

The Road Ahead: Why Self-Driving Vehicles Need Self- Charging Solutions

Daan Nap – Director of European Markets

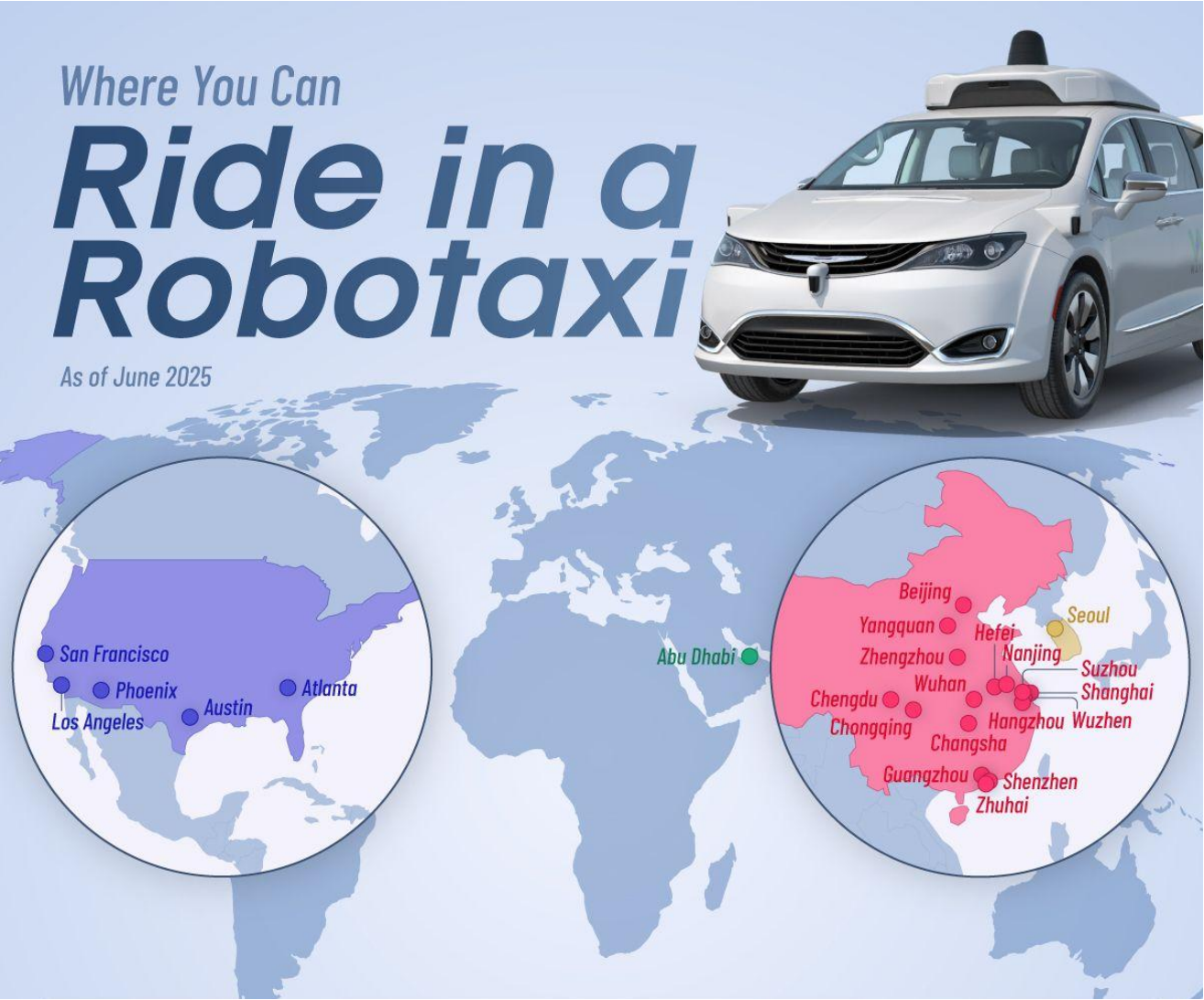
September 4th 2025



The question to the audience

1. 2010-2014: have you driven an Electric Vehicle (EV)?
2. 2025-? : have you driven in an Autonomous Vehicle (AV)?
3. 2025-? : have you driven in an Electric Autonomous Vehicle (EAV)?

Robotaxi global deployments



WAYMO	TESLA	apollo	autotaxi	DEEPRUTE.AI	pony.ai	SAIC	QCRAFT	WeRide	DiDi	SWIA
Phoenix San Francisco Los Angeles Austin Atlanta	Austin	Beijing Shanghai Guangzhou Shenzhen Chongqing Changsha Wuhan Hefei Yangquan Wuzhen Chengdu	Shanghai Shenzhen Hangzhou Guangzhou	Shenzhen Wuhan Hangzhou	Guangzhou Shanghai Beijing Shenzhen	Shanghai Suzhou Shenzhen	Suzhou	Beijing Nanjing Guangzhou Suzhou Zhengzhou Zhuhai* Abu Dhabi	Shanghai Guangzhou	Seoul

EXCLUDES: robobus and rotating, small-scale trials. *Plus 9 smaller Chinese cities
Source: Statista research

VISUAL CAPITALIST

Robotaxis in Europe are catching up

PONY AI Receives Luxembourg's Robotaxi Testing Permit

April 3, 2025



Pony AI has received a permit from Luxembourg's Ministry of Mobility and Public Works to begin Level 4 (L4) Robotaxi testing. Mentions it an ideal environment for it's European operations.

<https://ir.pony.ai/news-releases/news-release-details/pony-ai-inc-receives-luxembourgs-autonomous-vehicle-robotaxi>

Wayve and Uber Partner to Launch L4 Autonomy Trials in the UK

10 June 2025



Wayve and Uber announce a first-ever plan to develop and launch public-road trials of fully autonomous vehicles in the UK.

Source: <https://wayve.ai/press/wayve-uber-l4-autonomy-trials/>

MOIA to deploy robotaxis in Europe and U.S. next year

July 9, 2025



Source: <https://www.globalfleet.com/en/smart-mobility/global/features/moia-deploy-robotaxis-europe-and-us-next-year?a=FJA05&t%5B0%5D=Volkswagen%20Group&t%5B1%5D=Autonomous%20driving&t%5B2%5D=Tesla&curl=1>

Lyft Partners with Baidu to Deploy Autonomous Rides Across Europe

Aug 4, 2025




Germany and UK in 2026, with the fleet scaling to thousands of vehicles across Europe in the following years.

Source: <https://www.lyft.com/blog/posts/lyft-partners-with-baidu-to-deploy-autonomous-rides-across-europe>

Lessons learned

When technology and permitting issues are resolved, rapid scaling becomes possible

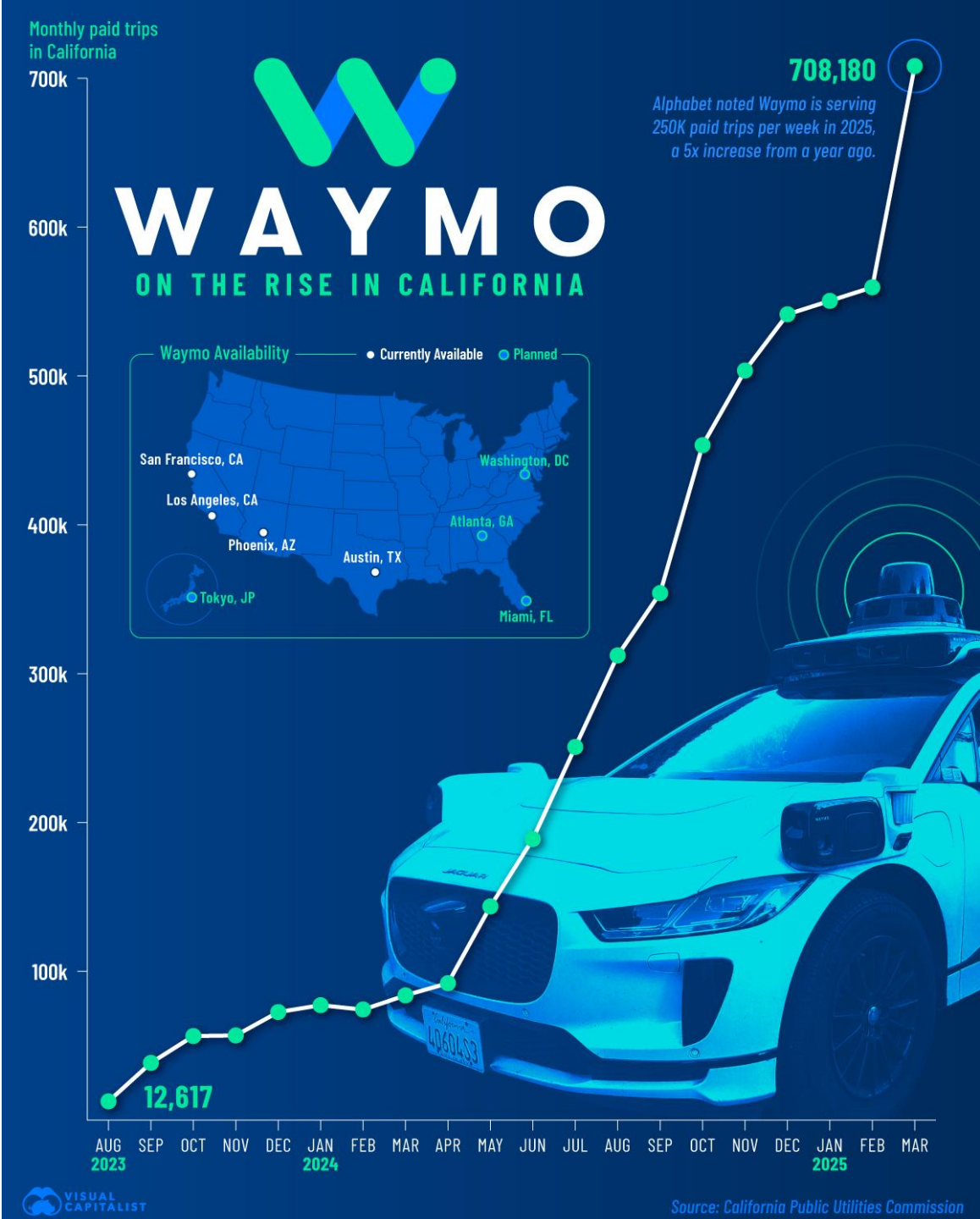


Waymo

@Waymo

We're now providing more than 250,000 fully autonomous paid rides each and every week. The robotaxi future is here, and it's powered by our generalizable Waymo Driver 🚗🤖

10:44 p.m. · 24 apr. 2025 · **397,6K** Weergaven



Vehicles are becoming driverless, but charging is built for humans

Self-Driving Vehicles Need Self-Charging Solutions

Today

Gap

Tomorrow

charging
=
human operated

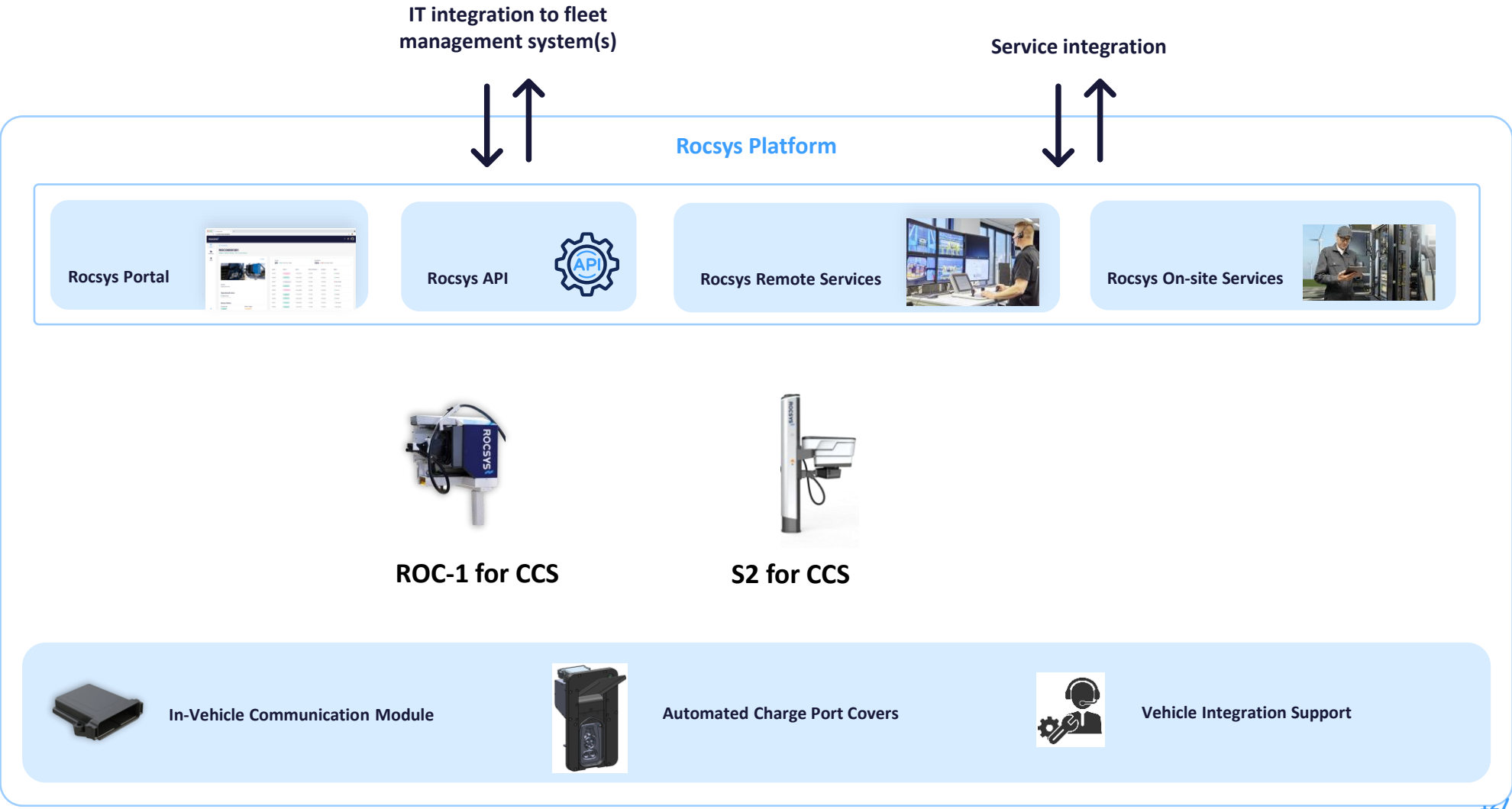




Rocsys enables end-to-end hands-free charging

Our platform creates an effortless charging experience

- Services & software
- Automated connection devices
- EV integration



About Rocsys

Hands-Free Charging of Electric Automated Vehicles



Ports

Logistics

Robotaxi's



Headquarters:	Rijswijk, The Netherlands
USA office:	Portland, OR, USA
Head count:	~60
Founded:	2019

APM Terminals Maasvlakte II

Hands-free charging for 30 automated terminal tractors

Project scope

- 30 electric Automated Terminal Tractors (ATTs)
- Mixed traffic
- 24/7 operations
- **APM MVII:**
one of the most advanced automated container terminals
- **Embotech:**
Level 4 autonomous driving
- **Terberg:**
Electric Terminal Tractors with Drive-By-Wire (DBW)
- **Rocsys Platform:**
Powering the full solution by:
 - Serving 6 charging bays



Logistics & transportation

Daimler Class 8 electric truck



Project scope

- Public demonstration at with Freightliner eCascadia Class 8 truck and Portland General Electric
- Heavy-duty electric truck charging site to help accelerate the development, testing and deployment of zero emission commercial vehicles
- June 2022 in Portland OR, USA
- [Demo at Electric Island Video](#)

Automotive

ROCIN-ECO: Consortium driving the global standards for robotic charging



Goal: the development and demonstration of an interoperable, standardized, automated charging solution.

Timeline:
2021 – 2024

Standards:
IEC61851-27/28, ISO5474-5

Funding program:
BMDV, PTJ, NOW

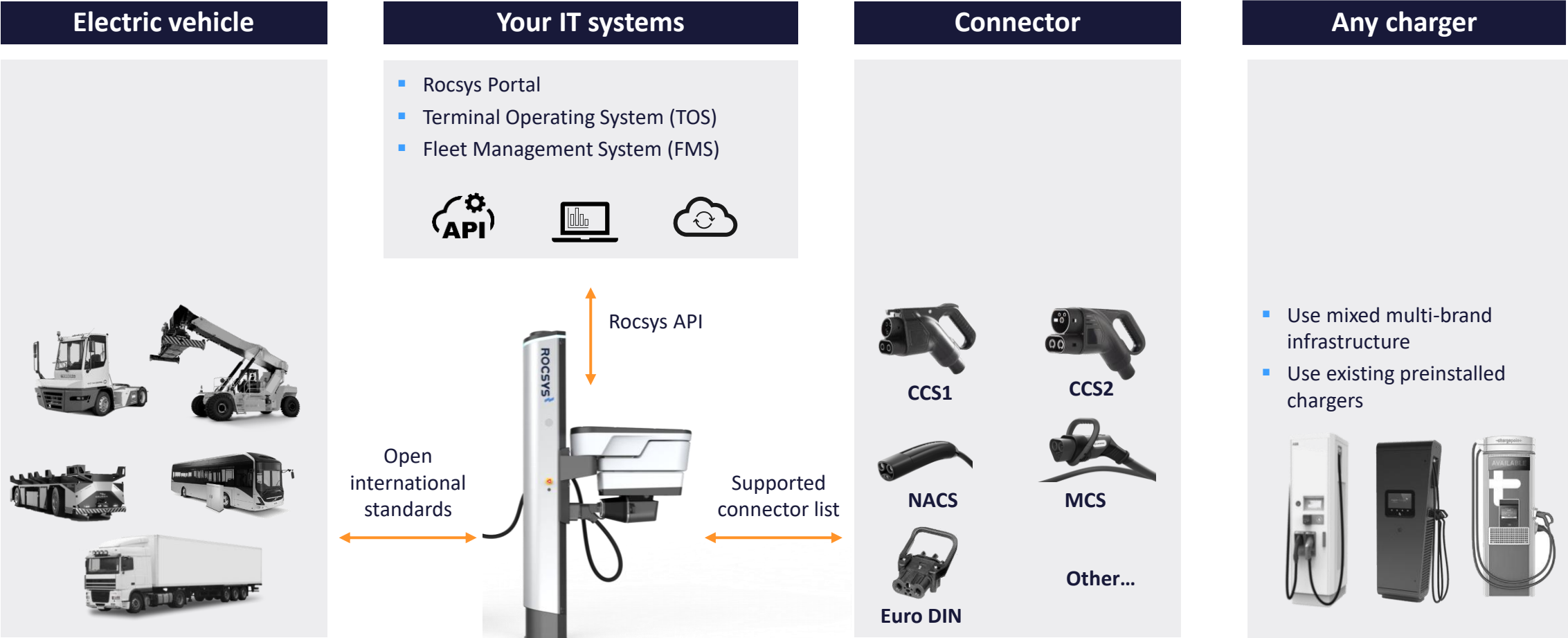


HUBER+SUHNER



Easy and seamless integration with many environments

One-time alignment on vehicle, connector and API





Would You Like To Learn More?

Please Visit the Rocsys Booth (C3-205) or
connect with us directly 🖐️



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