

Image Data Solution as one of key technologies in Fujitsu's Mobility IoT Platform

Jan. 23, 2019 FUJITSU LIMITED

Agenda

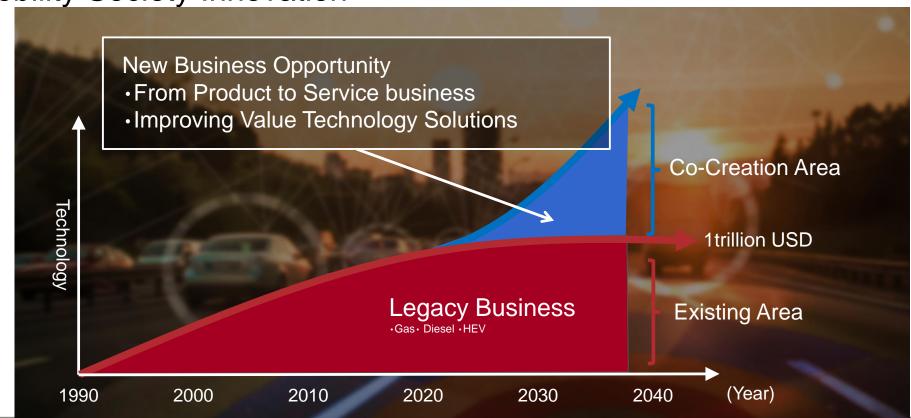


- 1. Brief introduction of Fujitsu's Mobility IoT PF
- 2. Impacts of Connected Car
- 3. Challenges
- 4. Overview
- 5. Solution-1 Image Lightening Library
- 6. Solution-2 Data collecting based on requests

Introduction of Fujitsu's Mobility IoT PF



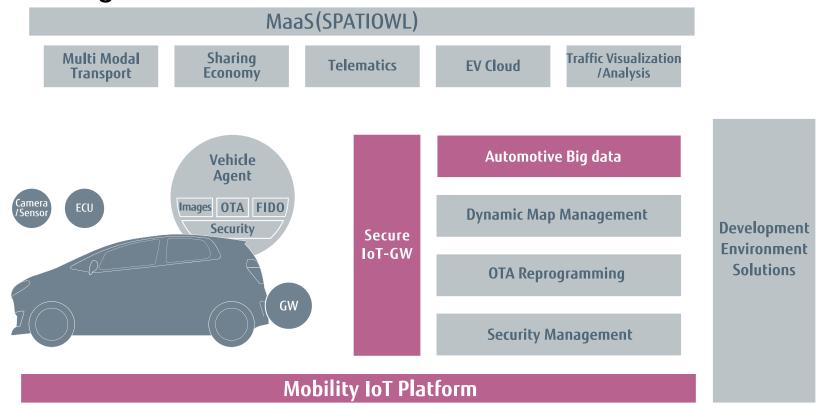
Mobility Society Innovation



Introduction of Fujitsu's Mobility IoT PF (cont'd)



Automotive Big data

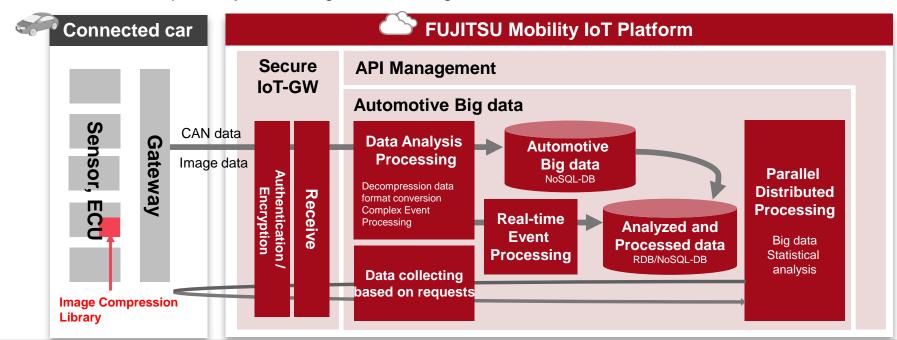


Introduction of Fujitsu's Mobility IoT PF (cont'd)



Big data processing

- Ultra high speed and highly reliable architecture based on in-memory technology supporting mission critical financial systems
- Scalable to explosively increasing amount of big data for automotive



Impacts of Connected Car



Autonomous Driving Development



Driving Scenes

Map Generation



Object Changes

Advanced
Traffic Monitoring



Real-time Traffic Scenes

Insurance



Driving Behavior

Images from Connected Car

Challenges



OPPORTUNITY

New Services Creation

THREAT

Operation Cost Increasing

caused by big data (over half with image data)



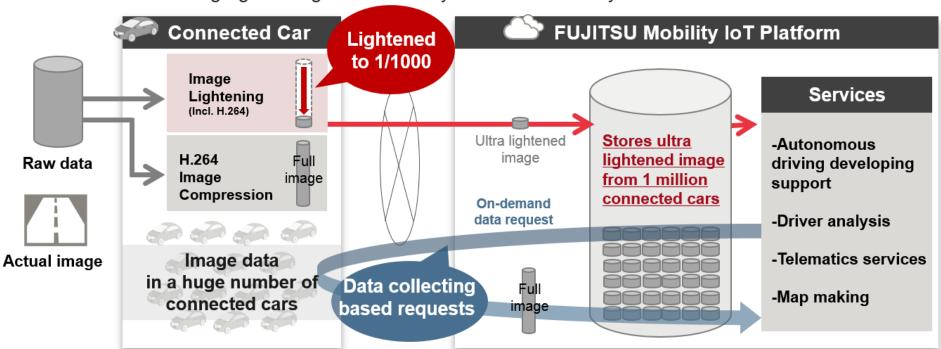
CHALLENGES

Data Lightening
Distribution Management

Overview



- Reducing image data from over 1 million connected cars, managing and analyzing in FUJITSU Mobility IoT Platform
- On-demand full image gathering from In-car system as necessary





Solutions



ASIAN REVIEW

Editor's Picks

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News in open web for this topic: Sep. 22, 2018

https://asia.nikkei.com/Business/Companies/Fujitsu-achieves-1-000-1-image-compression-for-driverless-cars

Fujitsu achieves 1,000-1 image compression for driverless cars

New algorithm to allow real-time analysis of vehicle's surroundings

Nikkei staff writers SEPTEMBER 22, 2018 15:38 JST

























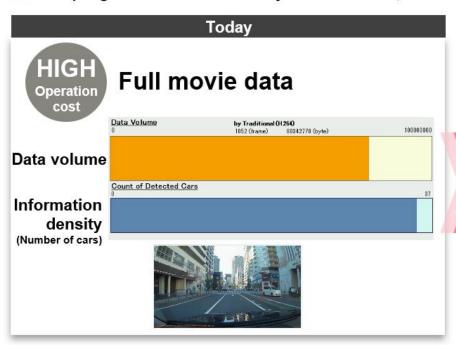
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Image Lightning Library



Keeping the numbers of object detection, realizes dramatic data lightening





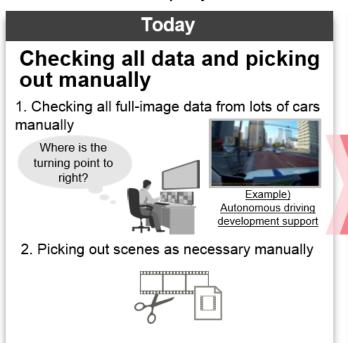
FUJITSU's original technology

Lightning technology for correlativity improvement between frames

Data collecting based on requests



Collects data rapidly from each connected car, and analyzes accurately





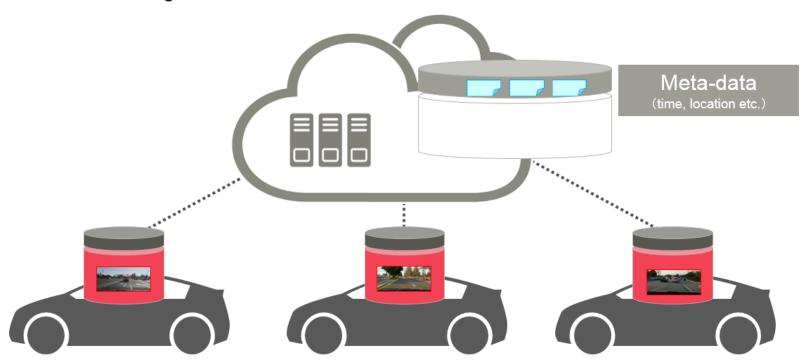
FUJITSU's original technology

On-demand gathering of distributed managed data

Data collecting based on requests (cont'd)



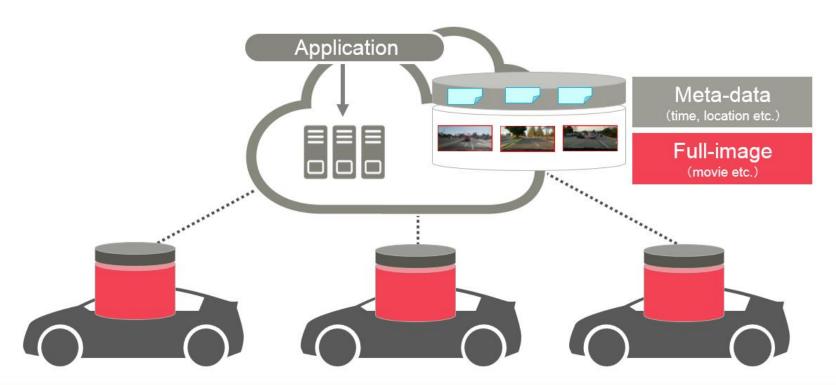
- Keeping heavy data (movies etc.) in vehicles, light meta-data goes to the cloud constantly
 - -> Distribution management Platform



Data collecting based on requests (cont'd)



Full data collecting on demand from application requests





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