



TABLE OF CONTENTS



Introduction

Bird's Eye View

Executive Summary

The Basics

Analysis

Summary Tables

Next Steps

Contact Us

RELATED SBD REPORTS

**535 – Autonomous Car Legislation Guide**

This Guide provides an in-depth analysis of how and where legislation is impacting on active safety systems within the car.

It identifies the threats and opportunities generated by government mandates, incentives, standards, and frequencies, and it projects within Europe, USA, Japan, China and Russia.

Connected
Car

#528

Connected Car Legislation Tracker

The connected car eco-system is evolving at a rapid pace. Today, legacy OEMs and suppliers are investigating how to enhance their offering to satisfy ever-changing consumer demands. At the same time, new players - including start-ups and consumer technology firms - are emerging who intend to explore opportunities to embed connectivity across the development, production, and user experience of their vehicles.

As new connected vehicles, systems, features, and applications have launched over time - governments and governing bodies have historically responded with a variety of legal and regulatory activity. In the present day, where dozens of OEMs are releasing and updating new connected systems at an increasingly frequent rate, its legal landscape is becoming increasingly complex.

The Connected Car Legislation Guide works to define this landscape clearly across multiple regions and countries around the world. In addition to identifying the active and developing legislation impacting connected services, it understands how legislation can vary from region to region. For developing legislation, it assesses how likely it is to be implemented and highlights its potential impacts. The guide is divided into three sections that each cover a different aspect of connected car legislation and is released quarterly to account for any new activity within the space.

COVERAGE



GLOBAL



NA



CHINA



EUROPE

FREQUENCY



ANNUALLY



QUARTERLY



ONE-OFF

PUBLICATION FORMAT



PDF



POWERPOINT



EXCEL



ONLINE

PAGES



45+

Request price



Key questions answered

- > What legislation is currently impacting connected services?
- > What is the likelihood developing legislation will be implemented?
- > How does the legislation for connected services differ by region?
- > What is the potential impact of certain proposed legislation?

This research supports



PRODUCT PLANNERS



ENGINEERS



MARKETING



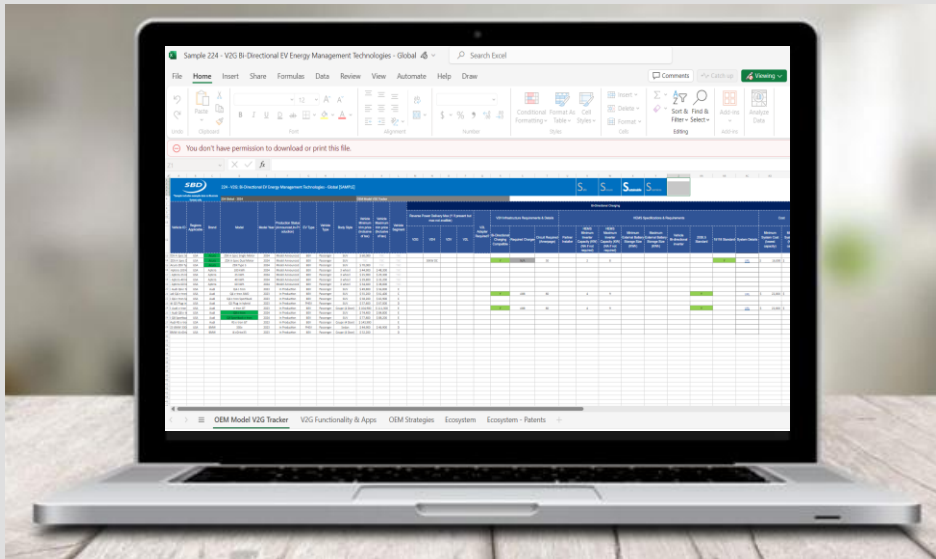
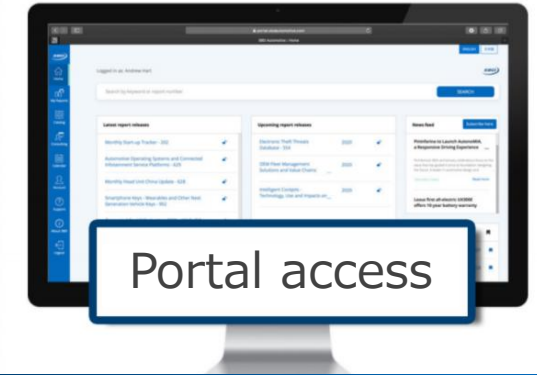
C-SUITE

Do I have access?

100+
Reports published
per year

50k+
Slides of insights,
forecasts & data

4,000+
of auto professionals
who access our reports



View Excel Data Sheet Sample

Connected Car Legislation Tracker

Identify the active and developing legislation impacting connected services

Click for Sample





[Request price](#)



Connected Car Legislation Tracker

528 Connected Car Legislation Tracker

Introduction »	4	Summary Tables »	28
Executive Summary »	6	<ul style="list-style-type: none">USA – Regulations/Legislations/MandatesUSA – Guidelines & Best PracticesEU – Regulations/Legislations/MandatesEU – Guidelines & Best PracticesChina – Regulations/Legislations/MandatesChina – Guidelines & Best PracticesGlobal – Regulations/Legislations/MandatesGlobal – Guidelines & Best PracticesExplore	
The Basics »	11		
Analysis »	16	Legislation Bird’s Eye View »	39
<ul style="list-style-type: none">UK DIJA BillAI act across the USData Privacy (USA)Digital Fair Repair ActEuropean AI Act AIAct across US statesInternet of Vehicles (China)Data protection bill (India)Data privacy (South Korea)USA guidelines on 5G developmentExplore	Next steps »	46	
		Contact Us »	50



Data Deep Dive
View and analyze deep data in your own way



Customer Feedback
Provide your feedback to SBD regarding this report





Introduction


Connected car legislation emphasizing data privacy, 5G development

With more 'connected' cars rolling off the assembly line every passing year, the automotive industry is facing regulatory hurdles previously seen in other industries that have progressed along the technology adoption lifecycle. The government bodies are increasingly taking note of the fast pace this industry is growing and the issues (more importantly the impact of these issues) that prevail due to the very growth.

The major concerns include passenger safety, data privacy, liability, intellectual property rights, cybersecurity, interoperability and access to the wireless spectrum among others. Legislators and SMEs have started to proactively address these issues in ways that ensure consumer protection - but not at the expense of development. In short, the groundwork that the government bodies are undertaking must spur innovation and rapid deployment rather than being an impediment in the progress.

The **Connected Car Legislation Guide** provides an inside look at the regulation activities taking place across the globe. In doing so, it details the scope of these policies, identifies the various organizations responsible, the legal status of bills and the timeline of activities. It also includes some peripheral legal aspects that may have a direct or indirect impact on connected car development in the near-foreseeable future.

Note: This guide only highlights the actual regulatory activities and does not give any recommendations. This guide's analytical and forward-looking statements shouldn't be construed as legal advice.

Layer	Section	Conclusion
STRATEGY & IMPACT	Executive Summary	This section highlights some of the recently enforced and introduced regulations/legislations/guidelines across the regions
	The Basics	A brief overview of the different type of legal aspects (regulation, legislation, standards etc.) covered in this report along with the regions in focus.
LEARNING & ACTION	What's New?	Not applicable
	Analysis	Key regulatory activities that are impacting the connected car development and best practices published by the authorities
CORE INSIGHTS	Summary Tables	In summary, legislative activities are increasing, and some laws are nearing enforcement. In contrast, some haven't seen the light of day after being introduced and debated several times.
DATA DEEP DIVE IN EXCEL	Deep Dive	 View and analyze deep data in your own way
	Geographies	
	Legislations/Regulations	
	Standards	
	Definitions	
CONTEXT	Birds Eye View	An overview of the tangential trends to this topic, as identified in SBD's neighboring products
	Future Outlook	Not applicable
	Next Steps	Can SBD help you with any unanswered questions?

Example slides from the report



Request price >



What? Snapshot of Key Regulatory/Legislative updates

	Introduced* Legislation/Regulations recently introduced	Enforced/Published** Legislation/Regulations recently enforced
Global	No new legislations were introduced in the rest of the world recently (Q1 2025)	Privacy and Other Legislation Amendment Bill 2024 (Australia) The new bill amends the Privacy Act 1988 and seven other laws to implement measures that protect individuals' privacy regarding their personal information (enforced since December 10 th , 2024)
China	No new legislations were introduced in China (Q1 2025)	Artificial Intelligence Security Governance Framework 1.0 version These measures aim to ensure the safety and reliability of connected vehicles using AI technology. Enforced since Sept. 2024
Europe	Data (Use and Access) Bill (UK) The Data (Use and Access) Bill, introduced to the UK Parliament on October 3, 2024, amends the UK data protection framework. It passed the first reading in the House of Lords on the same day. The UK Information Commissioner's Office ("ICO") submitted their response on bill recommendations	The new Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) comes into effect from February 25 th , 2025, with new amendments
USA	Repair Act HB 1566 (Federal) This bill requires vehicle manufacturers to provide owners with real-time, in-vehicle data related to diagnostics, repairs, wear, and system calibration. Manufacturers cannot restrict access to this data or prevent aftermarket parts makers from offering compatible components.	BIS Connected Vehicles Rule A of March 17, 2025, a final rule prohibiting the import and sale of certain connected vehicles and key components Generative AI Accountability Act Californian governor approves GenAI accountability act on 29 th Sept. 2024

*In some regions (primarily outside the US) the word 'issued', 'proposed' are used for the legislations instead of introduced

**Standards and Guidelines/Best Practices are often not enforceable by law. They are introduced and reviewed by the subject experts before being published.



'Disclaimers' are crucial starting point for AI laws in USA

Legislation Overview

Status	✓	Introduced		Draft	✓	Enforced
--------	---	------------	--	-------	---	----------



The **SB 896** bill is introduced in California because of Generative AI Accountability Act. mandating the California Department of Technology (CDT) and the California Office of Emergency Services

The **SB 205** bill was introduced in **Colorado** concerning consumer protections in interactions with artificial intelligence systems. The e bill requires a developer and deployer of a high-risk artificial intelligence system (high-risk system) to use reasonable care to avoid algorithmic discrimination in the high-risk system.

Details

House Bill 60 –New Mexico Artificial Intelligence Act

- HB 60 places specific documentation and disclosure requirements on the developers and deployers of “high-risk” AI systems.
- It requires concerned authorities to publish and regularly update a website listing a summary of the types of high-risk AI systems used and a detailed explanation of the nature, source, and extent of the information collected and used

Senate Bill 896 – Generative AI Accountability Act

- The bill essentializes the Office of Emergency Services to perform a risk analysis of threats posed using GenAI to California’s Critical Infrastructure, further providing the summary to the Legislature annually.
- The Department of Technology, under the guidance of the Government Operation Agency, the Office of Data and Innovation, and the Department of Human Resources, is expected to provide the governor with a report on such threats.
- The state agency/ government department that uses GenAI to interact with a person must compulsorily pose a disclaimer in case of written, audio and video communication to state that GenAI generated the communication.

Senate Bill 205 – Colorado’s AI Consumer Act

- In the state of Colorado, if an AI system generates or manipulates synthetic digital content on and after 1 February 2026, the bill requires the developer to ensure that the output is marked in a machine-readable format and detectable as synthetic digital content, while the deployer must disclose to consumers that the synthetic digital content has been artificially generated
- A person who violates the act engages in a deceptive trade practice pursuant to the ‘Colorado Consumer Protection Act’.

Key takeaways

- Safeguarding newer technologies is a crucial part of government regulatory bodies, ensuring healthy usage, accountability and lesser frauds. Current emphasis of states in USA in terms of AI laws is to ensure disclaiming the use of AI to consumers irrespective of government or private bodies.
- The USA country currently relies on federal laws for AI, while California and Colorado become the pioneering states to adopted AI legislations in USA, setting a standard across other states in the country.

What’s New?

Senate Bill 896

Place of Effect – California

Date Introduced – 3rd January 2024

Date Passed – 29th September 2024

[More here](#)

Senate Bill 205

Place of Effect – Colorado

Date Introduced – 10th April 2024

Date Passed – 17th May 2024

Artificial Intelligence Act (HB 60)

Place of Effect – New Mexico

Date Introduced – 21-01-2025



Intelligent connected vehicles and car sharing regulations in China

Regulation overview

Status	Introduced	Draft	✓	Enforced
--------	------------	-------	---	----------



The Chinese government keeps close control of all industrial activities through a complex regulatory frameworks and it is no different in connected and autonomous vehicles space. These controls impact on both domestic and foreign companies offering telematics and connected car services. The licensing process is complex and has been made more difficult for non-Chinese entities by rules covering foreign ownership.

Details

How are local government bodies helping spur the development of connected vehicles in China?

The telematics service licensing regulation accelerates the promotion and standardization of the research and development activities related to the intelligent connected vehicle technology.

It also supports the OEMs and suppliers involved in the development of connected vehicle products and technology to conduct public trials.

Lastly, it has accelerated the commercialization process of the connected vehicles and many of its constituents like 5G connectivity, digital cockpits, HD maps, semiconductor chips, on-board high-precision sensors, in-car OS operating system among others.

What's New?

Artificial Intelligence Security Governance Framework 1.0 version

These measures aim to ensure the safety and reliability of connected vehicles using AI technology, promoting the healthy development of intelligent transportation systems.

Identify and assesses potential security risks in data transmission, communication protocols, and system integration for connected vehicles.

This regulation was enforced on September 9st, 2024

Regulations on Network Data Security Management

For connected vehicles, the regulations highlight the need for secure data processing practices to prevent risks such as data theft, unauthorized access, and remote control of vehicles.

This regulation is in effect since January 1st, 2025

No significant updates in China last quarter

Key takeaways

The regulations covering telematics services and connected vehicles are aimed at ensuring that only fully qualified organizations can offer these services after proper due-diligence. The rules also restrict foreign involvement so that Chinese companies have a competitive advantage in connected vehicles and any investment by foreign companies benefits the Chinese economy.



EU – Regulations/Legislations/Mandates

Latest activity vs legal status

About the legislative/regulatory activity placement in the grid

Legal status

Last updated			
	Introduced	Drafting	Enforced
			1 2 3
Older			

S. No	Name of the law	Recent development(s)	Next activity/milestone
1	Commission Delegated Regulation (EU) 2024/1180 of 14 February 2024 amending Regulation (EU) 2015/758 of the European Parliament and of the Council as regards the standards relating to eCall (European Union)	The Commission Delegated Regulation (EU) 2024/1180 revises eCall system standards to enhance interoperability, location precision, and emergency response efficiency. This prompts vehicle manufacturers and emergency services to adopt new technologies and infrastructure for better road safety across the EU.	The regulation amending 2015/758 is 2024/1180 which was adopted in February and has been in force since May.
2	Uniform provisions concerning the Accident Emergency Call Systems (AECS) (European Union)	The "Uniform Provisions on Accident Emergency Call Systems (AECS)" specify the testing requirements that AECS (also known as eCall devices) must meet to be approved under the UN regulation.	Amendment 1 & Amendment 2, Date of entry into force: 25 September 2020
3	Uniform provisions concerning the approval of vehicles with regards to software update and software updates management system (European Union)	UN Regulation 156 mandates implementing security and safety measures throughout the entire automotive software update process.	The compliance has only been mandatory for new vehicle types since July 2022. Finally, by July 1, 2024, the regulations applies to all newly manufactured vehicles.

Key highlights

- Commission Delegated Regulation (EU) 2024/1180 revises the standards for the eCall system, requiring European automakers to enhance the compatibility and seamless communication between different eCall systems. This aims to ensure a unified response across the EU.
- The regulation also emphasizes improving the accuracy of location data and streamlining the emergency response process, which will lead to faster and more effective assistance in critical situations.



China – Best Practices & Guidelines

Latest activity vs legal status

About the legislative/regulatory activity placement in the grid

Legal status

		Introduced	Drafting	Published
Last updated	Last quarter		2	1
	3-12 months			
	Older			

S. No	Name of the law	Recent development(s)	Next activity/milestone
1	Notice of the Two Departments on Further Strengthening the Management of Intelligent Networked Vehicle Product Access, Recall and Software Online Upgrade	Further do a good job of equipped with a combination of driver assistance systems and OTA function of intelligent networked automobile product access and recall management, standardize the OTA upgrade activities of automobile production enterprises	This guideline was published on 2025/2/28
2	Navigable digital map-Basic requirements of security processing technology	In order to comply with the requirements of technological progress, industrial development and relevant policies in fields related to navigation electronic map security applications, and to support the high-quality development of navigation electronic maps and other related industry fields	This standard is out for public review on 2025/2/5

Key highlights

- Notice of the Two Departments on Further Strengthening the Management of Intelligent Networked Vehicle Product Access, Recall and Software Online Upgrade strengthens the management of intelligent connected vehicles **by enforcing stricter product approvals, recall procedures, and oversight of OTA software updates**, aiming to enhance vehicle safety and reliability.
- Navigable digital map-Basic requirements of security processing technology **specifies requirements for data collection, production, and representation processes of navigable electronic maps**, ensuring compliance with national security protocols by excluding sensitive content and implementing spatial position technical processing.

Request the price



Request price >



Contact Us



Contact SBD Automotive

Do you have any questions?

If you have any questions or feedback about this research report or SBD Automotive's consulting services, you can email us at info@sbdautomotive.com or discuss with your local account manager below.



info@sbdautomotive.com



Book a meeting

USA

UK

Germany

India

China

Japan



Garren Carr
North America
garrencarr@sbdautomotive.com
+1 734 619 7969

Luigi Bisbiglia
UK, South & West Europe
luigibisbiglia@sbdautomotive.com
+44 1908 305102

SBD China Sales Team
China
salesChina@sbdautomotive.com
+86 18516653761

Andrea Sroczynski
Germany, North & East Europe
andreasroczynski@sbdautomotive.com
+49 211 9753153-1

SBD Japan Sales Team
Japan, South Korea & Australia
postbox@sbdautomotive.com
+81 52 253 6201