CREATIVE SESSIONS

URBANISM NEXT EUROPE 2021

5oG – The New Urban Mobility

Speaker: Hans-Georg Höhne, hoehne technologies

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URBANISM NEXT EUROPE 2021

GoG

The New Urban Mobility !

Speaker: Hans-Georg Höhne, hoehne technologies

- Emission free
- Quiet
- Comfortable
- Barrier-free
- Efficient
- Reliable
- Fair
- Resource-saving
- Safe

A Recombination Of Existing Concepts

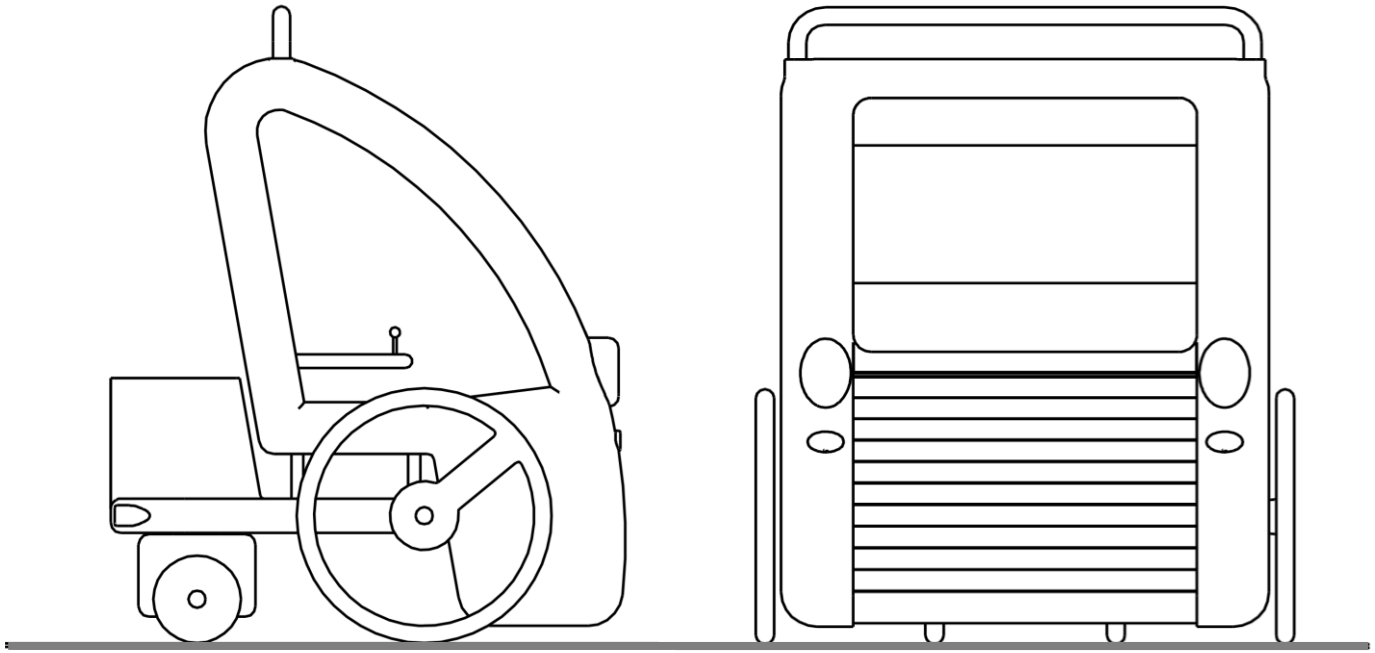
Proven Concepts:

- Pedelec
- Rickshaw
- Ropeway
- Public Transport
- In-Flight Refueling

Promising Concepts:

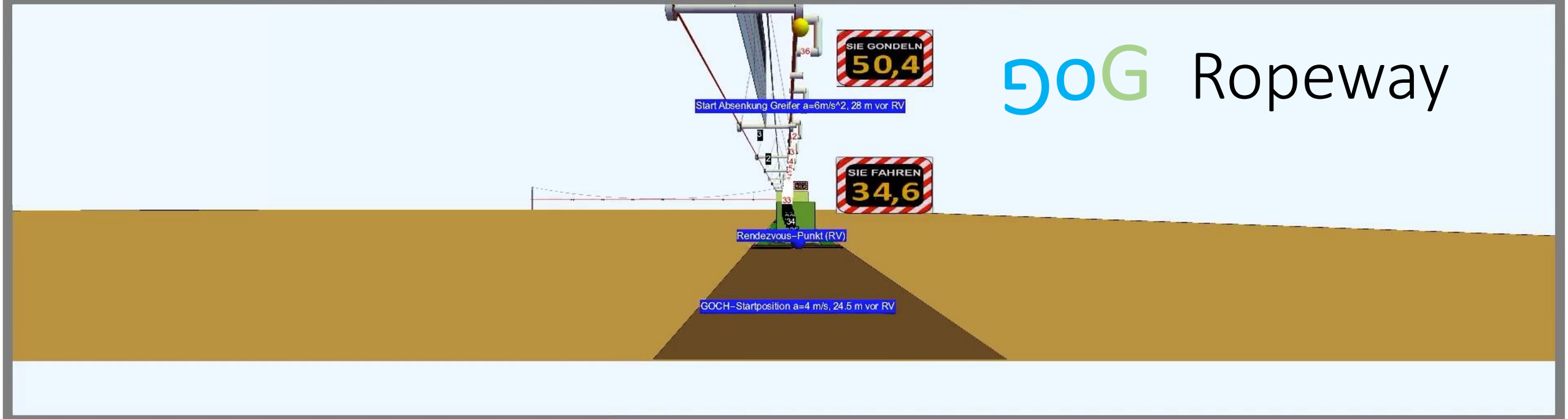
- Car Sharing
- Platooning
- Uber
- Autonomous Driving
- Flight Taxis

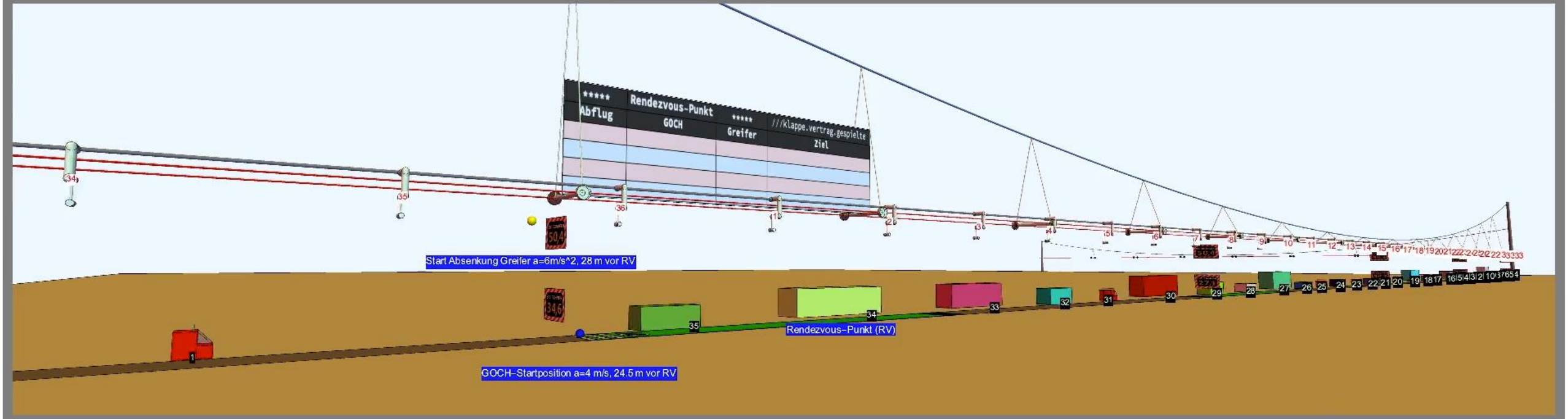
The DoG itself



- Normalized size 1,6 x 1,6 x 1,9 m
- Two-seater
- Total weight <= 500 kg
- 2 Electric motors
- Steering by wire
- Minimum range > 20 km
- Turn on the spot within 2 x 2 m
- Entry at the front
- No threshold
- Windshield, front wall and floor behave like roller shutters
- Holder for the ropeway mount

GoG Ropeway


SIE GONDELN
50,4
SIE FAHREN
34,6
Start Absenkung Greifer a=6m/s^2, 28 m vor RV
Rendezvous-Punkt (RV)
GOCH-Startposition a=4 m/s, 24.5 m vor RV


***** Rendezvous-Punkt *****
Abflug
GOCH
Greifer
///klappe.vertrag.gespielte
Ziel
Start Absenkung Greifer a=6m/s^2, 28 m vor RV
Rendezvous-Punkt (RV)
GOCH-Startposition a=4 m/s, 24.5 m vor RV

Ropeway Changer

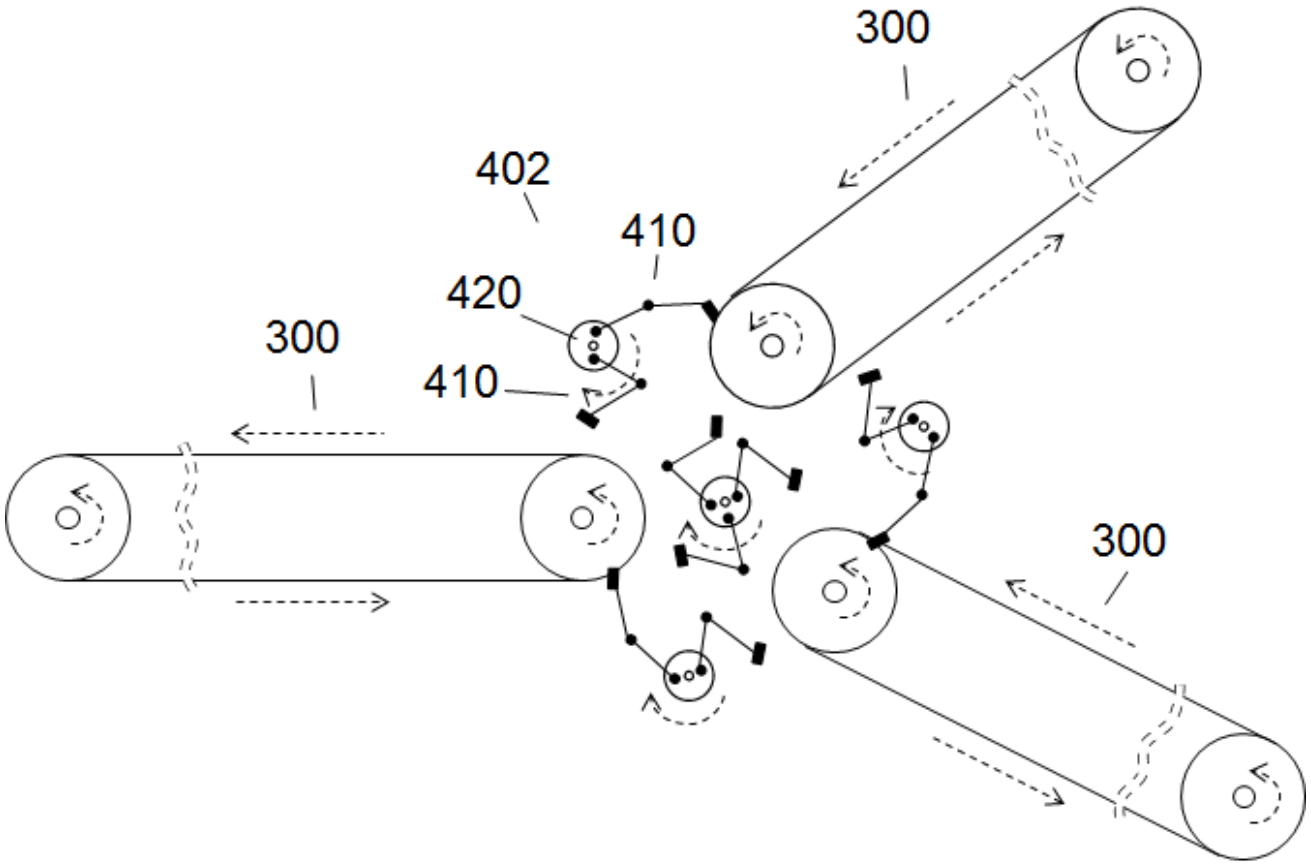


Fig. 8

Simulation


4 m
Image Landsat / Copernicus
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2020 Maxar Technologies
Google Earth

Ropeway Network

goG Platooning

- **Drive within public convoys**
- **Convoys don‘t need to stop**

„goG non stop“

versus

„Bus stop“

Becoming Autonomous

Speed is not so important when movement can be executed autonomously and safely

… for the last meters … with low speed ... <= 6 km/h → Stopping distance < 20 cm

No ethical implications, because of a very low risk of injury

Autonomus driving enables new dimensions of sharing and parking

goG Drive Modes

		km/h
Manual	for fun, as a lead goG	
	or offside public network	**<= 30**
Automatic	for the main distances	
	- Private Convoy (goGs behind lead goG)	**<= 30**
	- Public Convoy (goGs behind lead goG)	**<= 45**
	- Public Ropeway network	**= 50**
	Takeoff and Landing	**<= 55**
Autonomus	for the last meters	**<= 6**

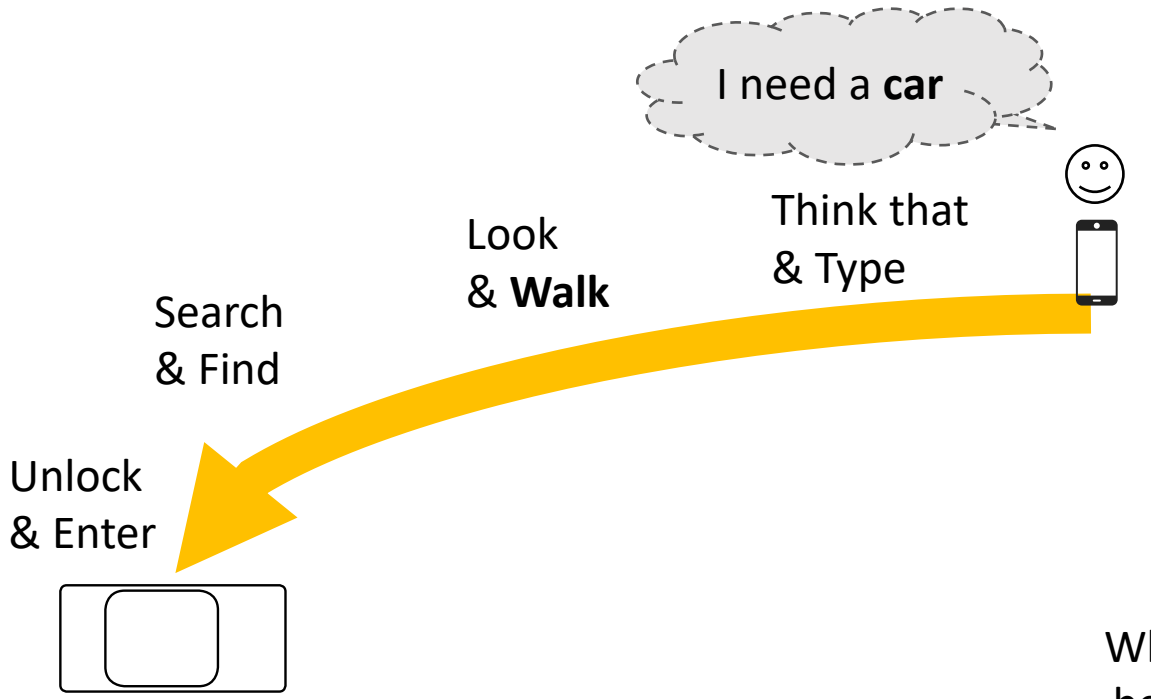
Qualified driver needed

No driver needed

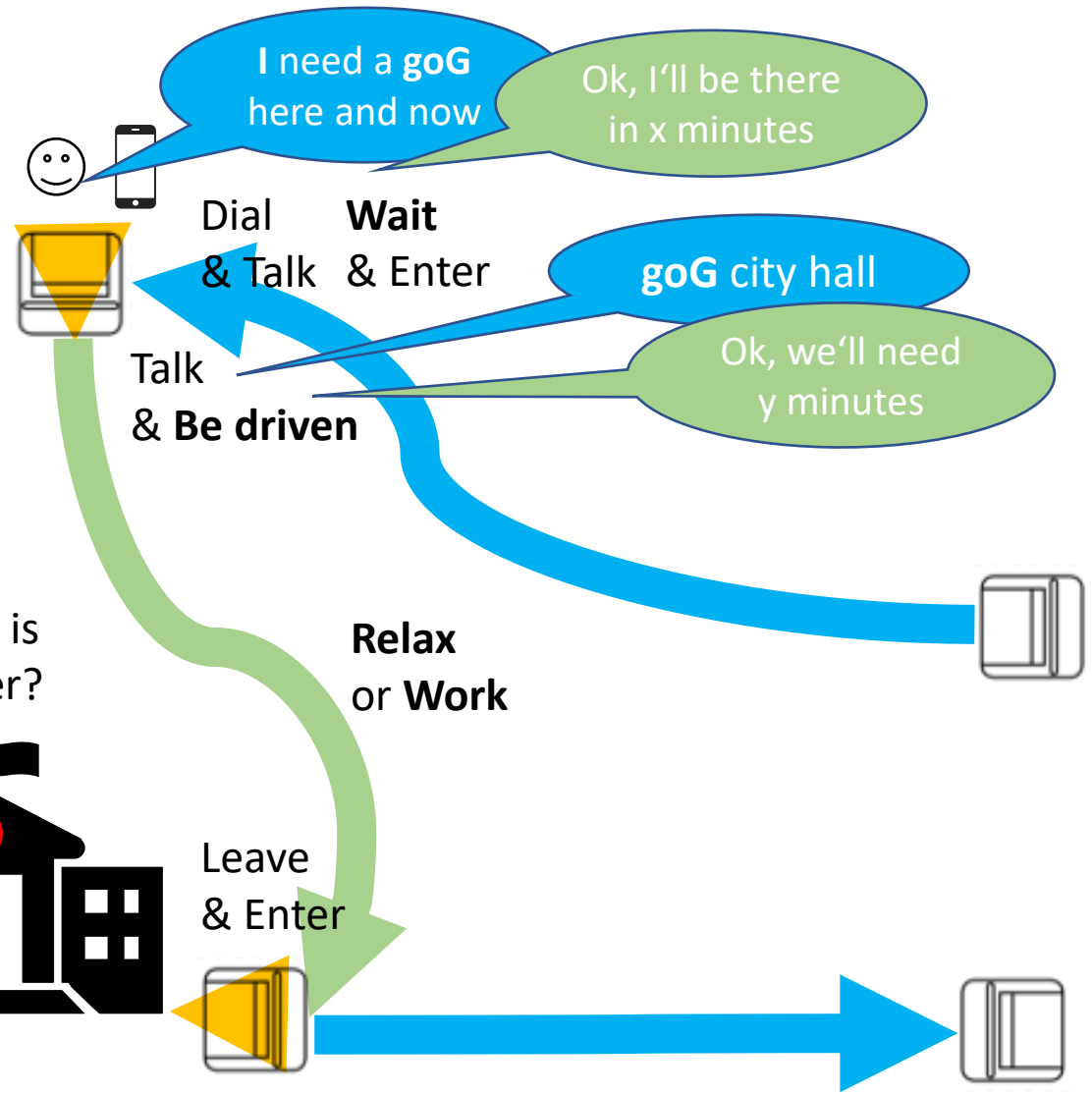
With or without passengers

With or without goods

Car Sharing

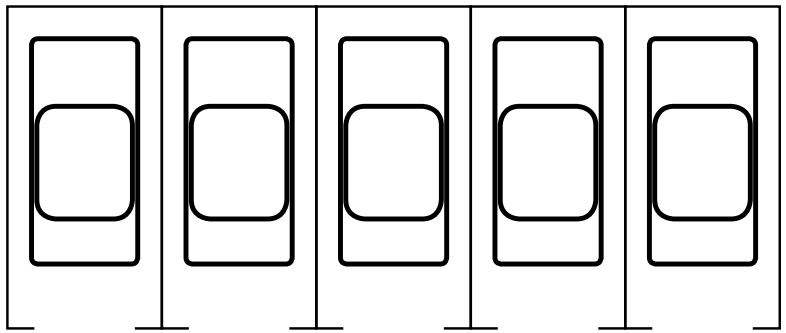


goG Sharing



Car Parking

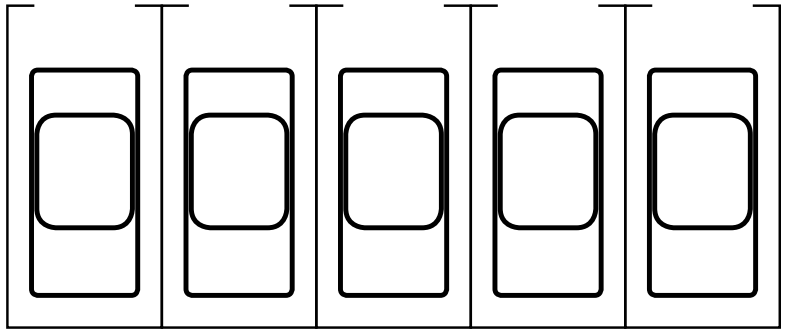
goG Parking



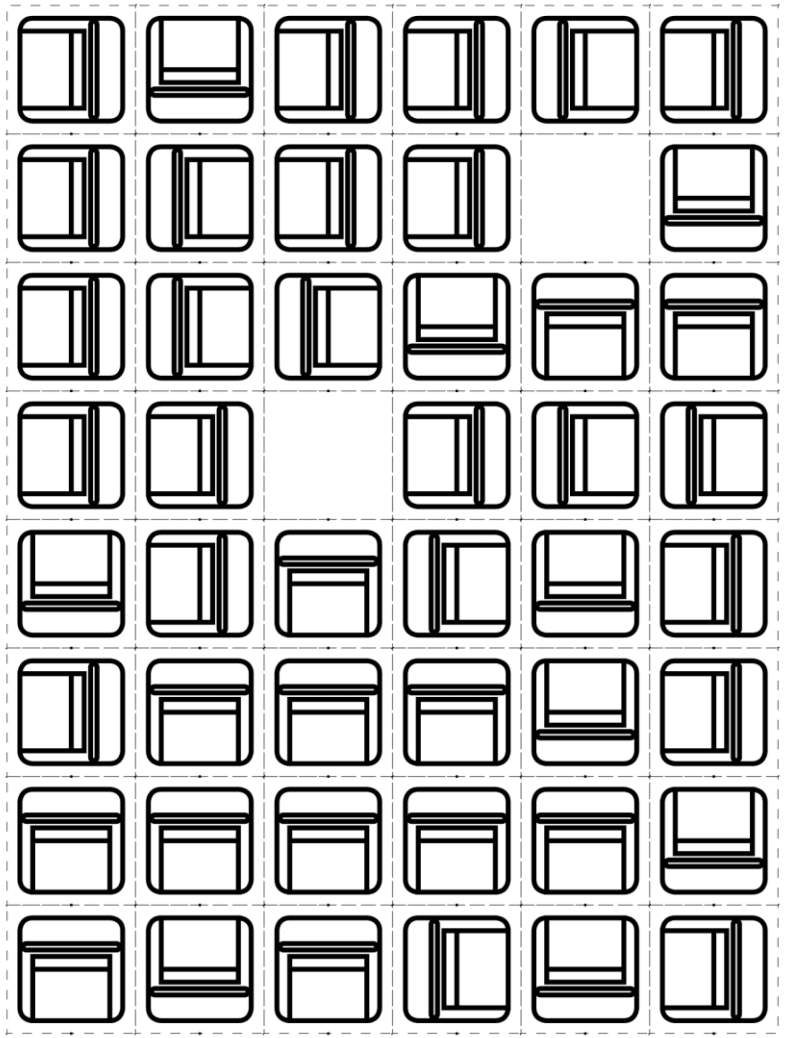
192 m²

10 cars

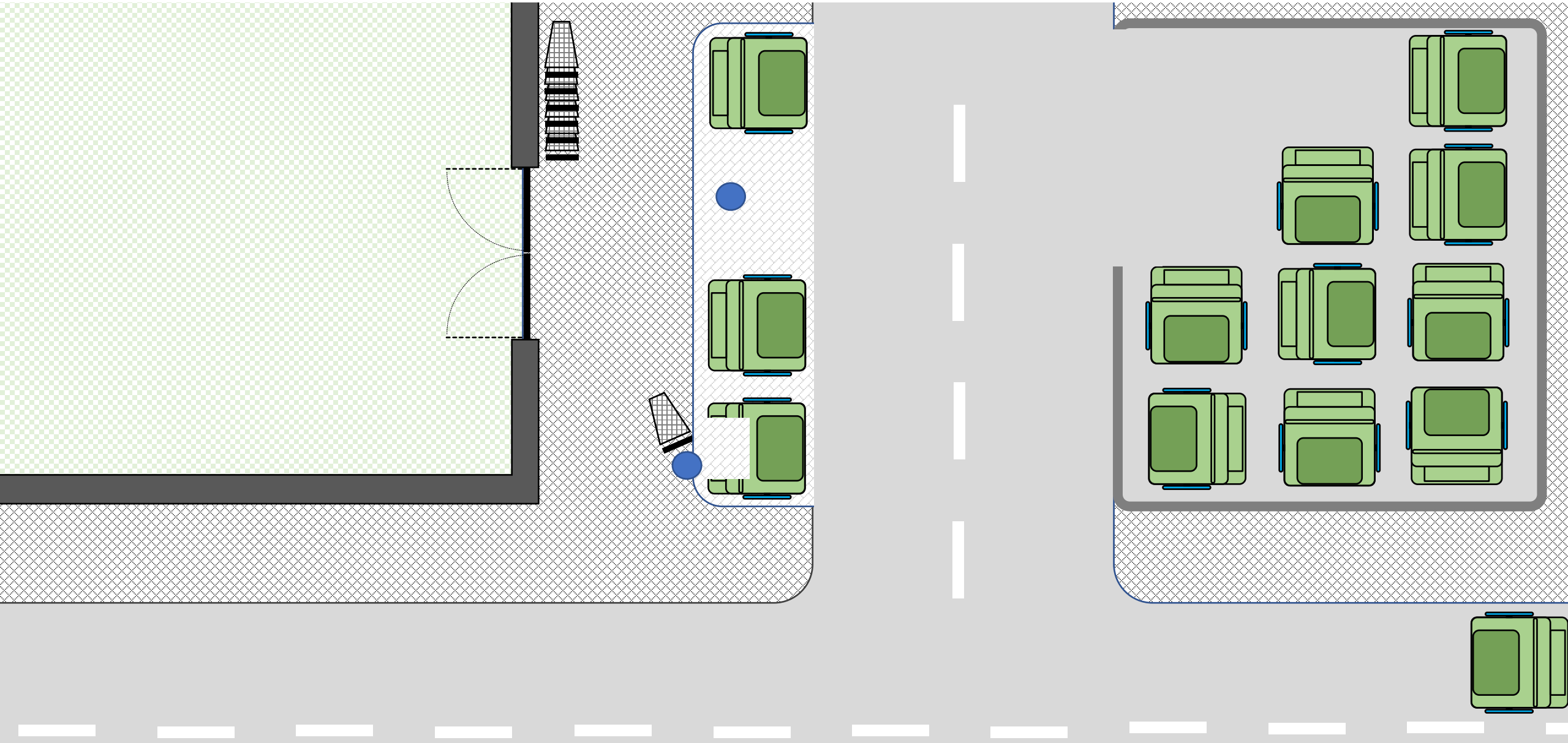
48 goGs



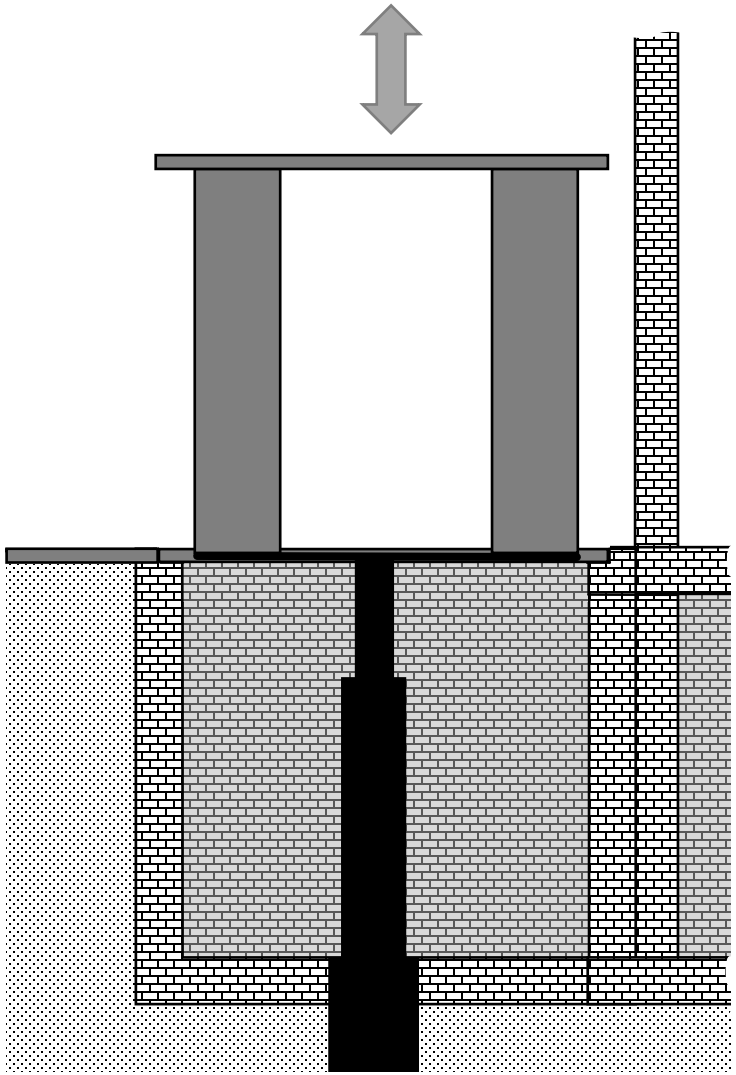
1 : 4.8

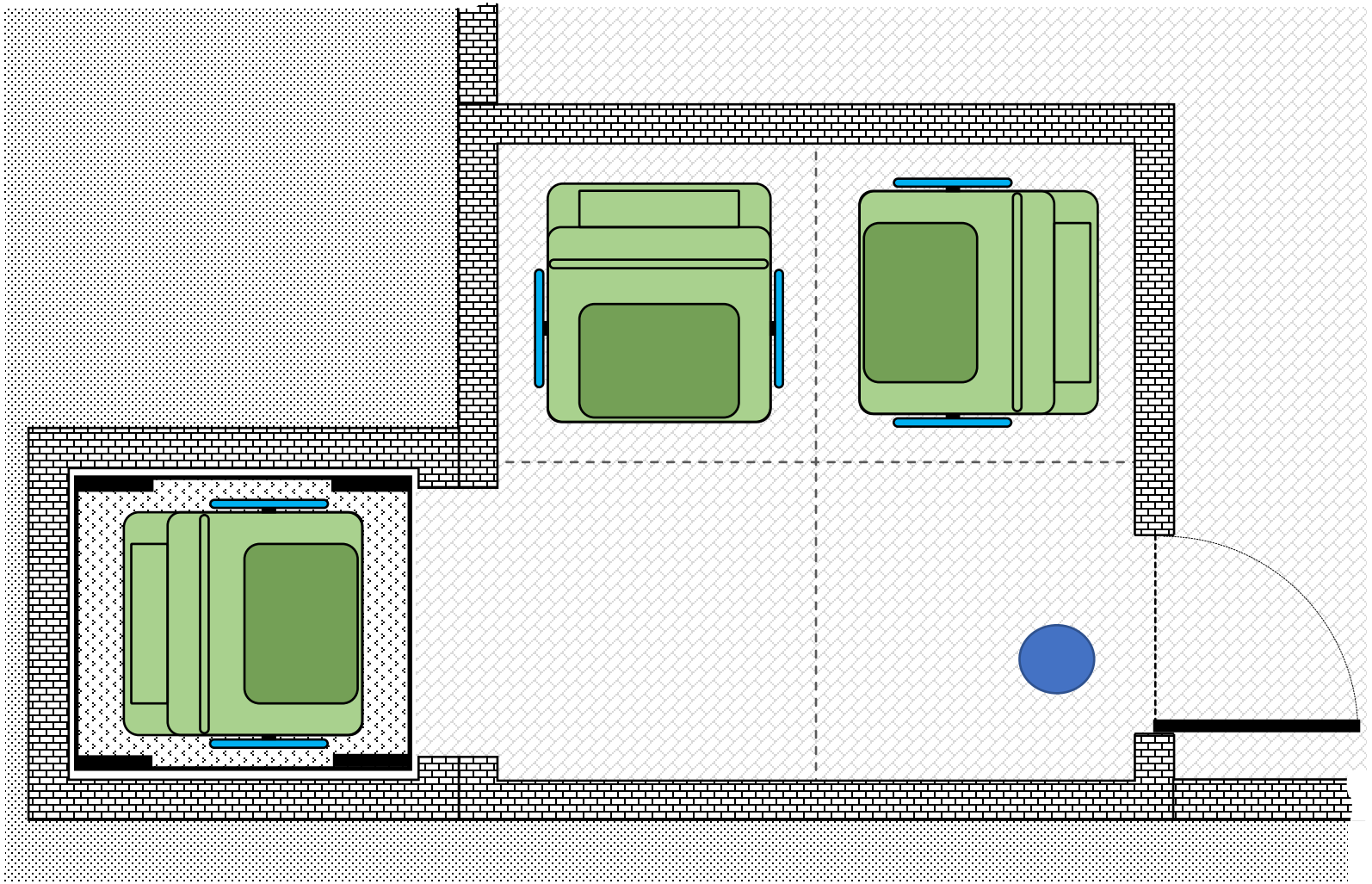


Supermarket Parking



Cellar Parking



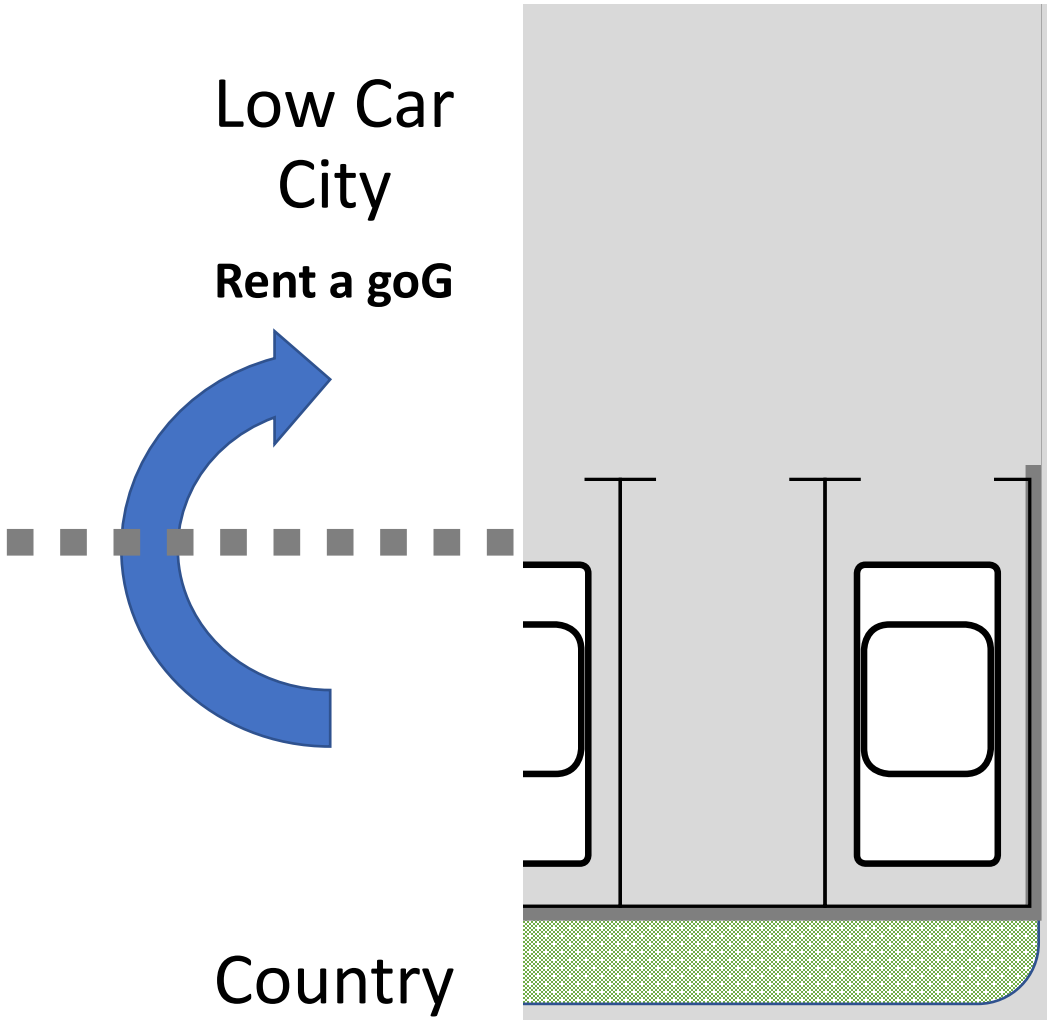


goG Park & Ride

Low Car City

Rent a goG

Country

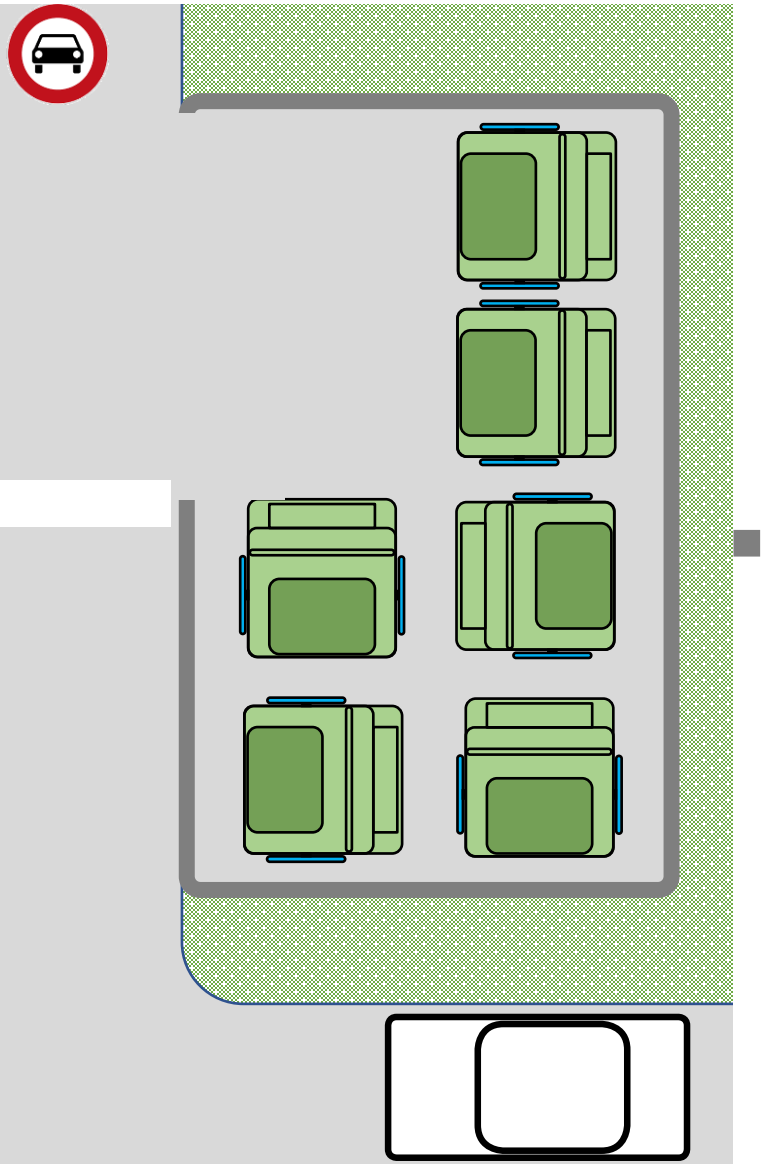


goG Ride & Drive

Low Car City

Rent a car

Country



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- Quietly
- Comfortable
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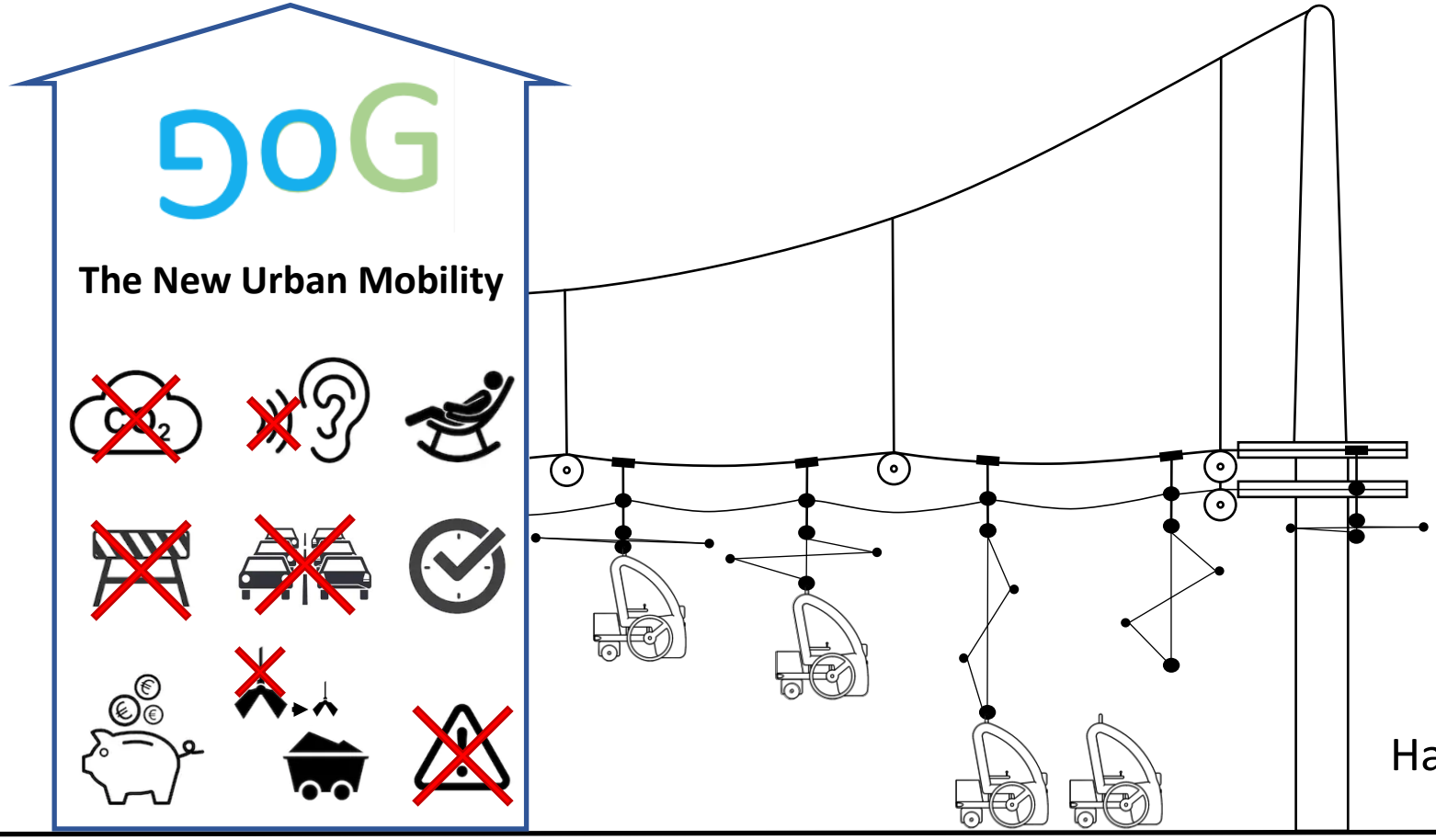
Become Part Of The goG Movement



Thank you!

www.goG.earth

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