

Nupeak Neurons



AIoT Solution for Connected Vehicles



Team introduction

Team Name	Nupeak Neurons
Track	Manufacturing
Use Case	Connected Vehicle Analytics
Technology	AI + IoT
Region	India
Team lead	Dipen Shah



Team Members



Dipen Shah



Viral Trivedi



Kashish Jain



Ajay Vemula



Akash Kaingade



Akshay Solanki





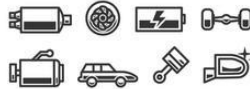
Have you ever suffered due to your car breaking down in the middle of a journey?



Would it have helped if you could have known about it in advance?



Connected cars collect data from sensors



Related to the health status of different parts



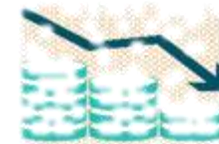
Analytics and Machine learning algorithm, based on the health status of different parts



Advantages



Predictive maintenance



Cost reduction



Inventory reduction



Spare-part life increases



Machine fault reduction





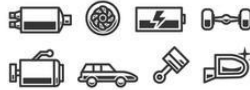
Have you ever suffered due to your car breaking down in the middle of a journey?



Would it have helped if you could have known about it in advance?



Connected cars collect data from sensors



Related to the health status of different parts



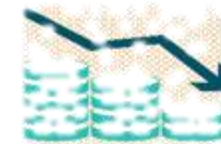
Analytics and Machine learning algorithm, based on the health status of different parts



Advantages



Predictive maintenance



Cost reduction



Inventory reduction



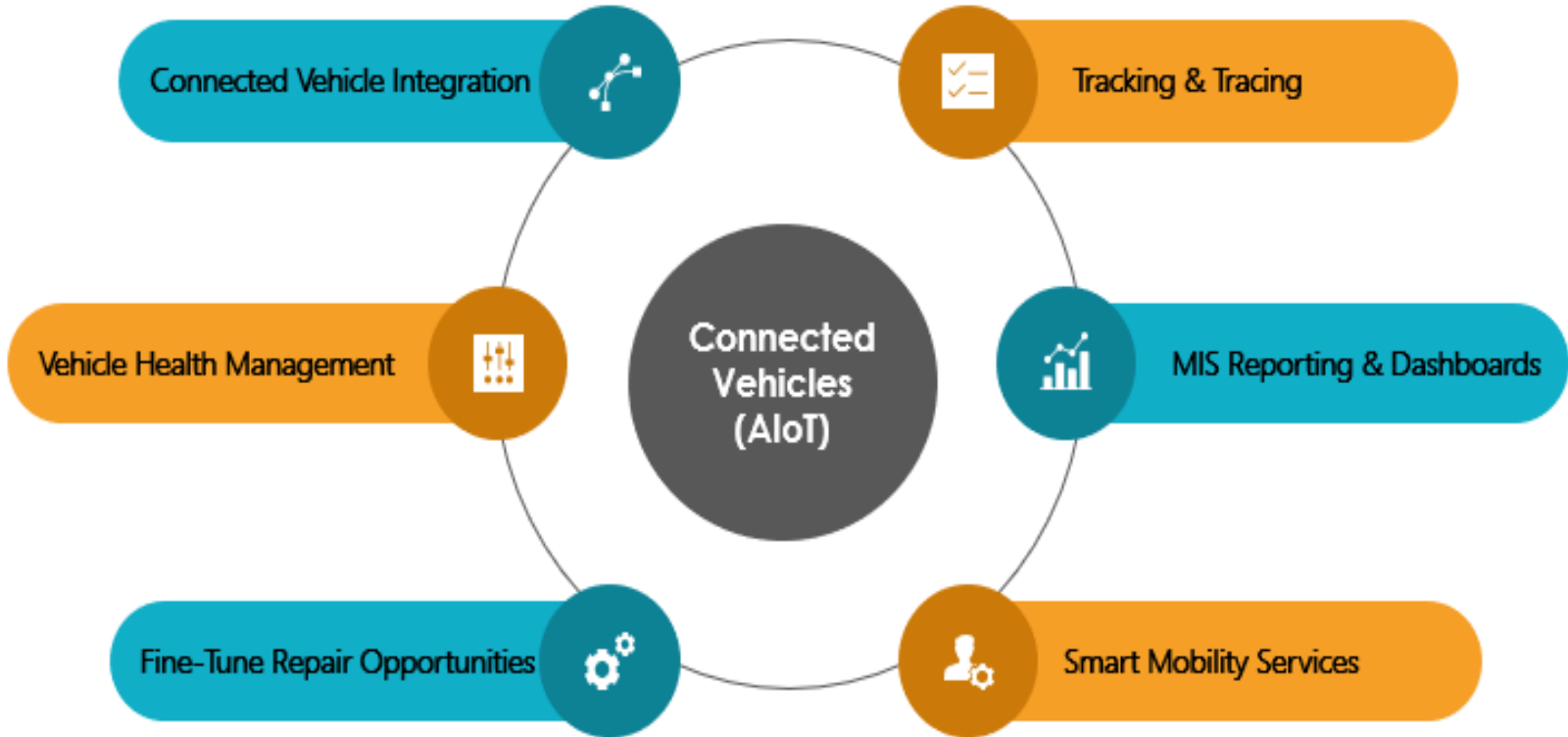
Spare-part life increases



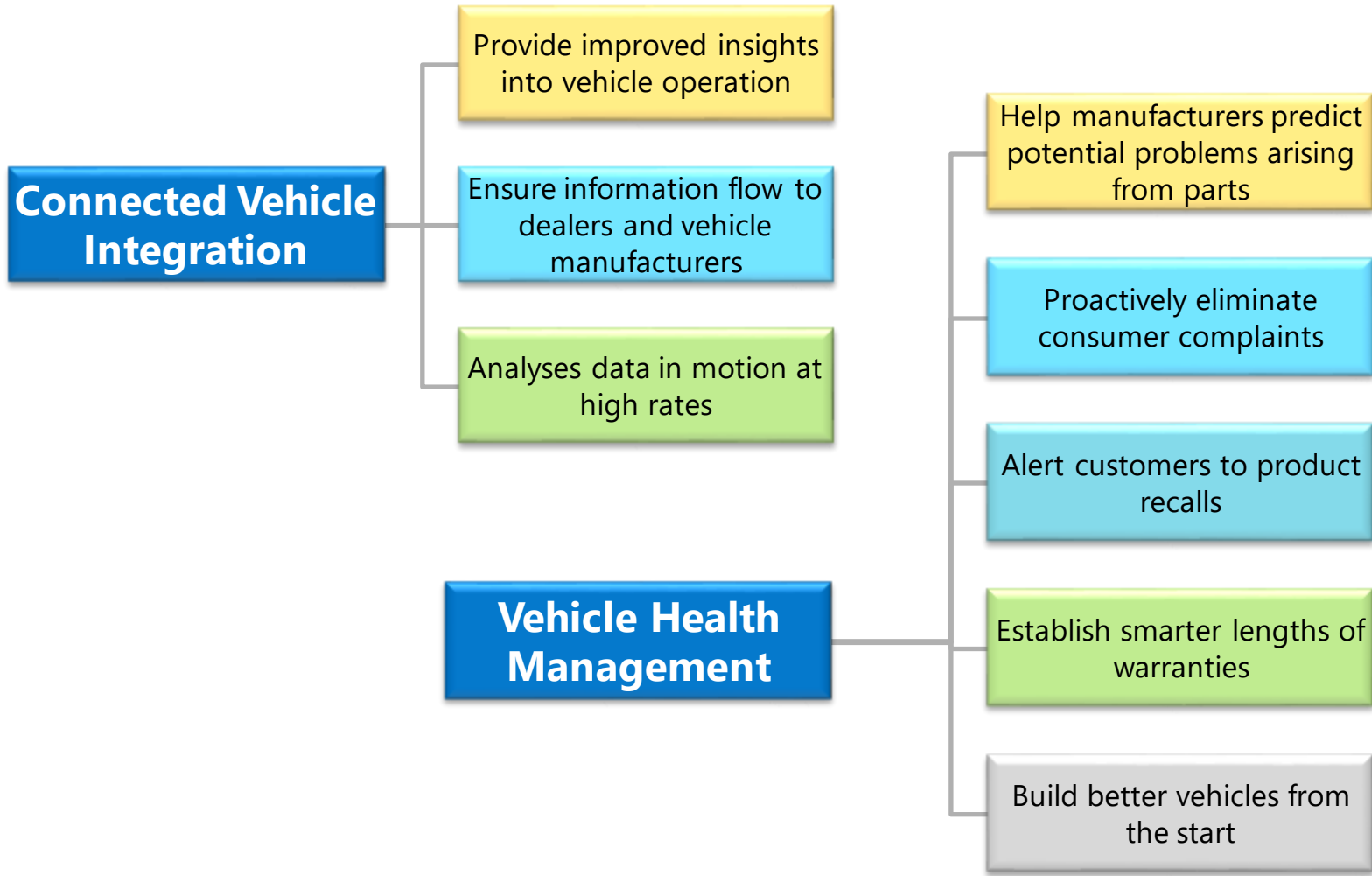
Machine fault reduction



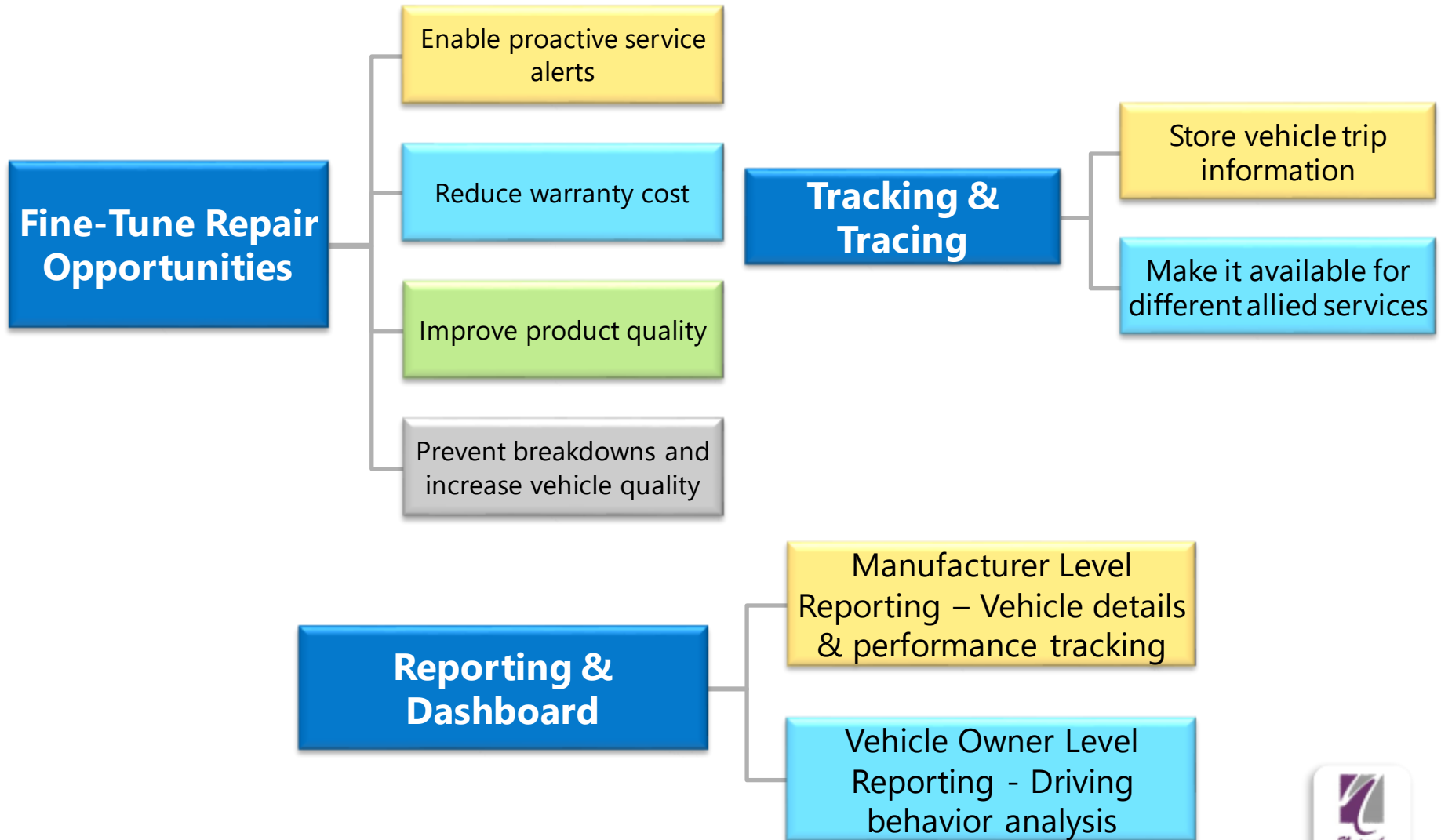
Use Cases



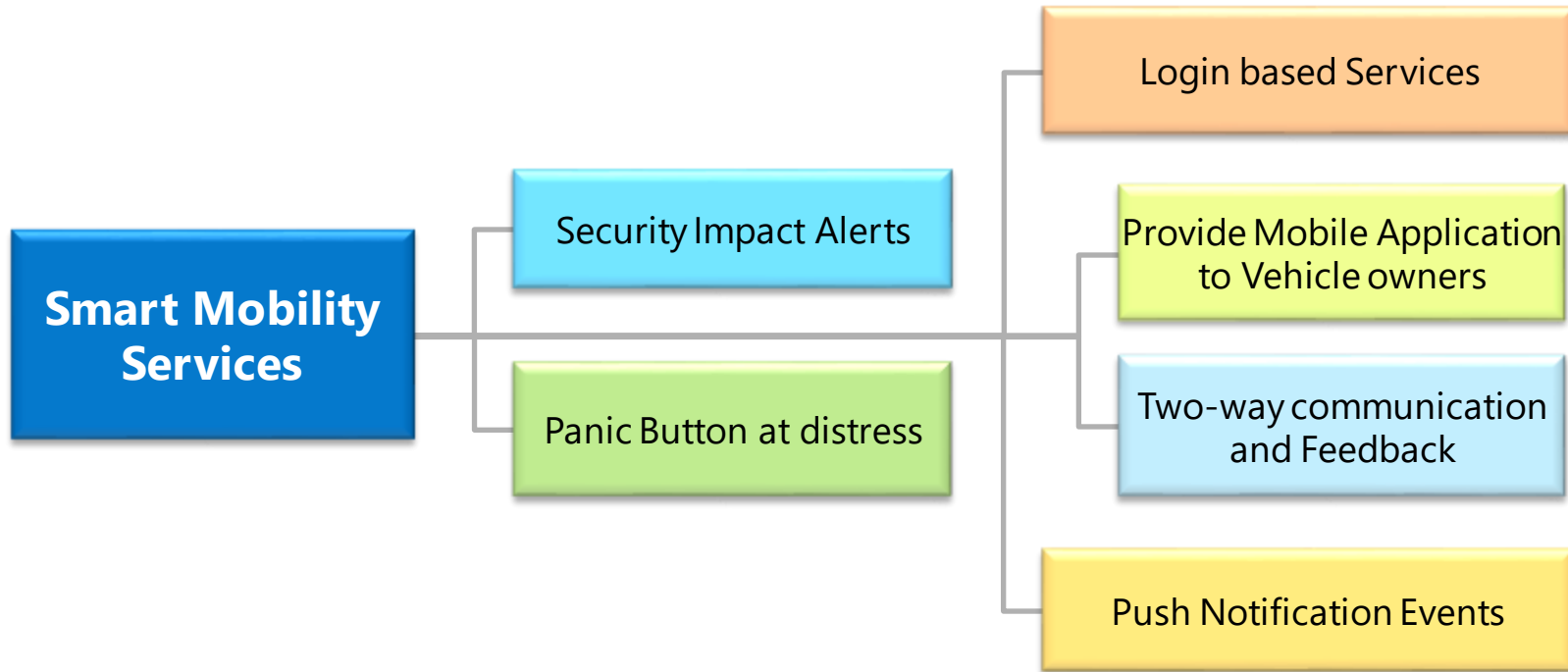
Use Cases



Use Cases



Use Cases



Intersection Capabilities

Connected Vehicle Services

- Enhance Quality & Reliability
- Improve Safety & Security
- Deliver Richer Consumer Experience
- Optimize Dealer operations

Analytics

Influence decisions based on:

- Vehicle Health Analytics
- Understanding Customer Preferences
- Cross-Selling Opportunities
- Geofencing

Mobility

Enable Driver Experience by providing:

- Trip Information
- Tailored Driver Experience
- Get a longer Vehicle Life
- Before time Impact Alerts & Notifications

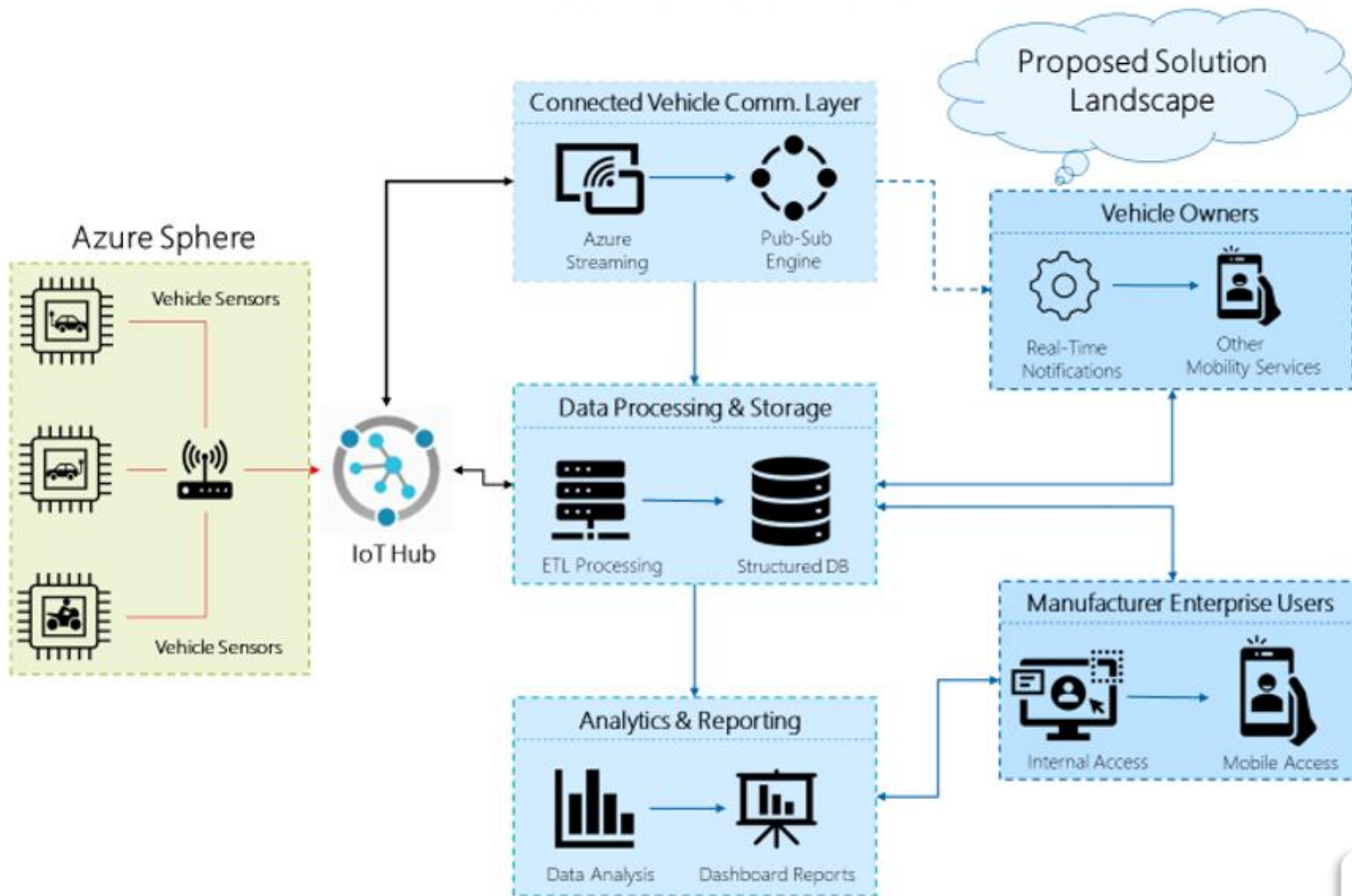


Tools

- OBD2 Adaptor**
- MS Azure Cloud**
- MS Azure SQL**
- SAS VIYA 3.5 / 2020.1.2**
- SAS Visual Data Mining & Machine Learning (SAS VDMML)**
- SAS Event Stream Processing (SAS ESP) (Optional)**



Solution Components



Conclusion

❖ Customer's point of view

- Enhances the experience of AIoT compliant Vehicle
- Improved Vehicle physical health
- Alerts for predictive Maintenance



❖ Manufacturer's point of view

- Increases the Brand Value of Product
- Improves Customer Relationships
- Improves technology and design of Car's model
- Increases revenue from the Product





Thank You





Thank You

