

PÄIVÄÄ
こんにちは
GOOD DAY

sensible⁴

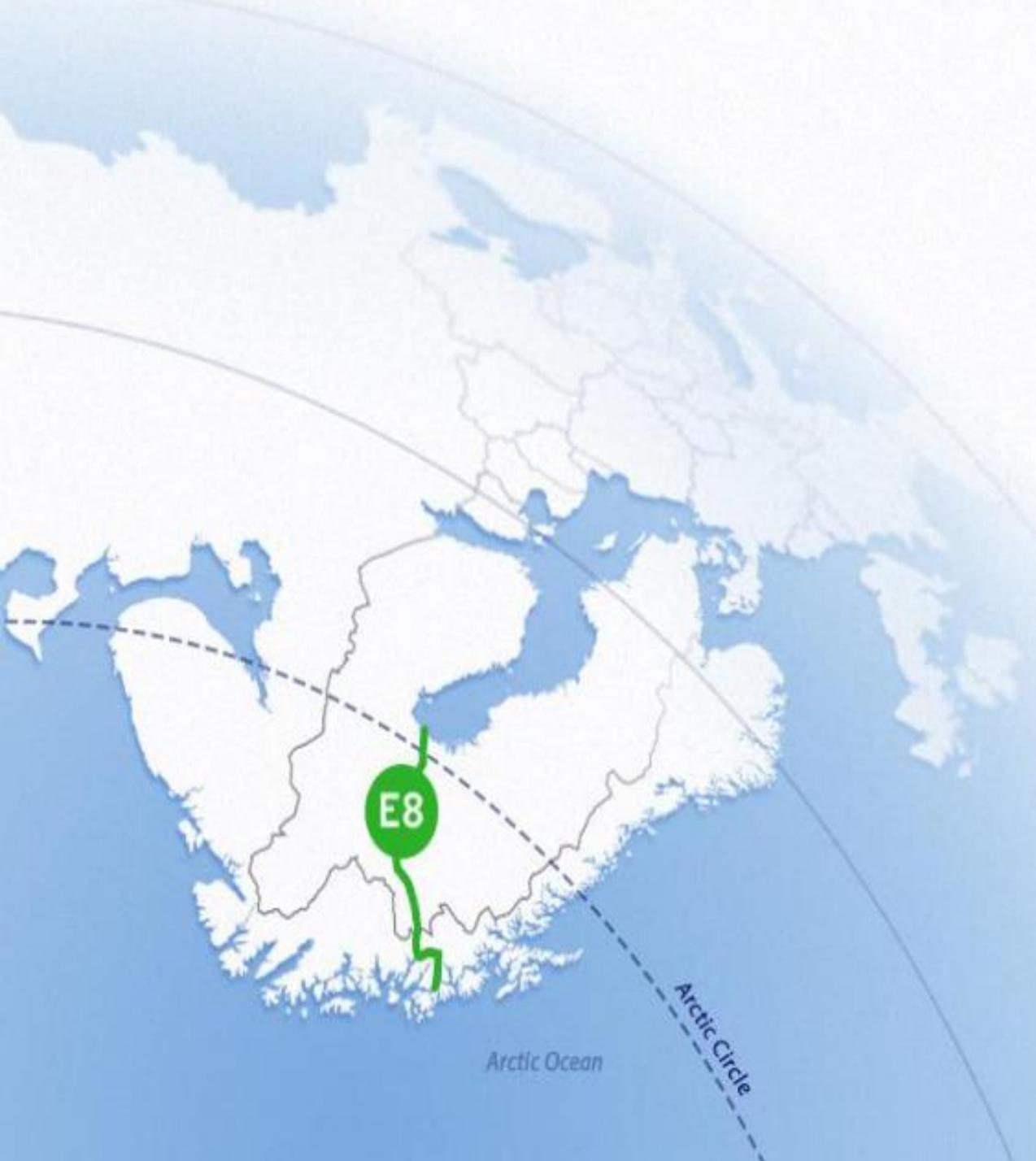
SELF-DRIVING
EVERYWHERE



ONGOING ACTIVITIES IN FINLAND

BY HARRI SANTAMALA





WHERE IS FINLAND?

61.9241° N, 25.7482° E

LETS ROLL BACK
50 YEARS



SAE L4 LEGAL IN FINLAND

1970's

1993

1998

2007

2016



THE FIRST AD VEHICLE

1985

1993

1998

2007

2016



OPENROAD

1985

1993

1998

2007

2016



THE PROBLEM:

BAD WEATHER

1985

1993

1998

2007

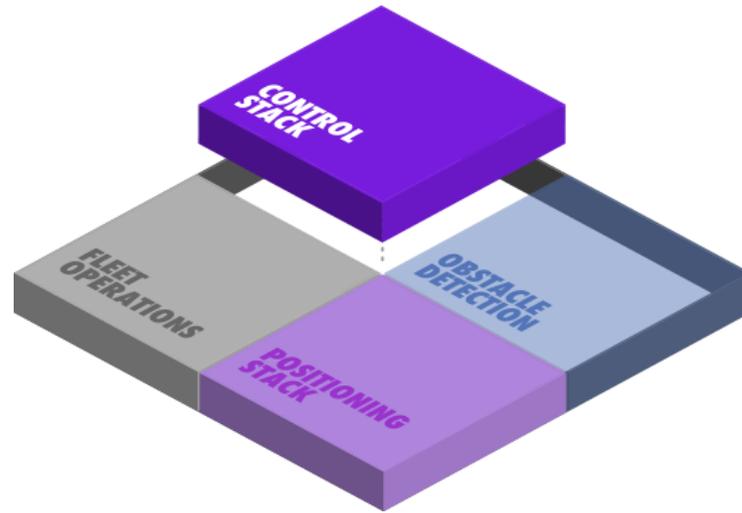
2016

TYPICAL ISSUES WE HAVE SEASONALLY





AUTOMATION SYSTEM



TRANSFORMING REGULAR VEHICLES
INTO AUTONOMOUS ONE



ONGOING ACTIVITIES



GACHA





DEVELOPMENT OF GACHA BEGINS

SEPTEMBER 2017

WITH BUS SIMULATORS





IN PPP COLLABORATION





TOGETHER
IN PARTNERSHIP

MUJI
無印良品

sensible⁴



GACHA LAUNCH

MARCH 2019

GACHA

“SHORT BUS”

Capacity: 10 seats, 6 standing

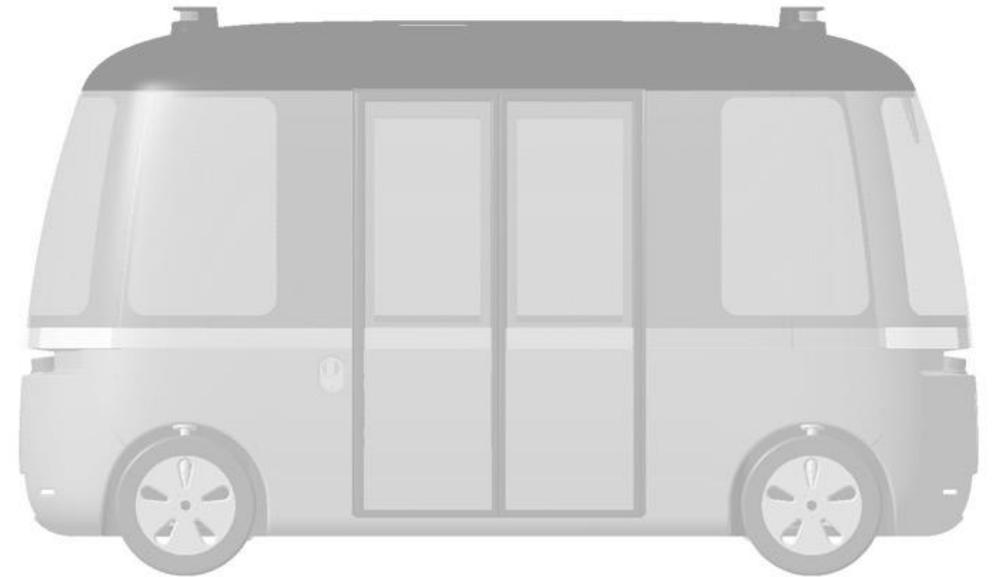
Easy access for people with limited mobility

Exterior displays around the vehicle for vehicle to human communications

Max speed: 40 km/h autonomous

Powertrain: 4WD electric

Range: 100+ km



SELF-DRIVING
EVERYWHERE

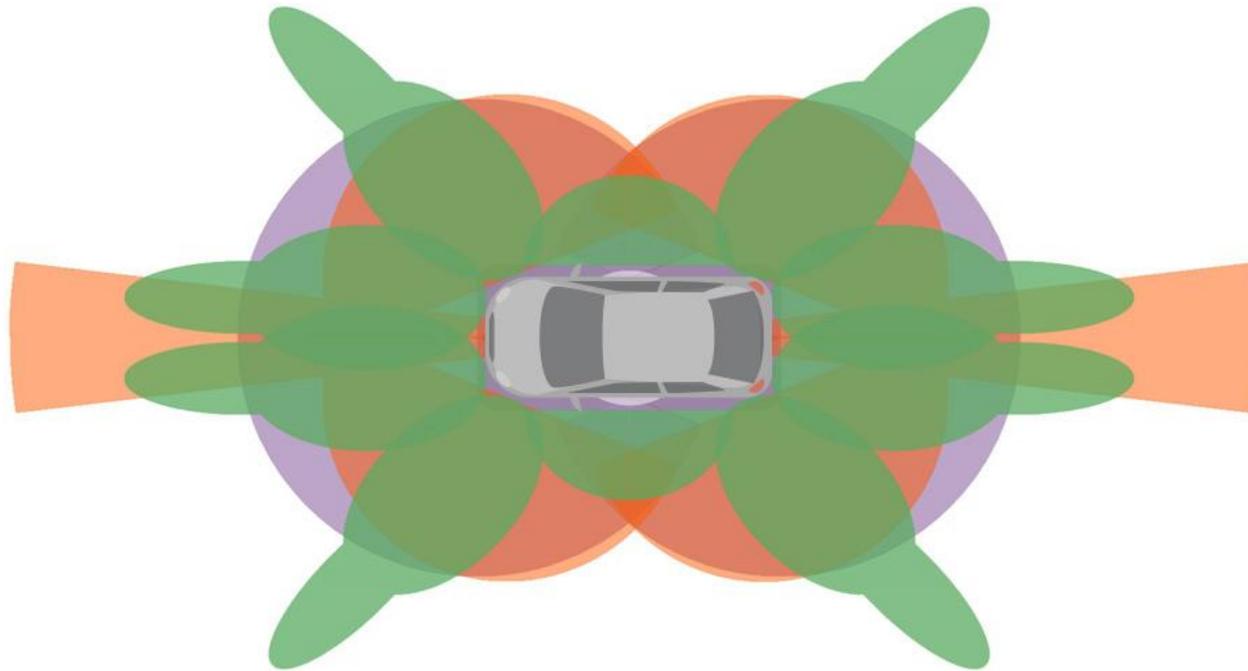


THE CHALLENGE OF

BAD WEATHER

SENSORS

ALL COMBINED, ALL WEATHER, ALL ENVIRONMENTS



GACHA PILOTS

AND GOALS

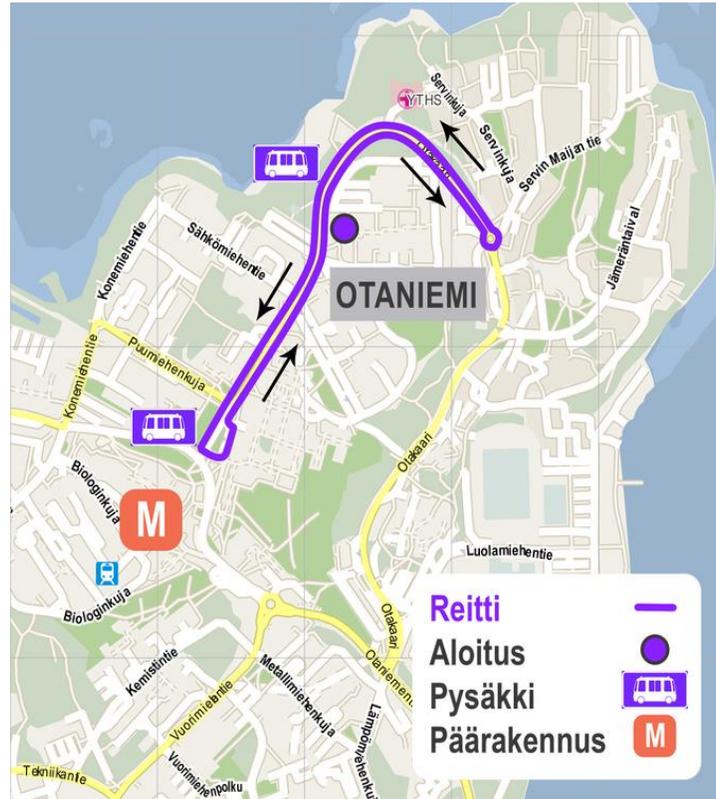


FINLAND FIRST PILOT

JULY 2019



ESPOO



PILOT FOCUS







FINLAND NOKIA HQ

SEPTEMBER 2019 -



ESPOO

NOKIA

PILOT FOCUS





FINLAND

HÄMEENLINNA

OCTOBER 2019

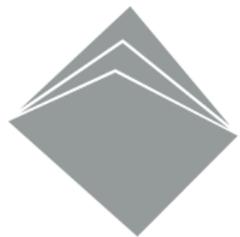


PILOT FOCUS



FINLAND VANTAA

JANUARY 2020 -



Vantaa

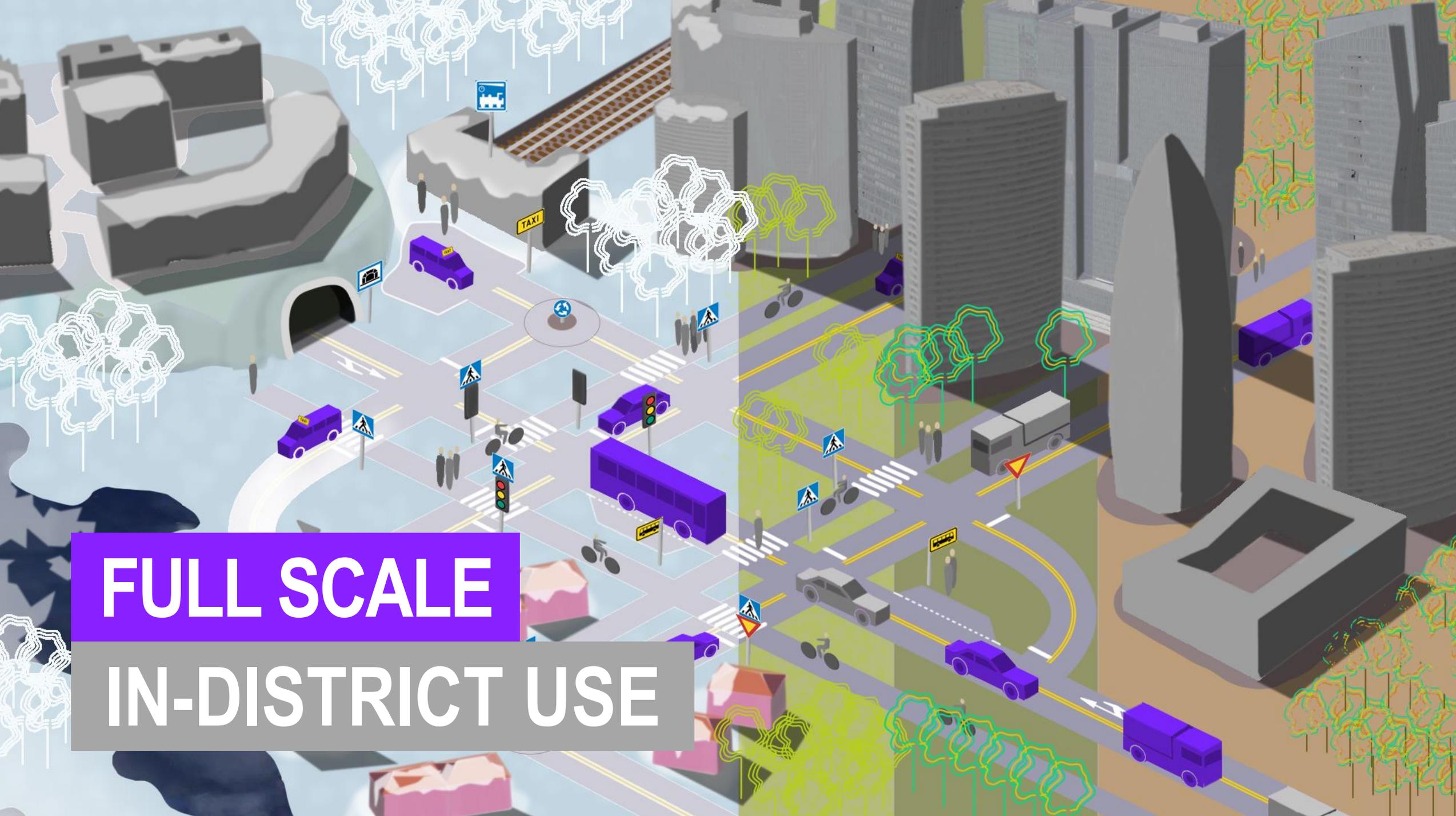


NEXT GENERATION GACHA FLEET

TO EU AND ASIA 2020 - 2021



THE FUTURE



FULL SCALE

IN-DISTRICT USE



THE FUTURE

IS NOW



**SELF-DRIVING
EVERYWHERE**

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THANK YOU FOR YOUR ATTENTION