The future of transport

EINRIDE

We have an obligation

CAPITAL
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TRIU 562521 0
US 4310
ECMU 439332 5
4261
TRLU 469216 2
US 4310
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TEXU 722587 8
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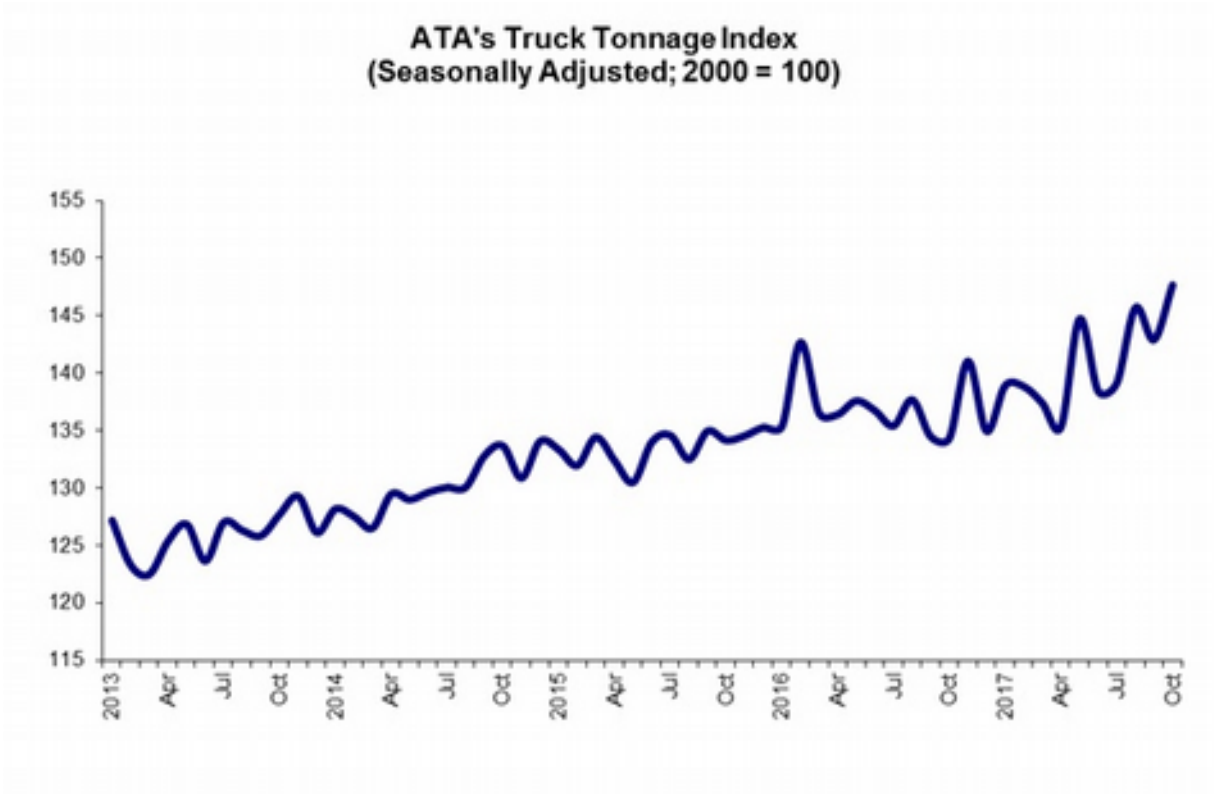
CAPITAL



Source: American Trucker Association Oct'17 Tonnage report (Published November 20 2017)

Truck freight is a huge market

Swedish market

30 MDR SEK

Global market

18 000 MDR SEK

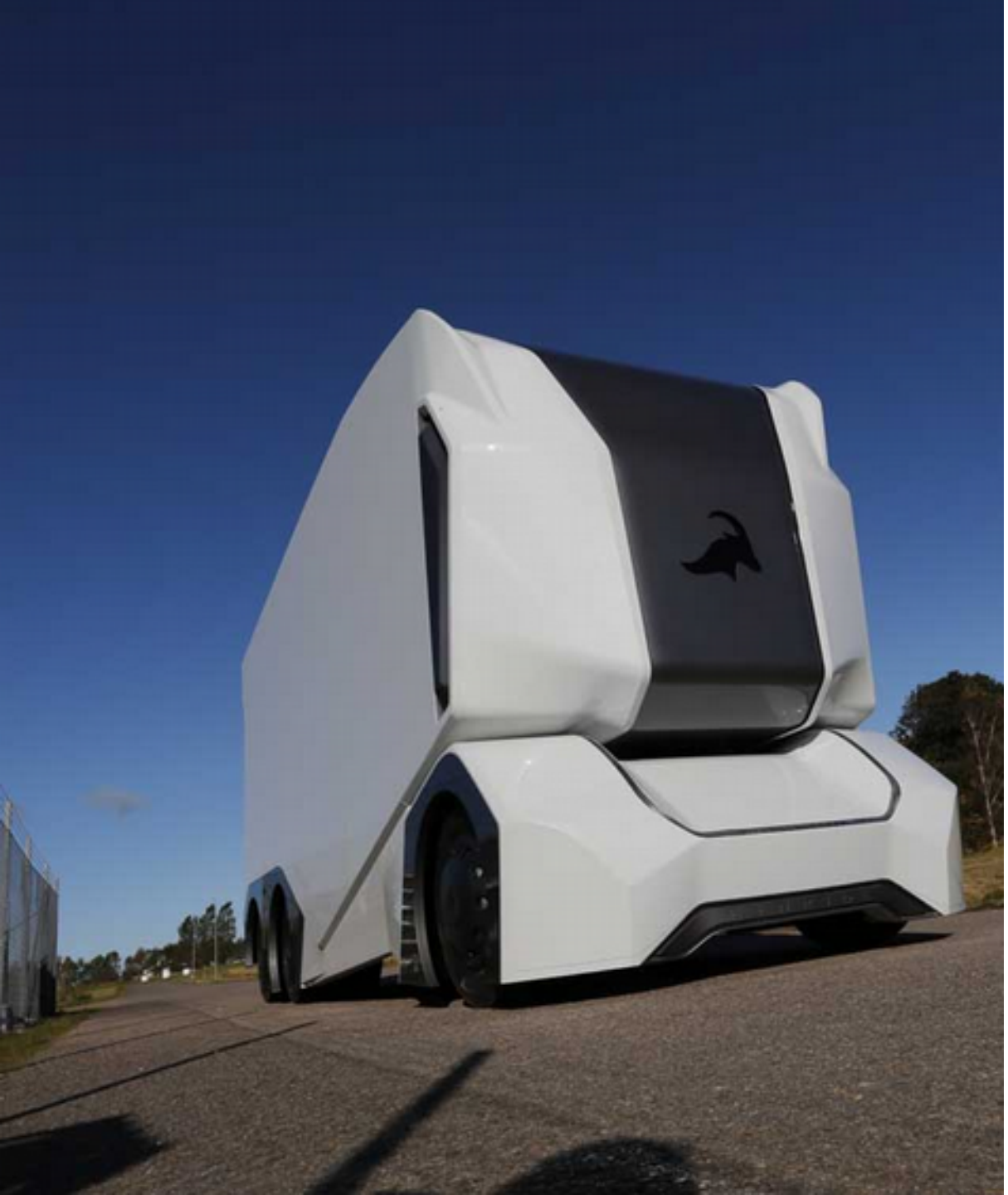
Einride is a transport system

Vehicles
(T-pods)

Charging
Stations

Remote Operators
&
Self-driving

Order and fleet
management
system



Meet the T-pod

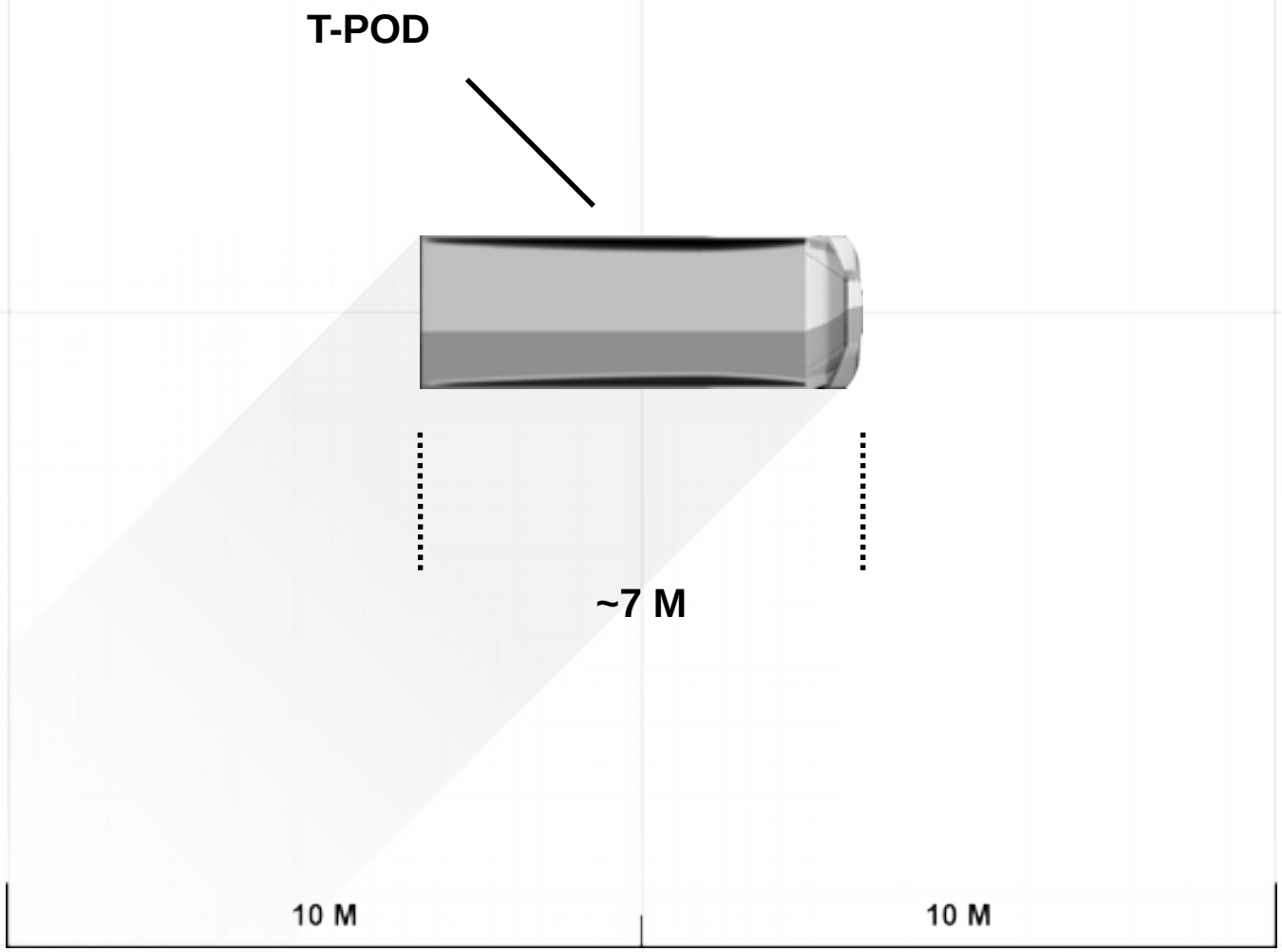
Drive train
Energy storage up to 230 kWh
Weight up to 20 tons

Sensing set up
Five 77 GHz radar sensors
One object and lane detection camera
Four scanning lidar sensors
Four separate cameras for remote operator assistance

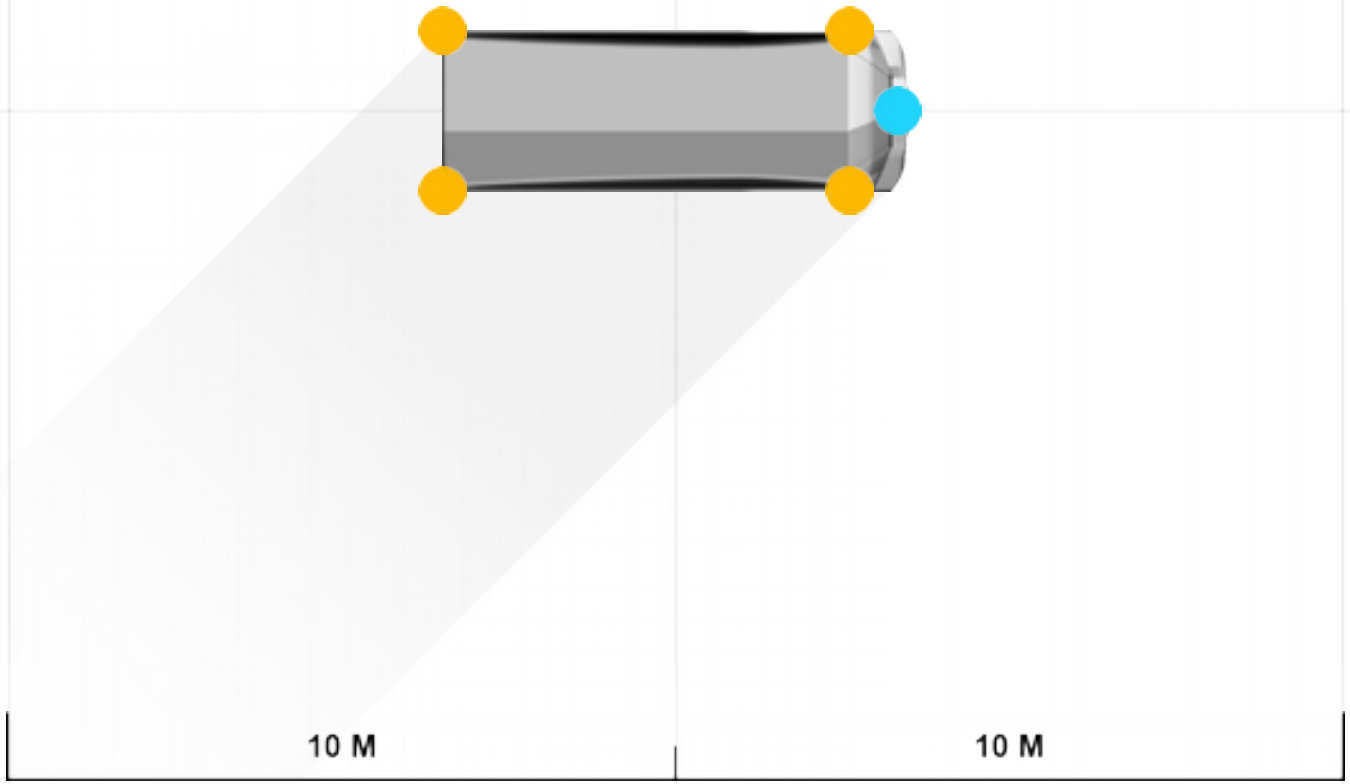
Remote driving technology
Ultra low latency video
Remote driving station
Operators able to drive and/or assist self driving

Self driving technology (under development)
SAE level 4 self driving capabilities
Operator assisted outside of level 4 envelope
Stabilization logic for high dynamic operation

T-POD FROM ABOVE



FRONT AND CORNER RADAR POSITIONS

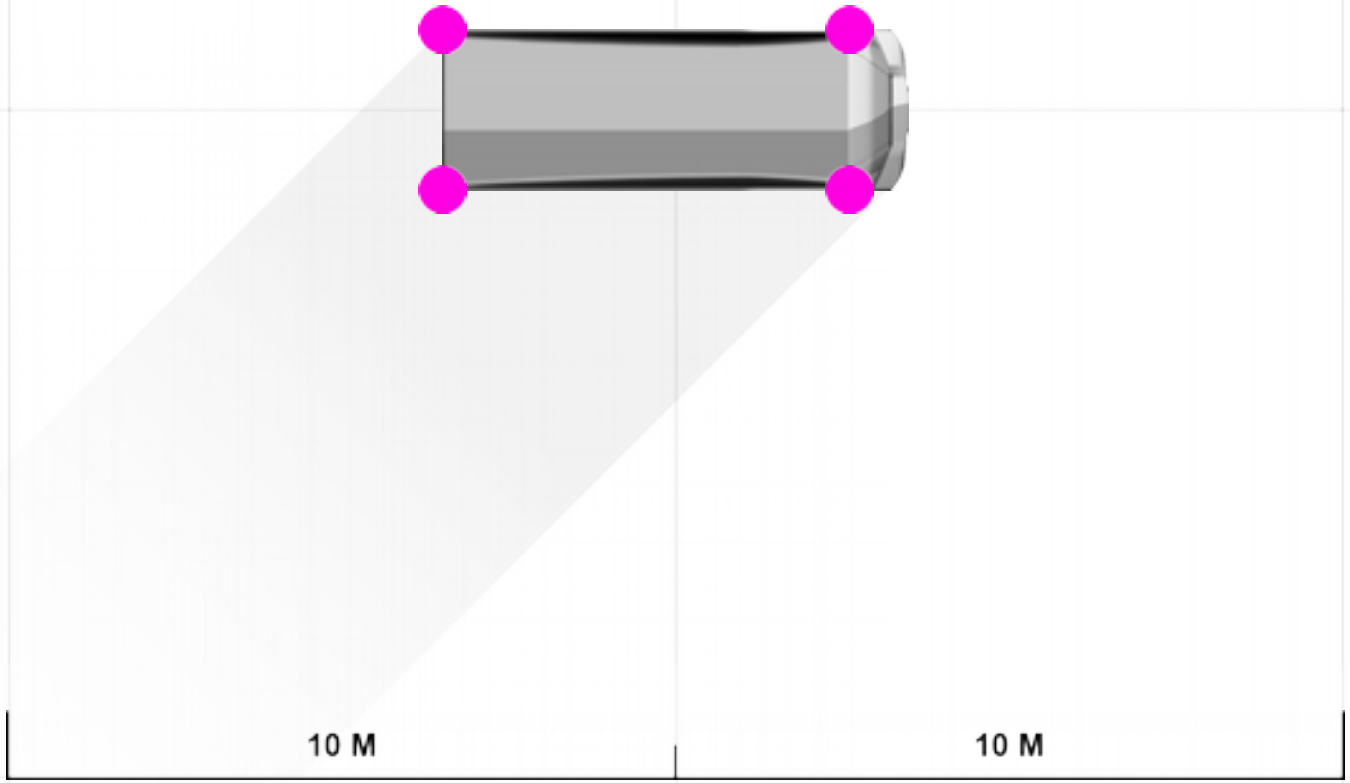


FRONT RADAR LONG RANGE
(20° / 175 M)

FRONT RADAR MID RANGE
(90° / 60 M)

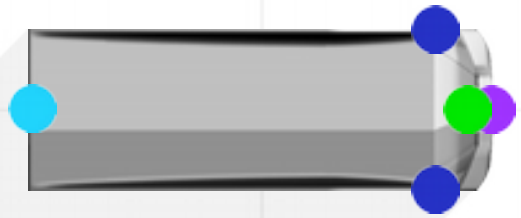
CORNER RADAR
(150° / 80 M)

LIDAR POSITIONS



LIDAR
(360° / 100 M)

CAMERA POSITIONS



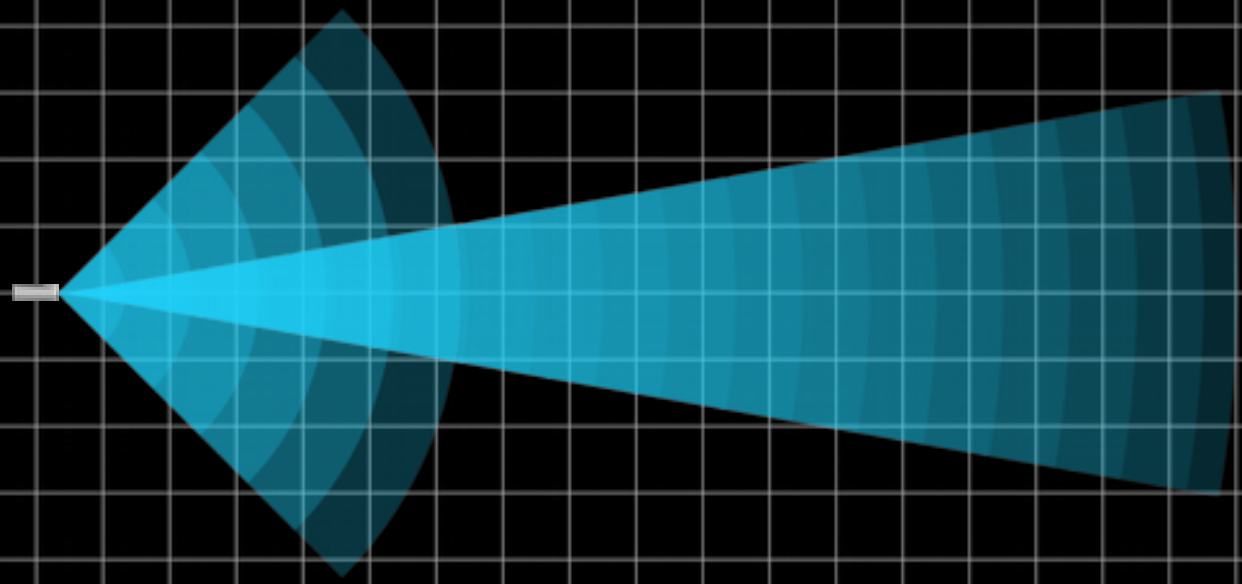
FRONT CAMERA SELF-FRIVING
(40°)

OPERATOR CAMERA FRONT
(120° or 90°)

OPERATOR CAMERA FRONT CORNER
(180°)

OPERATOR CAMERA BACK
(120°)

FRONT RADARS

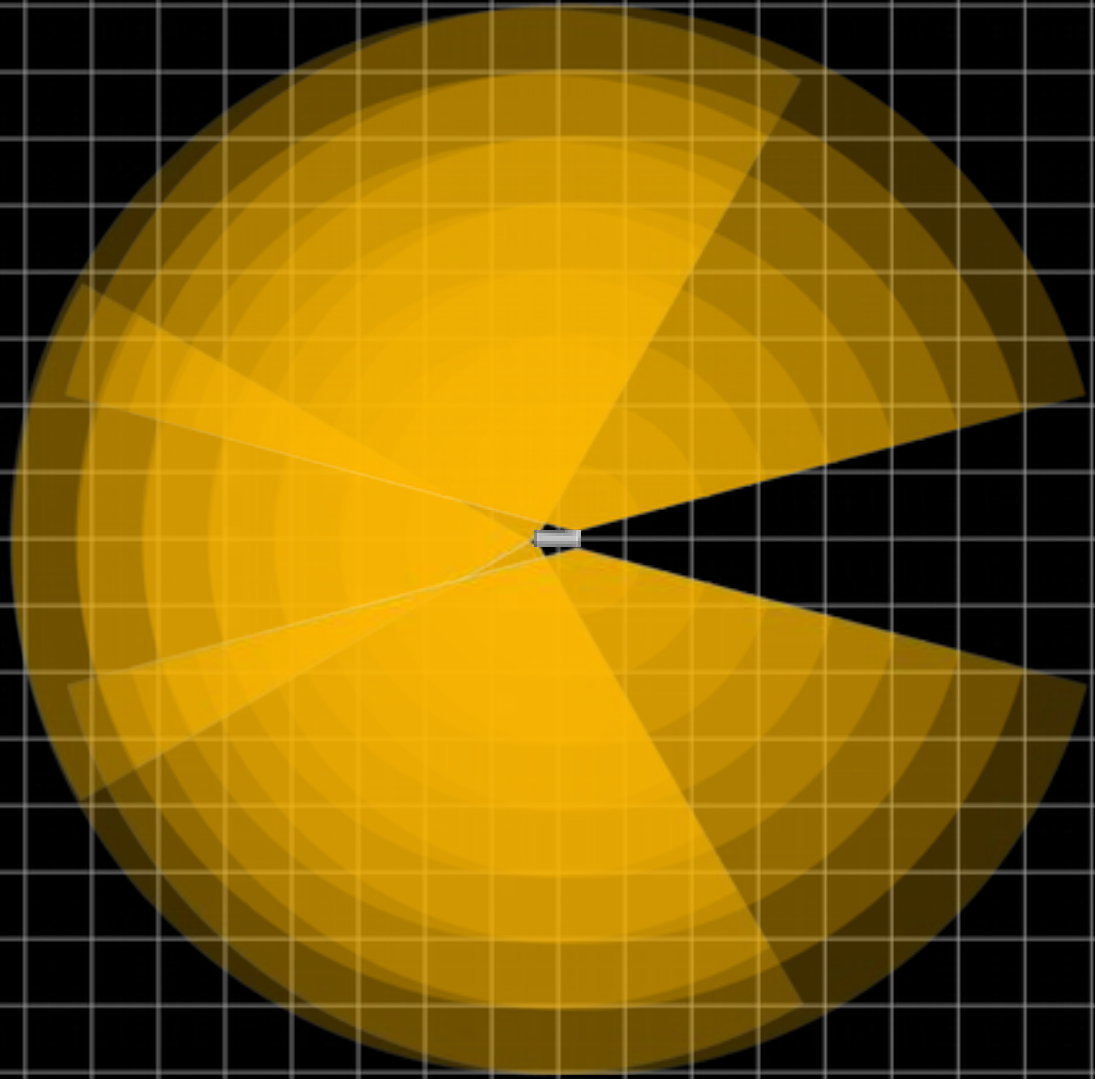


FRONT RADAR LONG RANGE
(20° / 175 M)

FRONT RADAR MID RANGE
(90° / 60 M)

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 M

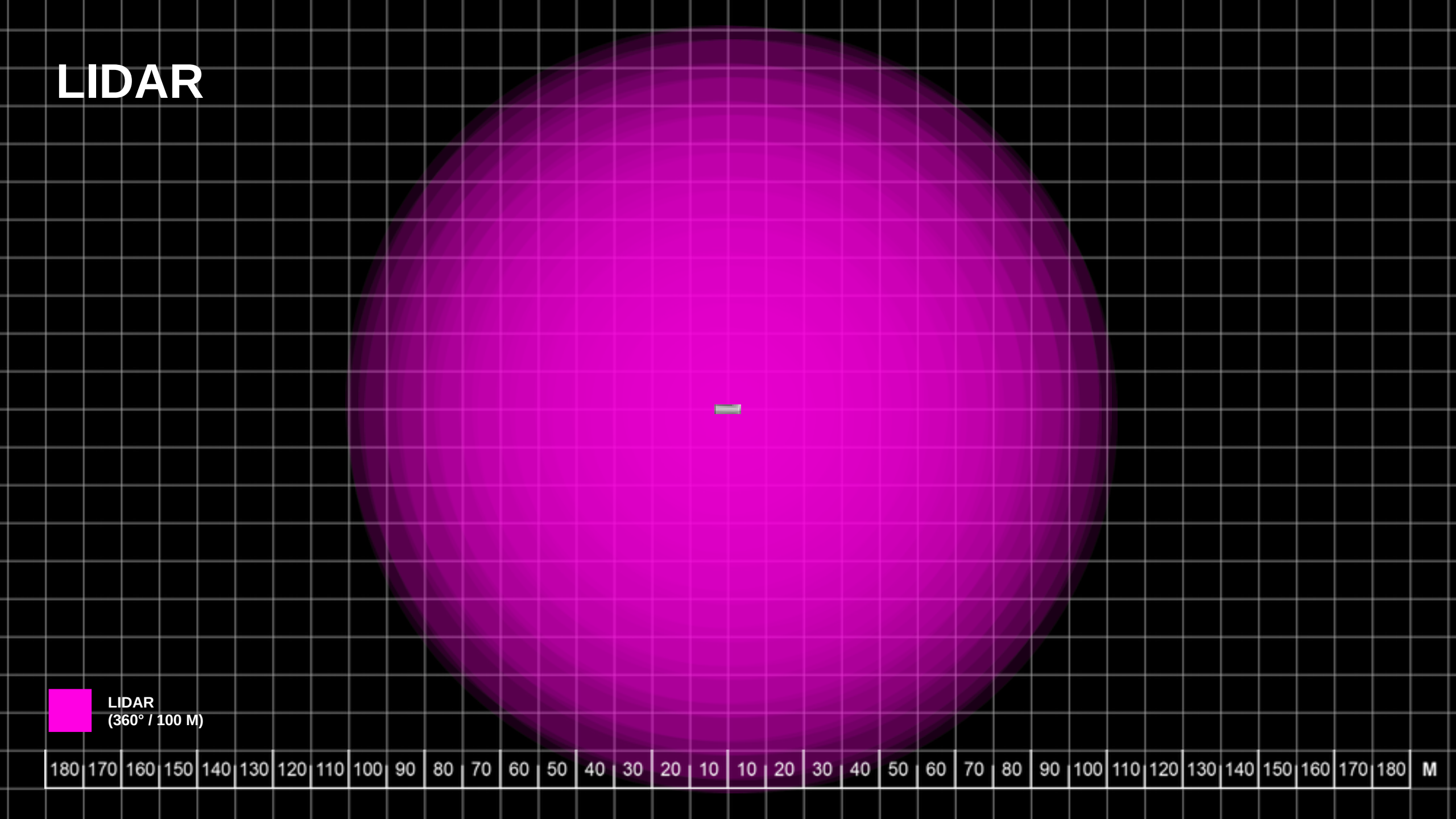
SIDE AND CORNER RADARS



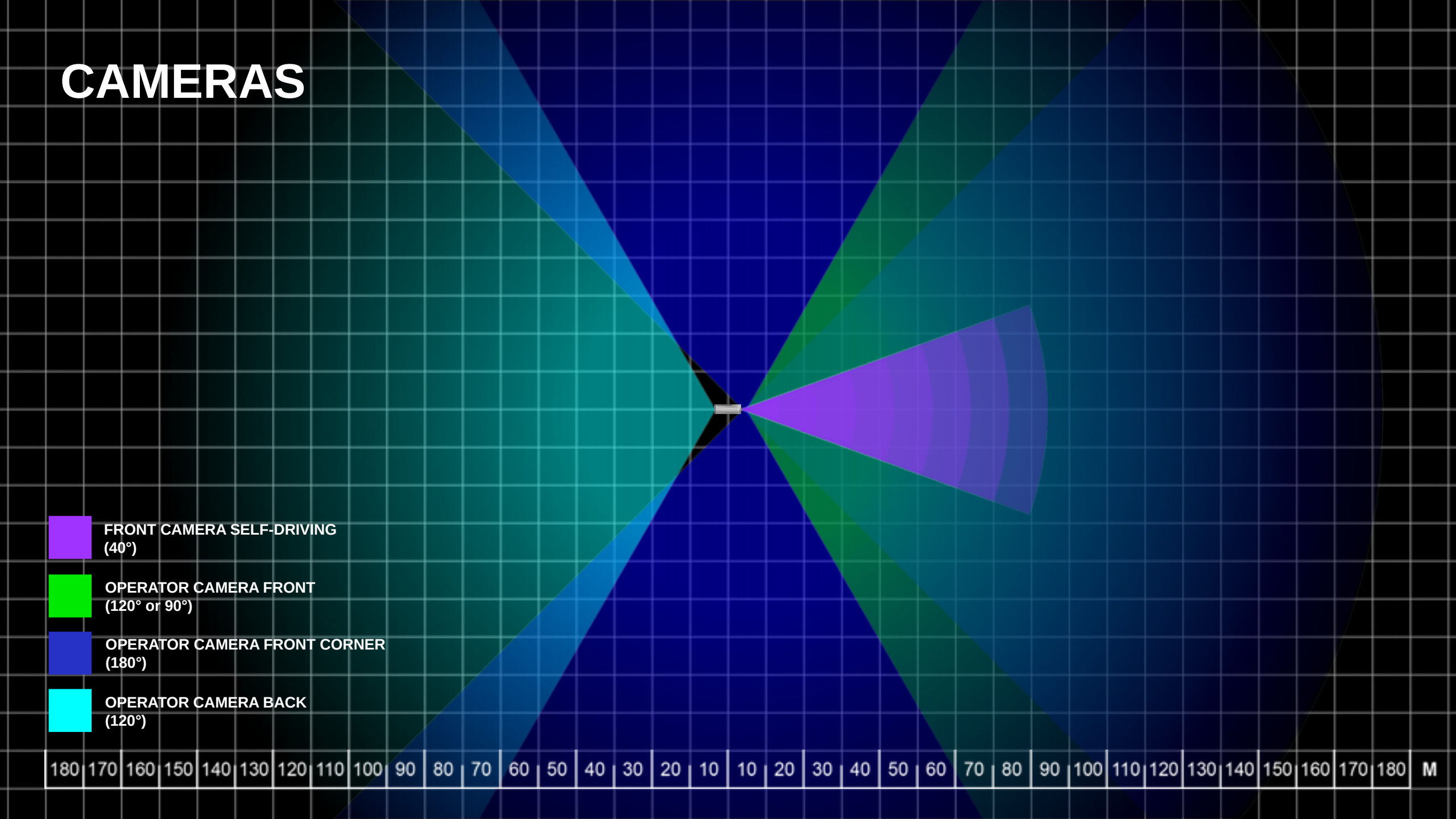
CORNER RADAR
(150° / 80 M)

180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 M

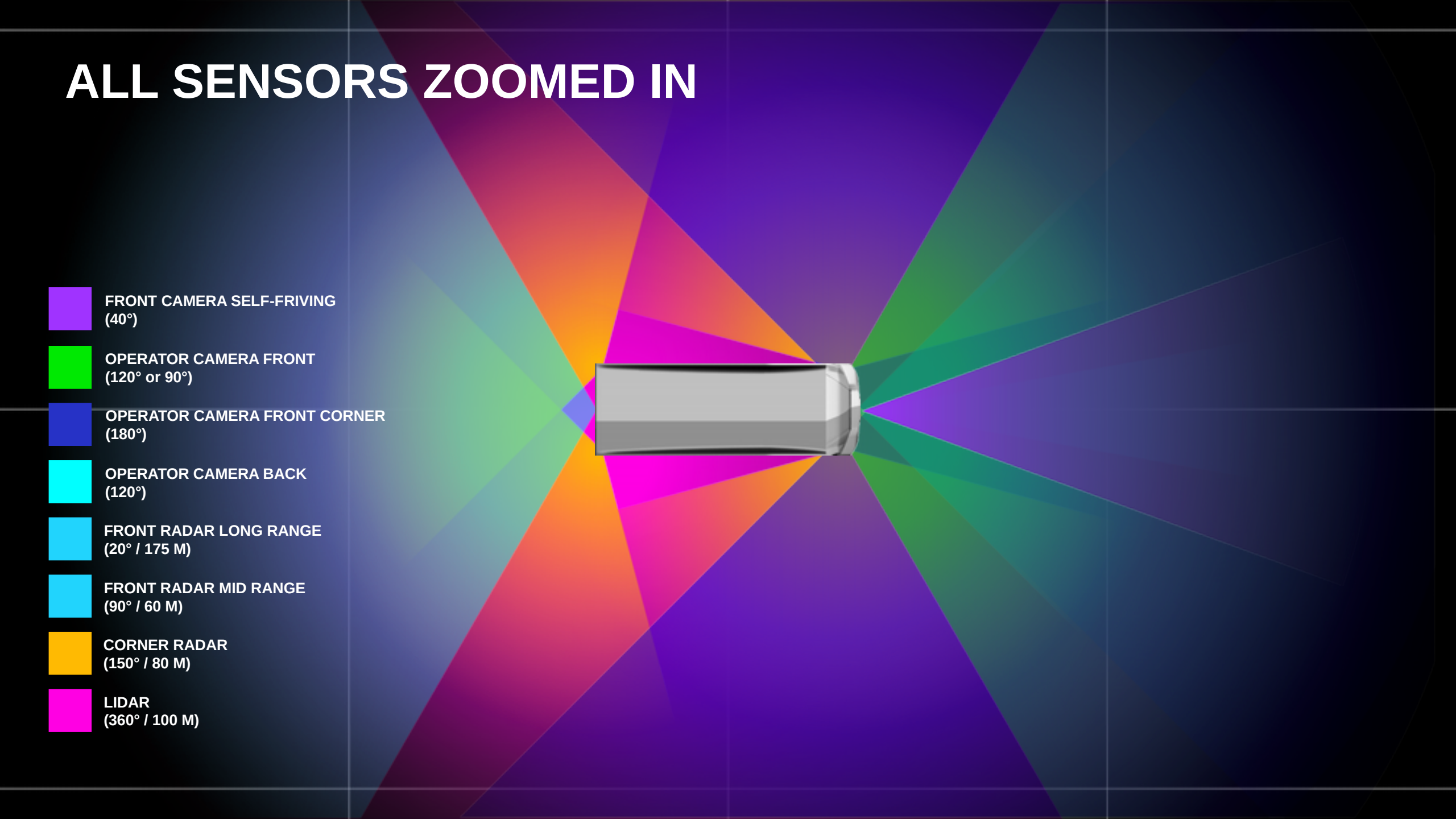
LIDAR


LIDAR
(360° / 100 M)
180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 M

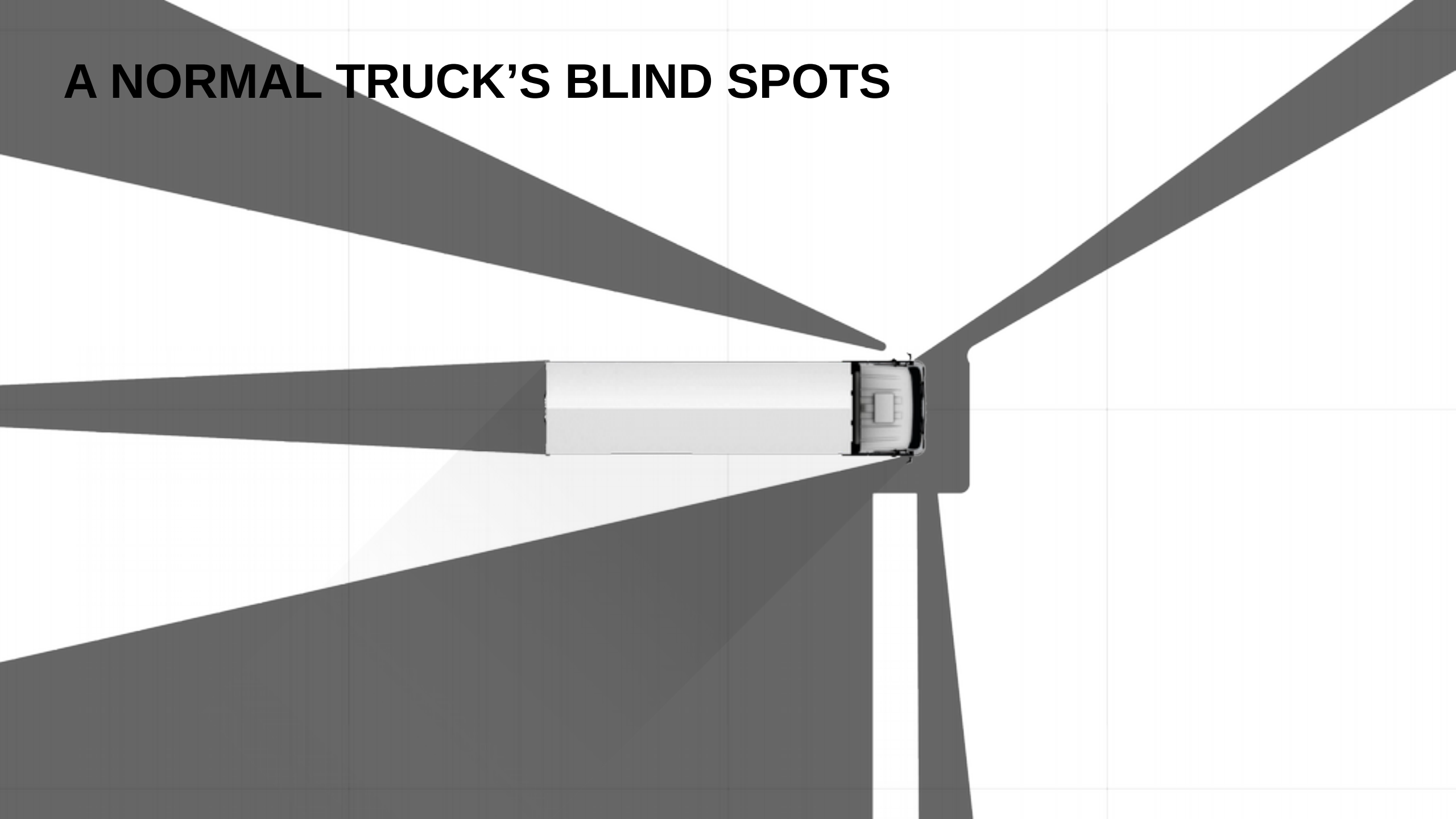
CAMERAS

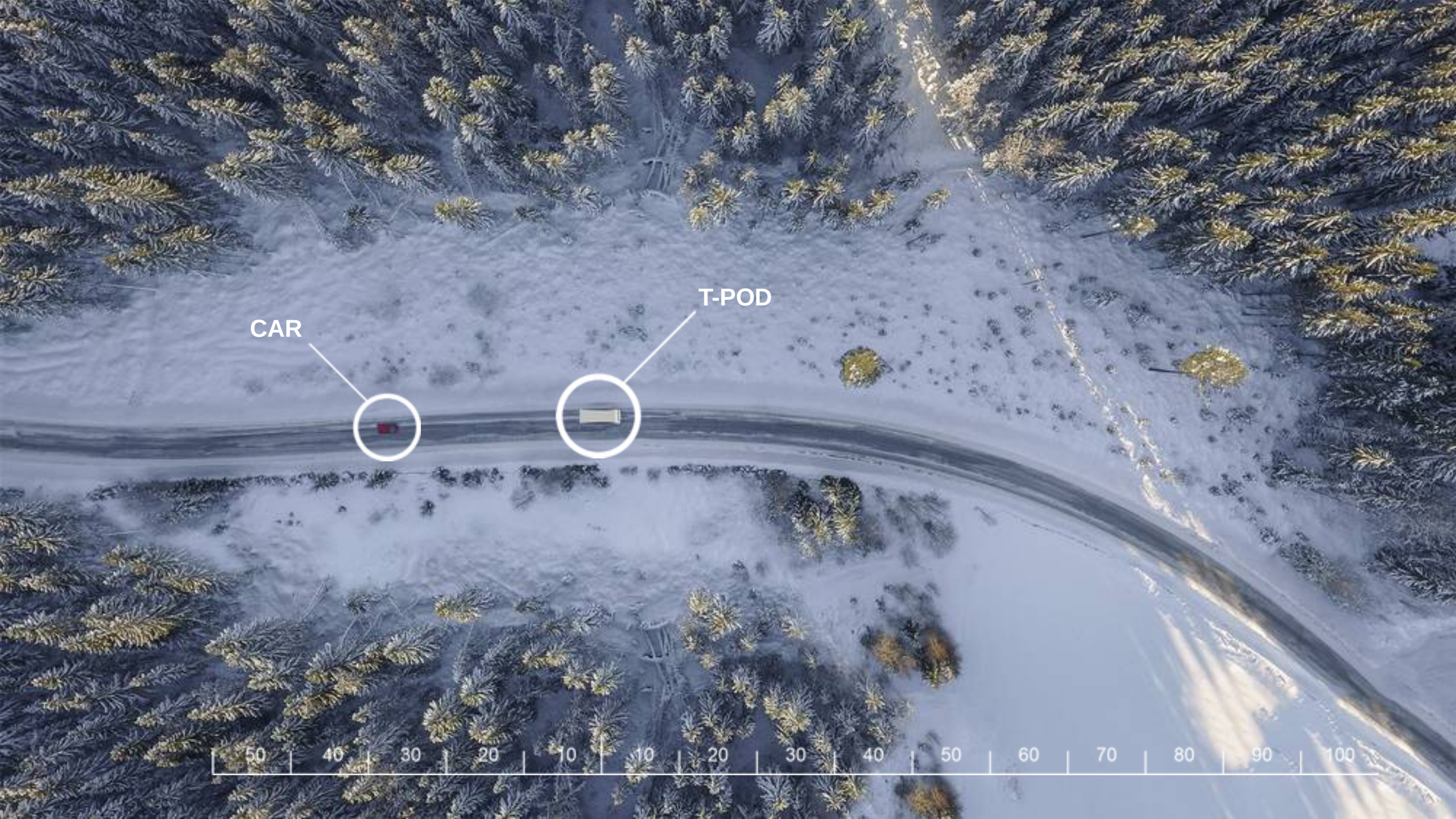

FRONT CAMERA SELF-DRIVING
(40°)
OPERATOR CAMERA FRONT
(120° or 90°)
OPERATOR CAMERA FRONT CORNER
(180°)
OPERATOR CAMERA BACK
(120°)
180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 M

ALL SENSORS ZOOMED IN



A NORMAL TRUCK’S BLIND SPOTS




CAR
T-POD
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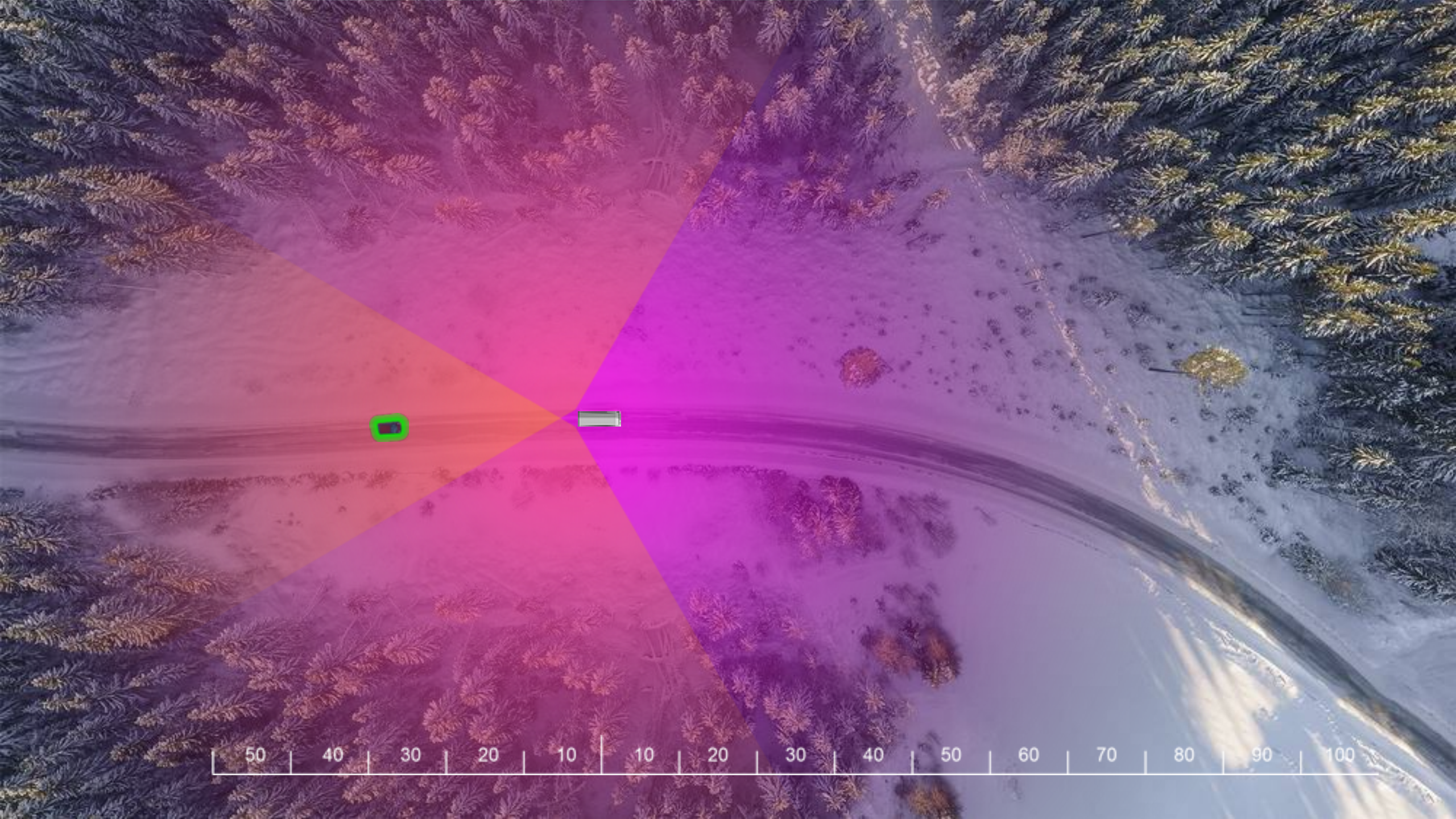
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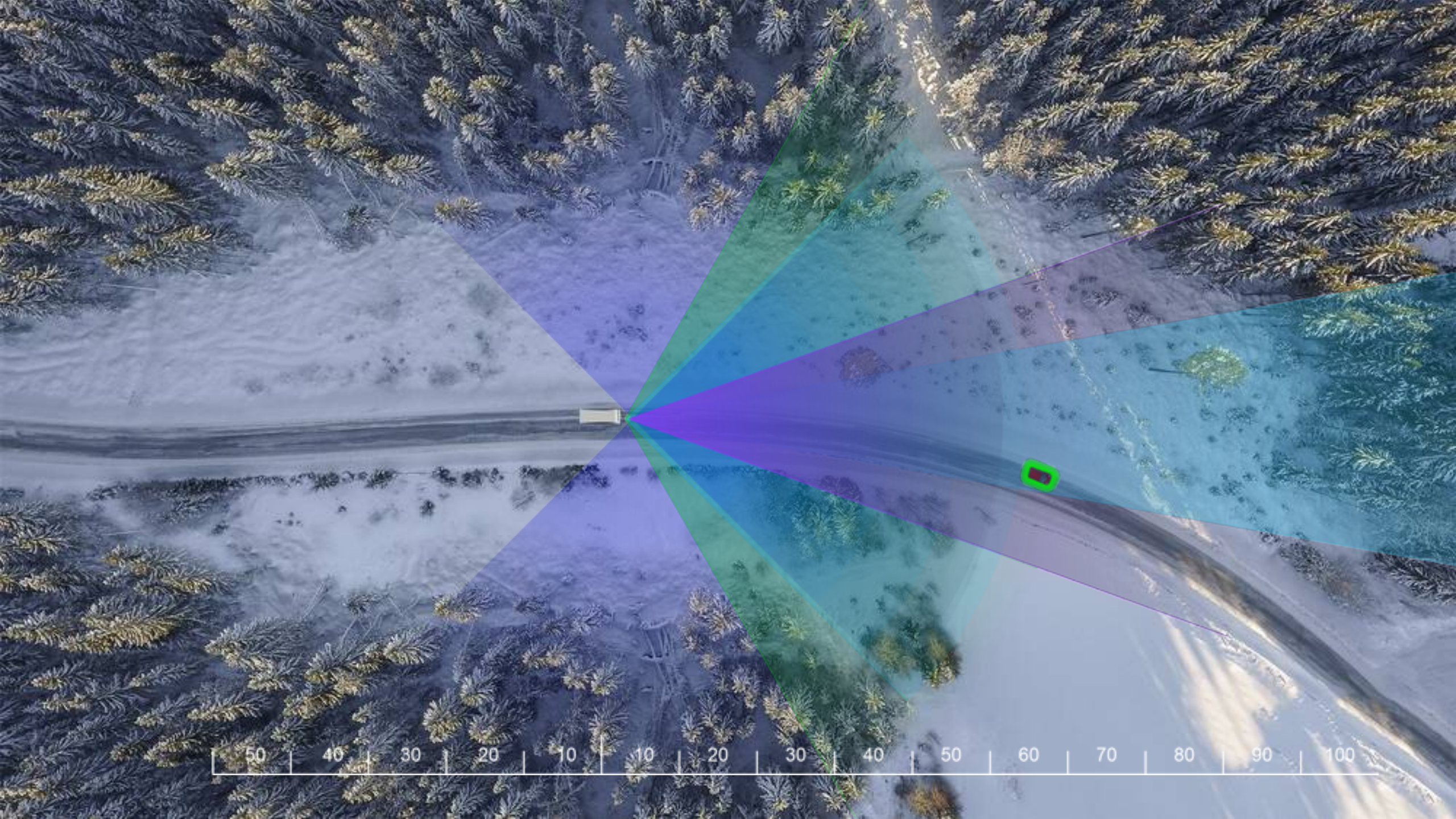
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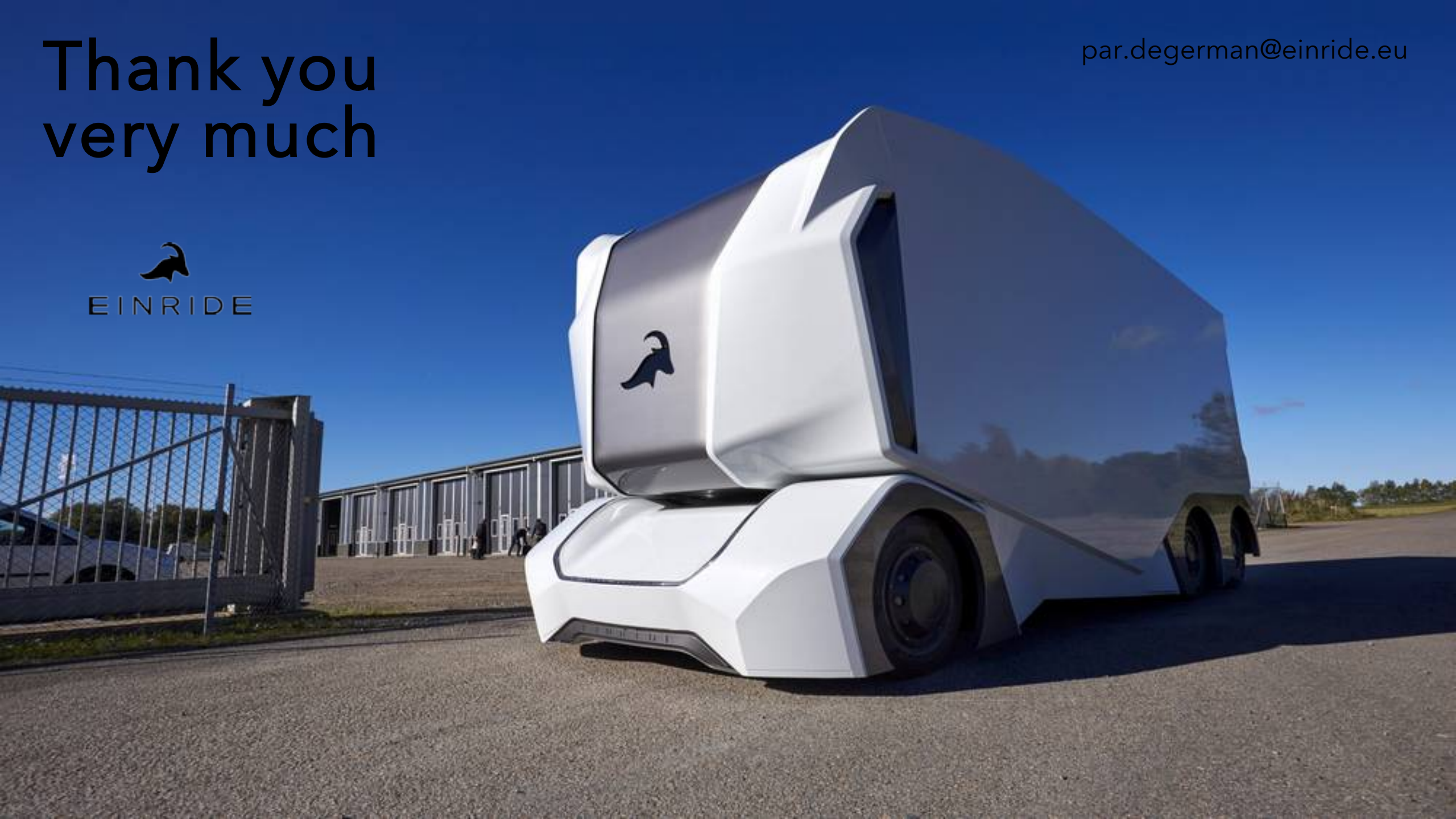
Thank you very much

par.degerman@einride.eu

EINRIDE



...one more thing

Einride is today releasing the Future of Transport Facebook group for discussions technology around autonomous and sustainable transport

Join us!

https://is.gd/qPFCkM