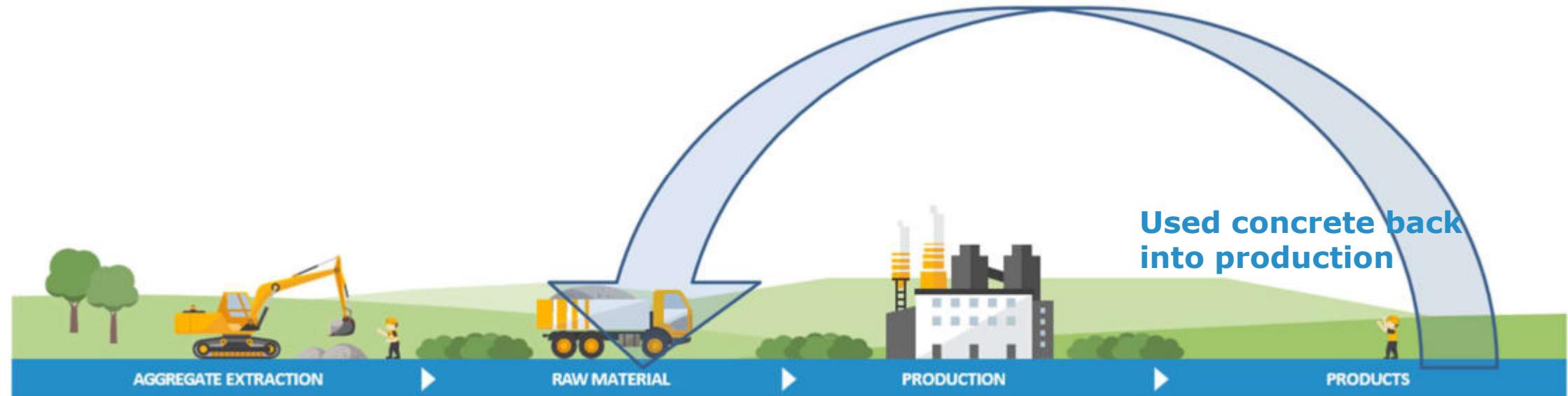
OUR TARGET IS TO BE CARBON NEUTRAL FOR THE ENTIRE OPERATION BY 2050

We want to develop and promote our customers' low-carbon goals

We invest in the recycling of rock-based building materials and the development of recycling activities

We carry out responsible aggregate extraction and contribute to the preservation of biodiversity with our biodiversity programme activity

THE INTERMEDIATE GOAL IS TO HALVE OUR EMISSIONS IN OUR ENTIRE VALUE CHAIN BY 2035



RUDUS BIODIVERSITY PROGRAMME



Blast furnace slag from the steel industry

Fly ash from the energy industry

Stone ash from our own soil extraction areas

Recycled blast stones



LOW CARBON
PRODUCTS



RECYCLED
MATERIAL
PRODUCTS

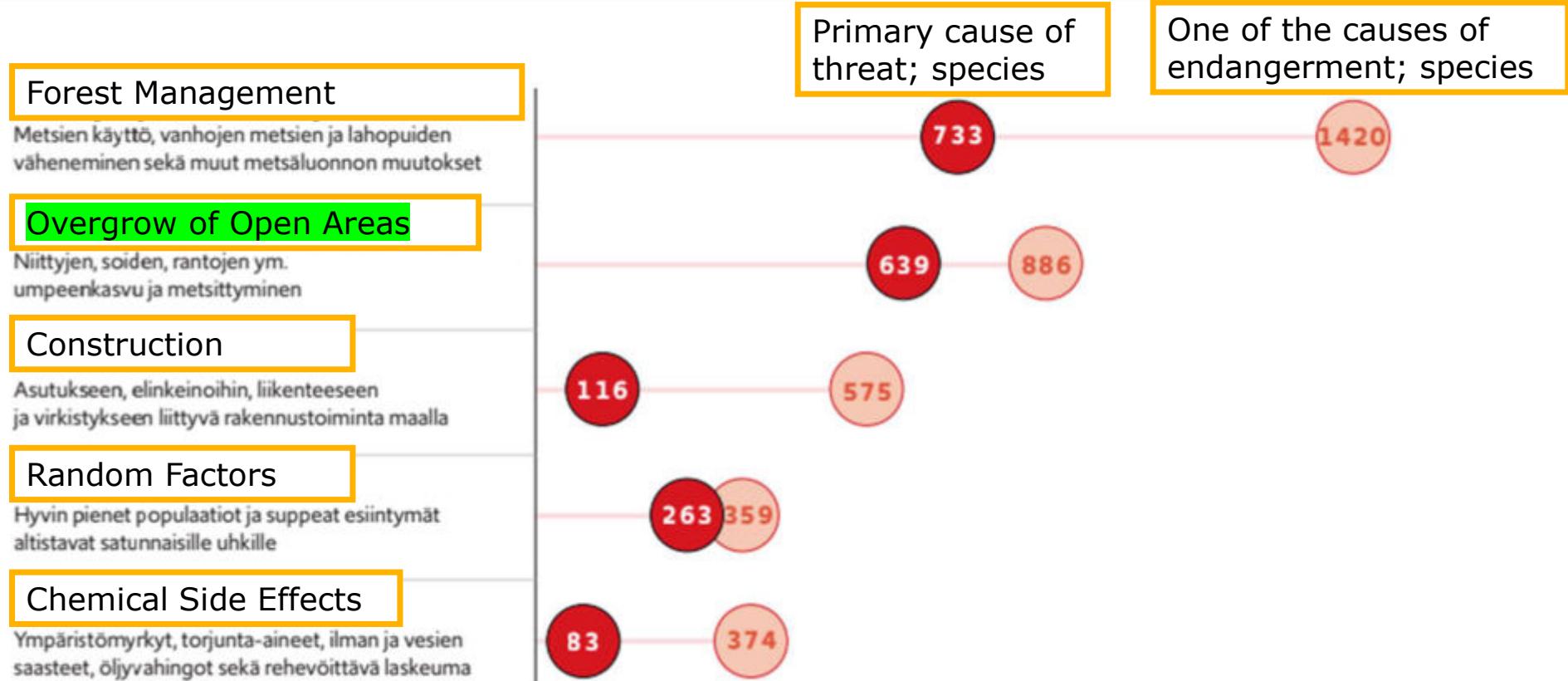


PRODUCTS

SOLUTIONS FOR
WATER
MANAGEMENT

Biodiversity Programme since 2012

5 most significant reasons for the endangered species in Finland



The 5th assessment of threatened species in Finland,
Ministry of the Environment and the Finnish
Environment Institute (SYKE) report 2019



And we do have open areas!

From Project to Action

Goal: the soil extraction area is naturally more diverse at the end of the operation than it was at the start of the operation

Project kick-off
2012

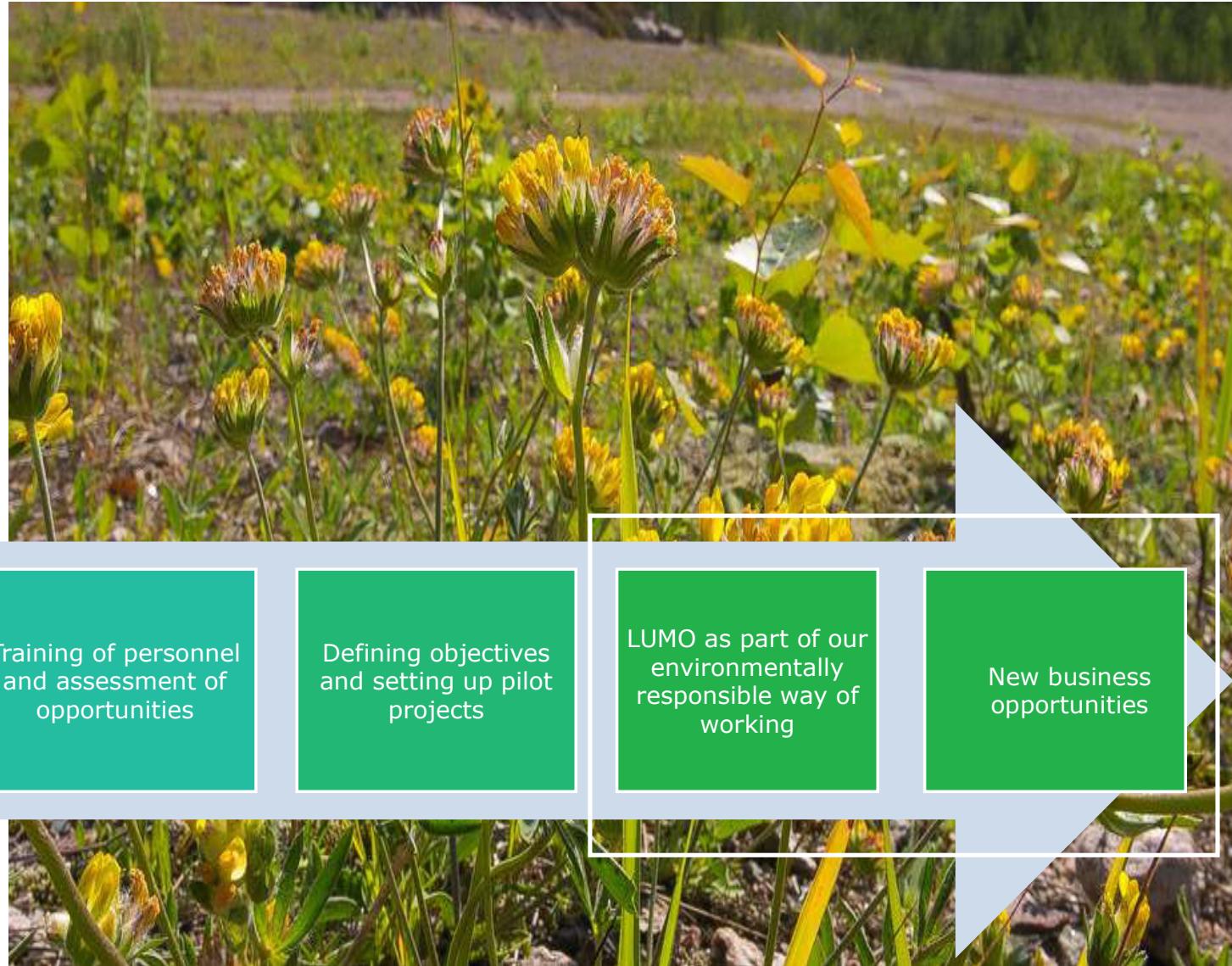
Creating a
network of experts

Training of personnel
and assessment of
opportunities

Defining objectives
and setting up pilot
projects

LUMO as part of our
environmentally
responsible way of
working

New business
opportunities





Business as usual

New ways to protect biodiversity

How do we do it

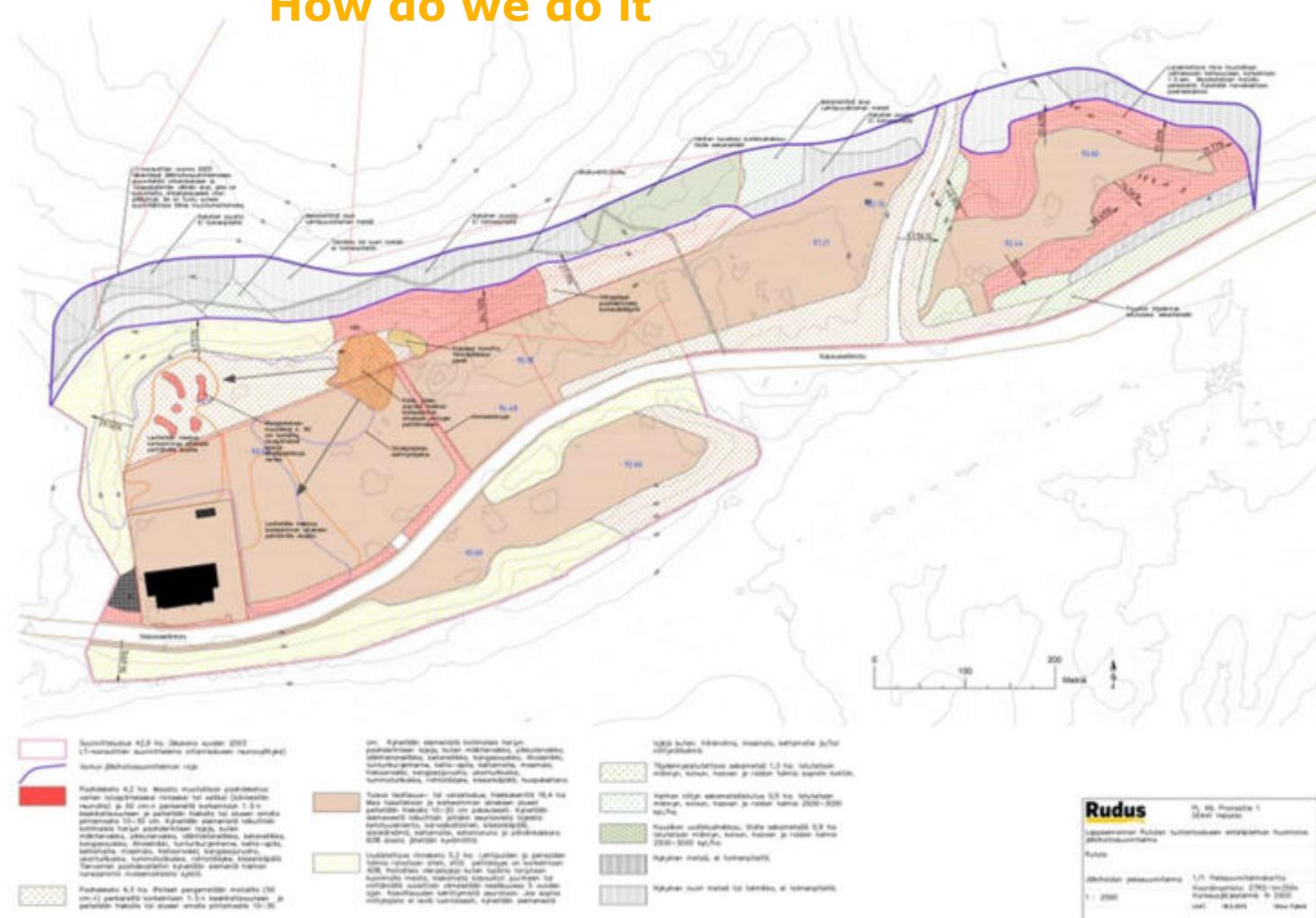
- We save habitats, such as:
 - Rock piles
 - Steep sand banks
 - Meadows
 - Wetlands
 - Rotting wood
- We don't plant trees
 - If it's unlikely they will ever grow
 - If open area is much more valuable for the nature around
 - If our neighbours like to use wide and open area for sports like frisbee golf, horseriding or skiing
 - If the planned land use is not forest industry



Local Nature

- We observe and study local nature
- We make local aftercare plans
- We try new ideas with pilot projects

How do we do it



Rudus 16. m. Puumala 1
Mets nippes

Lopputuotanto Rudus tuotantolaitteet erityisluokat tuomioita
metsätaloustuotanto

Rudus

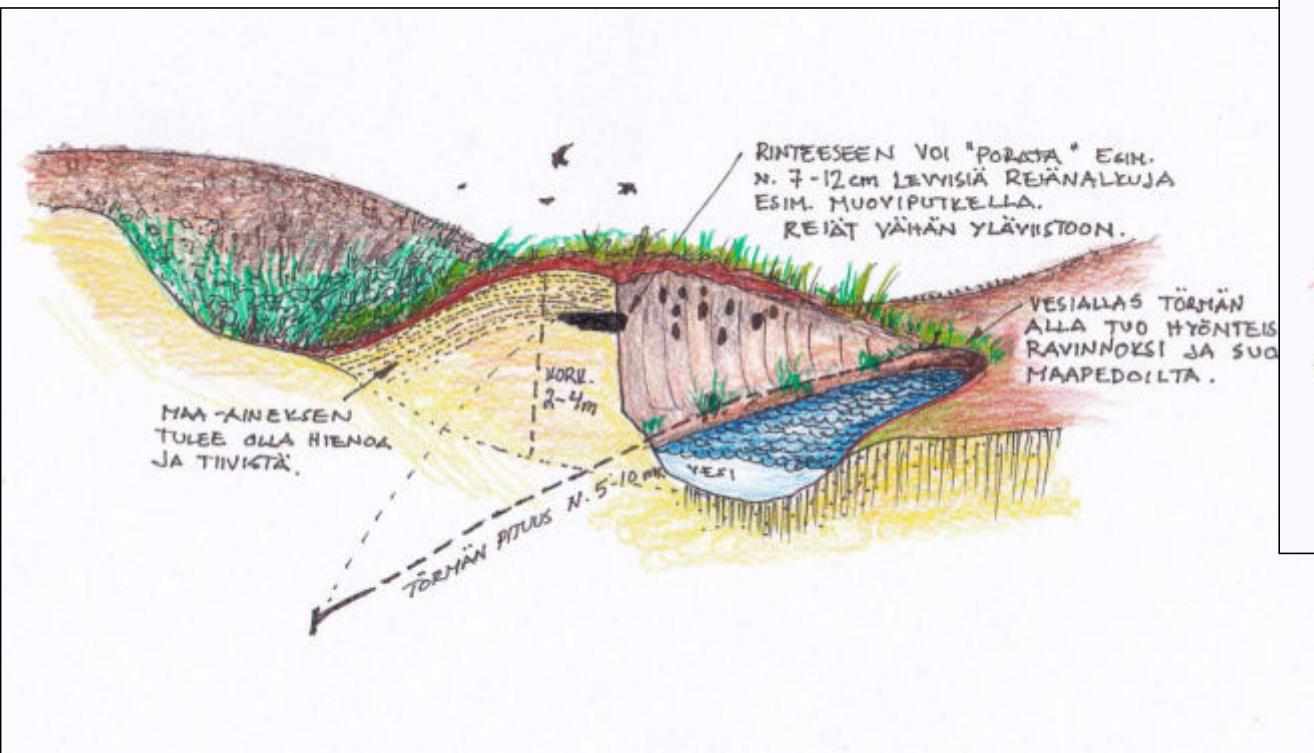
Uudistettu metsätaloustuotanto 1/1/2000-1/1/2004
Kuormitustarve 17800 m³ metsätaloustuotanto 1/1/2005-1/1/2009
1 - 2000
LAKI 16.3.2004 Väistäjät

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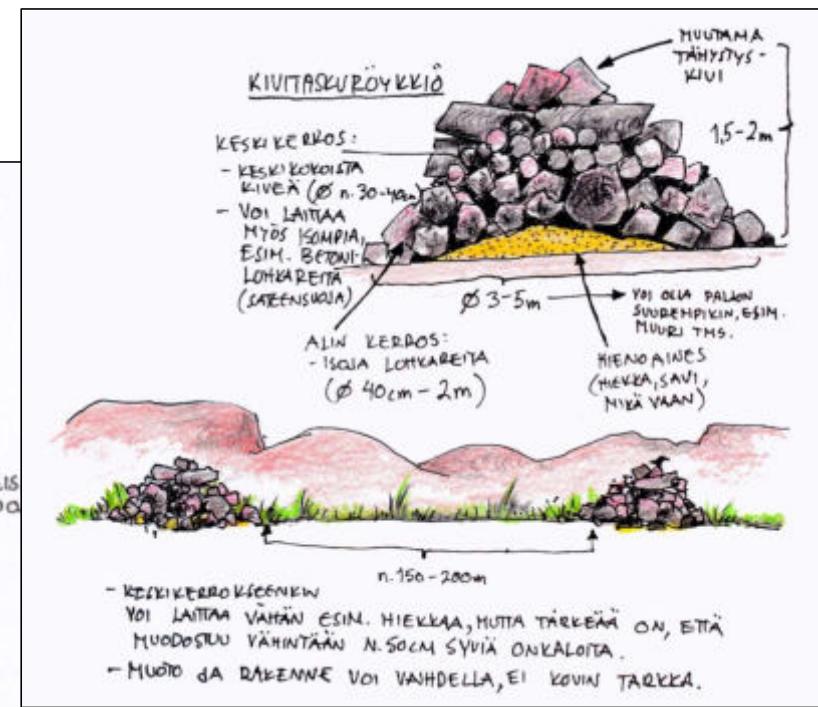
Instructions

How do we do it

Nest for Sand Martin



Nest for Northern Wheatear







Biodiversity of factory environments

- Nesting opportunities for birds.
- Feeding areas for bats and possible breeding places.
- The concrete slope was covered with the seeds of threatened species.
- Stone mounds piled up from concrete blocks serve as nesting and shelter places for animals and at the same time bind carbon dioxide from the atmosphere.



New Business Opportunities



From old gravel extraction areas to valuable natural sites and recreation areas

Better cooperation with neighbors and authorities - operating conditions improve



Seed banks of endangered species – impacts to biodiversity in large areas

New business opportunities; plant seeds and areas for ecological compensations



New operating models and products through collaborative projects

New business opportunities; Spawning and baby fish rocks Ecosystem hotels



Effective measures and carbon sequestration through R&D

Preventing climate impacts and reducing own carbon footprint

How the future looks like



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SCIENCE BASED TARGETS NETWORK
GLOBAL COMMONS ALLIANCE

**WE HAVE JOINED THE SCIENCE BASED TARGETS NETWORK
CORPORATE ENGAGEMENT PROGRAM**

By joining the program we are working to ensure the water, ocean, land and biodiversity - the global commons we all depend upon - are protected and restored. We are helping developing and road-testing the methods, tools and guidance related to science-based nature targets to ensure they are user-friendly and easy to implement.

Thank you!