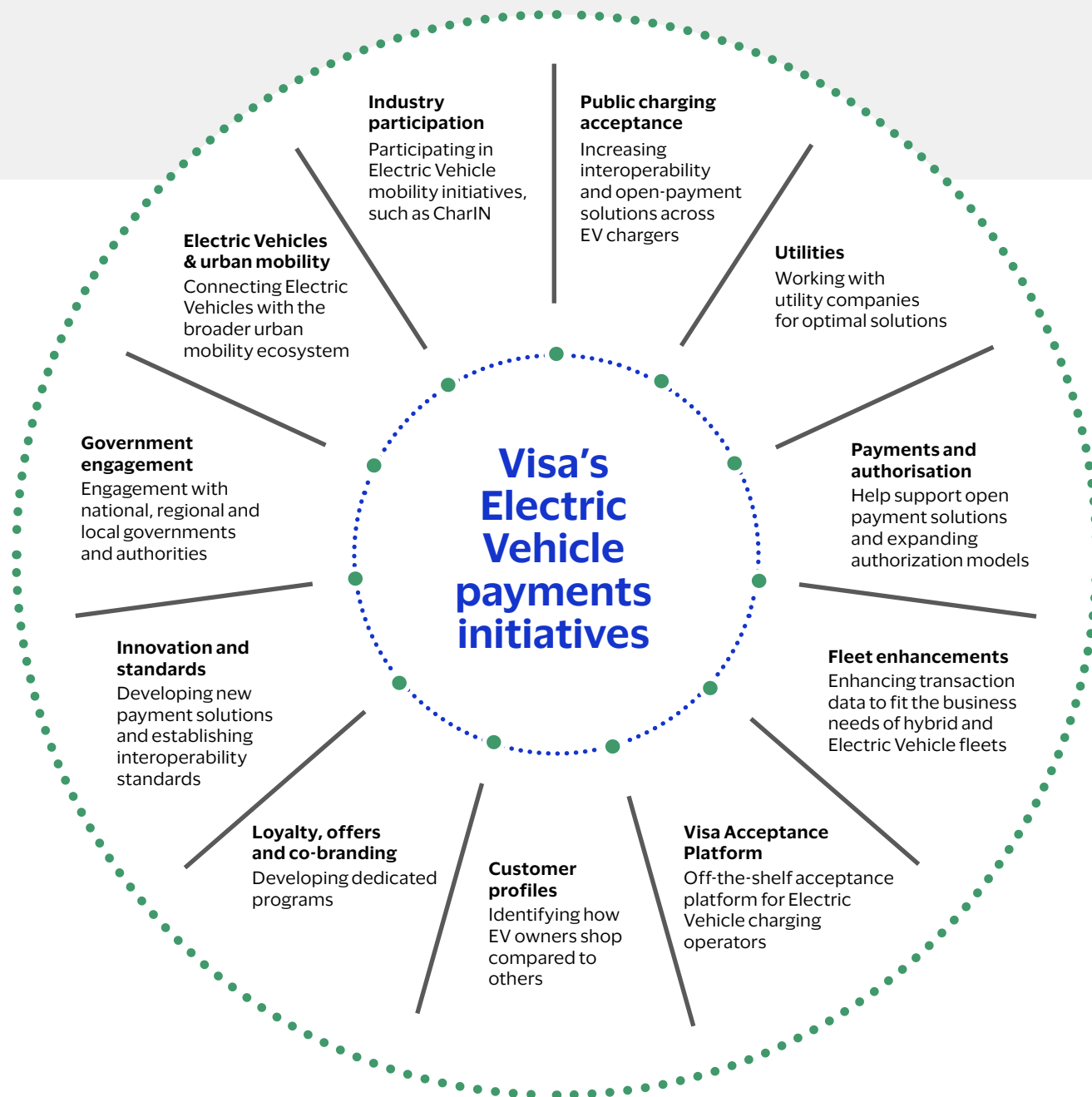
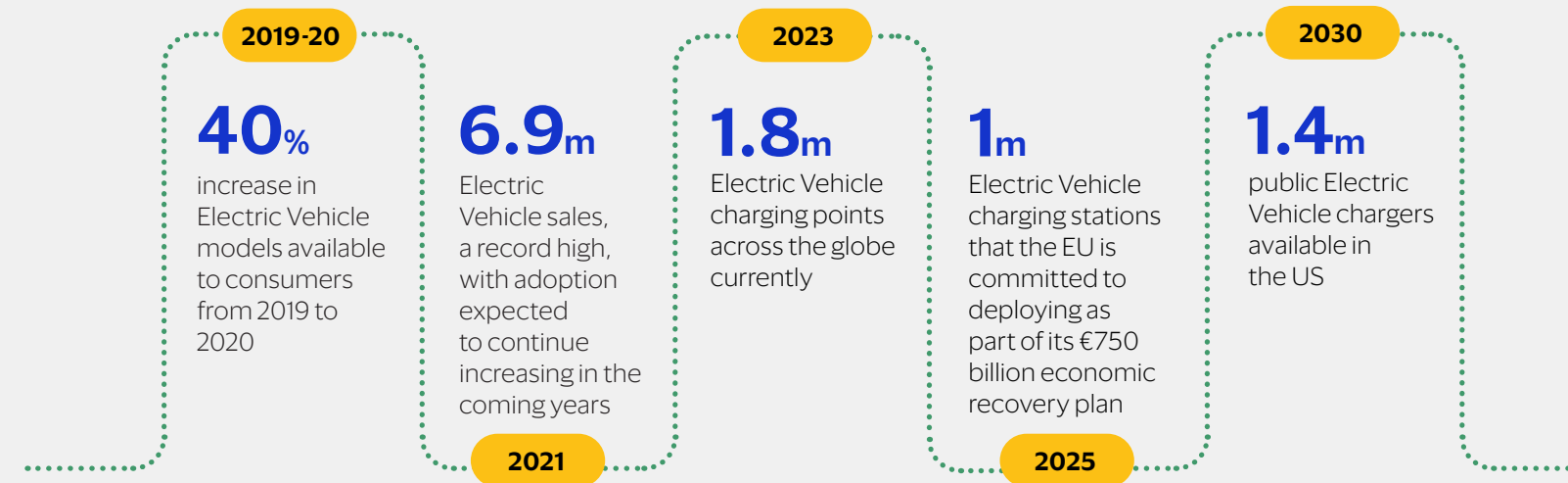


Visa is one of the leaders in Electric Vehicle charging payments

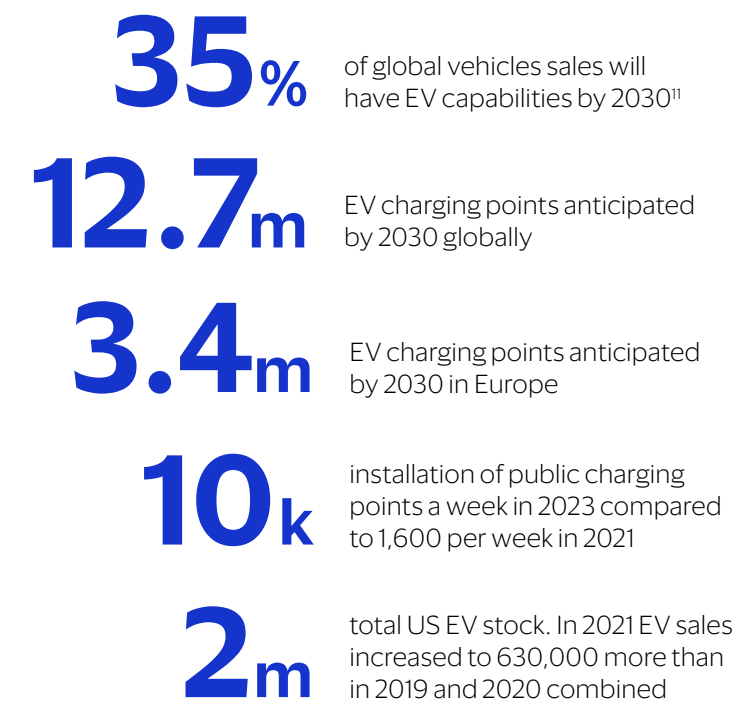
The use of Electric Vehicles is growing rapidly, and as charging infrastructure grows to meet demand, the payment experience has been fragmented for customers. Visa is working to create interoperable, secure and seamless Electric Vehicle payment experiences everywhere for everyone, getting customers where they want to go, faster and easier. Visa is working towards simple payments for Electric Vehicle charging to help further drive the adoption of zero-emission vehicles.



By 2030, 226 million EVs are anticipated on the road globally



As EVs continue to go mainstream, public charging points will be crucial



Sources: Graph: IEA (2023), Global Electric Vehicle Data Explorer, IEA, Paris <https://www.iea.org/data-and-statistics/data-tools/global-ev-data-explorer>. The White House, April 2023, FACT SHEET: Biden-Harris Administration Announces New Private and Public Sector Investments for Affordable Electric Vehicles | The White House. McKinsey (2022), Europe's Electric Vehicle opportunity—and the charging infrastructure needed to meet it, <https://www.mckinsey.com/industries/automotive-and-assembly/our-insights/europes-ev-opportunity-and-the-charging-infrastructure-needed-to-meet-it>.
Data points: Bloomberg NEF, Global Electric Vehicle Outlook 2022 & CNBC.com. "Auto executives say more than half of U.S. car sales will be Electric Vehicles by 2030, KPMG survey shows." 2021, Nov 30.

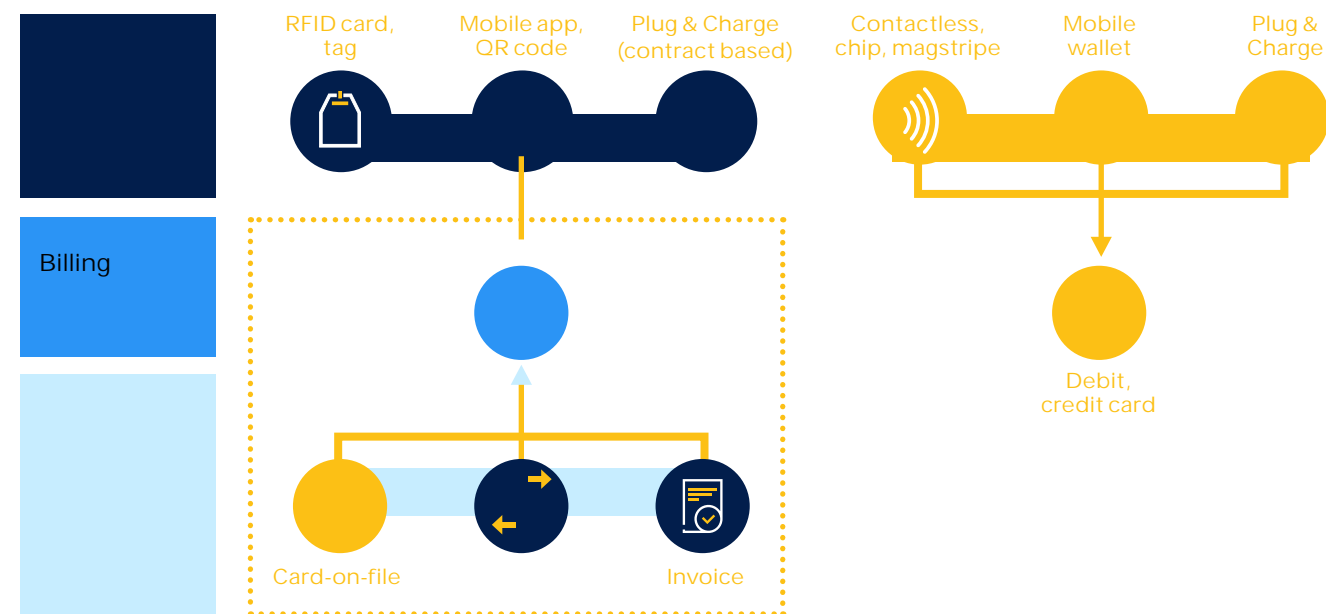


Closed-loop models

There are three types of closed-loop models:

- Pay-as-you-go wallet: This is the most common closed-loop model. Proprietary cards or mobile apps are tied to stored credentials to initiate charging.
- Top-up wallet: Similar to Pay-as-you-go but requires pre-funding by stored credentials.
- Contract based Plug & Charge: Consumers plug in their cars to start a session using linked payment method.

Open-payment model



In order to ensure a seamless consumer experience, deploying open-payment card-present solutions such as contactless is the best option, offering consumers the option to use their preferred payment methods while also allowing charging point operators to develop their own solutions. Open-payment reduces friction without having to set up an account and then having to log into a mobile app with each purchase. Additionally, these solutions remove complexities for drivers when it comes to interoperability and accessing public charging, cross-border travel and vehicle rentals.

