Flash-Based Edge Computing Systems for IoT

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IoT Brings Challenges that Require Flash

- **In Technology, by 2020**
  - **25 Billion Smart Devices**
  - **50 Million PB of Data**

- **Can you Move the Data?**

- **What Does Such a System Look Like?**

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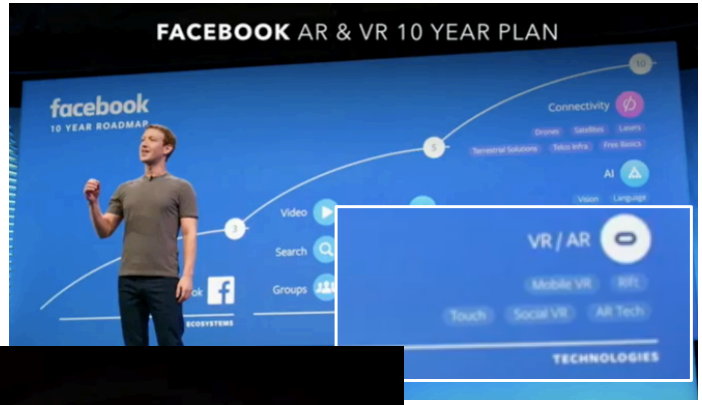
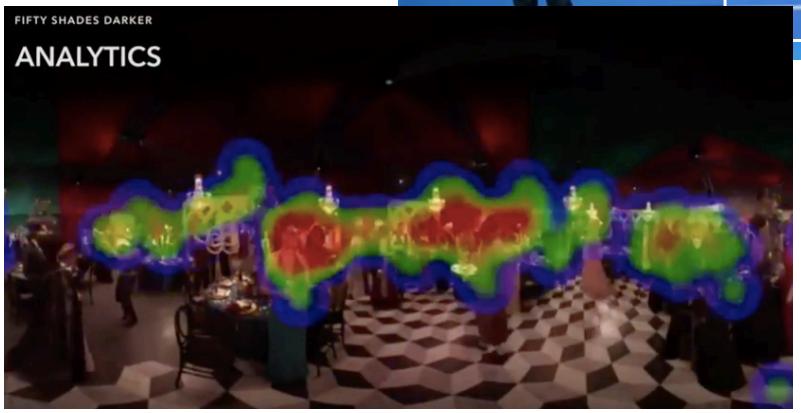
What is the Opportunity for Flash Providers?

- Today, Sensors Anaylze Environments
- Some Sensors Store a Bit of Data
- Self-Driving Cars, Augmented Reality and Virtual Reality Change the Game
- How Much Data Needs to be Stored?
  - 4 TB/day/car
  - 37 GB/hr 4k Video/ per Camera





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Atsuhiro Kinoshita

Dr. Kinoshita is the Project Lead for Toshiba's Flashmatrix edge computing converged architecture. He is also its original inventor and its chief system and solution architect. He has worked on multiple generations of NAND flash processes, as well as CMOS devices, FPGAs, and content addressable SSDs. He holds 100 US patents and 185 worldwide. He earned a PhD in engineering from Waseda University (Tokyo, Japan).

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