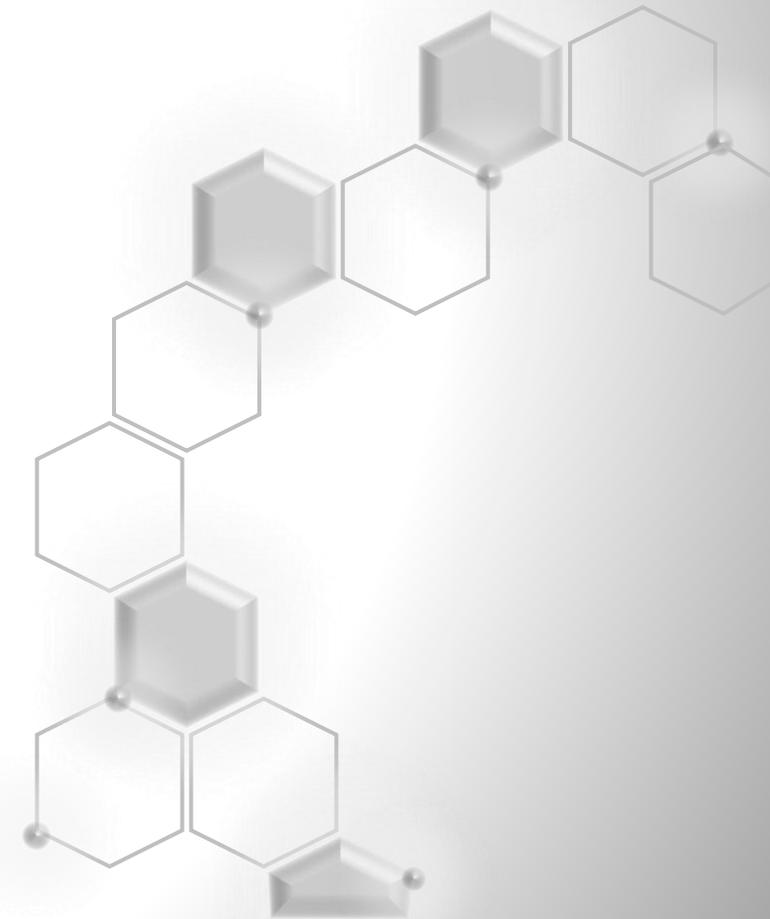


Mar 3, 2026

Automotive Edge Computing Consortium

IRIGATE Overview

IRIGATE Outline

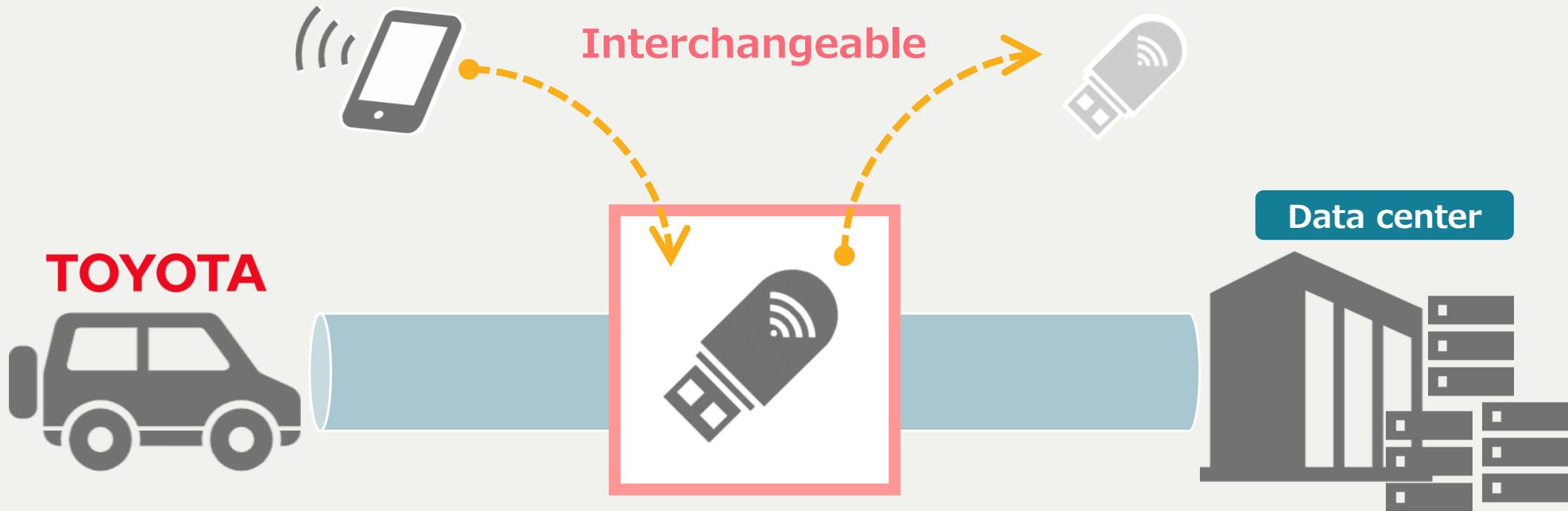


IRIGATE

- Intelligent
- Replaceable
- Interconnections
- GATE

✂ It also play an English word “Irrigate” Water run in a farm

The aim of IRIGATE



By being replaceable,
the issues of...

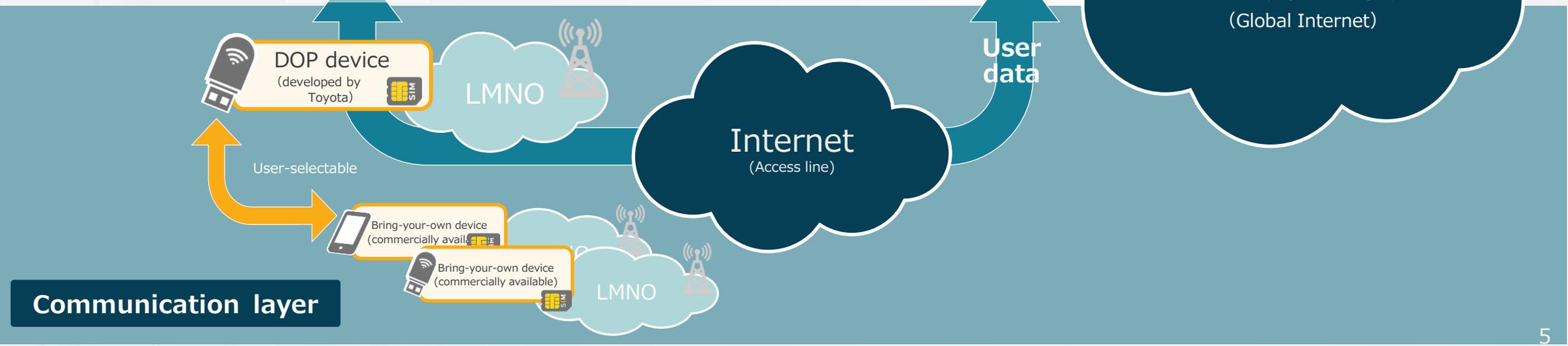
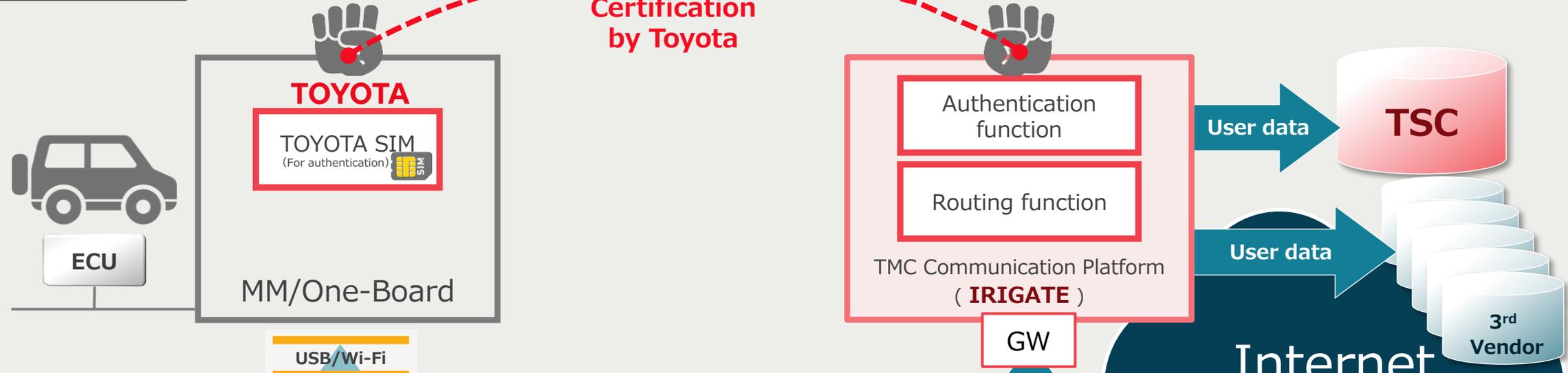
- **Sunset/20-year continuous use**
- **Provide connected service in all countries**

can be **solved**

Architecture of IRIGATE



App layer



What is IRIGATE

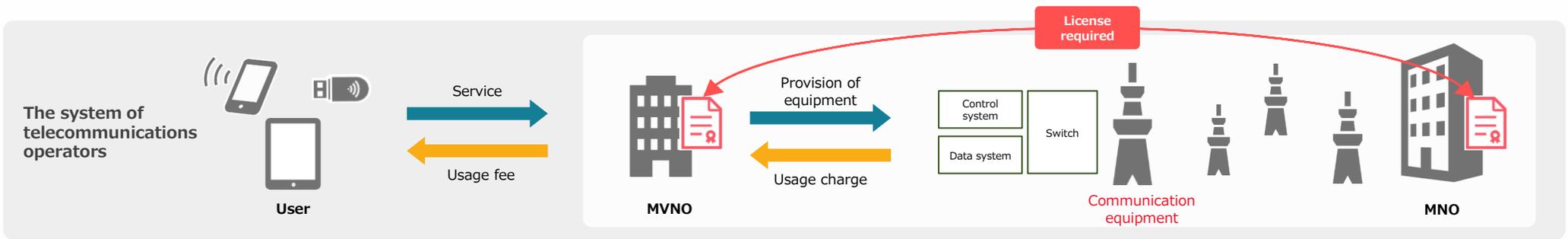
Isolate Connectivity



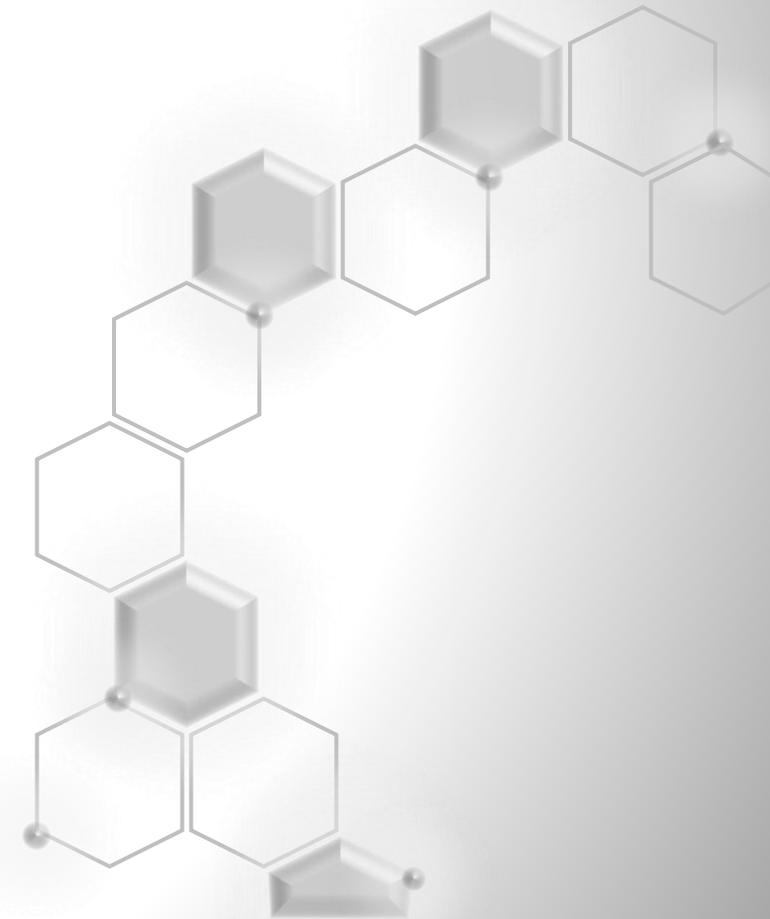
With cloud technology, internalizing **functionalities equivalent to those of telecommunications operators.**

Cellular on Cellular Covering the existing complex system

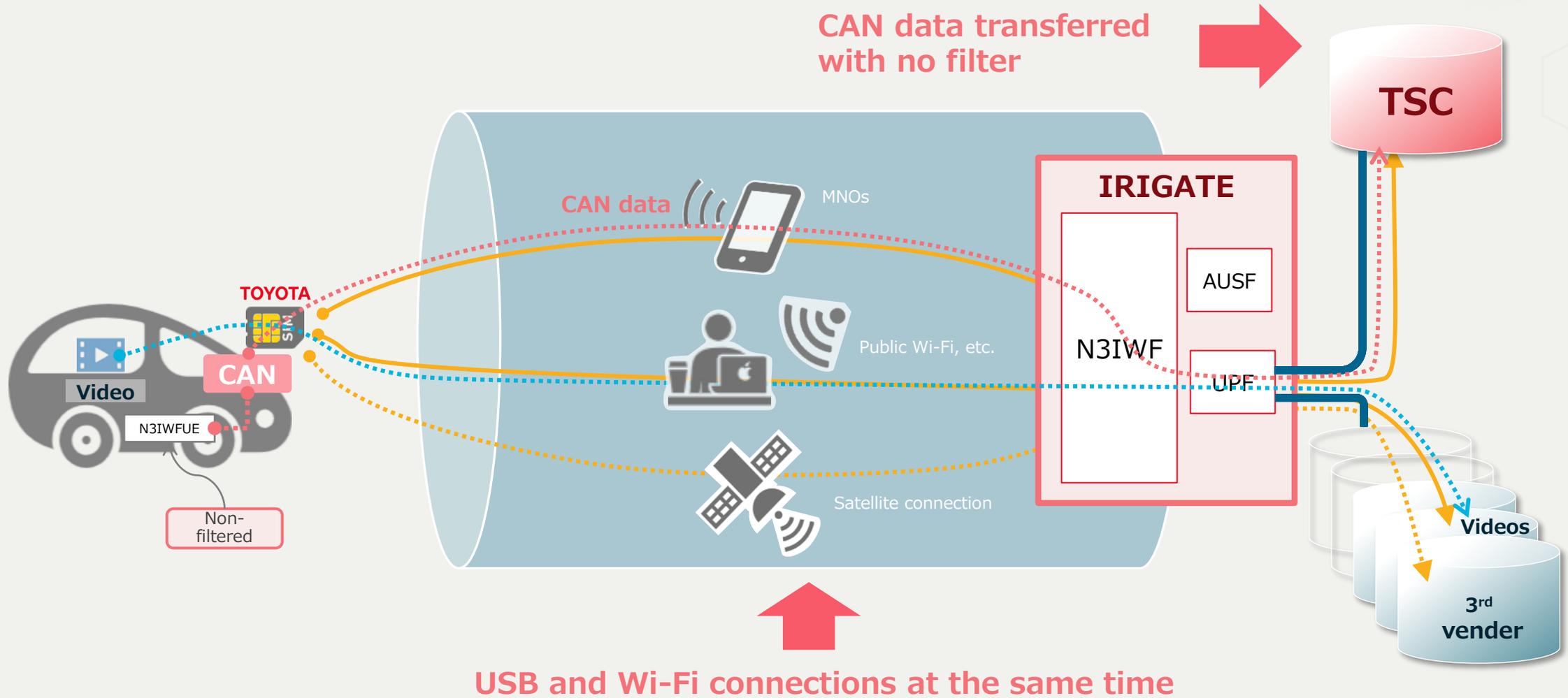
A system that centrally manages the connection between the vehicle and the cloud by placing a **SIM on the vehicle side** and **cellular infrastructure (5GC) on the cloud side**, and by independently building and operating both.



What IRIGATE can do?

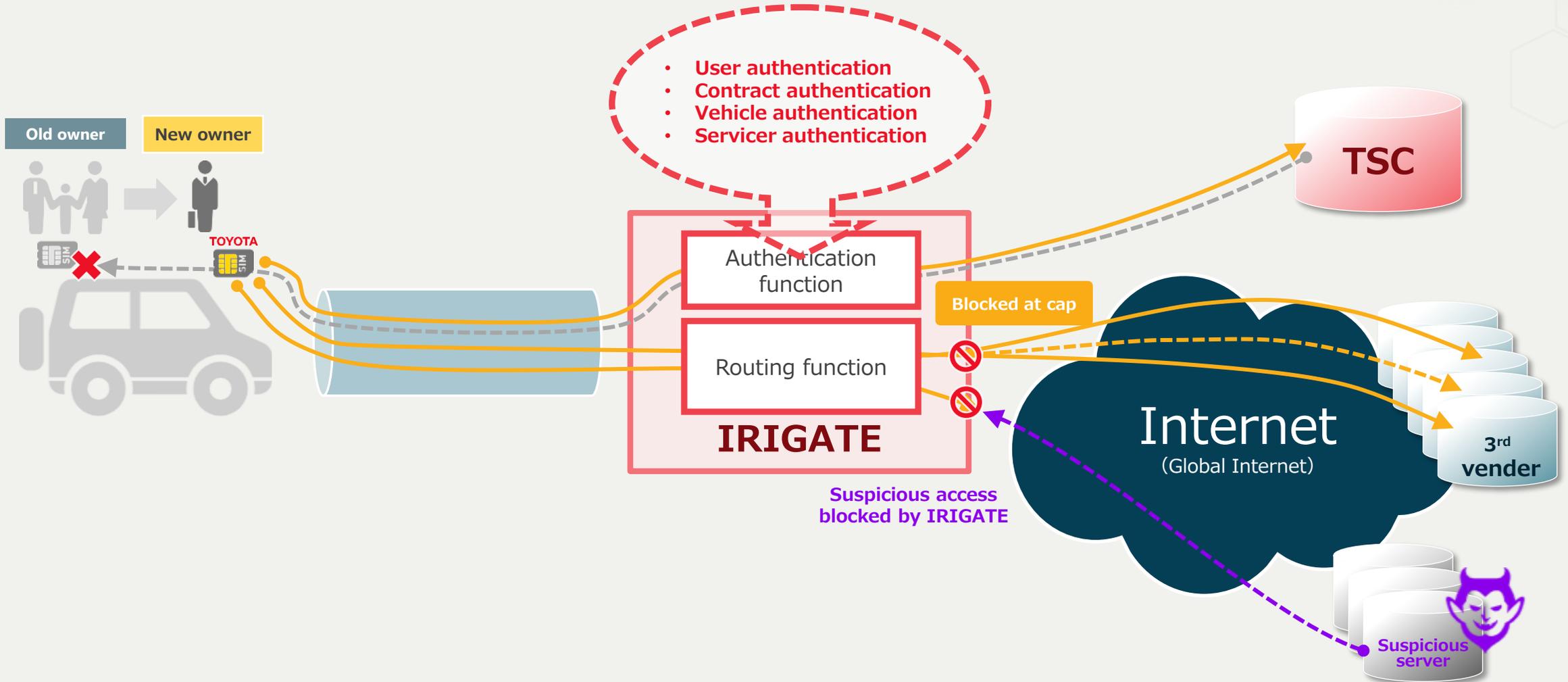


Two simultaneous connections (CAN and video)

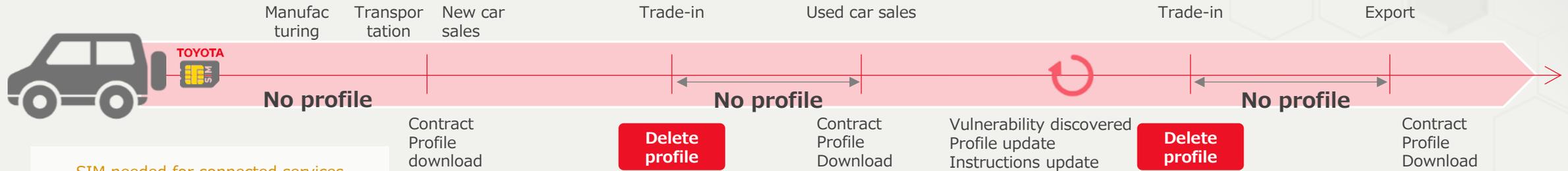


Same control as telecom carriers based on SIM

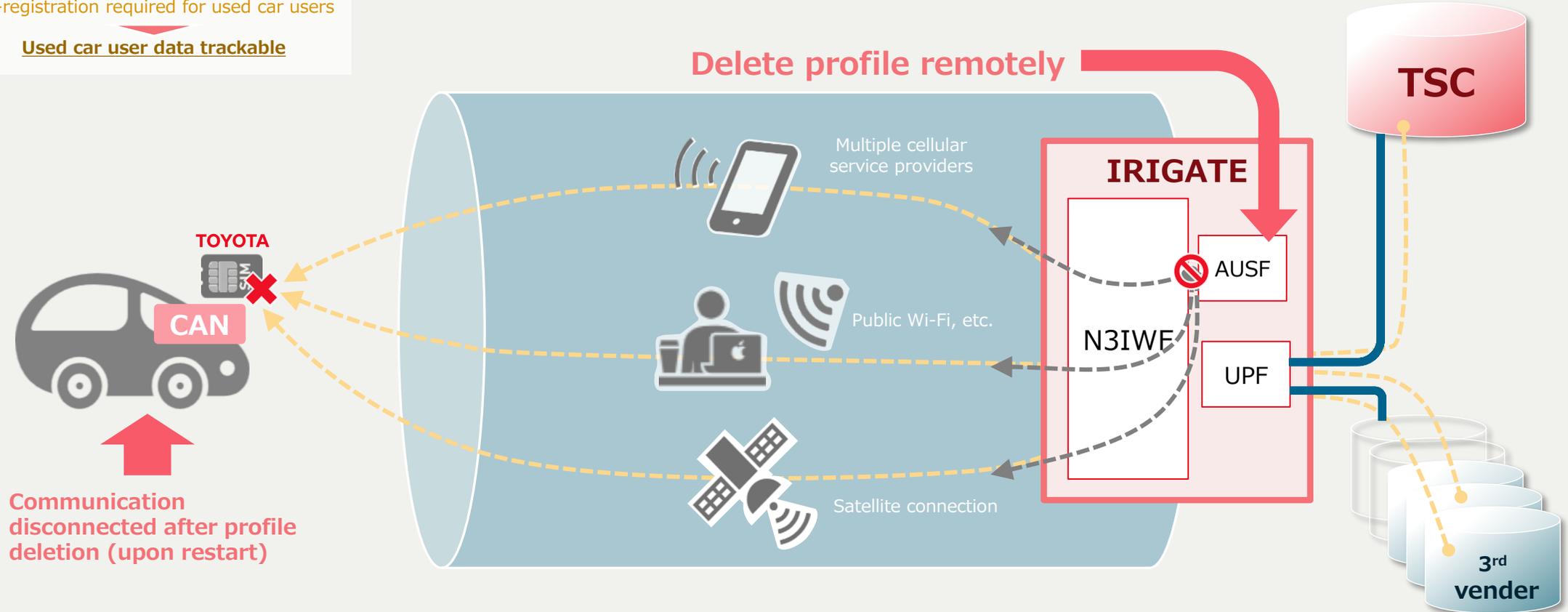
Various SIM-based authentication possible



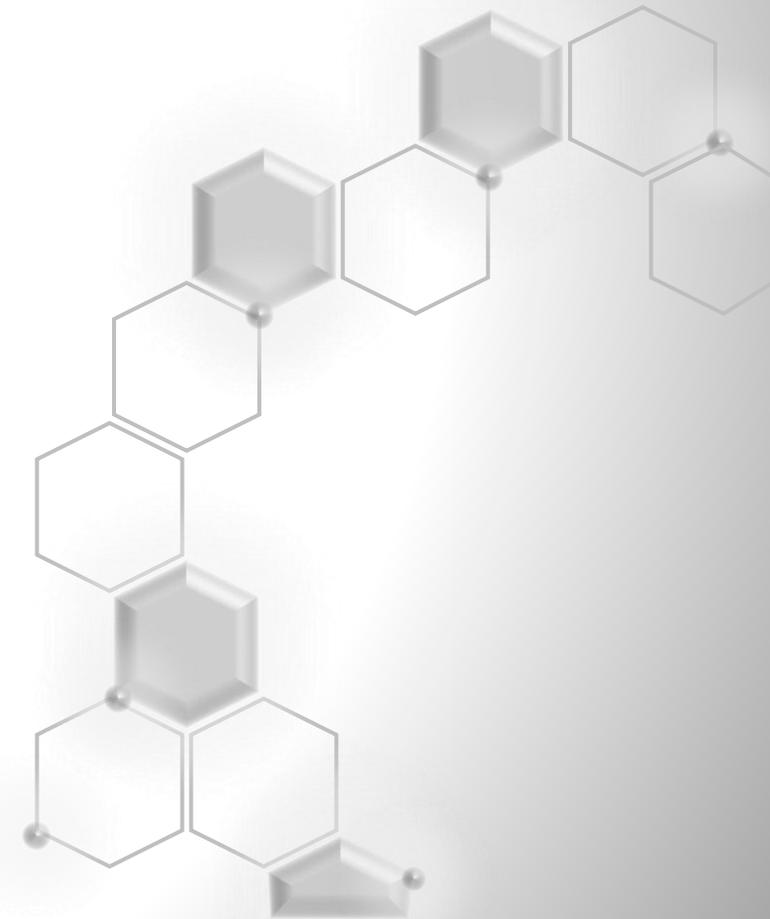
Remote profile deletion (Trace users)



SIM needed for connected services
 Re-registration required for used car users
Used car user data trackable



Lifecycle

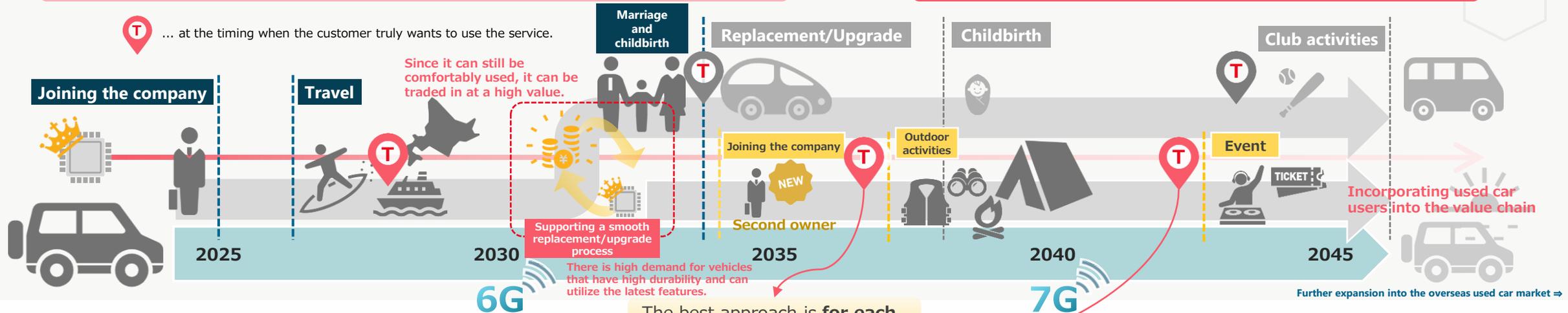


Car lifecycle - 20-year service continuity

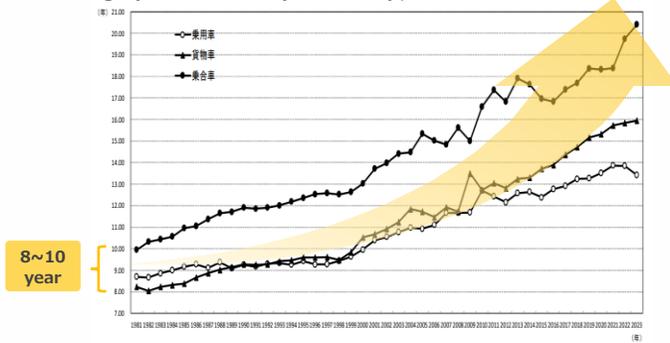
Presupposition: The lifecycle of cars is long compared to the speed of technological innovation in the ICT industry.

The new car buyers incur initial costs of embedded features in the vehicle even if they do not use them.

Can avoid the mismatch of new car users paying for unused features.



Average years of use by vehicle type trend table (Reiwa 5th year)



* Automobile Inspection & Registration Information Association
[The Trends in Vehicle Ownership in Japan](#)

In the Japanese market, there is a growing trend of exporting used cars **to overseas markets**, where they are **further utilized for extended periods**.

The ability to adapt to changes in usage areas or sunset is the key to providing stable and continuous services.