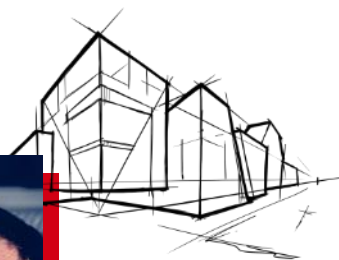




# From product to purpose

**Jens Birgersson**  
President & CEO,  
ROCKWOOL Group

**VL Session**  
20 March 2019



# From Product to Purpose – some initial thoughts

- It is happening quickly
- **Fundamental elements of sustainability strategy**
  1. Use less
  2. Green the rest
  3. Address your climate hazards
- **Having great products is not enough**
  - Understand the whole and what role we play
  - Get facts and be accurate on your source
  - Engage and take real action; skip the window dressing

People's needs are rapidly changing..

# The Purposeful Age.

9/10

(87%) believe that “the success of a business should be measured in terms of more than just its financial performance.”

Deloitte millennials survey, 2016

72%

of the architects say that the principal (or project owner) asks for sustainability in projects. Half of them indicate that the principal is also willing to invest in sustainability.

Source: European Architectural Barometer Report, 2018

+ Values

‘Millennials\* are just as interested in how a business develops its people and its contribution to society as they are in its products and profits.’

# From Product to Purpose – some initial thoughts

This simple statement means a lot to us. It marks a shift in how we describe ourselves. It's about why we do what we do as well as how.





# From Product to Purpose – some initial thoughts

## 2016

ROCKWOOL's approach to sustainability is closely aligned with UN's Sustainable Development Goals.

We have committed to focusing on **10** of these 17 Global goals.

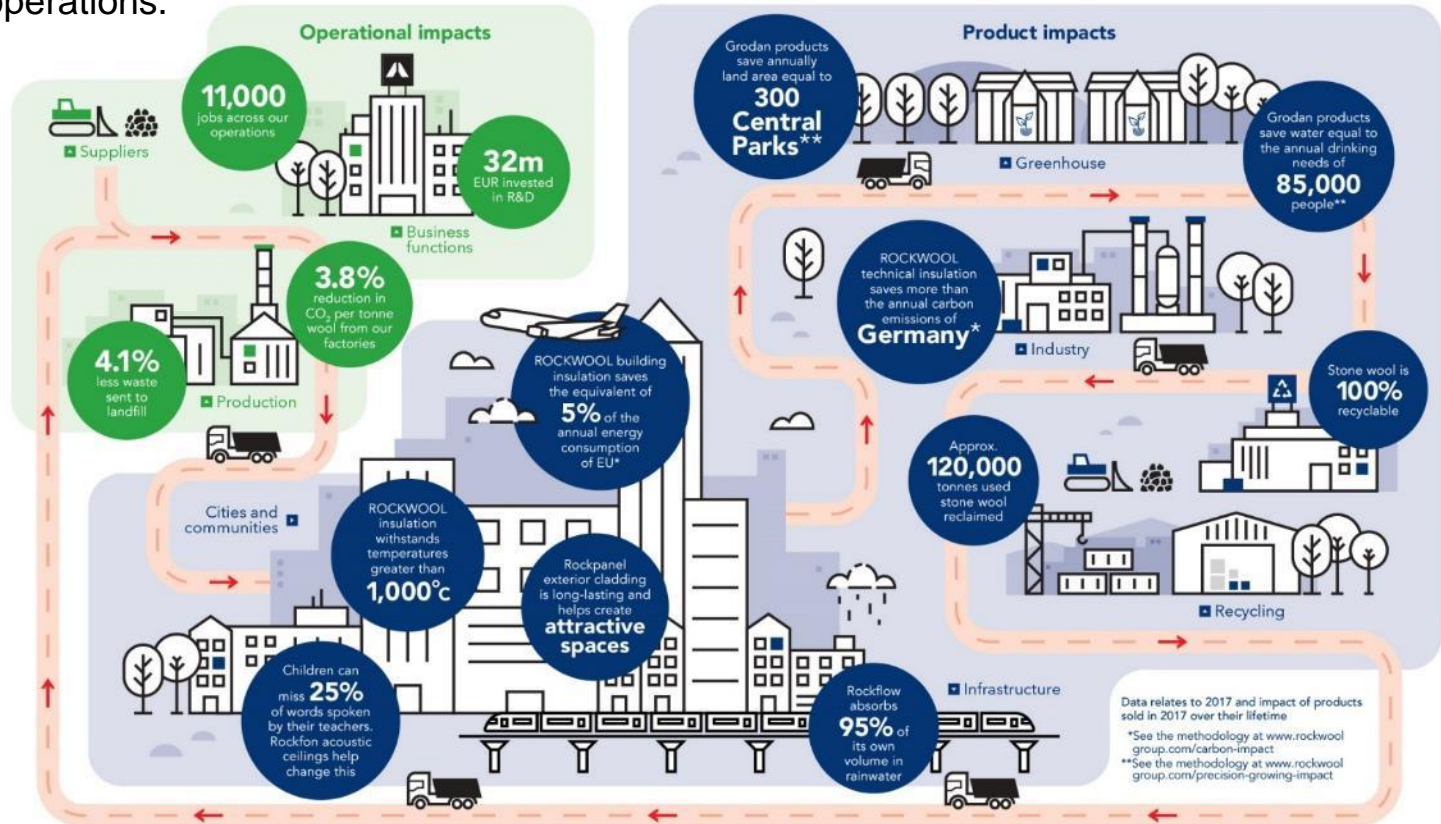
External contribution

## SUSTAINABLE DEVELOPMENT GOALS



# From Product to Purpose – some initial thoughts

We create value for society by increasing the positive impacts of our products and reducing the negative effects of our operations.



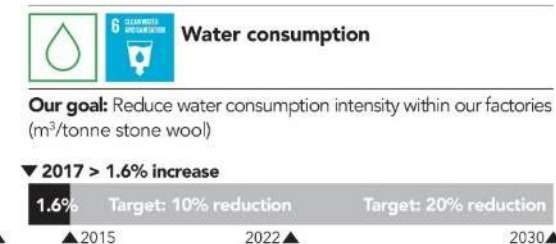
Source: ROCKWOOL Group Sustainability Report 2018

# From Product to Purpose – some initial thoughts

In 2016 we set **6** ambitious Group Sustainability Goals to drive substantial improvements in our environmental and safety performance by 2030.

Progress are there, but there's still a lot of hard work to be done to improve our own operations.

Internal - get fit - goals



# The big picture

The most significant positive impact on sustainable development is through the use of our products.

The carbon emissions saved in the lifetime of ROCKWOOL's technical insulation sold in 2017 exceeds the annual carbon emissions of Germany.

But it is important to us that we achieve this by operating in a responsible and sustainable way.

## Carbon emission savings of products sold in 2017

### Building insulation

Carbon emissions  
from raw materials  
and production

Carbon emission  
savings during  
product lifetime

80

times the carbon  
emitted in its  
production

### Technical insulation

Carbon emissions  
from raw materials  
and production

Carbon emission  
savings during  
product lifetime

4,000

times the carbon emitted  
in its production

Ecofys, a Navigant company, developed methodologies to calculate the energy and carbon emission savings in the lifetime of sold building insulation and technical insulation products. Ecofys endorsed that the 2017 energy and carbon emission savings calculated by ROCKWOOL correctly follow these methodologies.

▶ The methodologies are available on [www.rockwoolgroup.com/carbon-impact](http://www.rockwoolgroup.com/carbon-impact)



# Energy efficiency in buildings is a game changer

Energy efficiency is the bedrock  
of emissions reductions in all

**2°C scenarios**

Intergovernmental Panel on Climate Change (IPCC), 2014

**42 %**  
of emissions  
reductions in low-  
carbon scenarios  
come from  
energy efficiency

Intergovernmental Panel on Climate Change (IPCC), 2014

# By 2050 ...

66%

of people will live in cities

Source: UN World  
Urbanization Prospects

90%

of their time will be spent  
indoors in buildings that emit  
huge amounts of CO<sub>2</sub>, leading  
to a..

Source: UN World  
Urbanization Prospects

50%

increase in energy  
consumption if no action is  
taken

Source: Climate Change: Implications for  
Buildings, 2014, European Climate Foundation  
et al. \* Calculation methodology verified by PwC



# Why national governments across the world should look at buildings ...

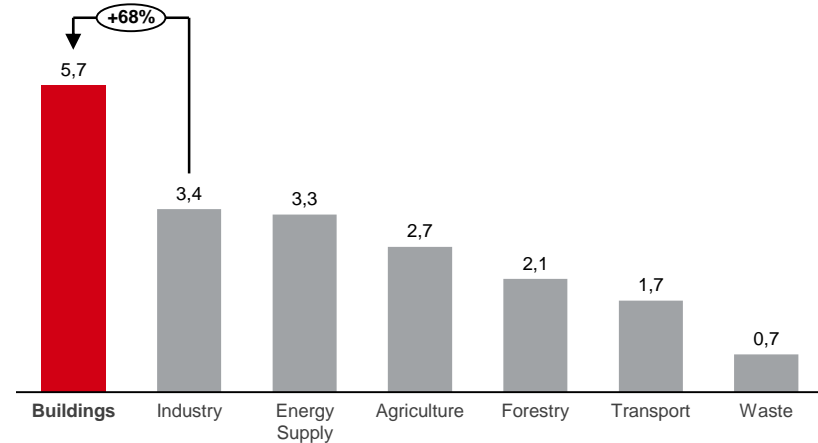
Buildings can save **68%** more emissions than the next most cost-effective sector for the same amount of money

Renovating buildings is much more resource efficient than building new, reducing materials CO<sub>2</sub> footprint with **70%**

Sources: BPIE, "Europe's buildings under the microscope - A country-by-country review of the energy performance of buildings". (2015).

## Global 2030 greenhouse gas mitigation potential at a carbon price <50 USD/tCO<sub>2</sub>e in 2030

GtCO<sub>2</sub>/year



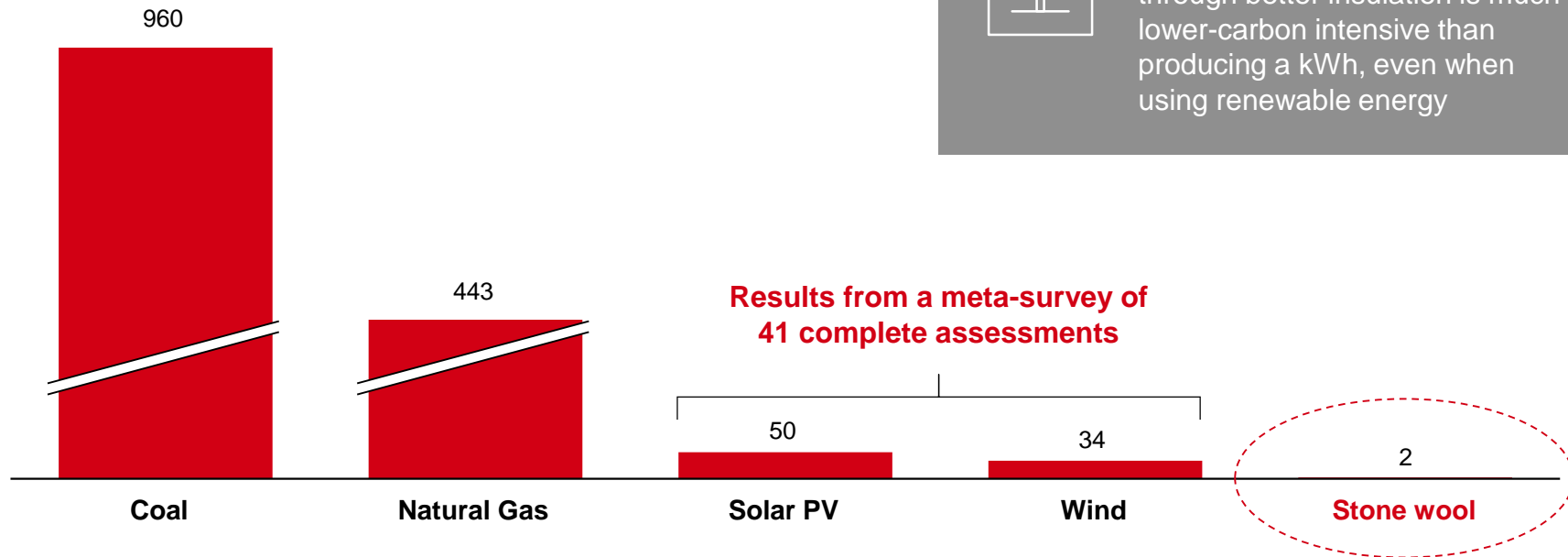
Sources: IPCC, "Climate change 2007 – Mitigation of climate change."

IPCC = Intergovernmental Panel on Climate Change

# We have plenty of options for a low carbon footprint future

## Carbon footprint per unit of energy generated or saved

gCO<sub>2</sub> / kWh



## Saving a kWh

through better insulation is much lower-carbon intensive than producing a kWh, even when using renewable energy

Sources: Nugent, Daniel, and Benjamin Sovacool. 'Assessing the Lifecycle Greenhouse Gas Emissions from Solar PV and Wind Energy: A Critical Meta-Survey'. *Energy Policy* 65 (1 February 2014): 229–244. Ecofys report, with input from LCA expert. Calculation of stone wool footprint: dividing the total CO<sub>2</sub> emissions required to produce one tonne of stone wool (1,020,000 g CO<sub>2</sub>/tonne line wool) with the energy savings of one tonne of ROCKWOOL over its lifetime (485,599 kWh/tonne line wool).



## What is our role in all this?



# 50-90%

of the global energy  
used in buildings today  
can be saved applying  
existing energy  
efficiency products and  
technology.

Source: BPIE, 2014, page 10

# But it is not only about Energy Efficiency and Emissions

## Renovating neighbourhoods can contribute to improving health

**15%**

of all people in  
developed countries  
live in energy  
poverty

**8%**

of the EU population  
are unable to heat  
their homes  
adequately

Energy poverty means

**30%**

greater risk of  
admission to hospital  
or primary care  
facilities for infants

**\$3,5bn**

is the annual cost of asthma  
induced by dampness and  
mould in the US

Source: BPPIE (2014) and IEA (2017).

# We should not stop here ...

**1/3**

**of global material consumption and waste generation is accounted for by the construction and demolition of buildings**

Source: Ellen MacArthur foundation, 2018

**+ 40%**

**of all sea birds have ingested plastic.**

Source:Plasticoceans.org

**21%**

**of the total plastics produced are used in the construction industry**

Source: "Plastic Waste from Building and Construction", Consultic Marketing & Industrieberatung GmbH.

**50%**

**of all plastic is single use.**

Source: Plasticoceans.org

# Thank you