

AUTOCRYPT Achievements

Awards and Recognitions



2019 Best Auto Cybersecurity Product/Service
2020 Automotive Tech Company of the Year Finalist
2021 Automotive Cybersecurity Product of the Year Finalist



2020 Automotive Cybersecurity Company of the Year
2021 Automotive Cybersecurity Company of the Year
2022 Ride Hailing Innovation of the Year



2020 Global Cyber Achievement Award



2021 Forbes Asia 100 to Watch



2022 Automotive Security (IoT) Gold Winner



2022 Automotive Cybersecurity Solution of the Year



2024 CLEPA Top Innovators

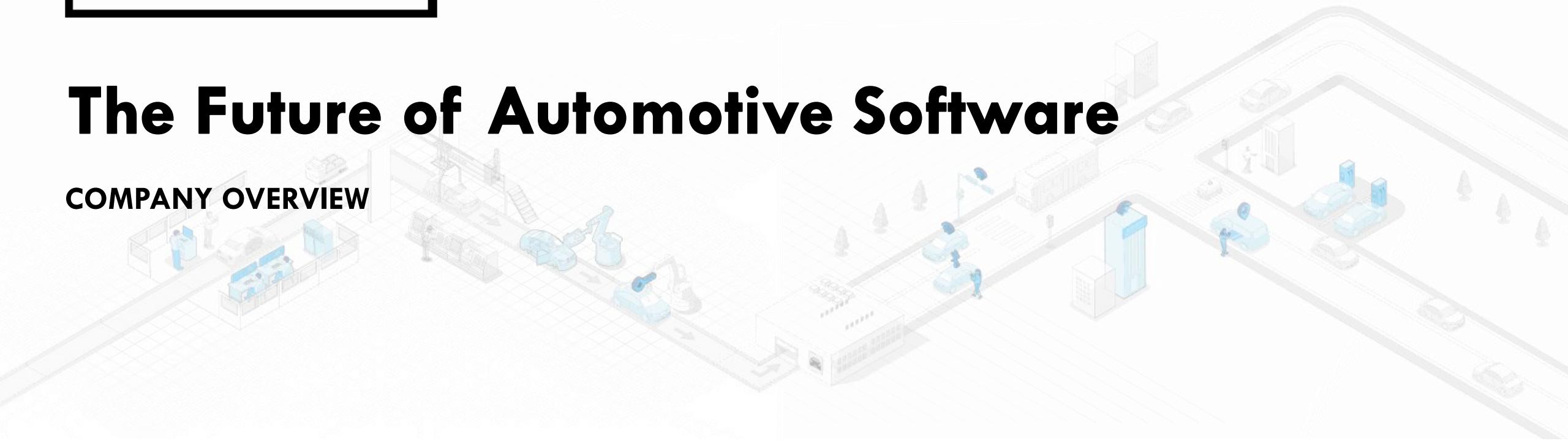


2022 Red Herring Top 100 Global

AUTOCRYPT

The Future of Automotive Software

COMPANY OVERVIEW



Best Auto Cybersecurity
Product/Service 2019

The Automotive Tech
Company of the Year Finalist 2020, 2021



2020 Global Cyber
Achievement Award



2020/2021
Automotive Cybersecurity
Company of the Year



Artificial Intelligence Industry Association
2020 Emerging AI+X Top 100 Company
Mobility Category



2021
100 to Watch

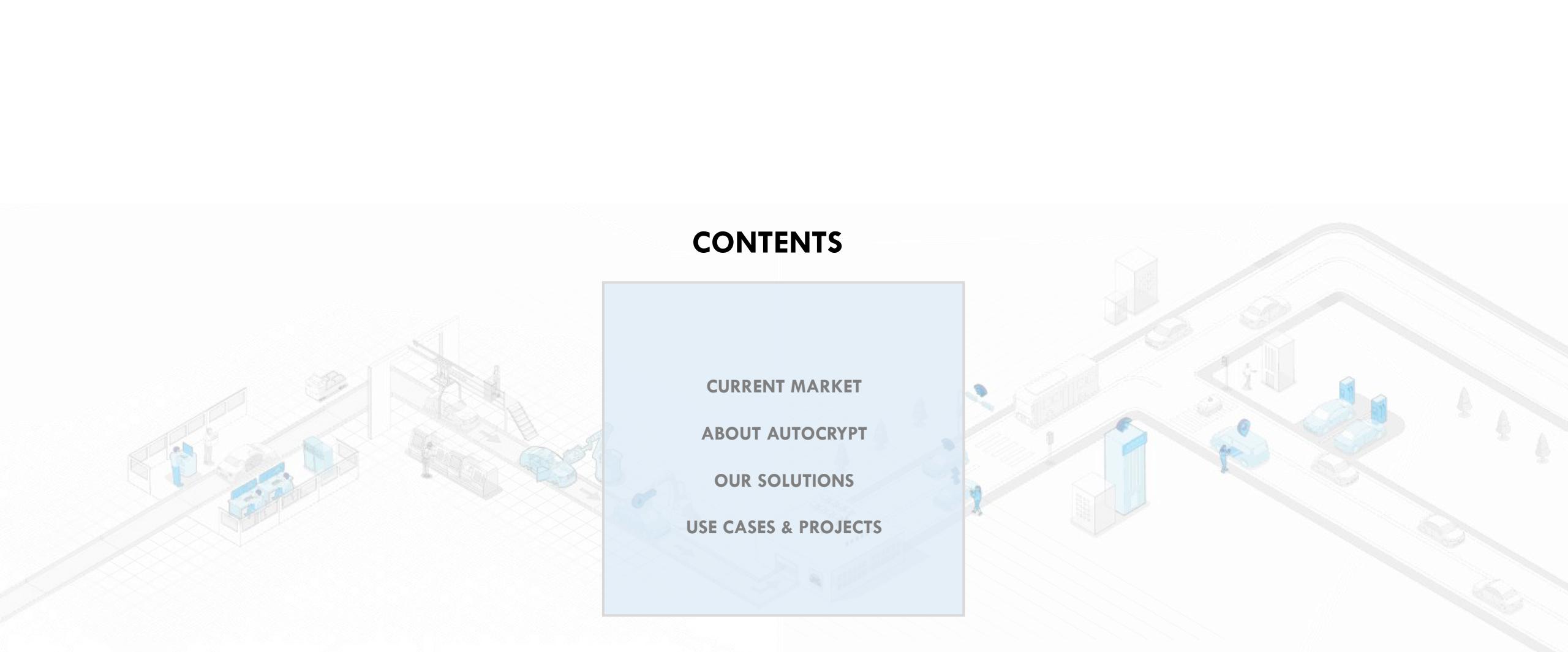
CONTENTS

[CURRENT MARKET](#)

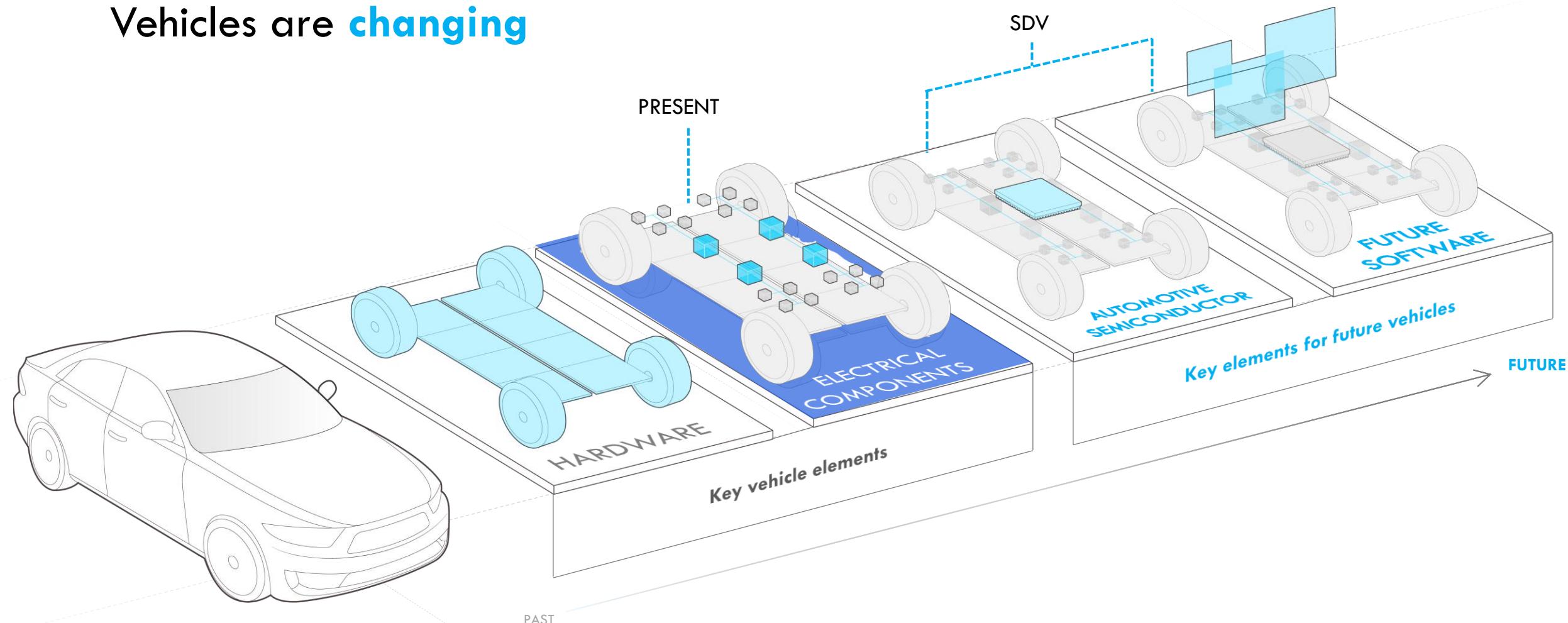
[ABOUT AUTOCRYPT](#)

[OUR SOLUTIONS](#)

[USE CASES & PROJECTS](#)

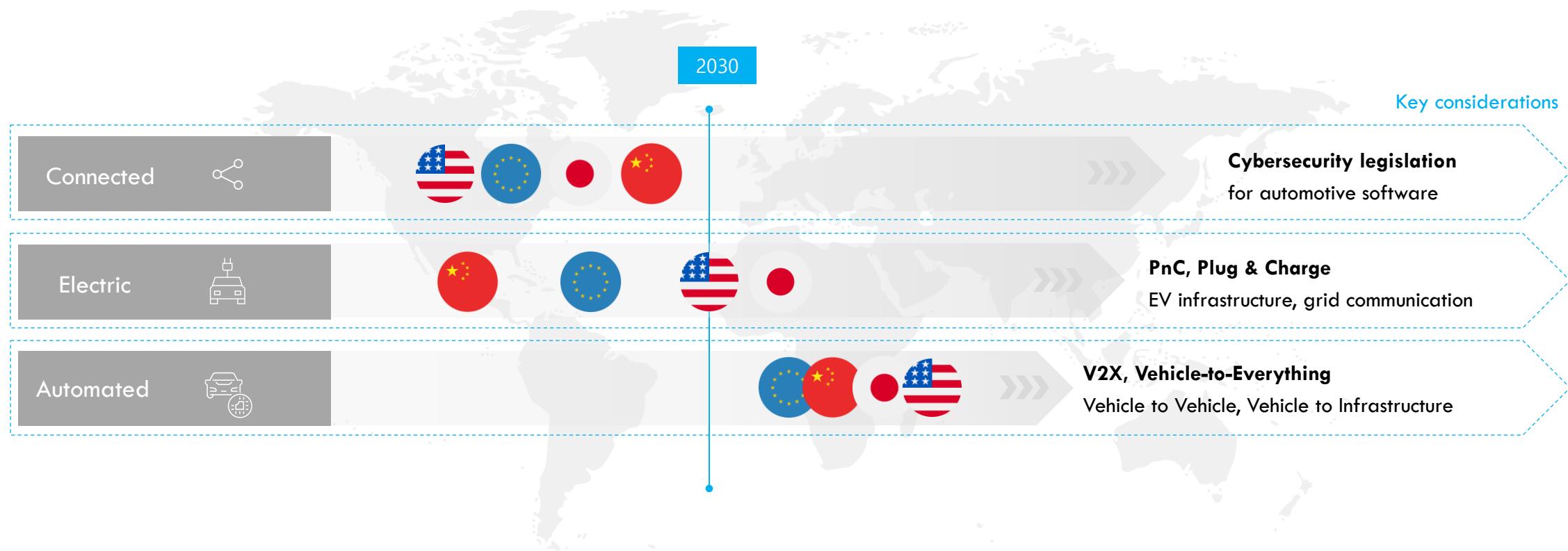


Vehicles are **changing**



AUTOCRYPT provides OEMs, Tier-1 Suppliers, and Governments
secure solutions for the future of automotive software

Future automotive technology is gaining momentum worldwide



**Future automotive technology is gaining momentum worldwide,
making an impact on universal issues**



**Cybersecurity legislation
for automotive software**



**PnC, Plug & Charge
EV infrastructure, grid communication**



**V2X, Vehicle-to-Everything
Vehicle to Vehicle, Vehicle to Infrastructure**

**Reducing sudden unintended
acceleration,
safer roads worldwide**

**Preventing EV battery fires,
promoting green transport**

**Reducing traffic accidents,
lessening infrastructure costs**

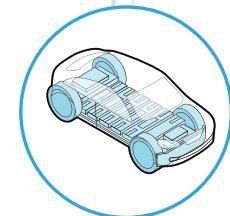
Starting in 2018, and projected to 2027,
this era is a pivotal opportunity
for the automotive industry,
and specifically automotive software companies



V2X Security (Vehicle to Everything)

NCAP, a global automotive safety watchdog, declared in 2021 with the Euro NCAP 2025 Roadmap that V2X features will be necessary to receive a 5-star rating starting in 2027.

In August 2024, the US Department of Transportation announced its goal to **deploy V2X across 20% of the national highways by 2028**, and by 2036 raise deployment to above 85%



Automotive Cybersecurity

(In-Vehicle Systems)

UNECE WP.29 **Regulations R155 / 156** state that vehicles without cybersecurity type approval cannot be sold on the market

- Regulation established June 2020
- Effective July 2022 for new vehicle models
- Effective July 2024 for all new registered vehicle types

KOREA

- Effective August 2025 for new vehicle models
- Effective August 2027 for all vehicle models

Korea

\$827M

to be invested in cybersecurity by 2027

European Commission
€66.5M

in funding for safe, resilient transport by 2030

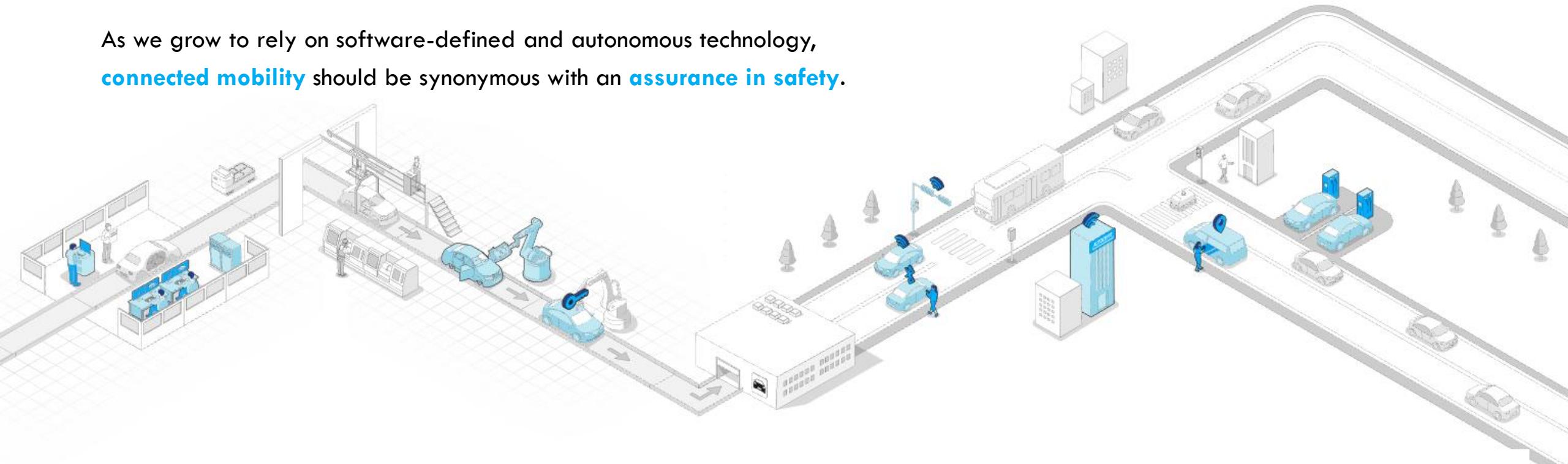
USDOT

\$60M

in V2X grants by 2028

AUTOCRYPT

As we grow to rely on software-defined and autonomous technology,
connected mobility should be synonymous with an **assurance in safety**.



Founded August 2019

Company Size 300 employees

Founder / CEO Seokwoo Lee

Headquarters Seoul, Korea

Business Areas
Automotive Software
V2X Security, In-Vehicle Systems Security, V2G / PnC Security,
Digital Key, Fleet Management System, Mobility Services

Overseas Presence Japan, Germany, USA,
Singapore, China, UAE

AUTOCRYPT

2007

The beginnings of automotive security

2011 ~ 2015

Launch of AutoCrypt



2016 ~ 2019



Launch of Plug&Charge, Leading Autonomous Driving Security with C-ITS

- Developed Korea's first automotive safety diagnostic device
- Authentication and encryption enhanced solution for vehicle/smart device sync connection
- GPS/telematics authentication and encryption system integration for police patrol vehicles
- Developed IEEE 1609.2-based V2X security solution for WAVE
- Developed Vehicle Data Management System (VDMS) for automotive big data processing
- Developed security verification technology for telematics smartphone application
- **Official commercial launch of AutoCrypt®, Smart Car Security Solution**

- Installed and operated security systems for Daejeon-Sejong C-ITS project
- Developed security solution for EV charging system
- Developed security system for railway transport system
- Installed and operated security systems for Hwaseong K-City autonomous driving testbed
- Installation and operation of Yeoju autonomous driving security system
- Designed secure authentication system for Korean Expressway Corporation C-ITS project
- Installed Jeju province C-ITS security system
- Developed vehicle/smartphone connection authentication security system for Samsung Electronics
- Deep learning based abnormal behavior detection function added for AutoCrypt® IVS, in-vehicle hacking prevention solution
- Developed ISO 15118-standard EV Plug&Charge security solution, AutoCrypt® PnC
- **Official spinoff of Autocrypt Co., Ltd.**

AUTOCRYPT is the sole security provider for all Korean C-ITS Smart Roadway Projects
(Total of 11 projects nationwide)

2020 ~ 2023

Global Expansion

- Partnered with NXP for integrated security solutions
- Partnered with Korean Expressway Corporation for national V2X SCMS
- Developed V2X (C-SCMS) authentication solution for Company D in China
- Contract with Company H for new vehicle model security testing
- Contract with Company M for ECU security project
- **Subsidiaries established in Europe and North America, with offices in China, Japan and Singapore**

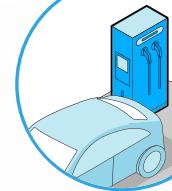
2024 ~ 2025

Global Regulatory Compliance

- **Expanded business to MENA region with UAE office**
- Integrated AutoCrypt® PnC into Hyundai Motor's E-pit EV charging network
- Established demand-responsive transport (DRT) system for Korea Transportation Safety Authority
- Launched automotive software vulnerability testing tools, AutoCrypt® Security Analyzer and Security Fuzzer
- Launched charging and charger management solution, EVIQ™
- Developed Integrated Management System (IMS) for SCMS
- Received OCPP 1.6 certification for smart-billing EV charger
- **Received ASPICE CL2 certification for AutoCrypt® TEE**
- Released comprehensive key management solution for automotive manufacturing, AutoCrypt® KEY
- Partnered with RWTH Aachen University and co-developed smart fuzzing tool for HIL simulations
- Partnered with Hitachi Solutions Ltd. on V2X and in-vehicle systems security solutions
- Partnered with a global Tier-1 telematics supplier to install AutoCrypt® V2X-EE security library to its OBUs
- AutoCrypt® V2X-PKI adopted by a multinational OEM in an emerging market, enabling CCMS-based V2X PKI operations
- **Designated as official TS (Technical Service) by RDW Netherlands**
- Launched India-compliant SCMS, adding onto North America, Europe and China-compliant solutions
- **Obtained ASPICE CL2 certification for AutoCrypt® HSM**
- Listed on the Korean stock market (KOSDAQ)

Autocrypt provides secure solutions for future / autonomous vehicles,

Vehicle to Grid



Due to the rapid commercialization of electric and autonomous vehicles, AUTOCRYPT provides interoperability and mutual authentication for the grid

Expanding business (2025-2030)

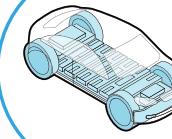
Vehicle to Everything



Providing secure connections through certificates for vehicles and transportation infrastructure, Autocrypt allows for cooperative autonomous driving.

Future-based business (2023-2030), profitability through certification services

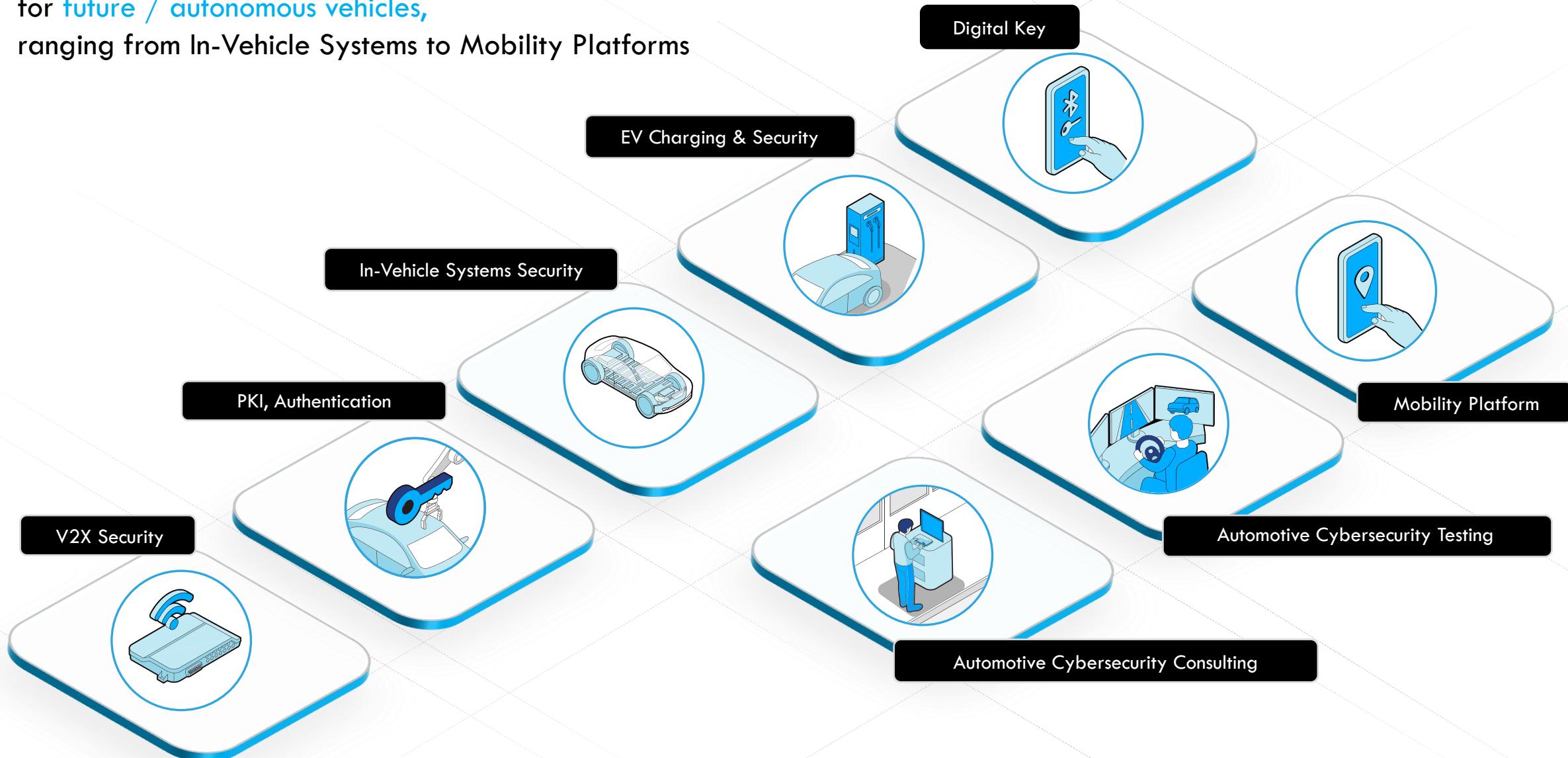
In-Vehicle Systems



AUTOCRYPT supports OEMs in regulatory compliance and security certification by securing and testing ECUs in vehicles

Core business (2019-2025), significant share of current and future revenue

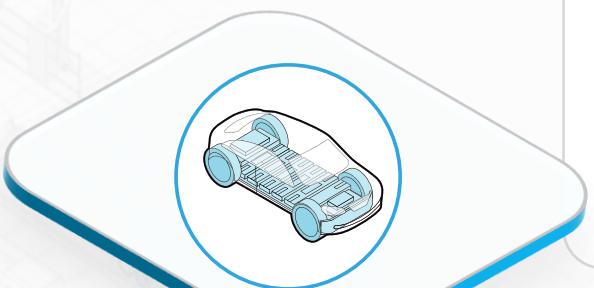
**Autocrypt provides secure solutions
for future / autonomous vehicles,
ranging from In-Vehicle Systems to Mobility Platforms**



AUTOCRYPT SOLUTIONS

Automotive Cybersecurity Testing

In-Vehicle Systems Security



Cybersecurity testing platform and services that comply with ISO/SAE 21434 and UN R155/156

- **AutoCrypt CSTP**
Cybersecurity Testing Platform aligned with international regulations
AutoCrypt CSTP Compliance
Comprehensive vehicle testing to optimize compliance process
- **AutoCrypt CSTP Fuzzer**
Smart and automated fuzz testing software, also deployable in in-the-loop (HIL) simulations
- **AutoCrypt CSTP Functional Tester**
Customized testing tailored to vehicle environments, for security validation meeting OEM requirements
- **Testing Service**
Fuzz testing, penetration testing, and functional testing services

hardware-

In-Vehicle Systems Security

Full range of advanced security software, embedded components, and add-ons

- **AutoCrypt HSM**
Embedded security firmware for ECUs
- **AutoCrypt TEE**
Trusted execution environment for advanced applications
- **AutoCrypt Digital Key**
Secure key management system to verify and link vehicle owner device
- **AutoCrypt V2X-EE**
Security module and local certificate manager
- **AutoCrypt IDS & vSOC**
Intrusion detection system, policy management, security operations center
- **AutoCrypt TLS**
Advanced encryption algorithms for automotive communications

UN R155/156 Consulting and Training

AUTOCRYPT provides professional consultation and training services for OEMs and Tier 1 suppliers such as TARA (template available as Siemens Polarion add-on), CSMS for UN R155 and cybersecurity testing

Authentication, Key Management

AUTOCRYPT utilizes its proprietary PKI technology to systematically and securely control access to each vehicle component during the manufacturing process

V2X Security

Vehicle-to-Everything



Secure, internationally compliant V2X security with proprietary encryption technology

- AutoCrypt V2X-PKI

The V2X PKI system, adaptable to all three major SCMS standards (US SCMS, EU CCMS, China C-SCMS)

- AutoCrypt MBD

Misbehavior detection and monitoring integrated into V2X PKI operations

- AutoCrypt IMS for SCMS

Integrated management system for V2X PKI certificates, operations

- AutoCrypt CLS

Smart edge server connected to RSUs and roadside sensors, enabling sensor data analysis and direct V2I communication

Teledriving Solution

Remote control of autonomous vehicles in emergency situations, ensuring passenger safety

- AutoCrypt RODAS

A teledriving solution that provides a failsafe for autonomous vehicles, allowing for an authorized operator to take remote control over the vehicle when an unexpected situation arises

EV Charging & Security

Vehicle-to-Grid



Secure solutions for EV charging, comprehensive consulting for EV charging businesses

- AutoCrypt CSMS

A convenient way to manage charging infrastructure and operations through a secure GUI platform, fully compliant with OCPP 2.0.1

- AutoCrypt PnC

Secures the Plug&Charge process during electric vehicle charging, allowing for secure authentication and billing based on ISO 15118-20

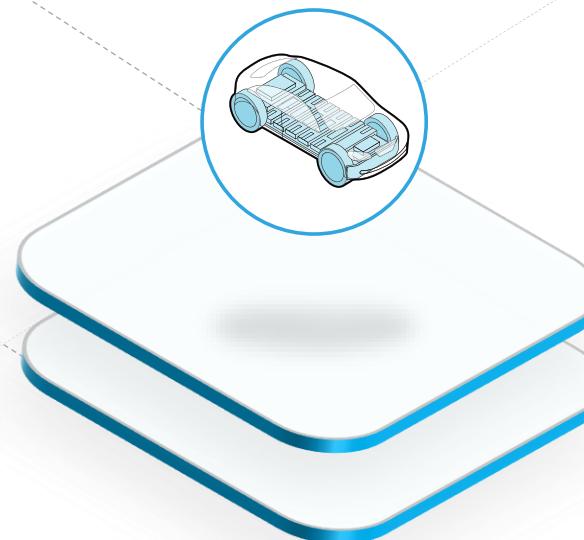
Mobility Platform

Customized secure multi-modal platforms for MaaS providers and operators, creating a safe transportation environment

- Accessible mobility solutions
- Multi-modal mobility
- Demand Responsive Transit
- Taxi services
- Data management for fleets

AUTOCRYPT is the only official Technical Service (TS) for cybersecurity in the Asia-Pacific region

AUTOCRYPT is the leader in automotive software



The only official Technical Service (TS) for cybersecurity in the Asia-Pacific region

Autocrypt received the designation from RDW, the vehicle authority and approval body of the Netherlands. The designation enables Autocrypt to issue European automotive cybersecurity type approvals



Autocrypt collaborates with global OEMs, suppliers, engineering companies, and academic institutions to advance automotive technology

Global R&D Network

| United Kingdom

Beam Connectivity



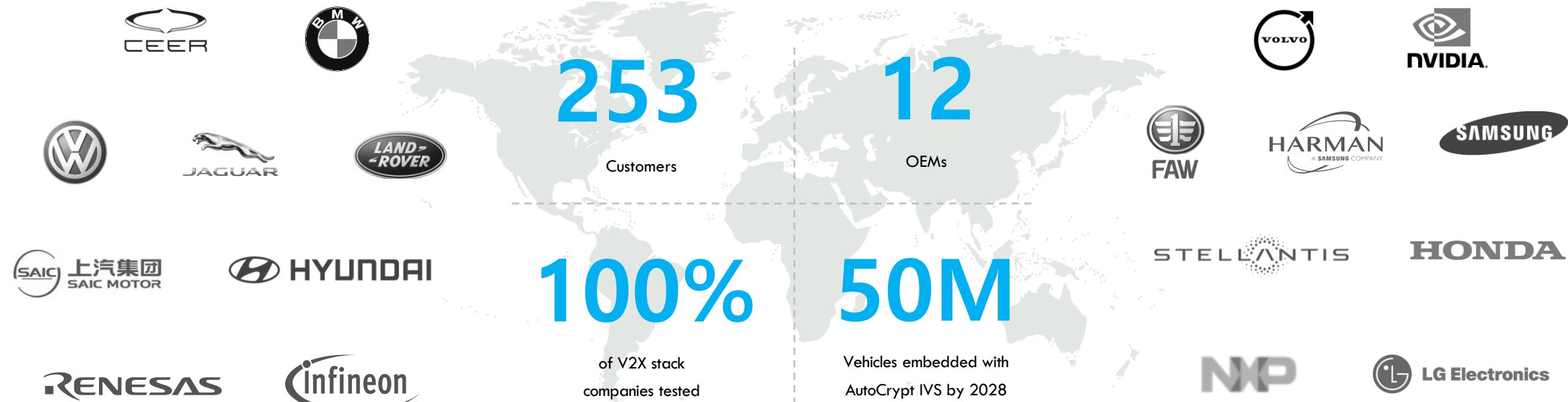
| UAE & Czech Republic



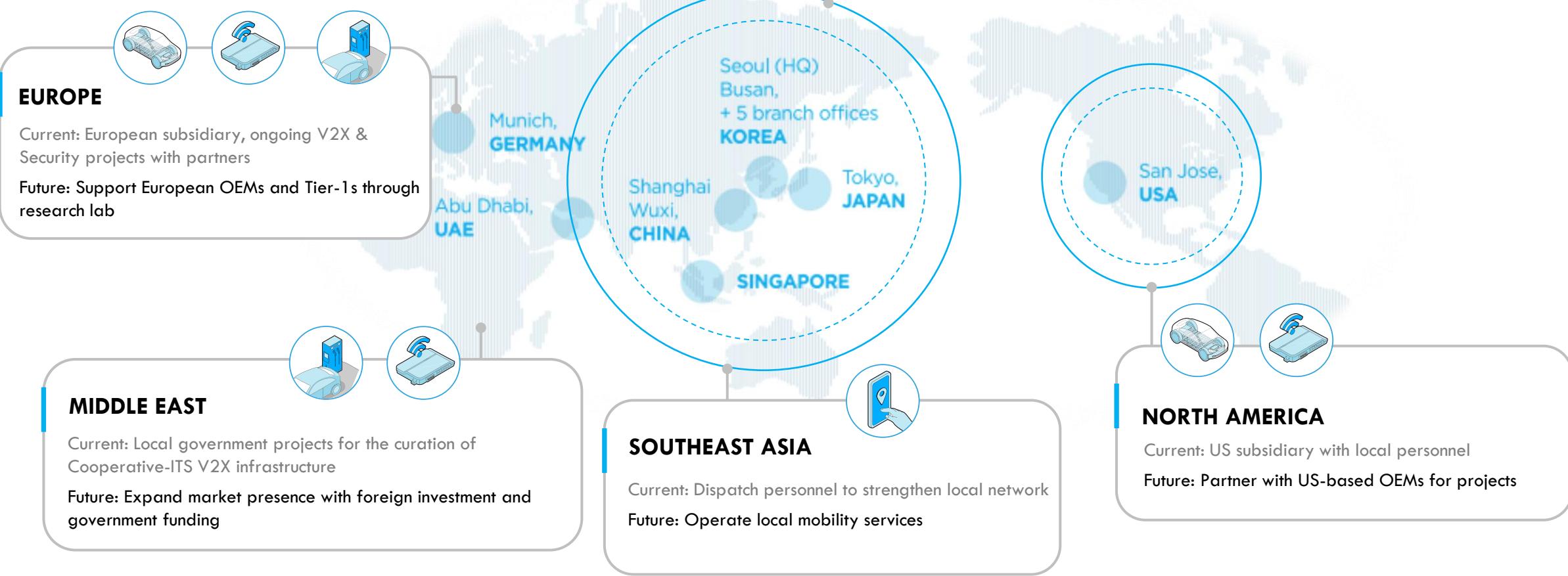
| Germany



AUTOCRYPT is proud
to provide its innovative software solutions to
world-renowned OEMs and Tier suppliers



Expansion of Global Presence & Projects



Expansion of Global Presence & Projects

EUROPE

CATCH

CAN-based Automated Test of Cybersecurity on HiL

AUTOCRYPT | Building and Research Area in Mobile Propulsion | **cmp** | **RWTH AACHEN UNIVERSITY**

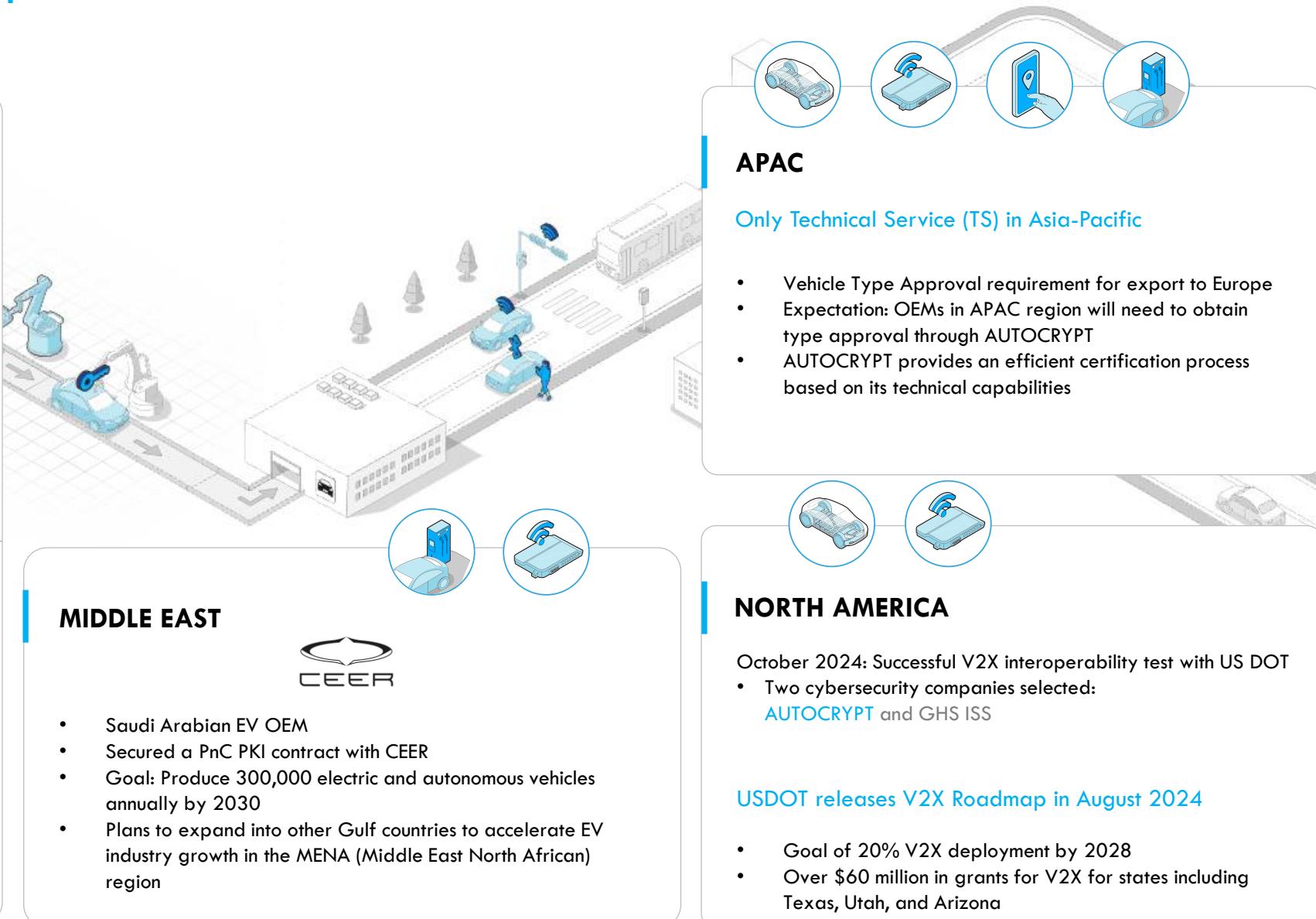
- Joint funded project (~'26)
- Integration of advanced security attack methods to HiL (Hardware-in-Loop)
- Extended to ADAS ECU's cybersecurity testing
- Autocrypt Security Fuzzer as a validation toolchain

eSiLa

Elektromobiles Sicherer Laden

AUTOCRYPT | **AVL** |  | **MICRONOVA** Software und Systeme | 

- Bavarian state funded project (~'26)
- Advanced methods of ISO/SAE 21434 "cybersecurity validation"
- Validation of EVCC-SECC comm. based on future charging scenarios
- Autocrypt Security Fuzzer as a validation toolchain



The Future in Automotive Software

SECURE. CONNECT. DRIVE.

AUTOCRYPT

