

DENSO HACKATHON

RelAI

RELIABLE AI RELAY SYSTEM FOR EV CHARGING

Problem.

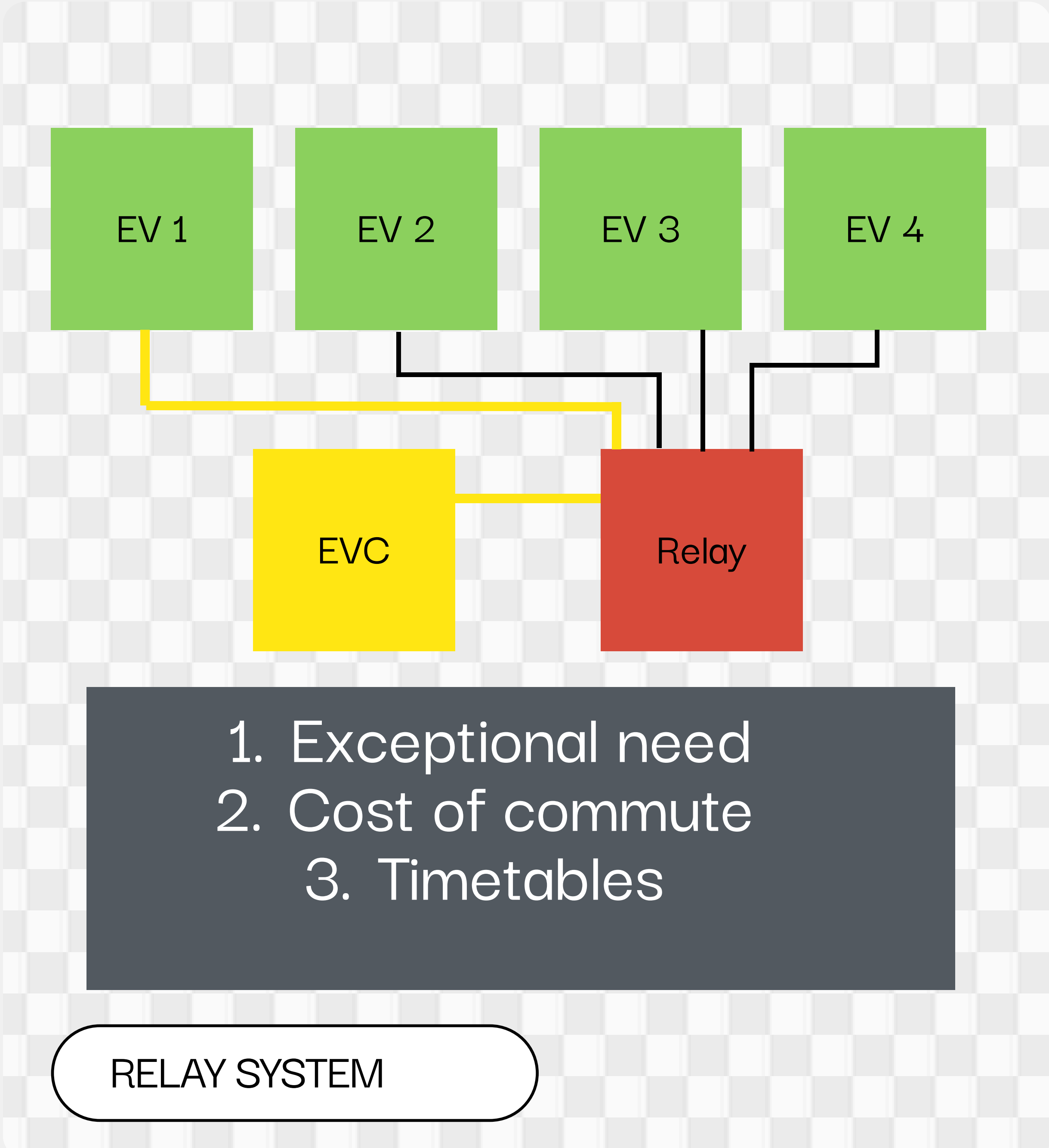
Inconvenient charging

Lack of charging stations

Occupied charging stations

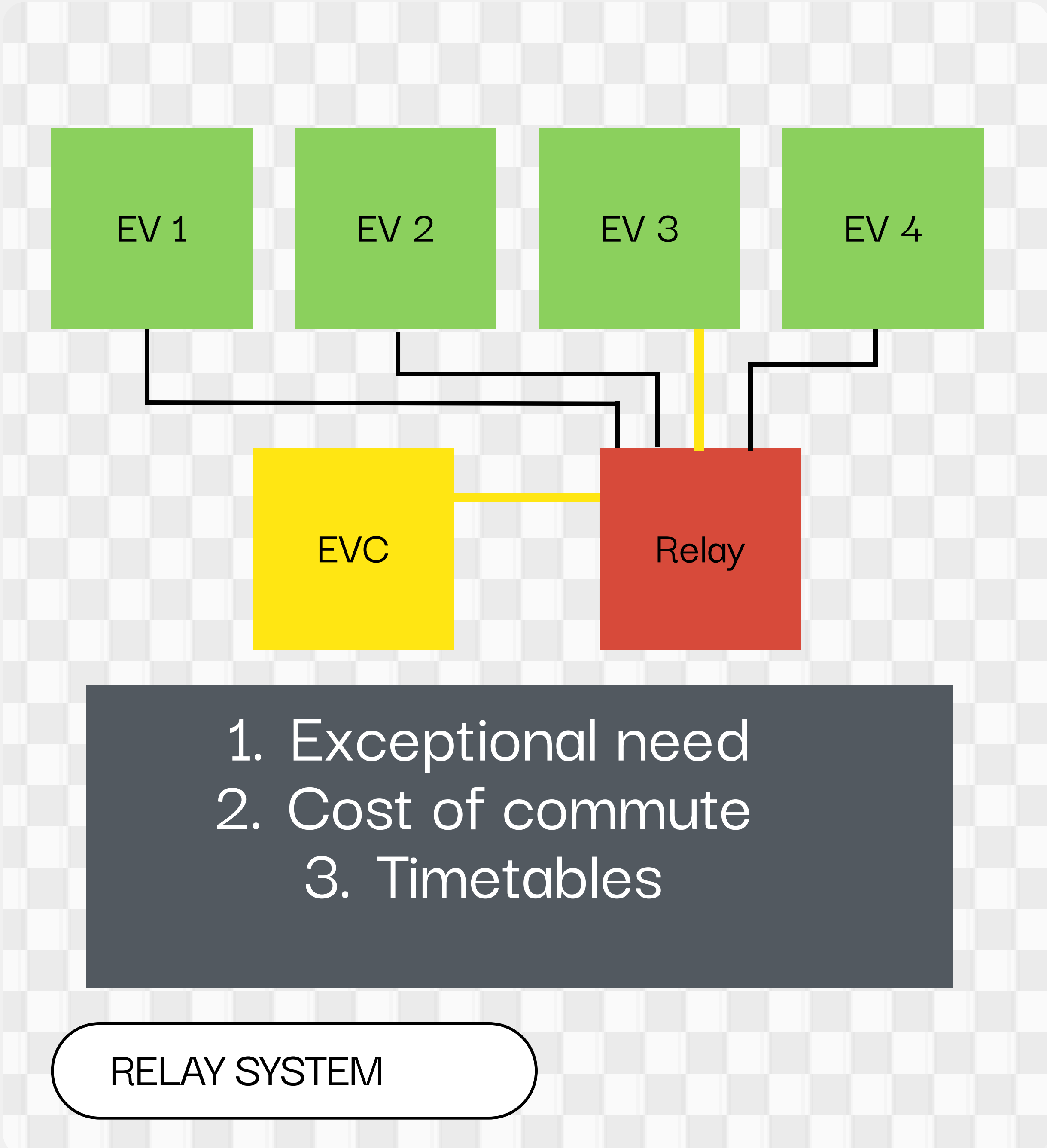
RelAI

AI-powered automatic relay systems to efficiently divide charge among EVs based on employees' information.



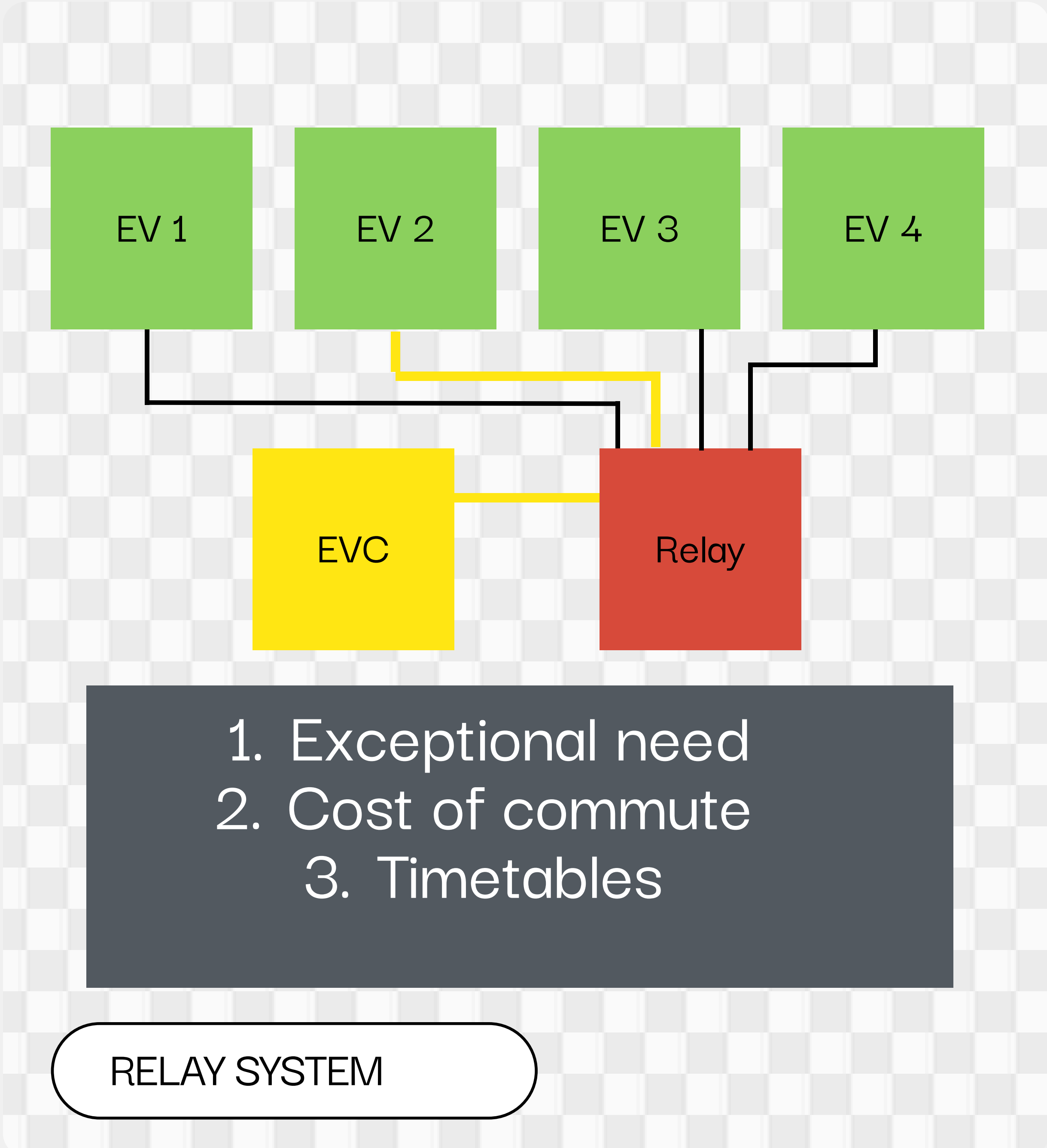
RelAI

AI-powered automatic relay systems to efficiently divide charge among EVs based on employees' information.



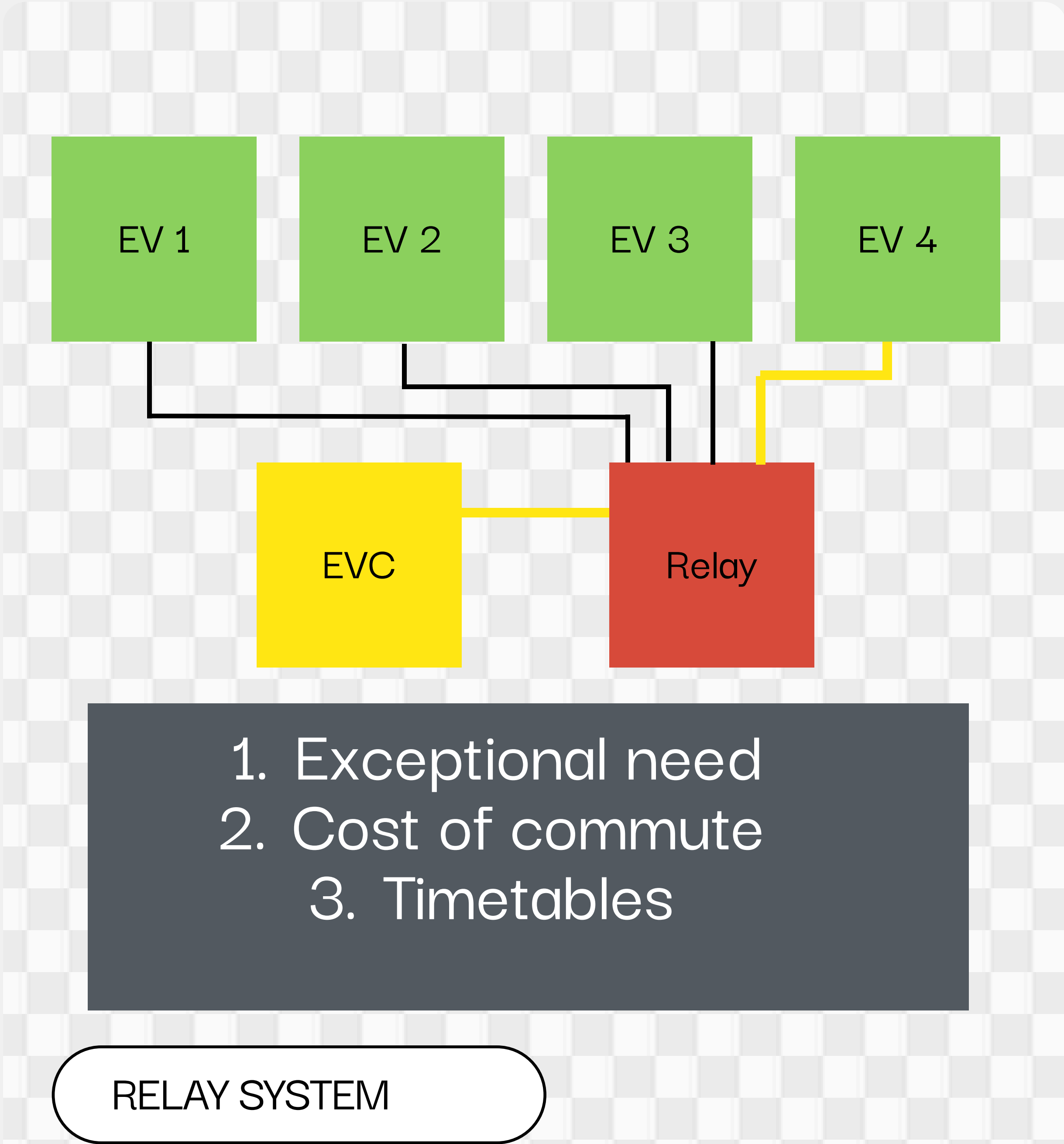
RelAI

AI-powered automatic relay systems to efficiently divide charge among EVs based on employees' information.



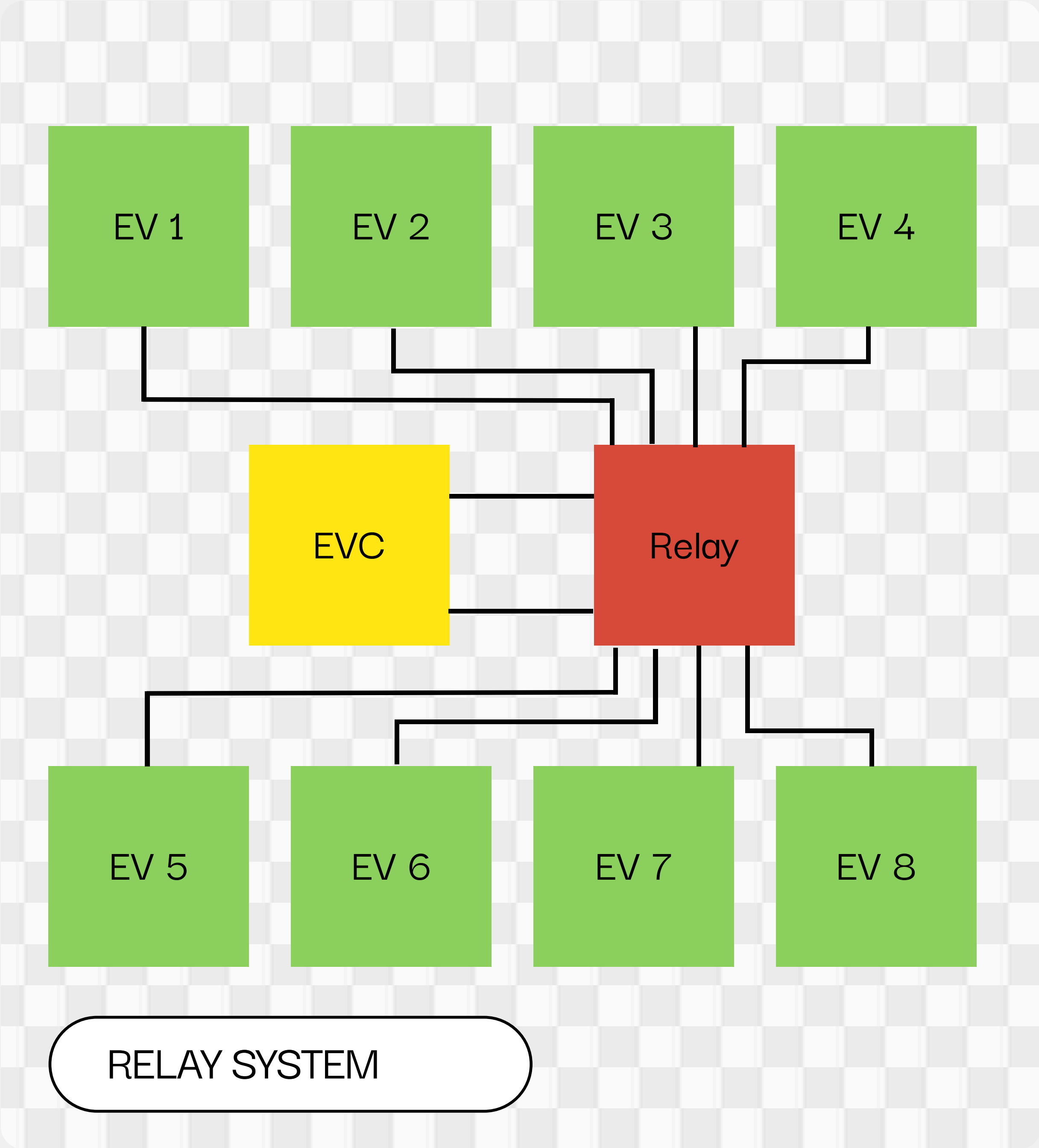
RelAI

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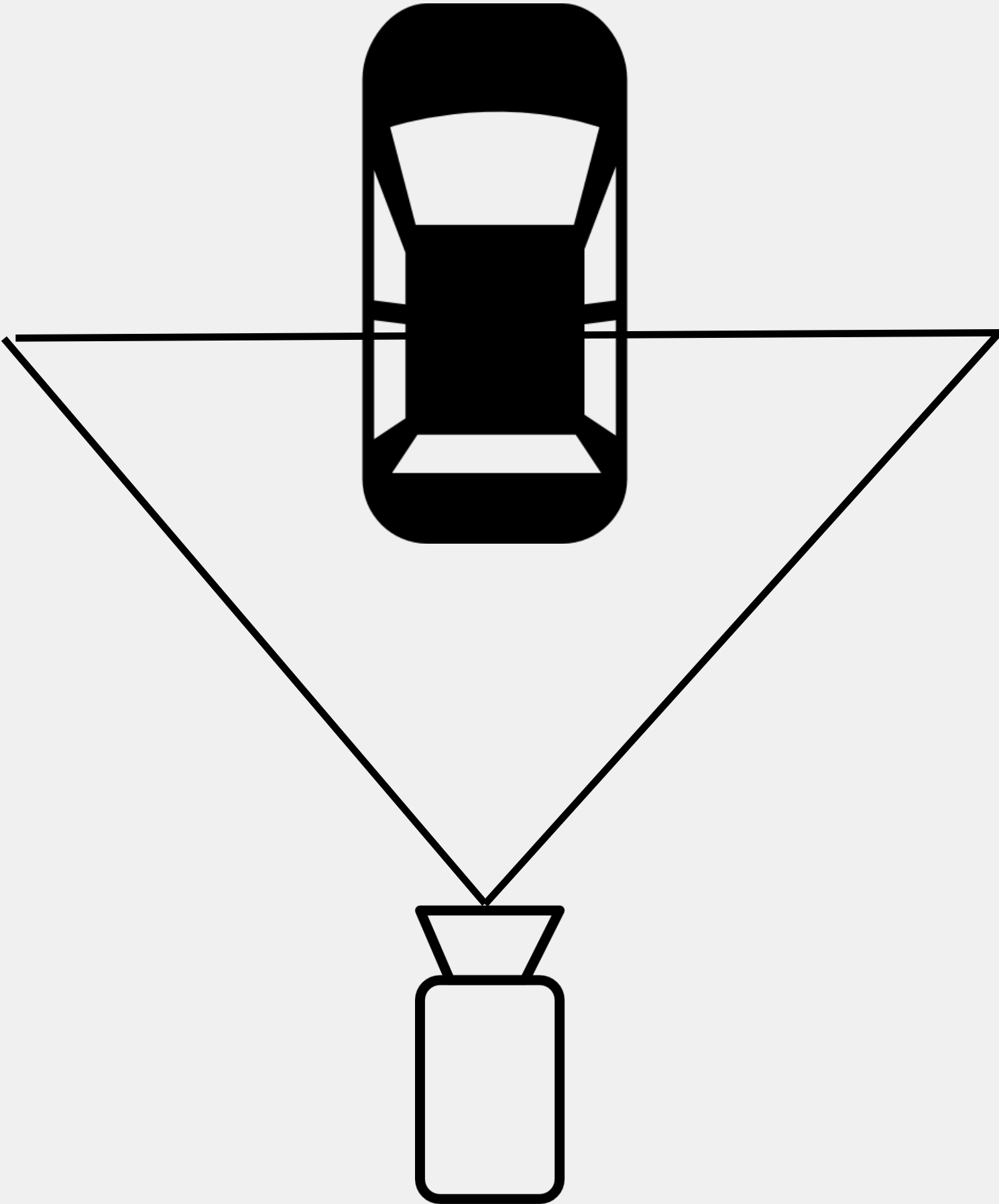


RelAI

AI-powered automatic relay systems to efficiently divide charge among EVs based on employees' information.



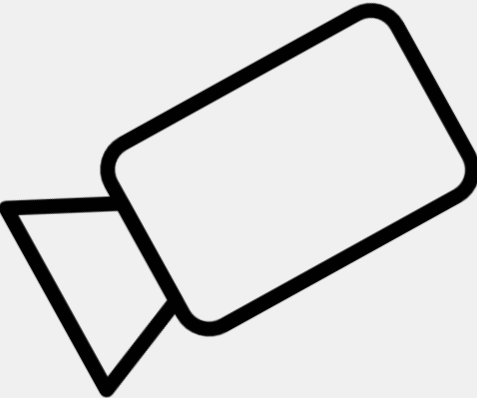
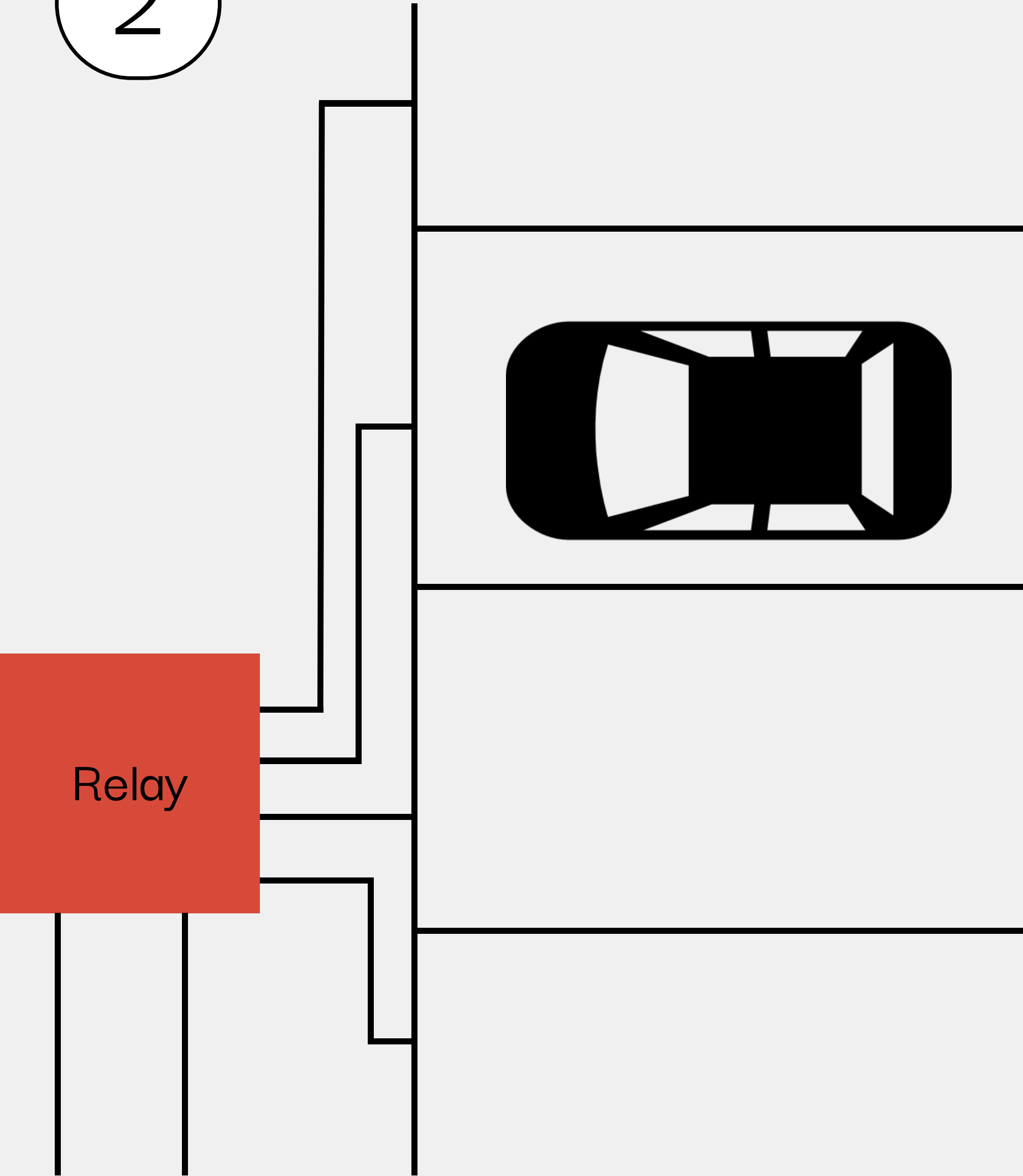
1



Camera reads license plate

HOW IT WORKS

2



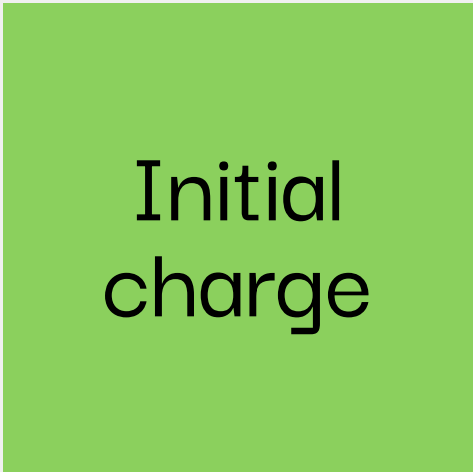
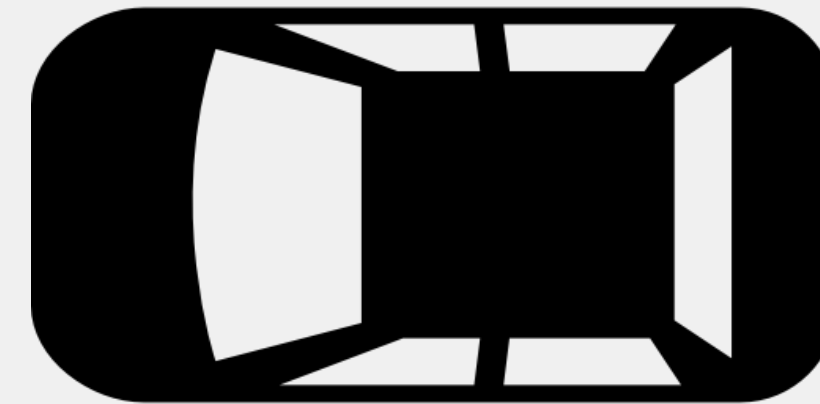
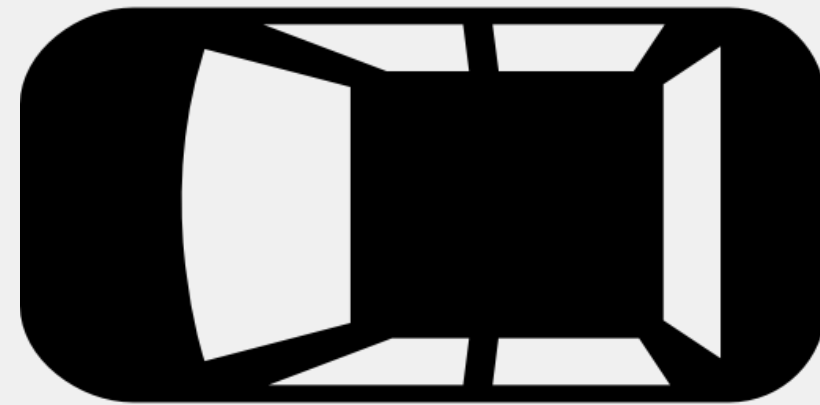
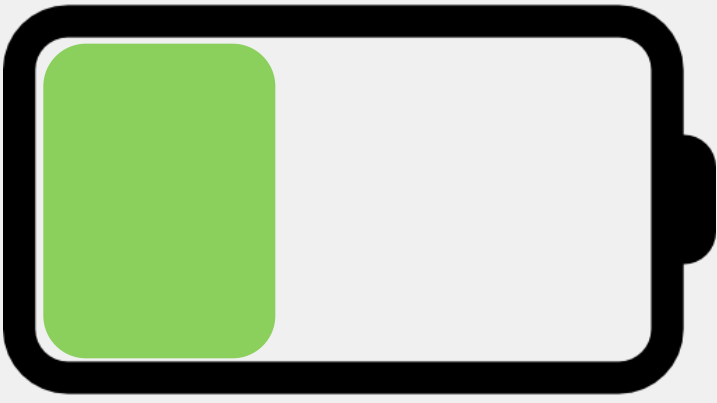
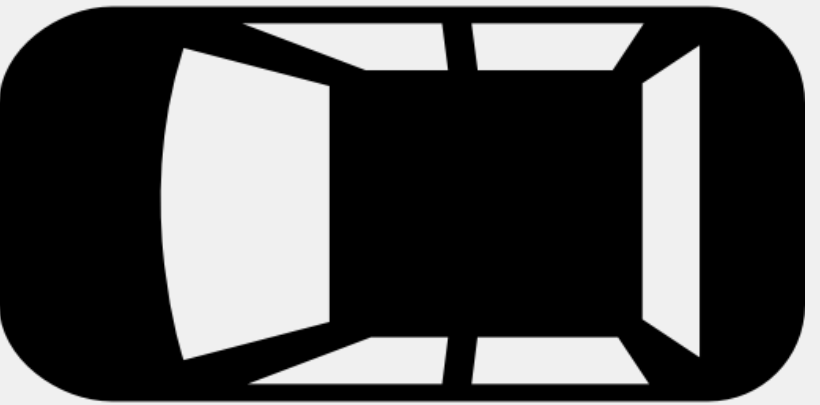
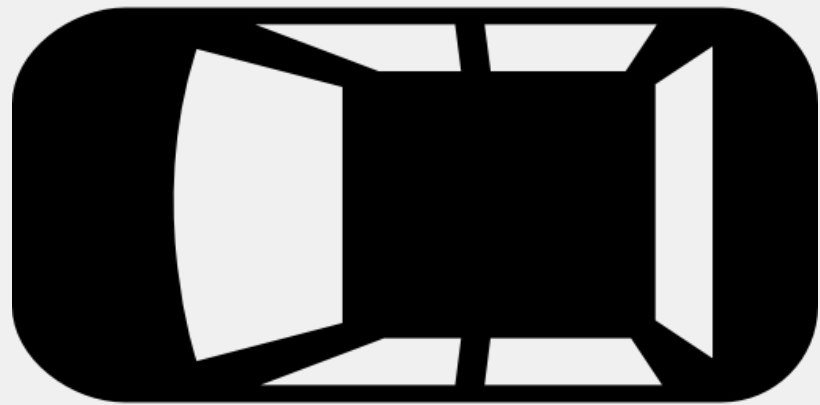
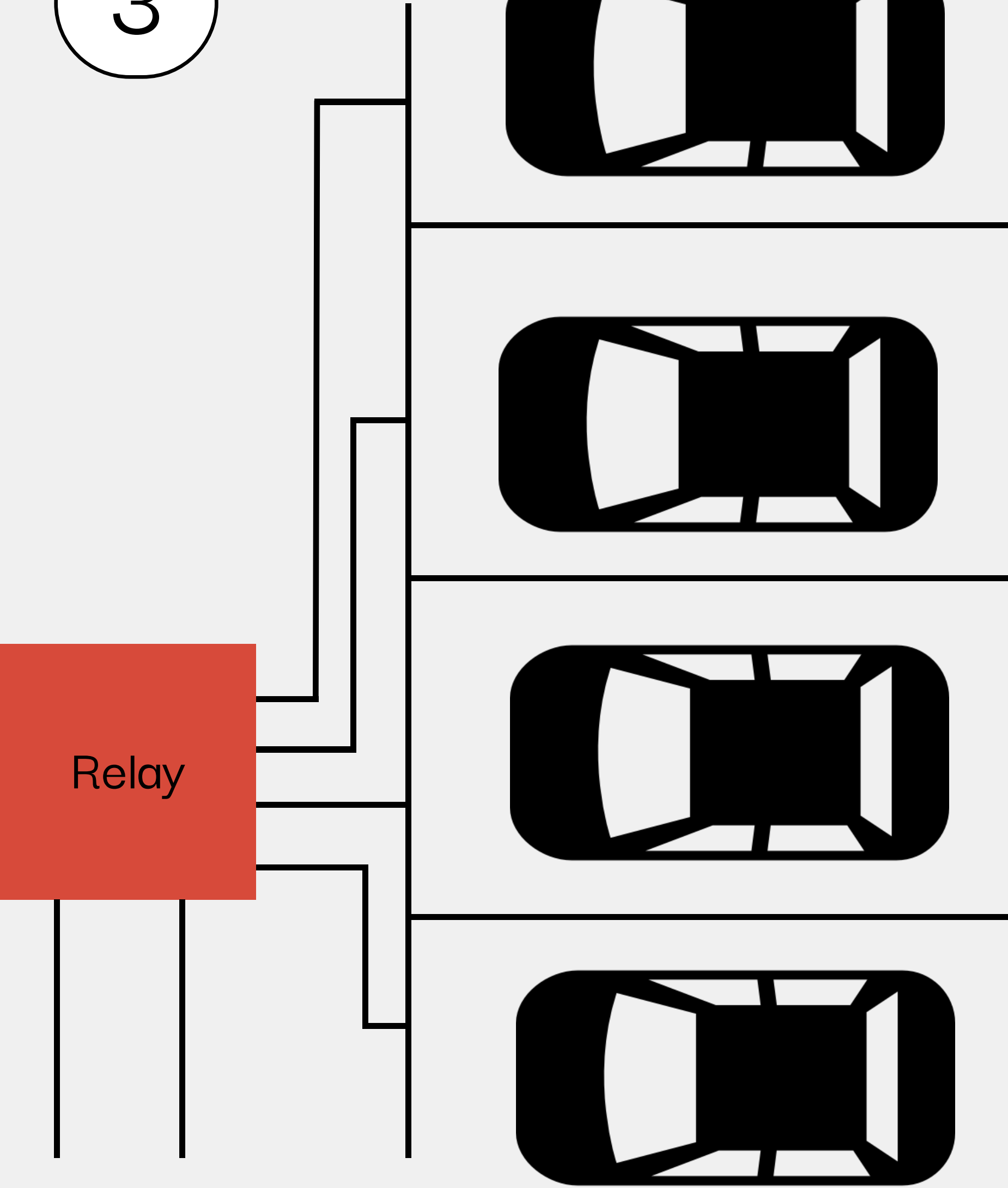
Camera tracks car location

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HOW IT WORKS

3



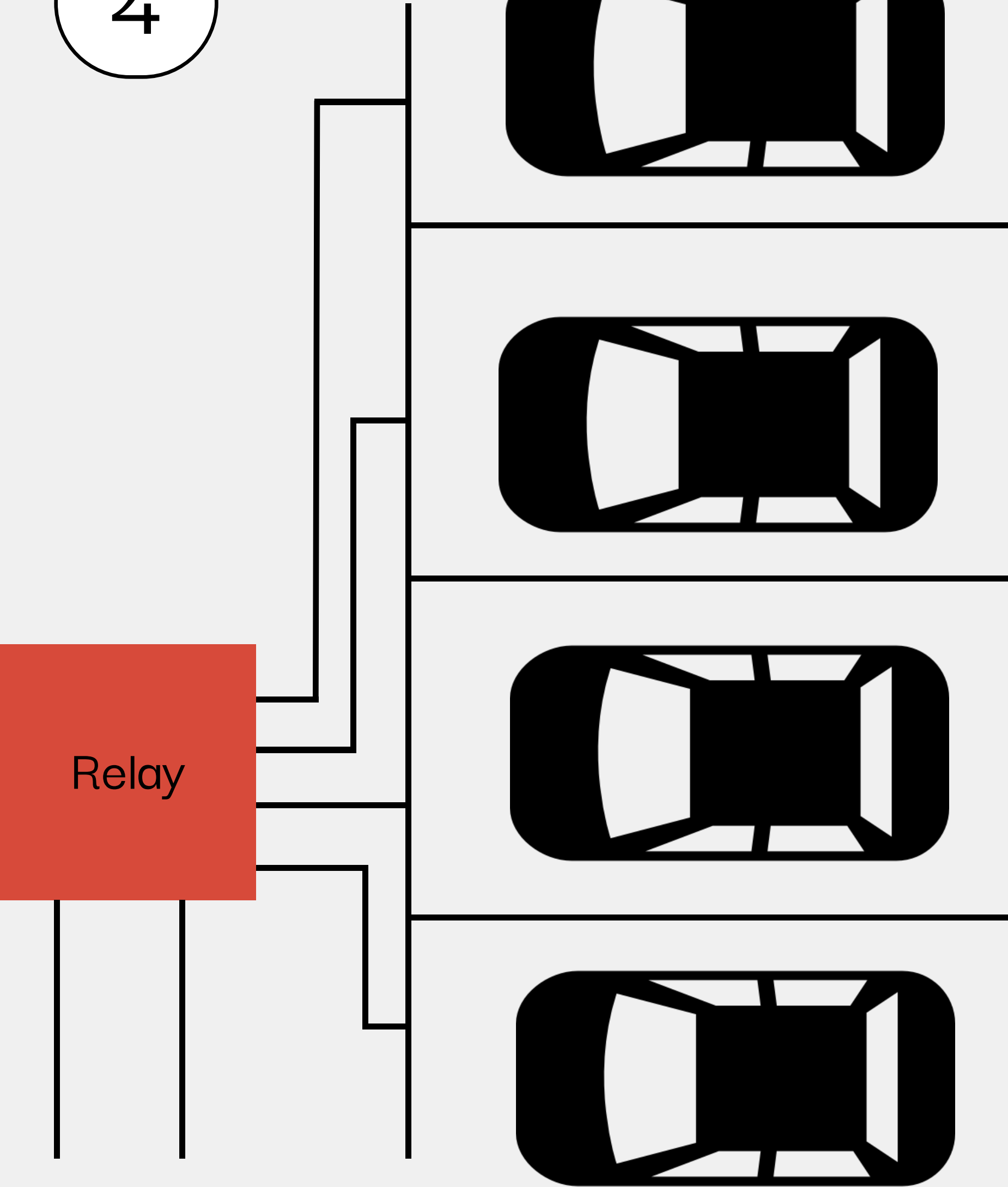
AI algorithm divides charge

RELA

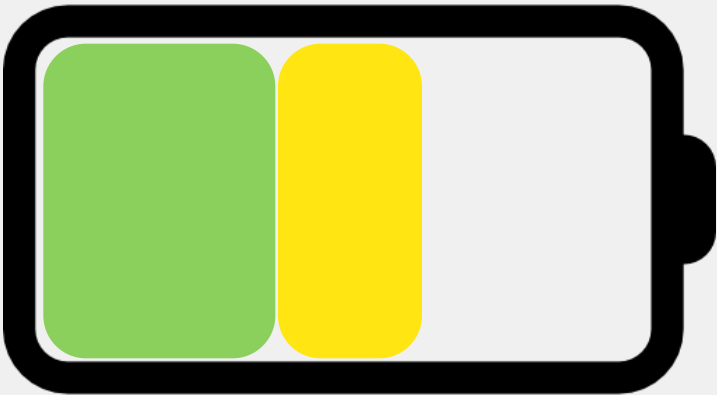
CONFIDENTIAL

HOW IT WORKS

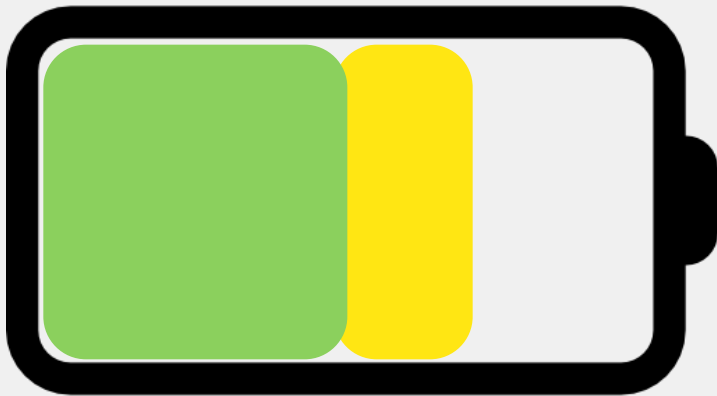
4



Initial charge



Cost of commute



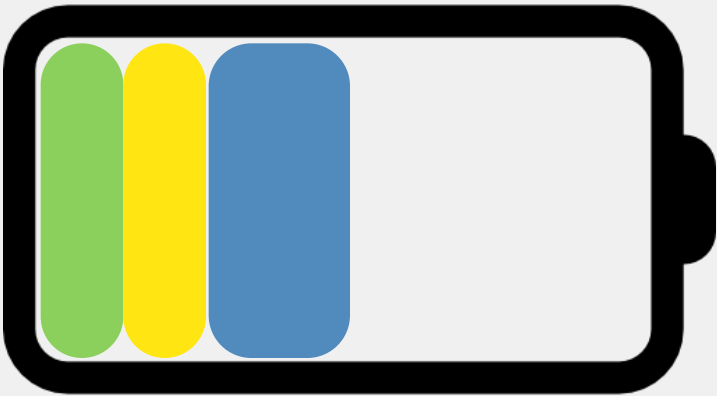
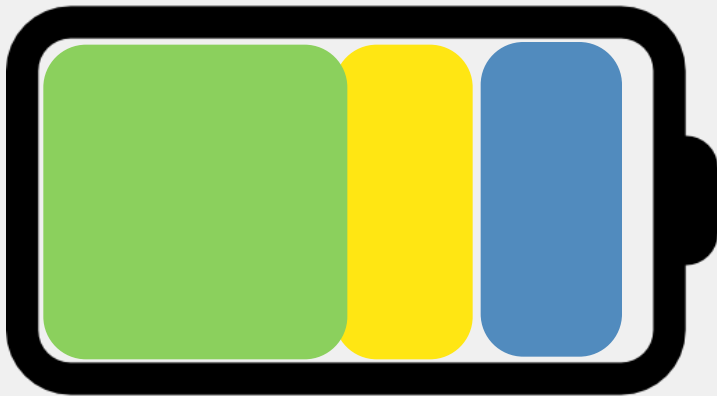
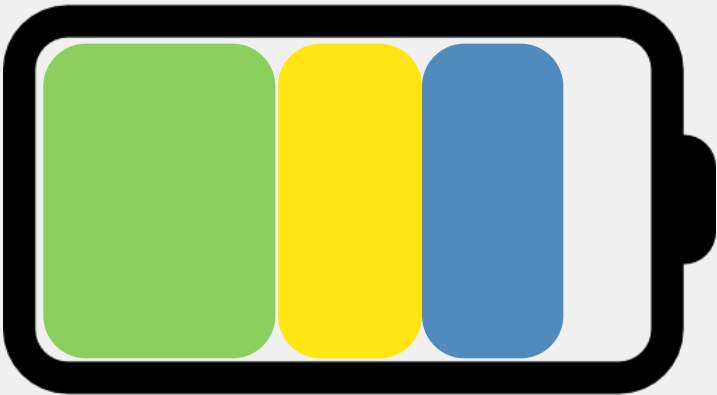
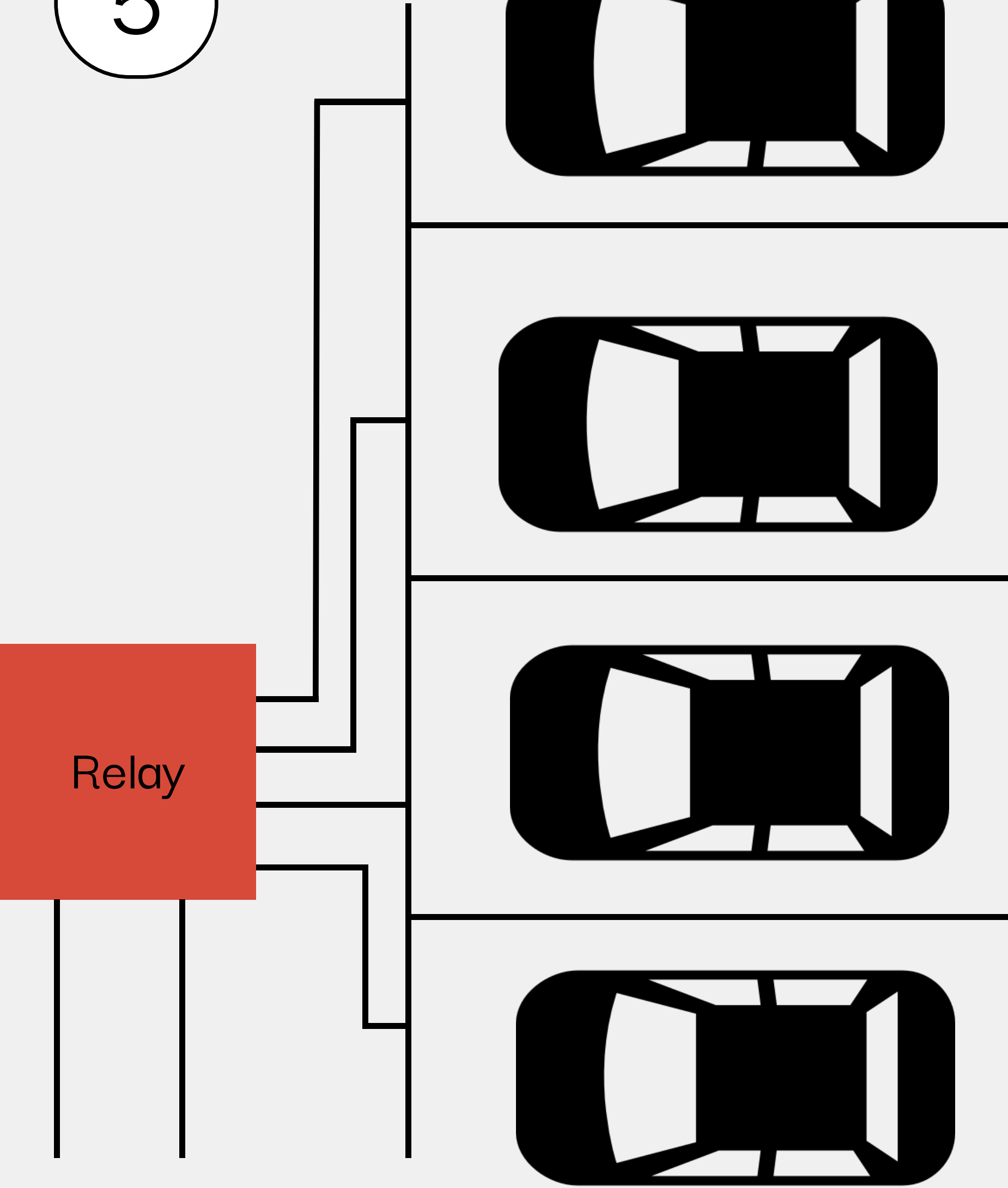
All cars are compensated for the cost of their commute

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HOW IT WORKS

5



Initial charge

Cost of commute

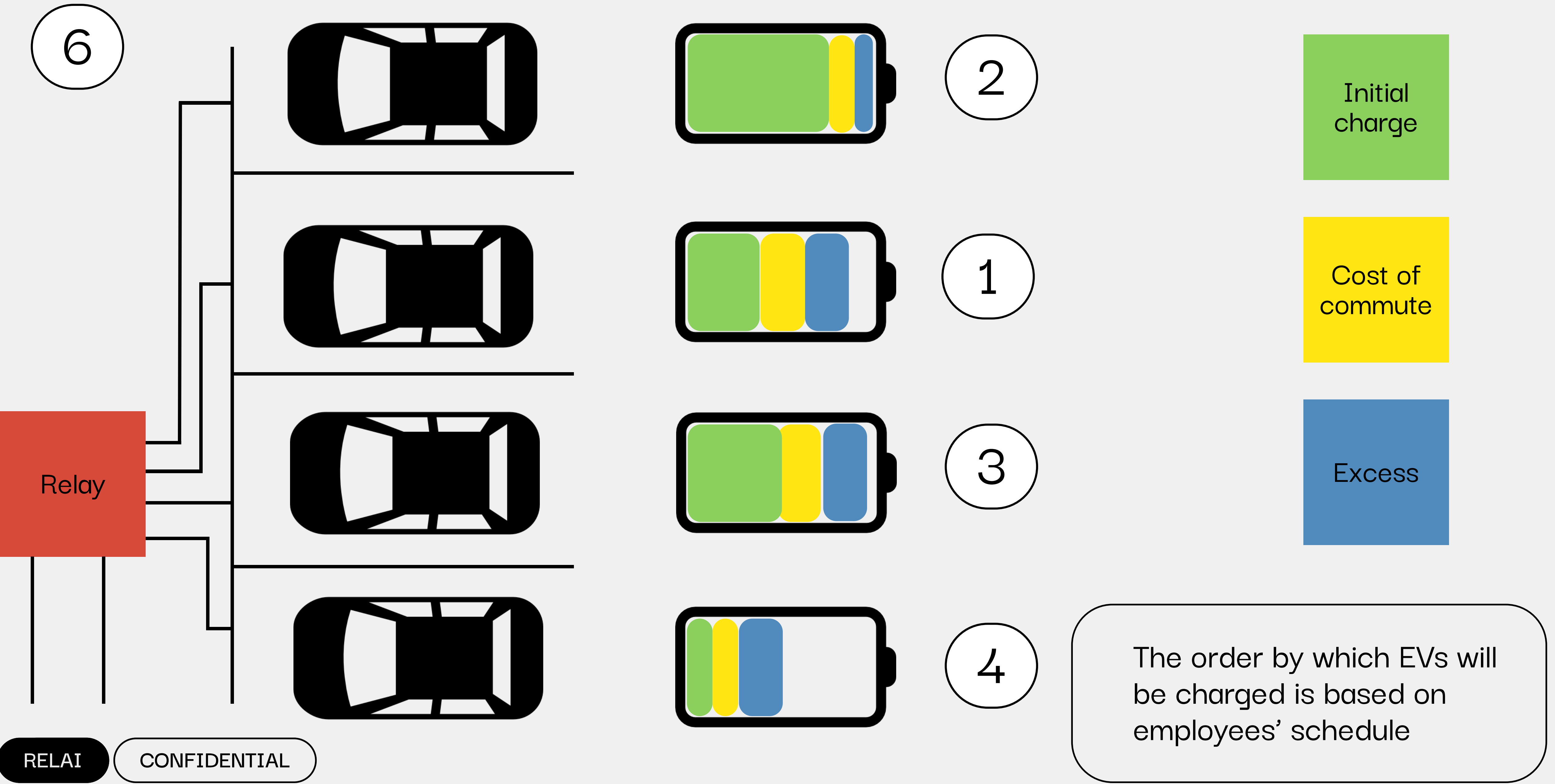
Excess

The rest of the charge is divided equally

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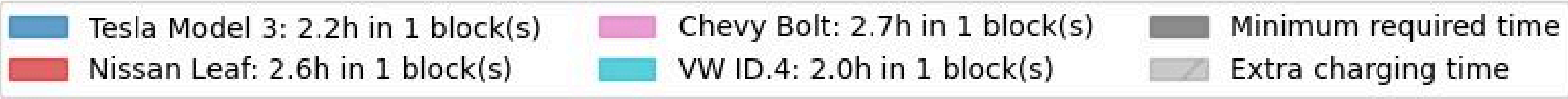
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HOW IT WORKS

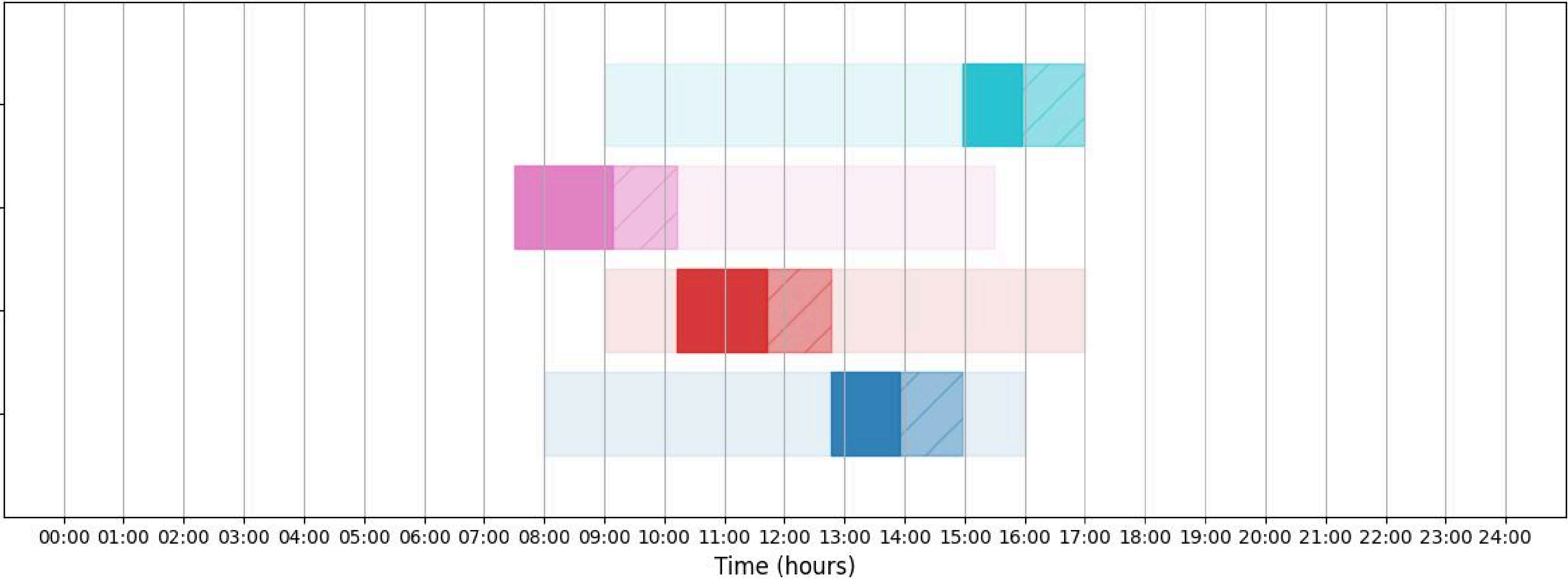


Scheduling algorithm

Schedule charge based on employees' commute time, schedules, exception arrangements.



EV Charging Schedule (One Car at a Time)



Initial cost: 1000 €

Monthly subscription:
200-300 €



Thank you

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