

Web-based validation roadmap

Defining pre and post-SOP applications of connected services for a mobility supplier



Quick overview

The client's aim was to analyze and describe current and future pre-SOP (reducing validation time in product development) and post-SOP (product-specific monitoring during in-field usage) needs for connected services to define its web-based validation offerings strategy. The engagement's focus was at commercial, construction, and agricultural vehicle needs in India and China

Client success details

The engagement helped the client define a strategic roadmap for offering pre and post-SOP applications of connected services. Following overarching business, questions were answered through the engagement –



The automotive industry is focusing on new opportunities arising from digital trends. It is essential to understand their impact”

- What are the web-based validation solutions in India and China for Commercial (>6to) & construction and agriculture vehicles
- What are the technical needs of pre-SOP and post-SOP applications, including assessment of availability and bottlenecks for implementation



FutureBridge conducted extensive primary and secondary research across OEMs, suppliers, data service providers, connectivity solution providers, validation & engineering consulting services. The output included

- State of the art of current applications
- Solution Architecture
- Driving & Limiting Factors
- Market adoption trends and competitor trends
- Value chain structure for available solutions

| Players | Key Products | Web-Based Validation Solutions Across Value Chain and Applications |
|------------------------------|---|--|
| Connectivity Units providers | Controllers/ Control Units Trailer Connectivity Unit | Web-based validation can be used as a single tool for end to end functional testing of components used across applications by various players in the value chain. This includes validation of devices, communication, cloud, analytics engine, web application, and device application as well as end to end system testing. |
| Fleet Management Providers | Rugged Interface V2X connectivity | Intelligent Devices Connectivity IoT Platform Enterprise System Applications |
| Data Management Providers | Advanced Connectivity (Ethernet/CAN Switch) | Device Interoperability Testing Performance and Load testing Security and Data Privacy Testing API Testing User Experience Testing |
| Vehicle Systems Providers | Exhaust Systems Powertrain Systems | Physical Testing (Real World) Cloud/Web Factory/Office Floor |
| Others | | In-vehicle Data Logger Validation Platforms Testing & Validation |

Note: These are not exhaustive list of products

FutureBridge analyzed the primary and secondary research findings to find attractive solutions that the client can offer for web-based validation

The engagement has helped the client to define their future roadmap for web-based validation solutions in India and China for the commercial, construction, and agriculture vehicle segment

About FutureBridge

FutureBridge tracks and advises on the future of industries from a 1-to-25 year perspective.

We keep you ahead on the technology curve, propel your growth, identify new opportunities, markets and business models, answer your unknowns, and facilitate best-fit solutions and partnerships using our platforms, programs, and access to global ecosystems and players.