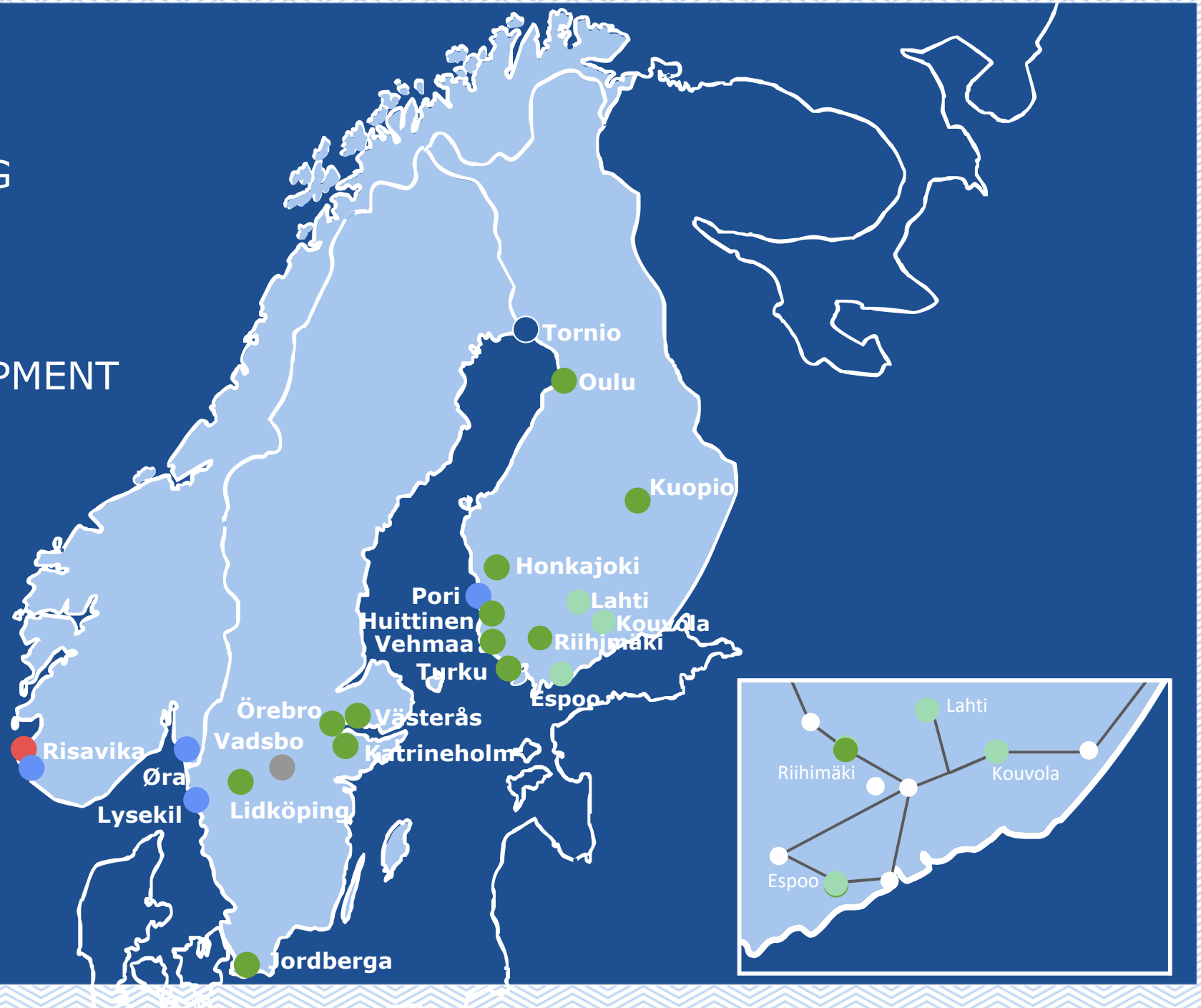
Biogas and the Circular Economy for fossil free road transportation

29/1/2019 Matti Ojanpää

Gasum

GASUM IS DEVELOPING THE NORDIC GAS ECOSYSTEM AND PROMOTING SUSTAINABLE DEVELOPMENT

- LNG production plant
- LNG terminal
- LNG terminal (joint project)
- Gasum, biogas
- Gasum, biowaste and biogas
- Biogas production plant (joint project)



WE SELL GAS

NATURAL GAS (CNG)

- 98% methane (CH_4)
- Natural gas combustion does not create any dust, soot or heavy metal or sulfur emissions.
- 25% less CO2 emissions than diesel

BIOGAS (CBG)

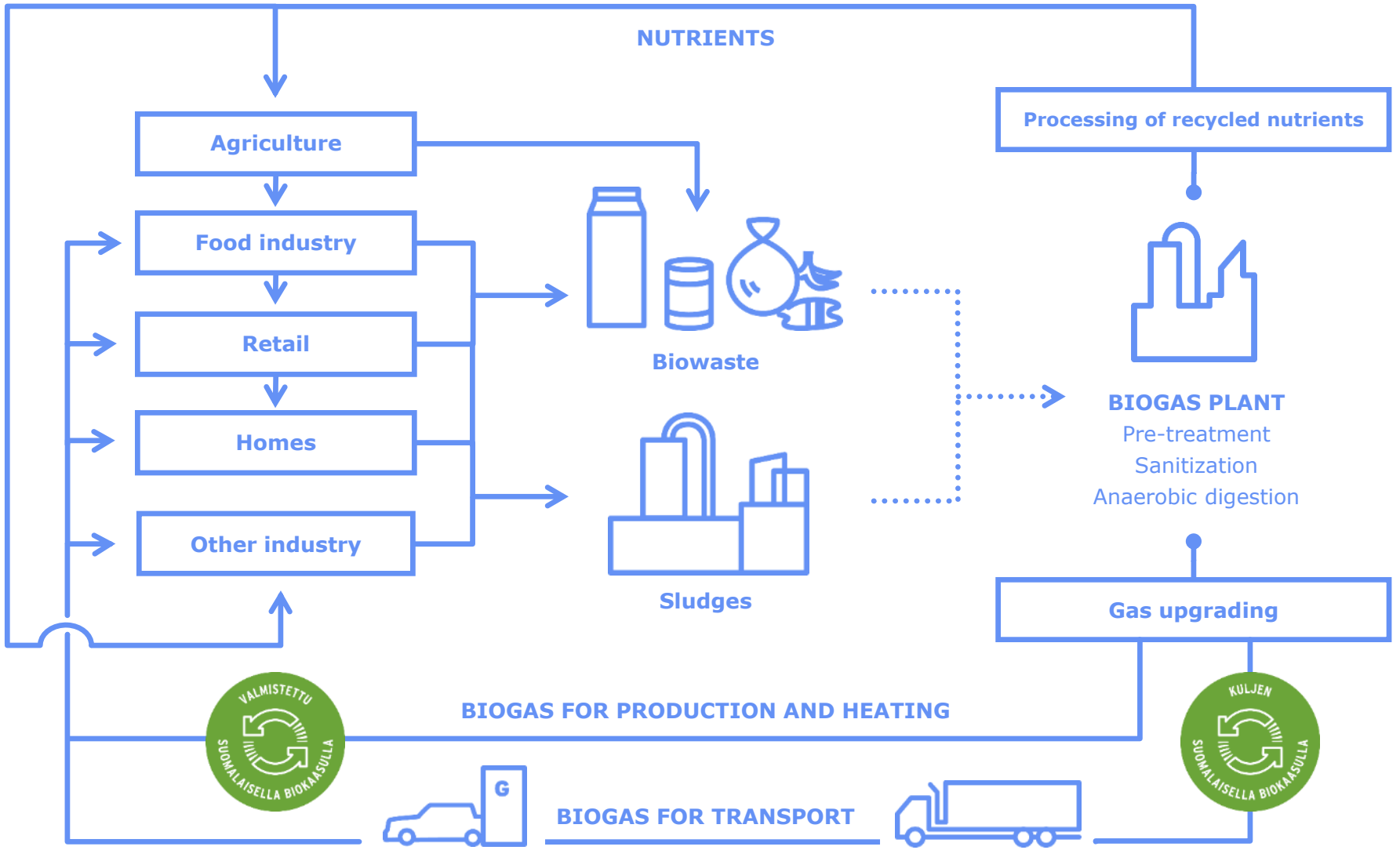
- Locally produced
- 100% renewable
- Gasum biogas is 98% methane
- Biogas is produced from biodegradable waste generated by homes, industry and retail outlets

LNG/LBG

• Liquefied natural gas or biogas for heavy-duty transport use
• No sulfur dioxide emissions
• Provides access for users outside the gas pipeline network

GOING FROM FOSSILE TO RENEWABLE

THE CIRCULAR ECONOMY



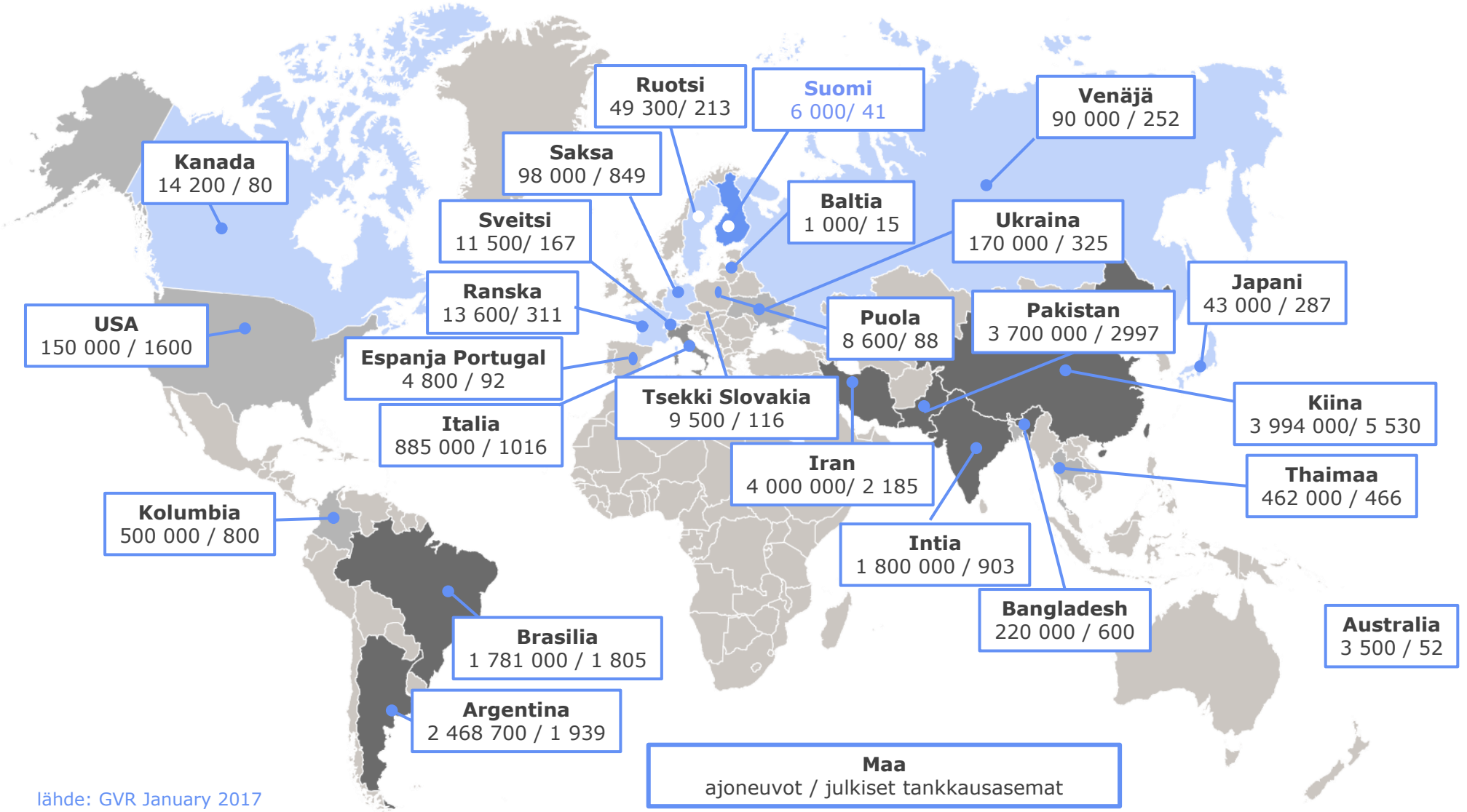
THE CLEANEST ALTERNATIVE

- Biogas is 100% domestic Energy
- Produced of fully renewable raw-materials
- Zero net-emission

CLEAN TRAFFIC

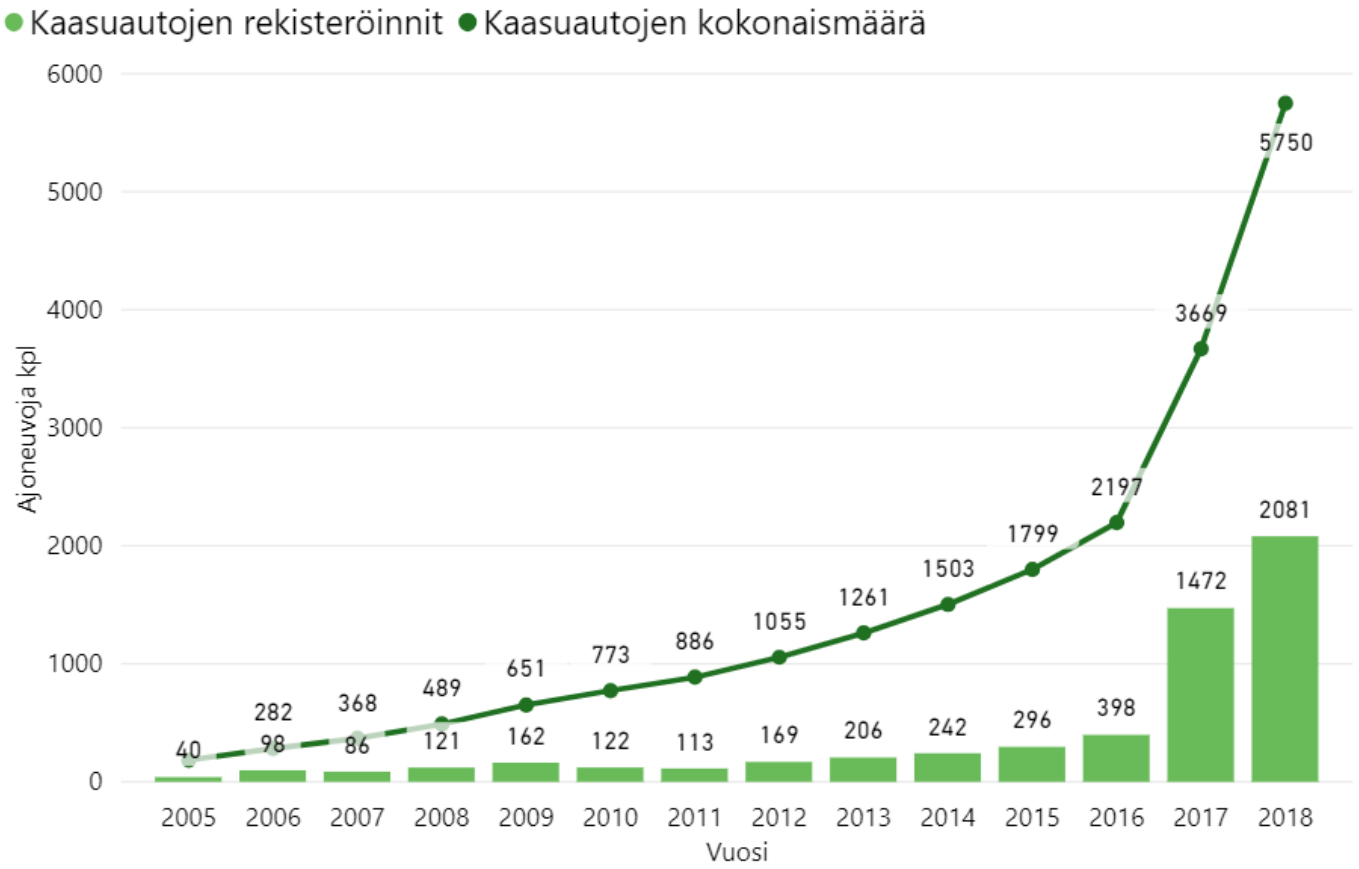
GAS FUELED VEHICLES

Europe 1,9 million, Globally 20 million



lähde: GVR January 2017

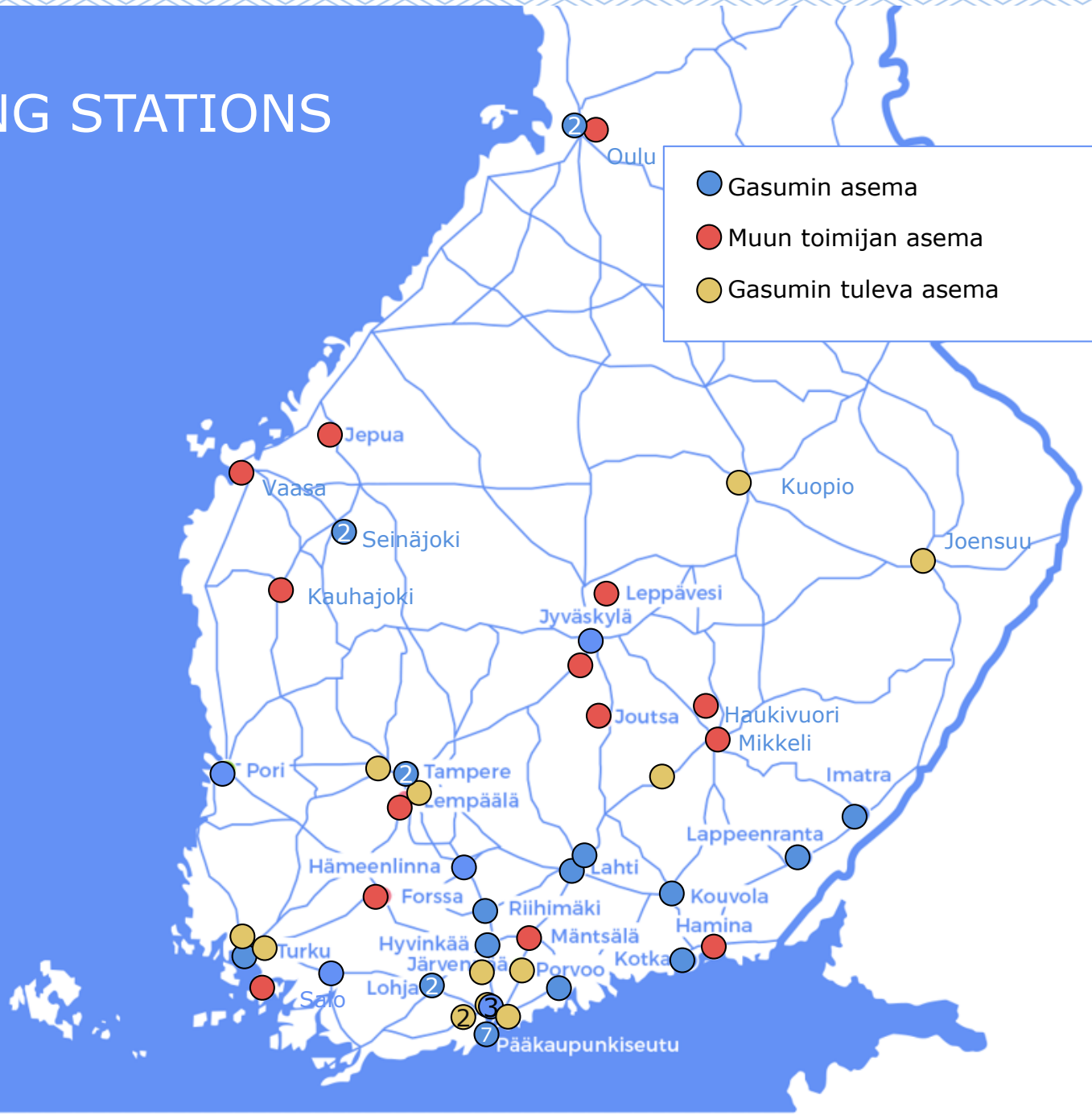
GAS VEHICLES IN FINLAND



GROWING GAS VEHICLE FILLING STATIONS NETWORK IN FINLAND

Gasum to build 35 new filling stations

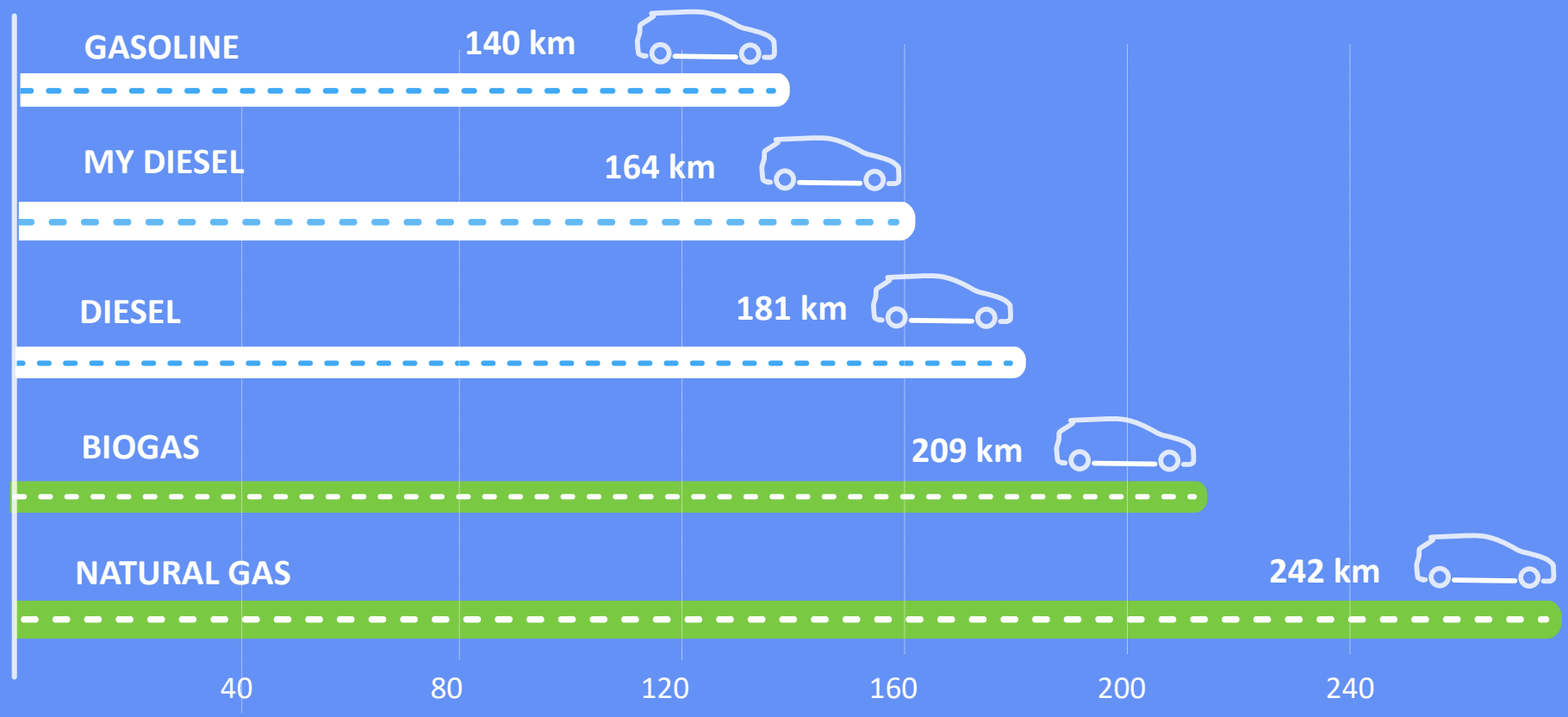
- Currently **45** filling stations of which **32** are operated by Gasum



Gasum
BIOKAASU - BIOGAS
0.928
MAAKAASU - NATURGAS
0.667
TRUCK LNG
Tuontiväylä 2
Gasum
Tuontiväylä 2
Gasum
LNG
GAS-23

CLEAN BUT CHEAP

This is how far €10 will take you*

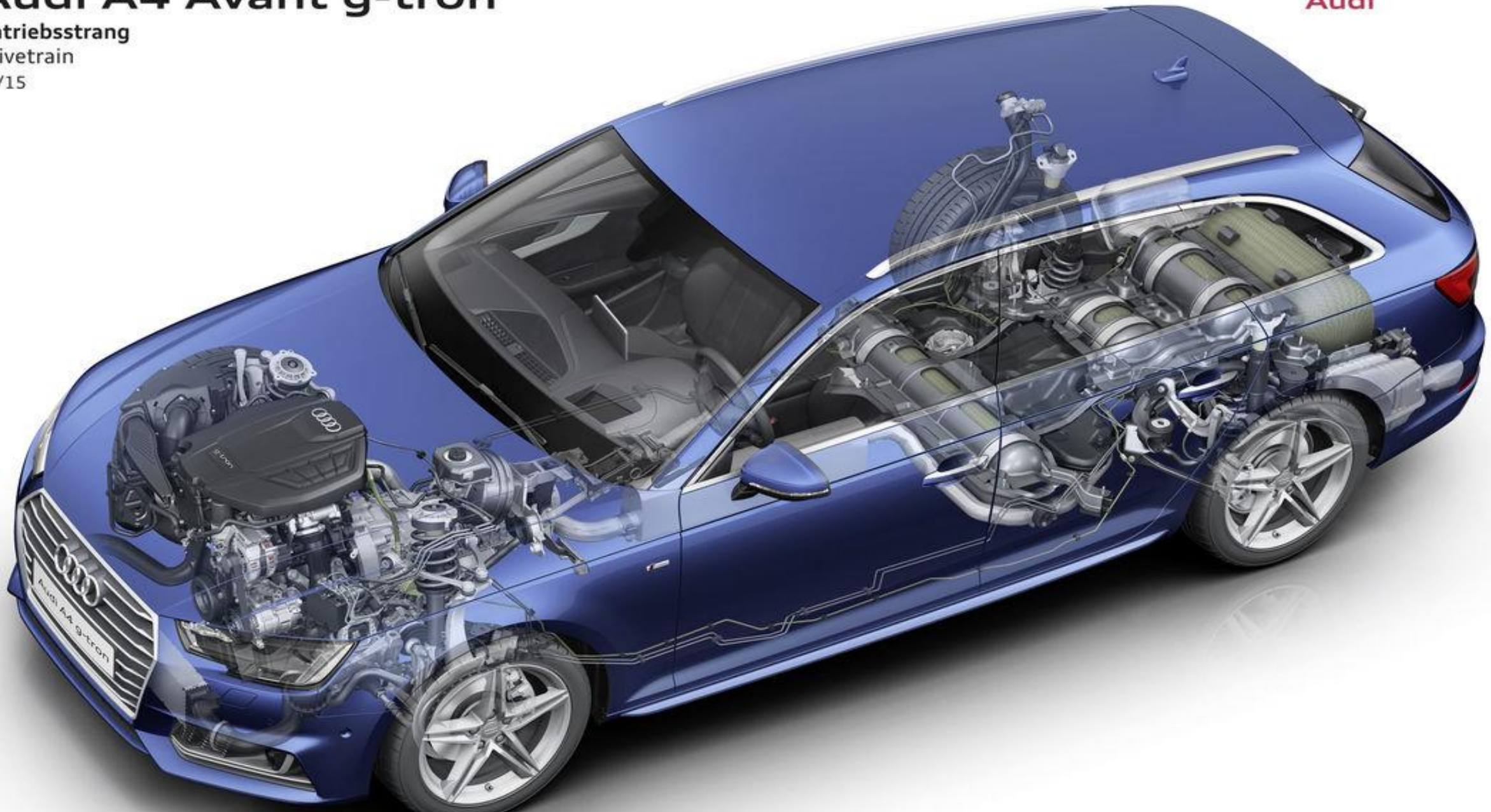


Comparative price per equivalent liter of gasoline: natural gas **€0.782/l** and biogas **€0.928/l**

* Prices based on average prices for Helsinki Metropolitan Area August, 2018. www.polttoaine.net

Audi A4 Avant g-tron

Antriebsstrang
Drivetrain
09/15



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