PROGRESS IN AV TECHNOLOGY DEVELOPMENT

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AUTOMATED DRIVING GROUP
INTEL CORPORATION
**INCUMBATION** 2006
- R&D Funding
- Test Vehicles Enabling

**INTRODUCTION** 2020
- Public/ Private Test Beds
- Data Collection & Standards
- Industry Alignment across Sectors
- City/State Infrastructure Planning & Enabling

**GROWTH**
- Workforce Development
- Subsidies & Incentives

**MATUREITY** 2030
- City/State Transportation
- Industry Alignment across Sectors
- Data Collection & Standards
- Public/ Private Test Beds
VEHICLE TAM VS COMPUTE TAM

~125 Million Units

Source: IHS
VEHICLE TAM VS COMPUTE TAM

~125 Million Units

Source: IHS, Intel

450M Tflops
300M Tflops
DATA DRIVEN INDUSTRIES

PC Industry
• First personal computer 1975
• By 1980 over 100 incompatible brands
• 1981 IBM release first PC with off the shelf hardware and 3rd party software
• 1982 first of the “clones” created by Compaq
• 1984 2M PC’s sold

Server Industry
• Early 1990’s microcomputers filled old mainframe rooms as “servers”
• Mid 1990’s dot com surge, resulting in enterprise server rooms
• Early 2010’s cloud services increases opportunity for more data

Common building blocks standards allowed for greater pace of innovation
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ACCELERATE AUTONOMOUS DRIVING
WITH STRONG PARTNERS AND COLLABORATION OPPORTUNITIES

ACCELERATE TIME TO MARKET BY LEVERAGING A STATE-OF-THE-ART PLATFORM ALREADY IN DEVELOPMENT FOR 2021

NEW PARTNERS CAN CONTRIBUTE THEIR COMPETENCIES

REDUCE COMPLEXITY THROUGH STANDARDIZED INTERFACES THAT ENABLES INTEROPERABILITY OF SENSORS AND COMPONENTS.

OPPORTUNITY TO BENEFIT FROM STATE-OF-THE-ART PLATFORM, WHILE HAVING ABILITY TO DIFFERENTIATE THROUGH INDIVIDUAL SOLUTIONS

NON-EXCLUSIVE PLATFORM AIMS FOR COST SHARING AMONGST ALL PARTNERS
CONTINUING TO MAKE PROGRESS:

- Data driven industries have seen significant acceleration when standards were implemented
- Industry collaboration is required to deliver and accelerate this industry
- The industry has the ability to use technology to save lives