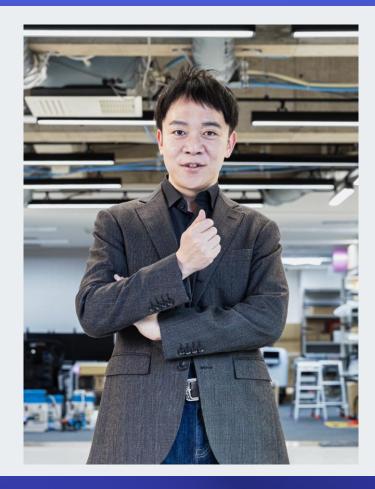
自動運転の民主化

加藤真平

東京大学大学院情報理工学系研究科特任准教授





Shinpei Kato

An internationally renowned expert in computer science, and a pioneer in the evolution of open-source software for autonomous driving technology.

2023 - Present. CEO of TIER IV; Specially Appointed Professor, The University of Tokyo.

2018 - Present. Chairman of The Autoware Foundation.

2016 - 2023. Full-Time Associate Professor in Computer Science, The University of Tokyo.

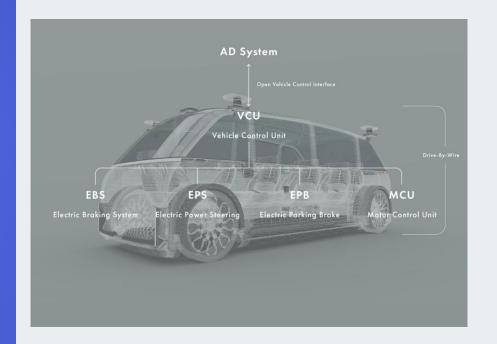
2012 - 2016. Full-Time Associate Professor in Information Science, Nagoya University.

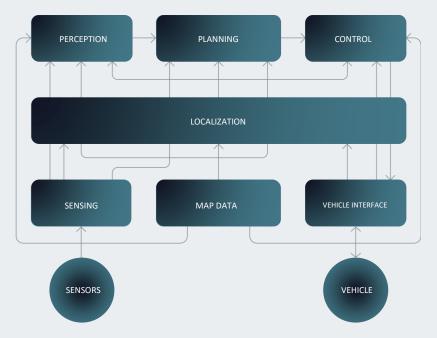
2009 - 2012. Postdoc Researcher, Carnegie Mellon University & University of California, Santa Cruz.

2008. Received Ph.D. in Engineering, Keio University. **1982.** Born.

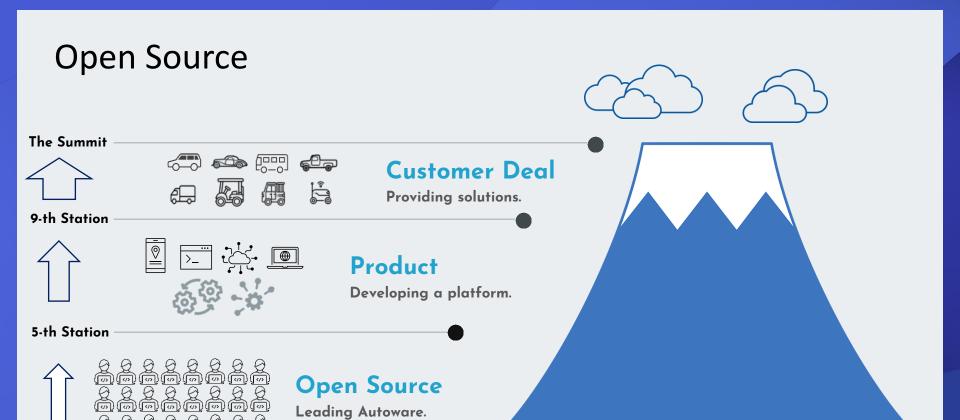
Shinpei Kato ——— 0

Autonomous Driving (AD)

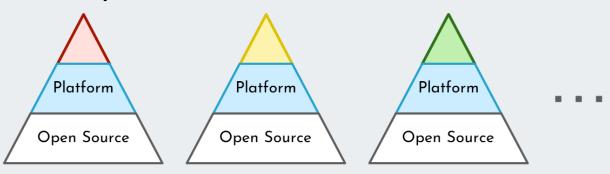




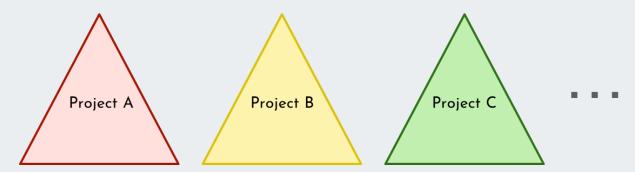
Shinpei Kato — 0



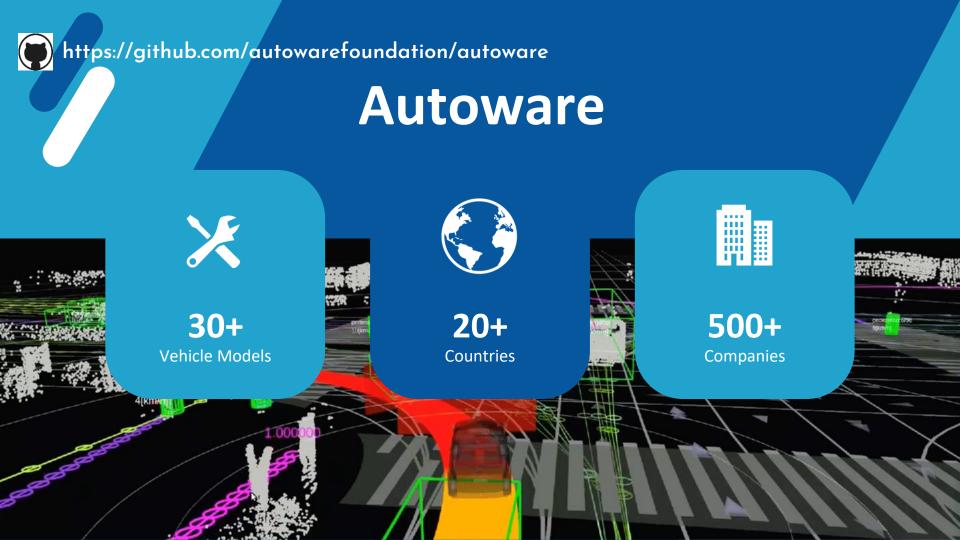
Business Concept

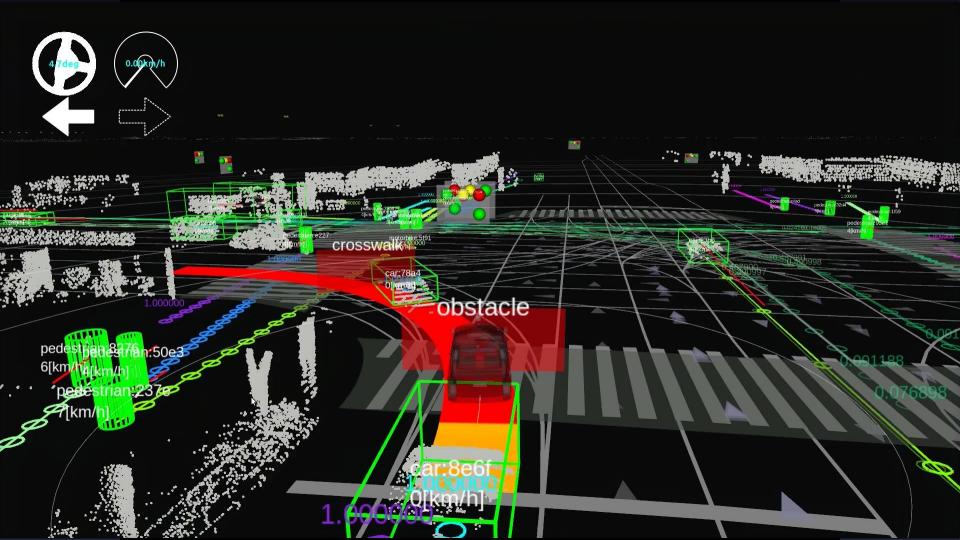


Which is more resource efficient?

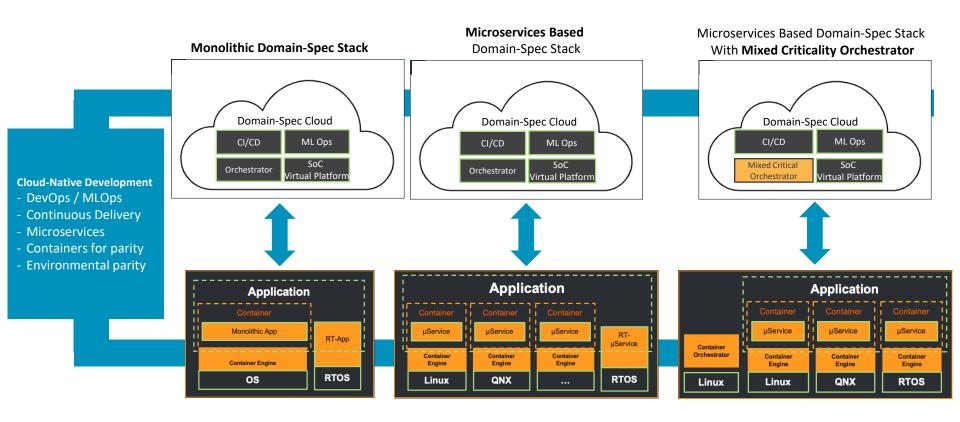


Shinpei Kato ———

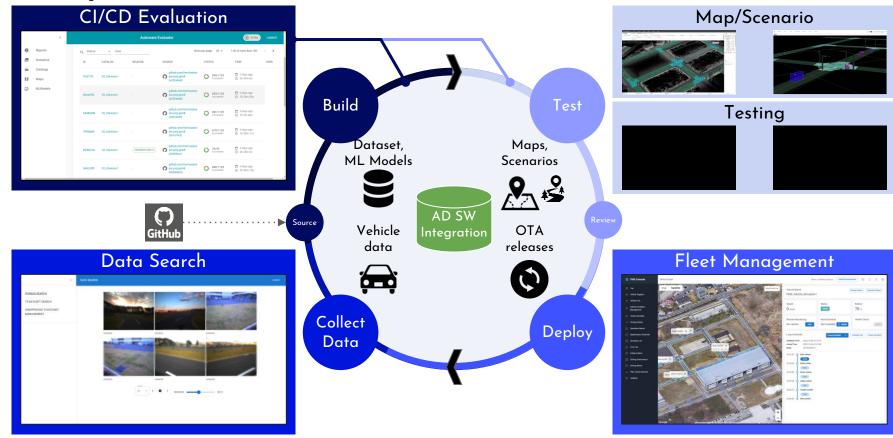


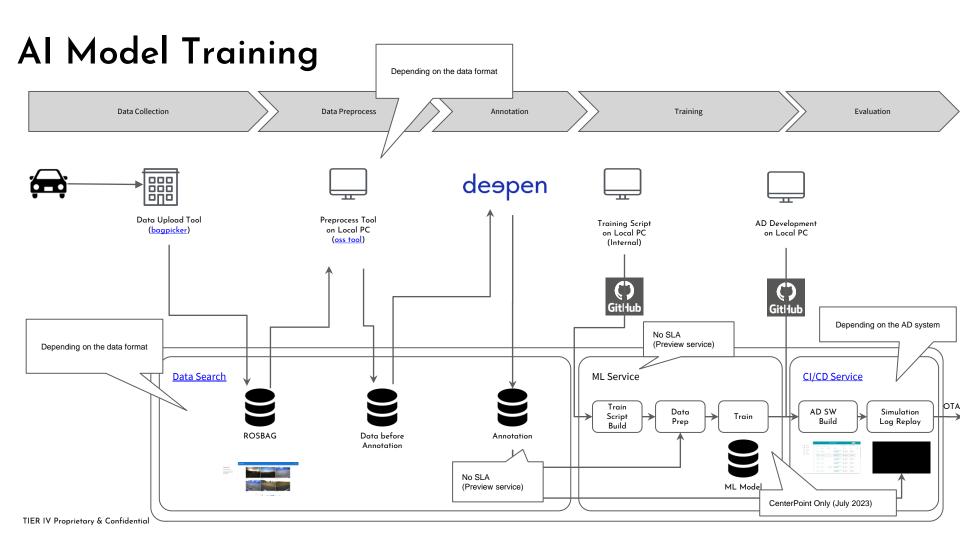


Software-Defined Vehicles Architecture

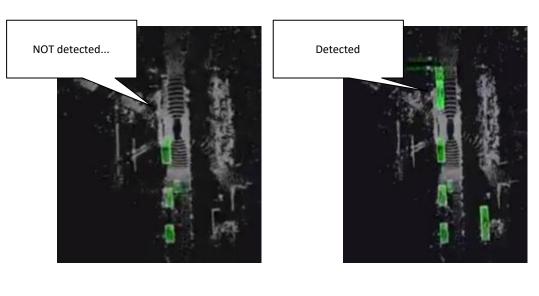


DevOps Framework



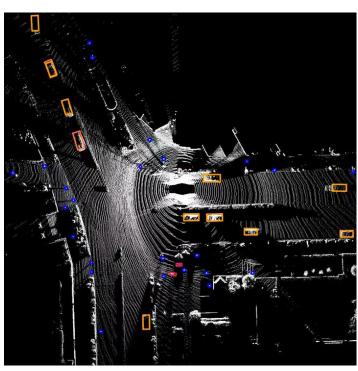


Domain Adaptation Challenges





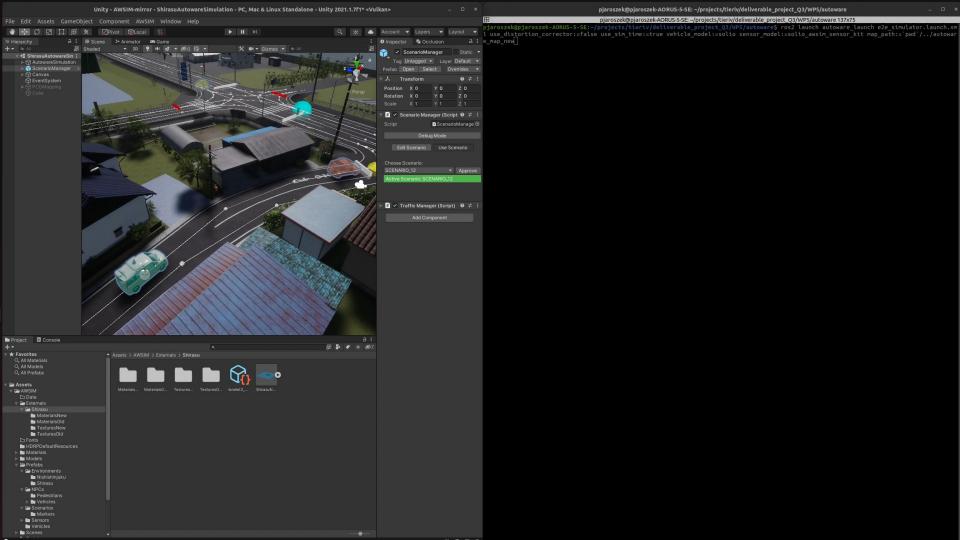
With domain adaptation

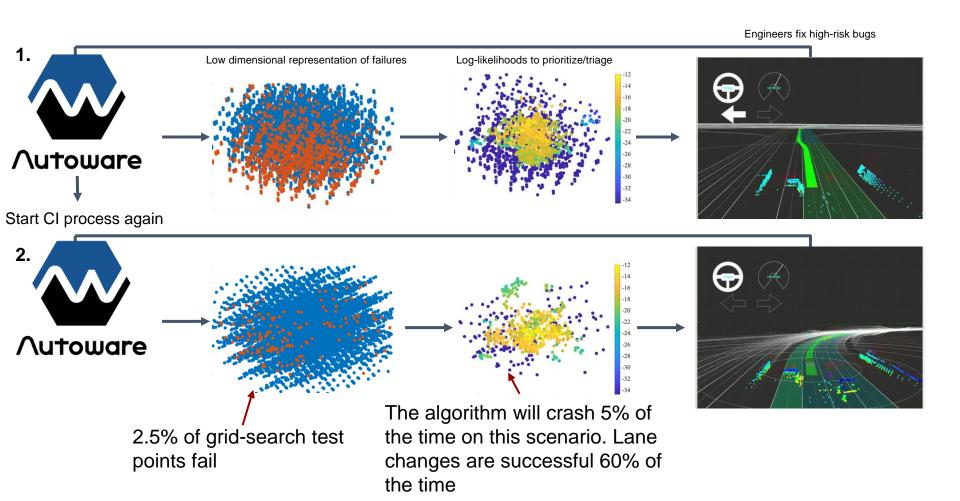


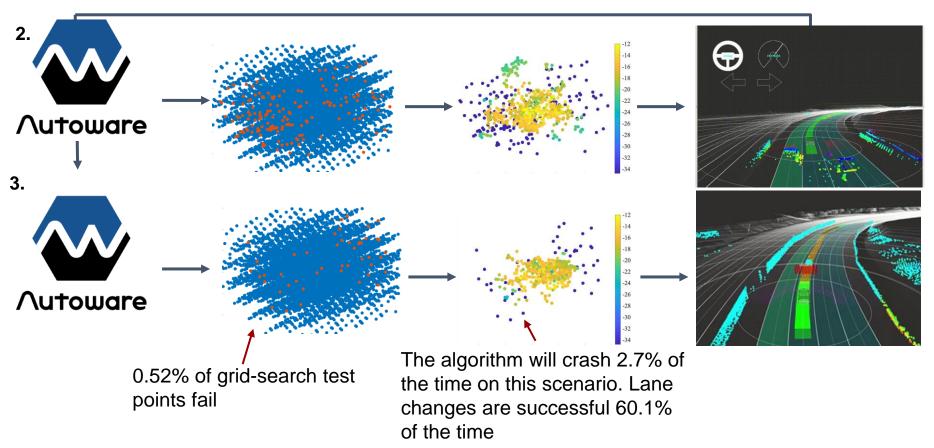
Without domain adaptation



Synthetic Data Generation with







Process Flow to Obtain L4 Operation Permit

Authorized L4 Organization

PPSC*

Local Gov.

- Operation Plan
- T&C Compliances
- Training to operators
- 1 Operation Plan Submission





2 Hearing



Mayor

Administrative disposition when violates the law



- Status monitoring
- In case of incident;
- Reporting Police/ Fire department
- Send personals to incident site for assistances

Remote Monitoring (or safety Operator in vehicle)





Operational Design Domain (ODD)

^{*}都道府県公安委員(PPSC): Prefectural Public Safety Commissioner

THANKS!

