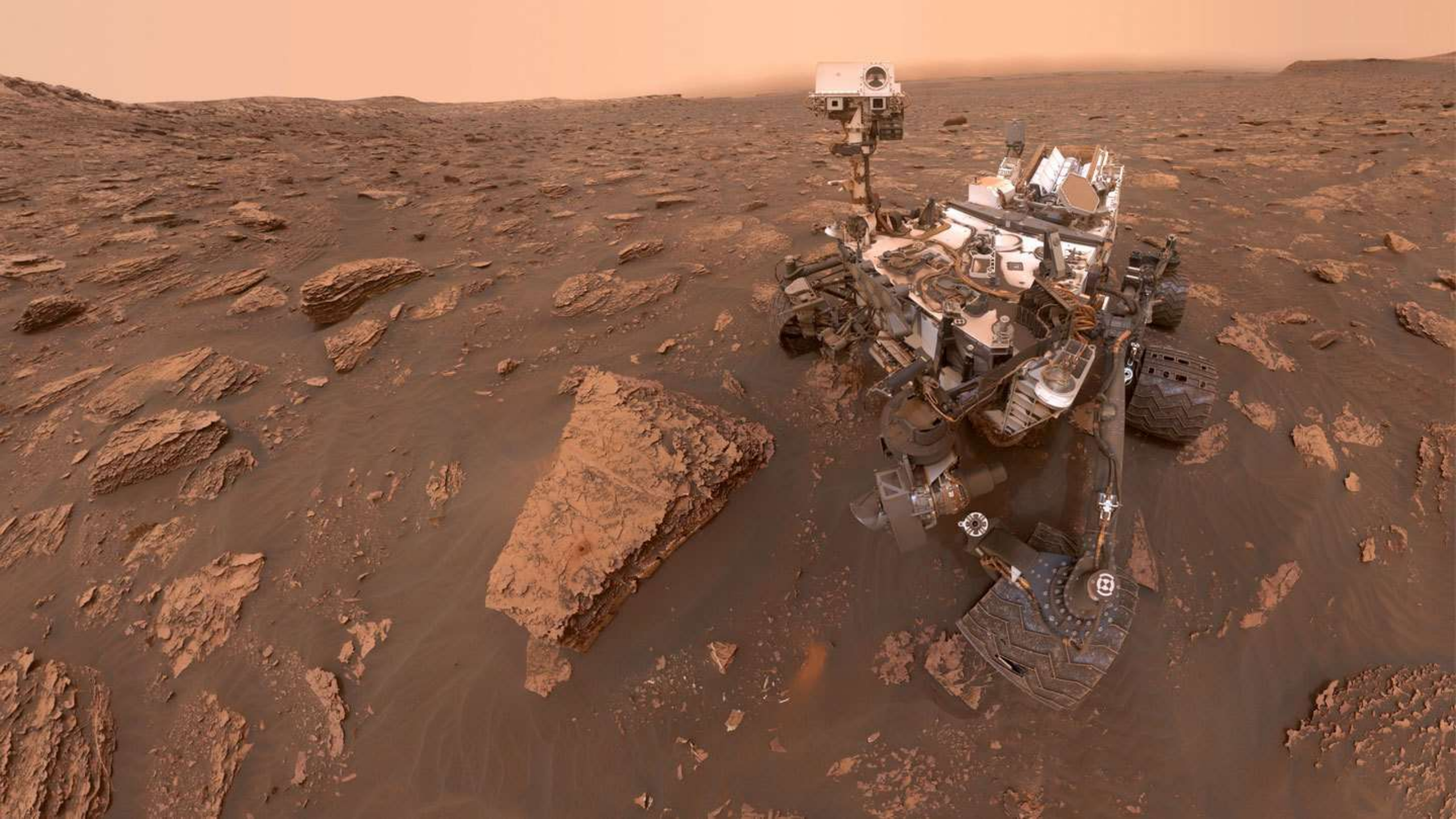


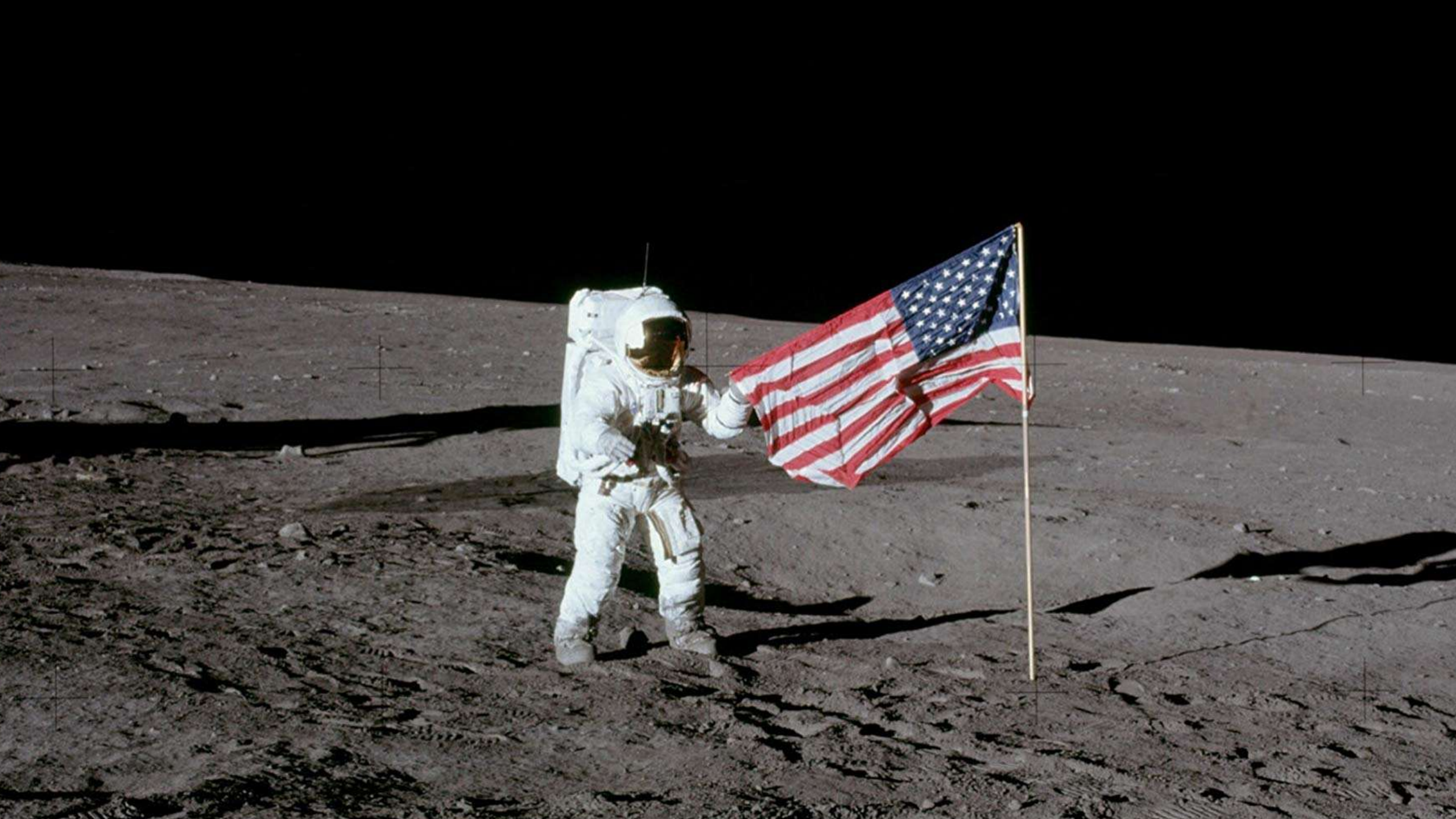
SUSTAINABLE MOBILITY & AWS

Evan Quadvlieg
Technical Acquisition Manager
Solar Team Eindhoven

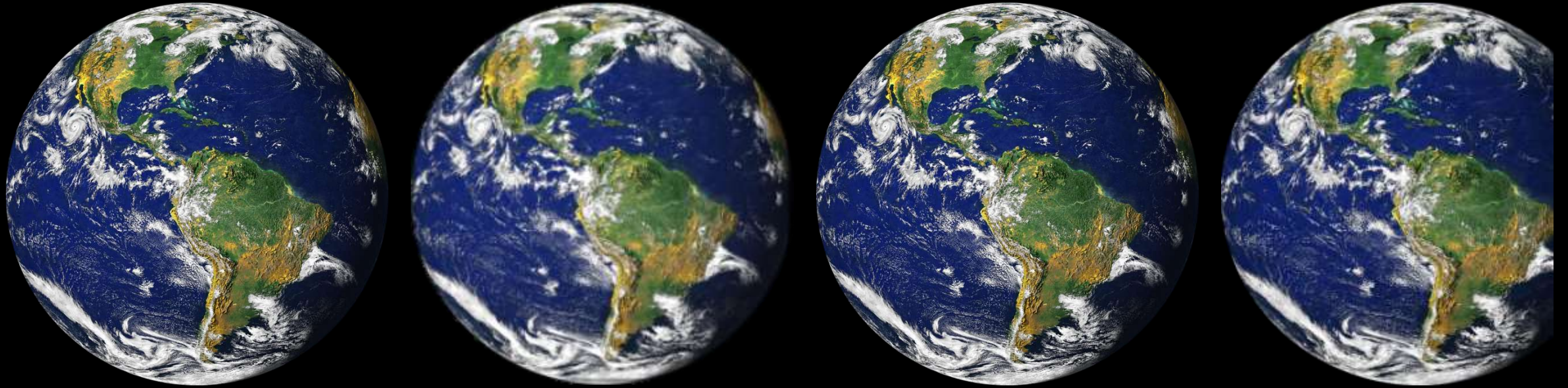


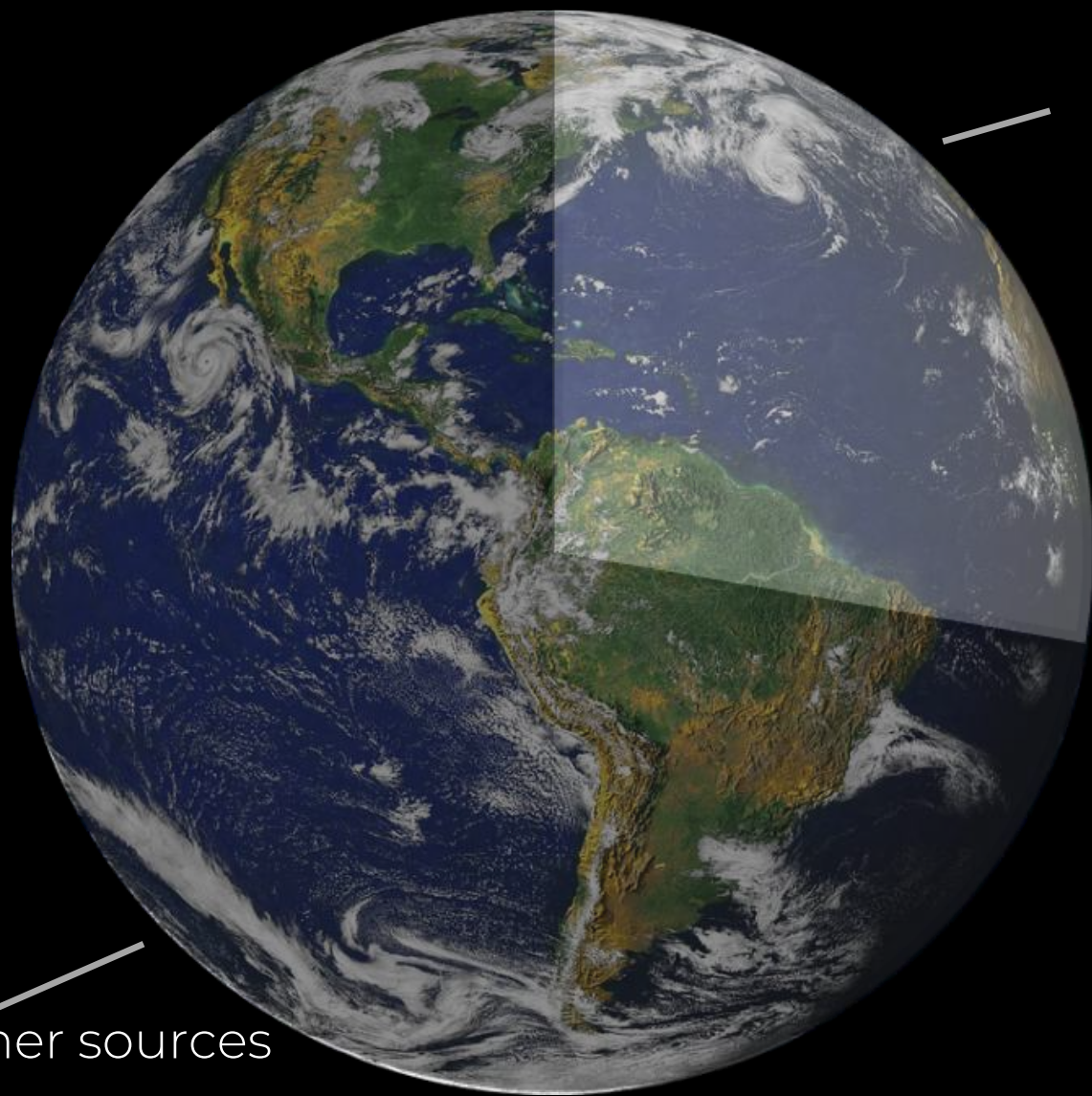








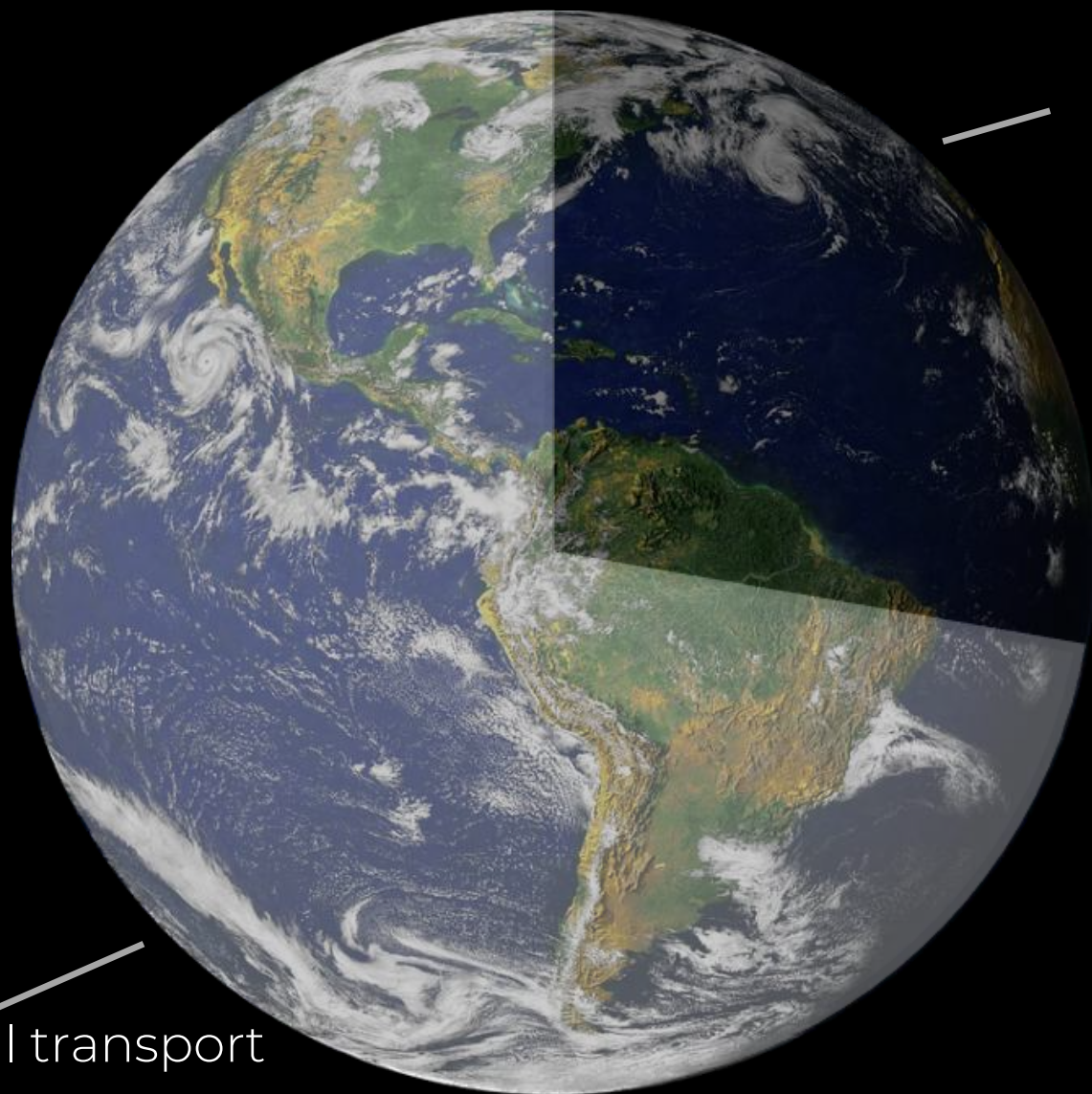




28% from
transport

CO₂ emission in 2012

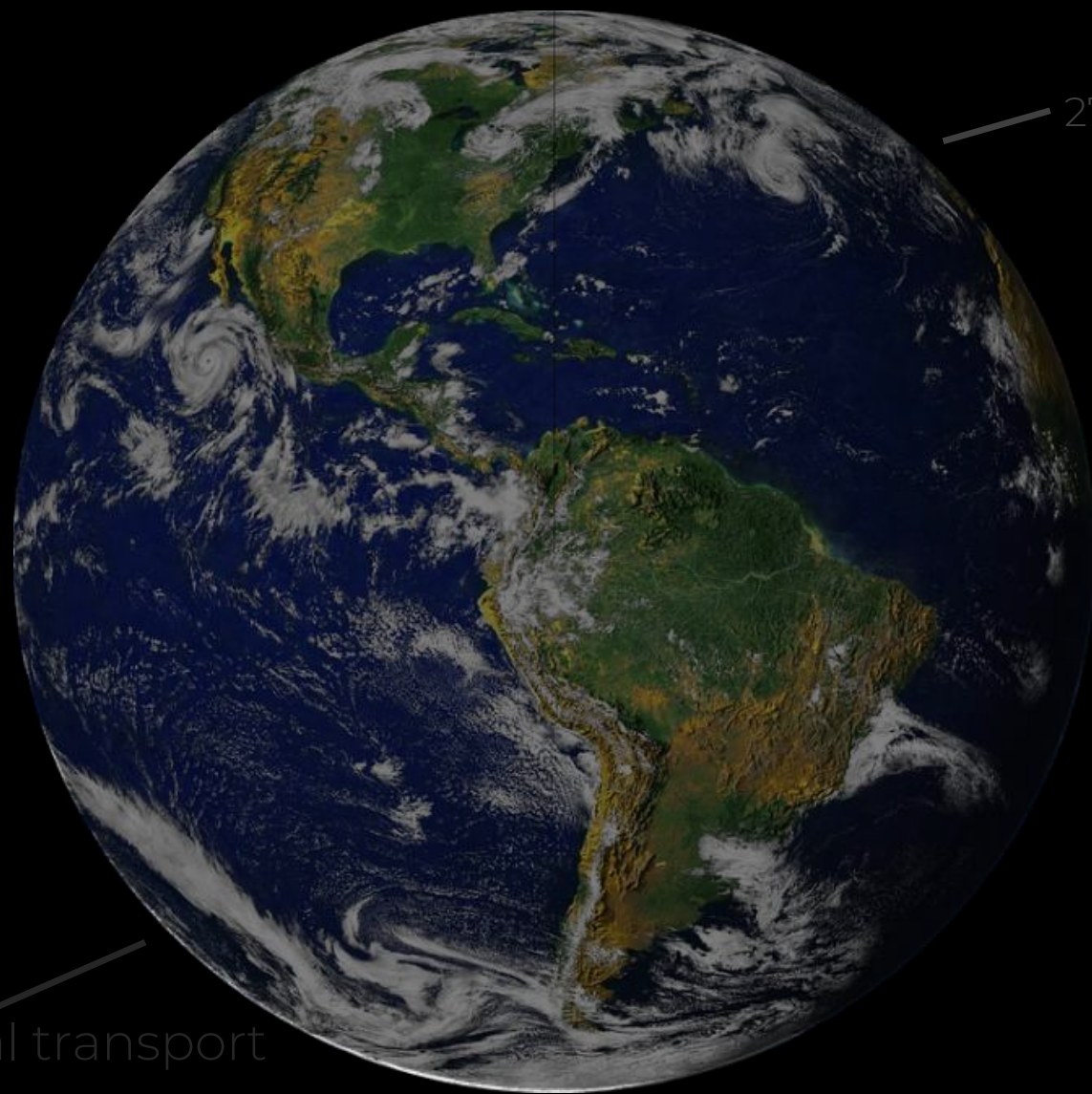
72% from other sources



27% other
transport

CO₂ emission by transport
in 2012

73% personal transport

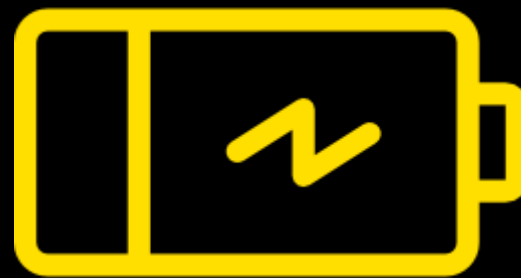
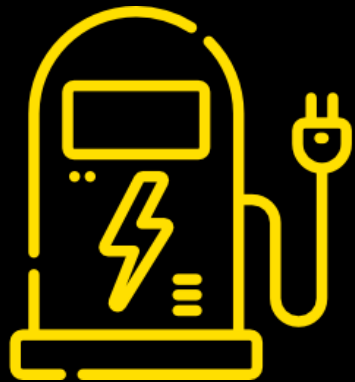


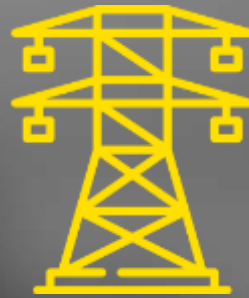
27% other transport

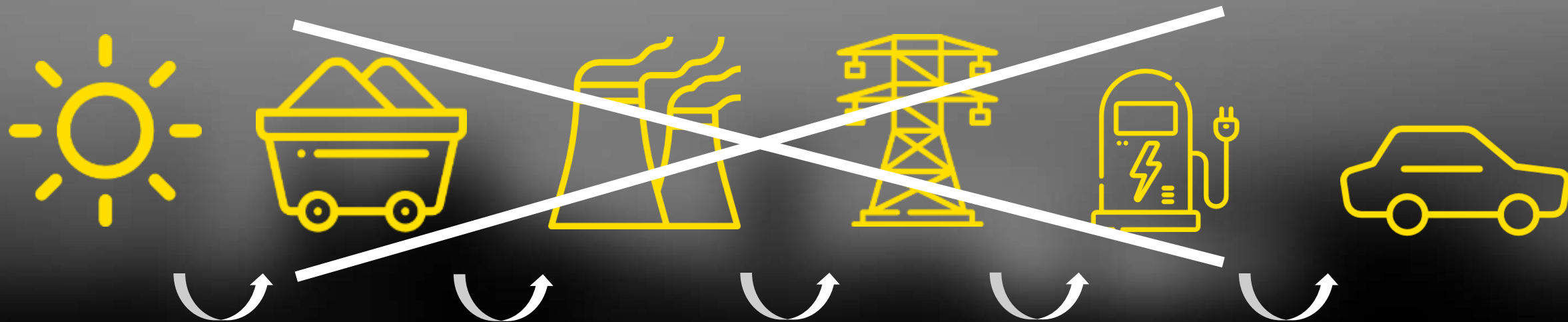
CO₂ emission by
transport in 2012

Less than 0.1% of all
cars were electric

73% personal transport









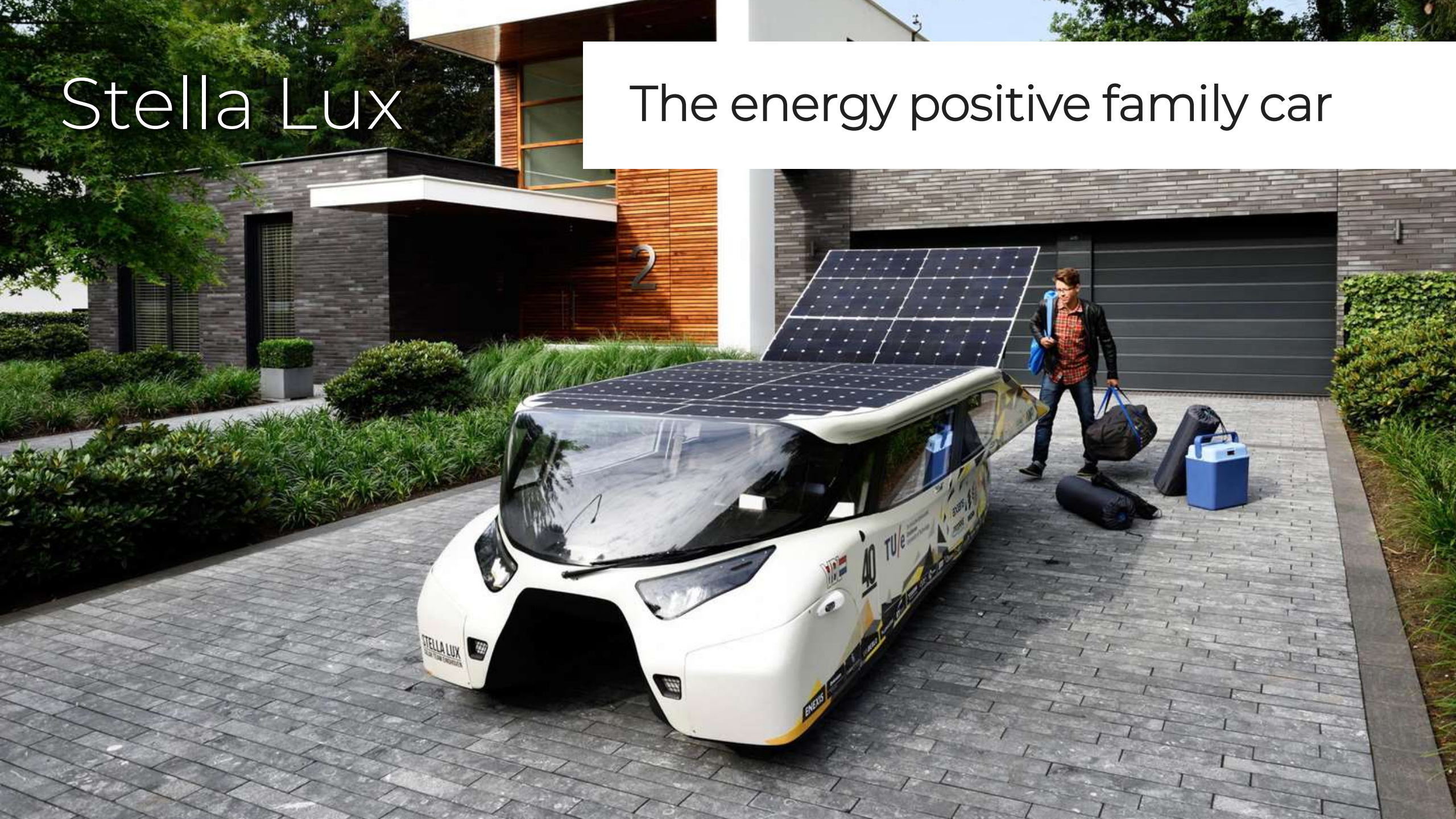
Stella

The first solar powered family car



Stella Lux

The energy positive family car



Stella Vie

The most efficient solar powered 5-seater
with license plate





What's **next**?

Climate agreement

"... all new passenger cars in 2030 must be emissionless"



7 1 0 0

BMW

7 1 0 0 0 0 0

3 0 0 0

MWh kWh

7 1 0 0 0 0 0 0 0 0

3 0 0 0

2 5 0 0 0 0 0

HOUSEHOLDS

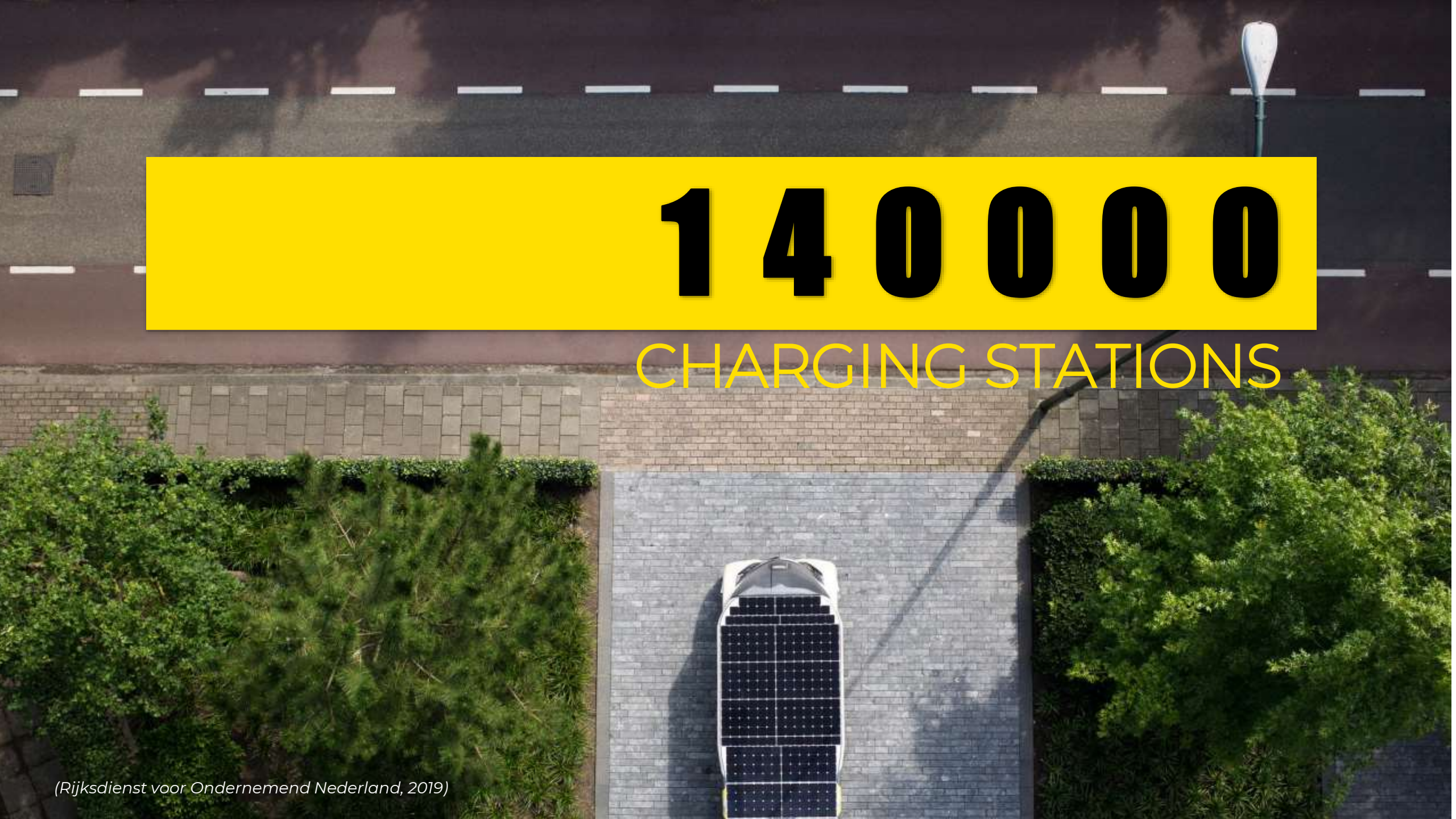
ENERGY
FOR

2 5 0 0 0 0 0

HOUSEHOLDS

1 8 0 0 0 0 0

CHARGING STATIONS

An aerial photograph showing a white solar car with a large array of solar panels on its roof, parked on a grey paved area. The car is positioned between two green trees. In the background, there is a brick-paved area and a dark asphalt road with white dashed lines. A yellow banner is overlaid on the top part of the image, containing the number 140000 and the text CHARGING STATIONS.

140000

CHARGING STATIONS

FROM 2009 TO 2019

38

CHARGING STATIONS PER DAY

FROM 2030 TO 2050

250

CHARGING STATIONS PER DAY

CHALLENGES



1.8 million charging
stations needed



Increased load on
the energy
infrastructure



Sustainably powered
energy grid







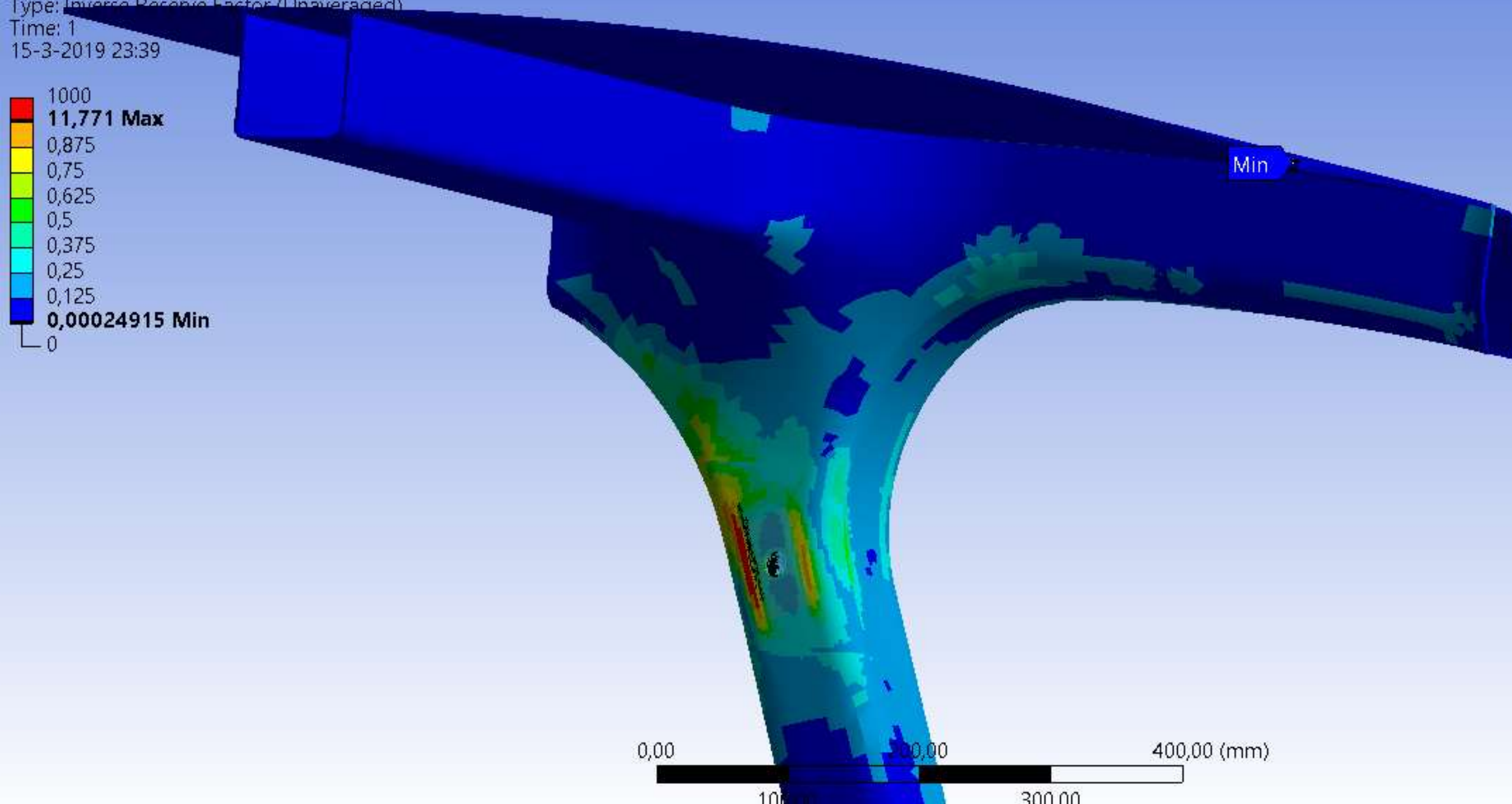
C: Static Structural

Inverse Reserve Factor

Type: Inverse Reserve Factor (Unaveraged)

Time: 1

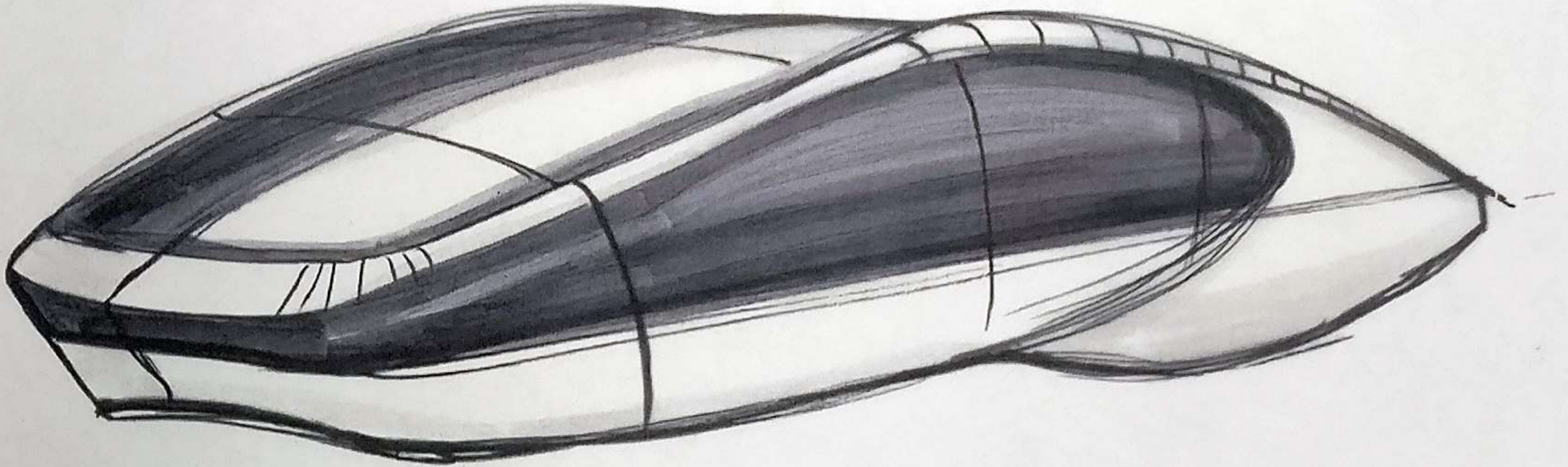
15-3-2019 23:39



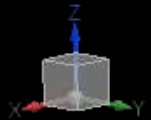
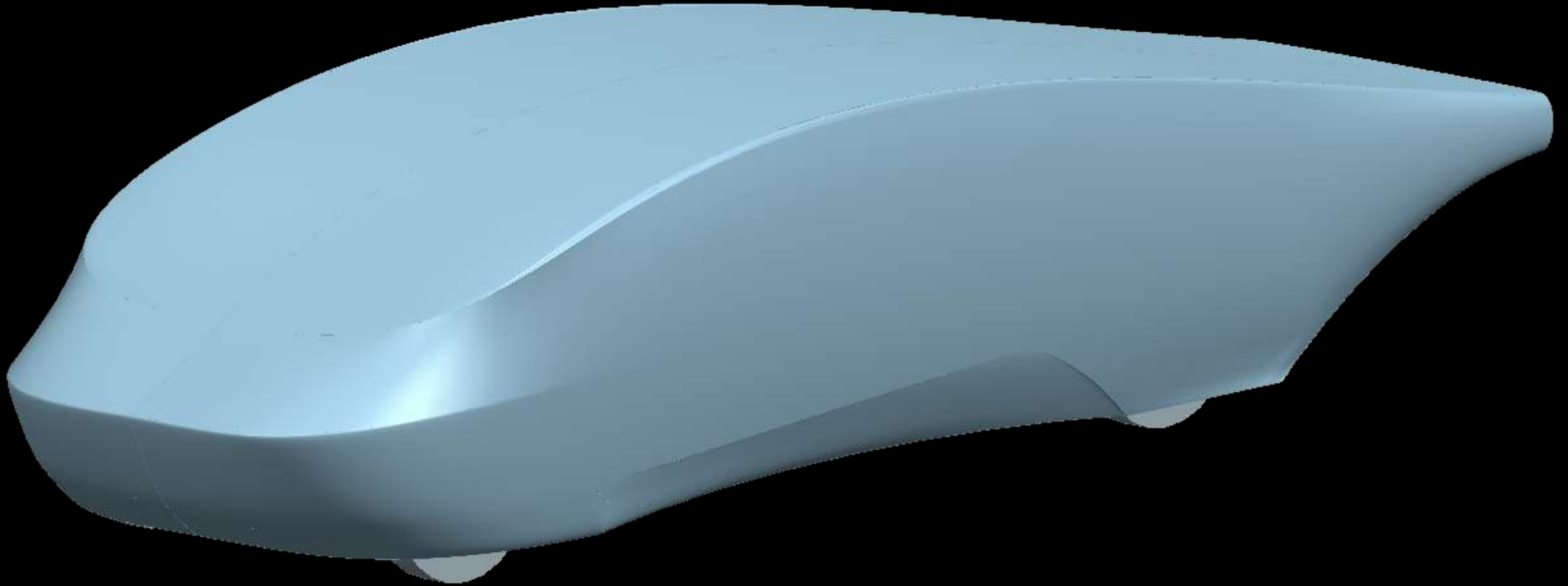


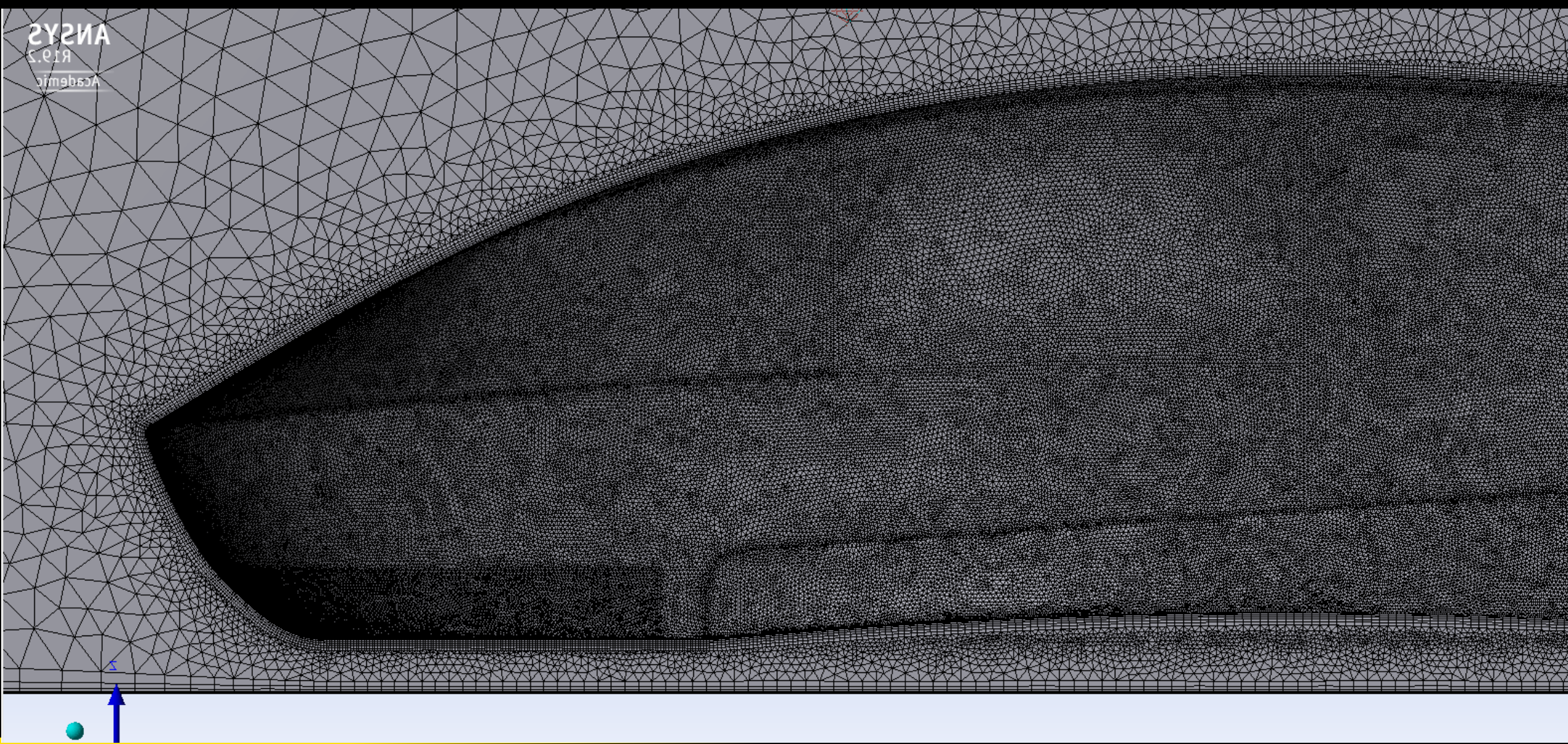


Example early concept

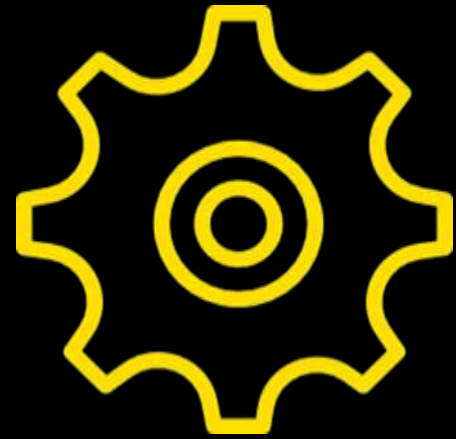
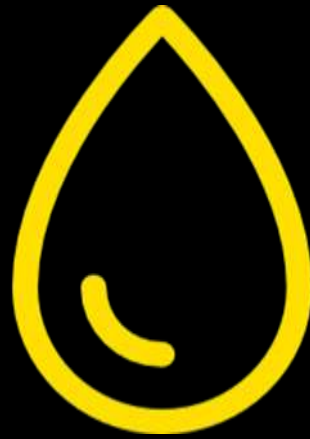


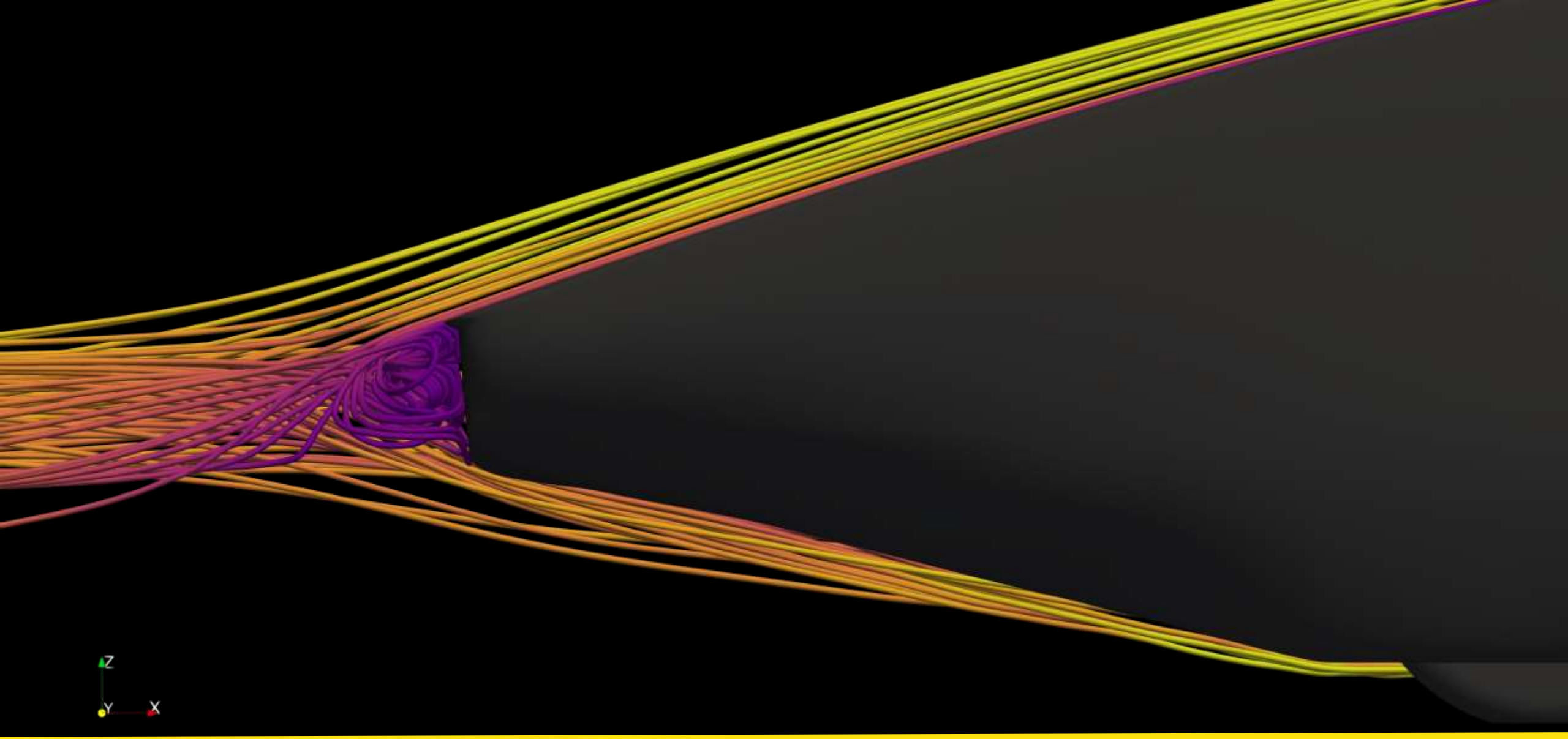
Example early concept























4 July

Design Unveiling

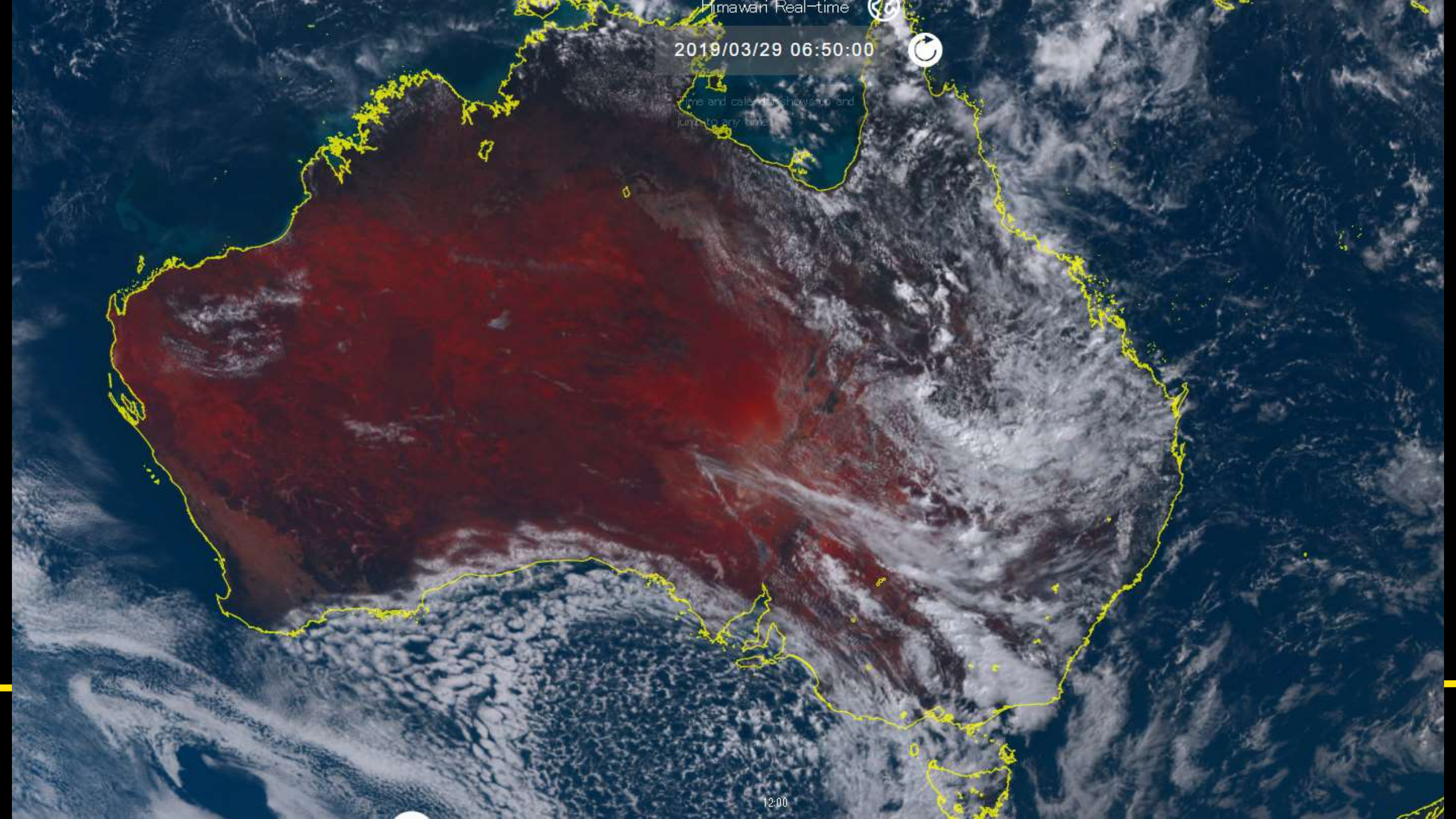
THE FAMOUS
3.000 KM CHALLENGE
ACROSS AUSTRALIA





2019/03/29 06:50:00

Time and calendar shown up and
jump to any time













4 July

Design Unveiling



Thank you!

Evan Quadvlieg
Technical Acquisition
Manager
Solar Team Eindhoven