

# Current situation: Sustainability

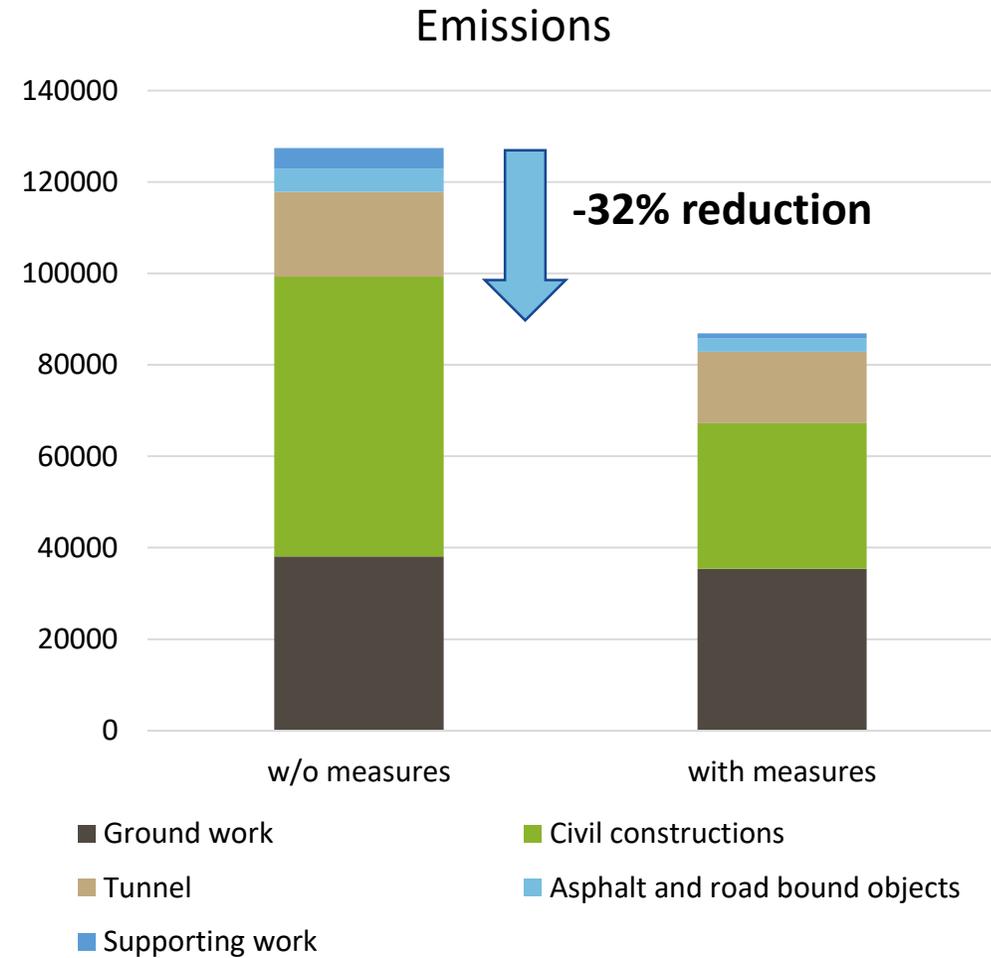
Q1 2020

# CO<sub>2</sub> emissions

Emissions from start of work till Q4 2019

Goal: Reducing the emissions of the realisation phase with **23%\***

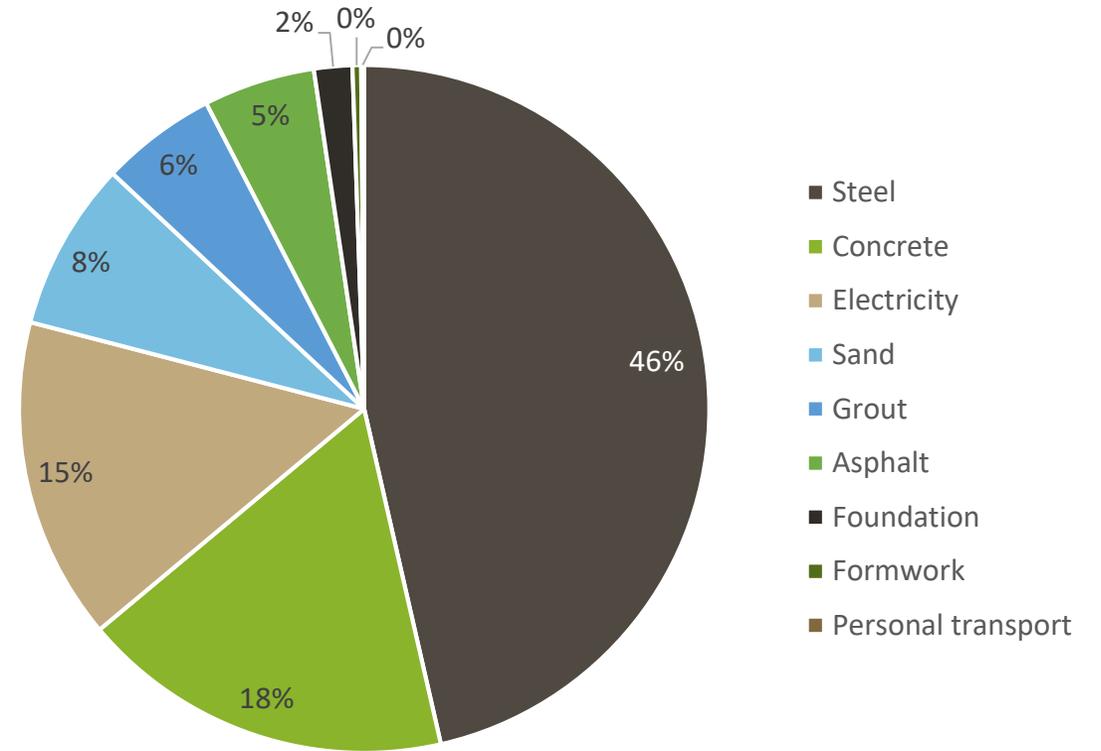
\*true emissions compared to the planning without reduction measures.



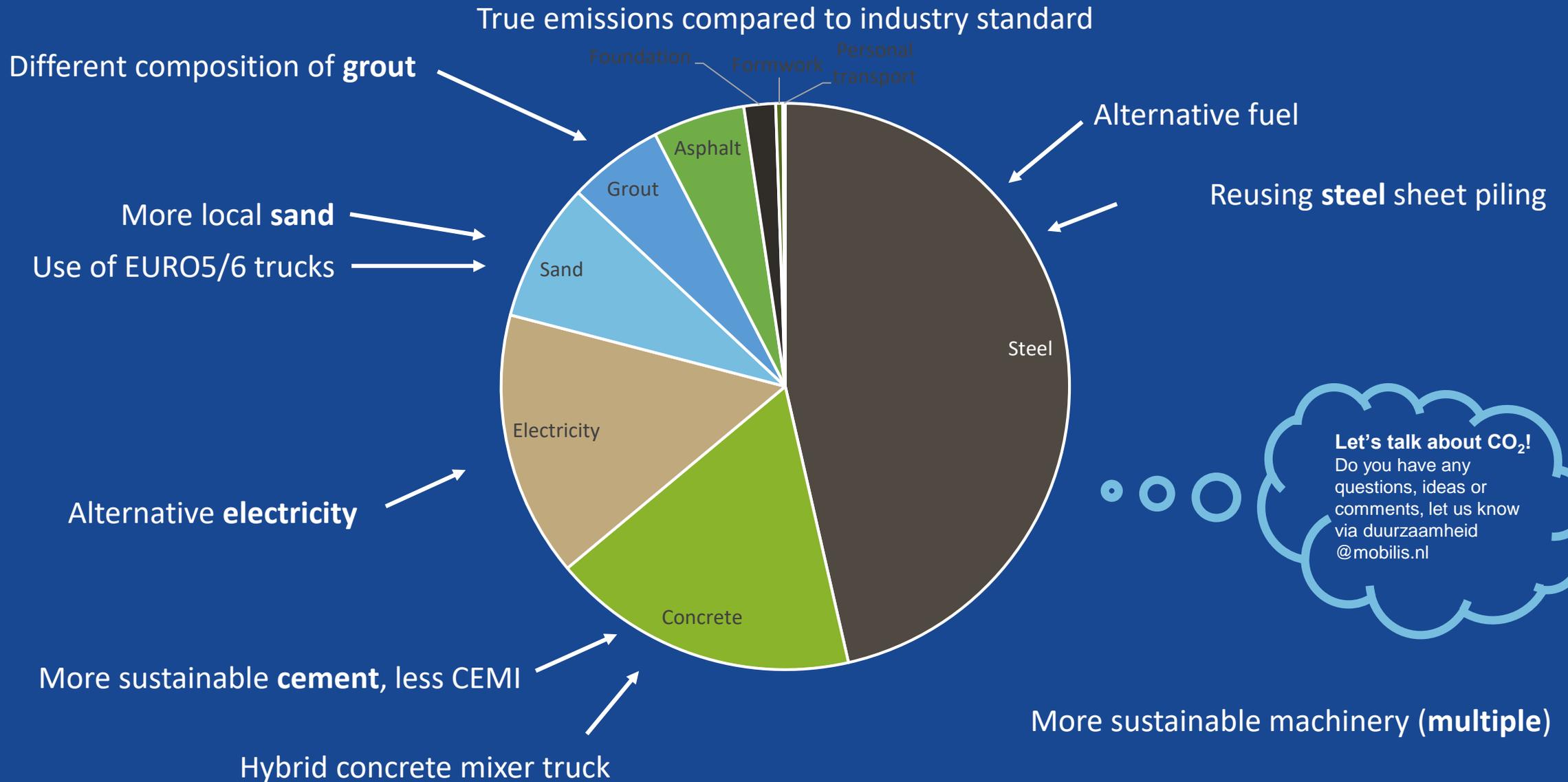
# CO<sub>2</sub> reduction

True emissions compared to industry standard

Reduction (total 40.524 tonnes CO<sub>2</sub>)



# A few CO<sub>2</sub> reduction measures



# CO<sub>2</sub> goal scope 3: usage



CO<sub>2</sub>-PRESTATIELADDER®

To reduce our CO<sub>2</sub> footprint, we have set the following goal:

Reducing the emissions of the exploitation phase with **50%\***

\*planned emissions including measures compared to the original planning without reduction measures.

## SOLAR OPTIC FIBRE

Around 50% of the electricity use of a tunnel, comes from the entrance lighting.

Using Solar Optic Fibre, almost **25%** less electricity is needed for the entire tunnel!

De RijnlandRoute is the first project in which this technique is used for a tunnel.

The electricity that is still required for the tunnel will be Dutch wind energy, which makes it free of CO<sub>2</sub> emissions.

**Let's talk about CO<sub>2</sub>!**

Do you have any questions, ideas or comments, let us know via [duurzaamheid@mobilis.nl](mailto:duurzaamheid@mobilis.nl)





# CO<sub>2</sub> Performance Ladder

- Audit results November 2019:
- Improved compared to previous years:
  - More insight, cumulative amounts, more awareness when gathering data
- To improve:
  - Changing positions: make sustainability part of the job
  - Communication, both external and internal
  - Toolbox
  - Dialogs (NGO and GO)
  - Update list of measures (together) more often (otherwise we 'forget' measures, such as the tubes in the fly-over)
  - How do we know we buy according to our LCAs
  - Check green energy
  - Internal check



# Materials passport

- A basis for a circular economy
  - Mapping the necessary information of materials
  - Which materials are there and how could you re-use them
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- Possible pilot of the materials passport for a small part of the project
  - Collaboration with the Province of South Holland
  - Learning about the needs and possibilities of a project

