

AD52

Leading & Coaching Teams 4:30 PM

AD52 - What Japanese Shinkansen Trains Can Teach Us about Agile

Presented by:

Matthew Weinstock

Align Technology

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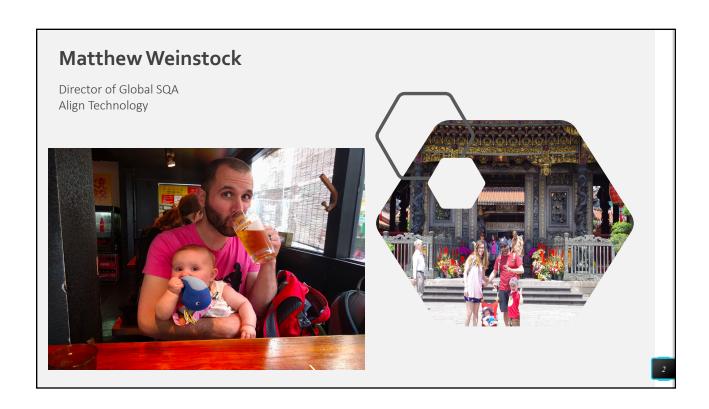


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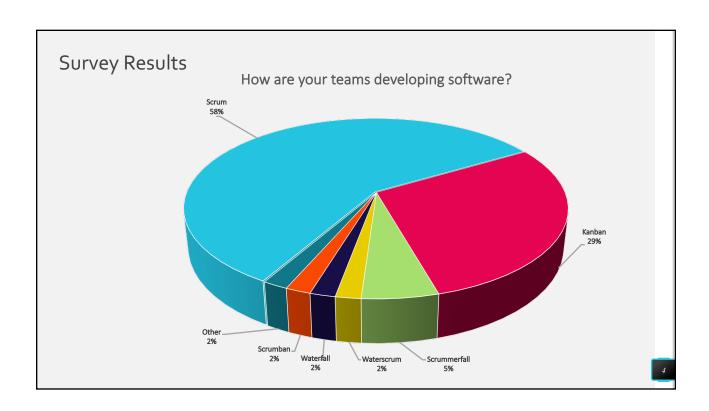
Matthew Weinstock

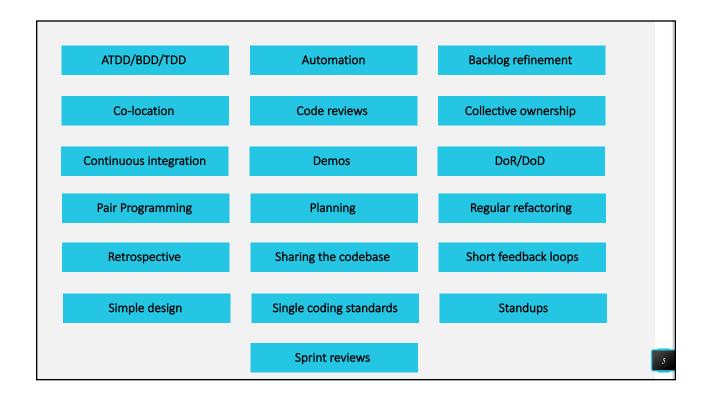
Matthew Weinstock is the director of Global SQA at Align Technology. A developer turned tester, Matt has held various roles in his SQA career, from manual tester to automation engineer to leading global quality teams in large public enterprises, and everything in between. Matt has always been passionate about agile and organizational transformations, never forgetting that people are the keystone to every company's success. Matt is proud to be a mentor and coach, encouraging an agile mindset and building trust throughout his organizations. With this people-centric approach to leadership, he has been able to create opportunities for change within organizations that unleash their true potential. Matt lives in Raleigh, North Carolina, and enjoys spending time with his family, traveling the world, and hiking the great outdoors.

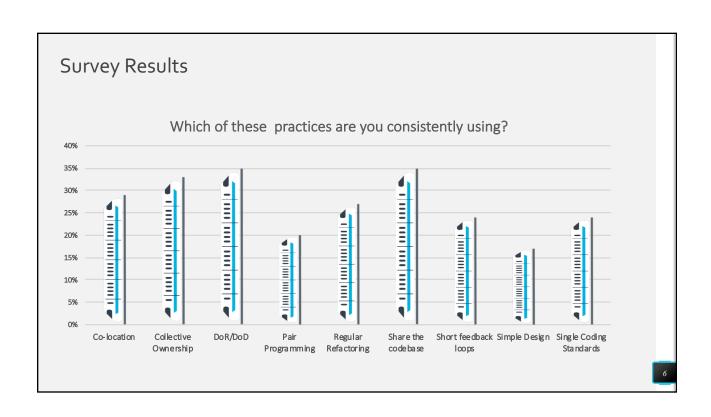


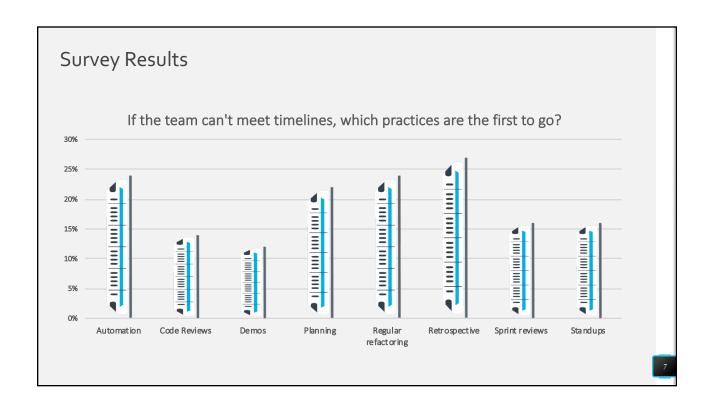






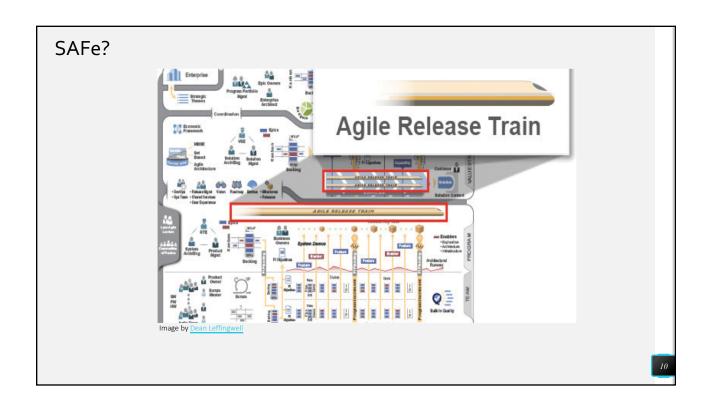




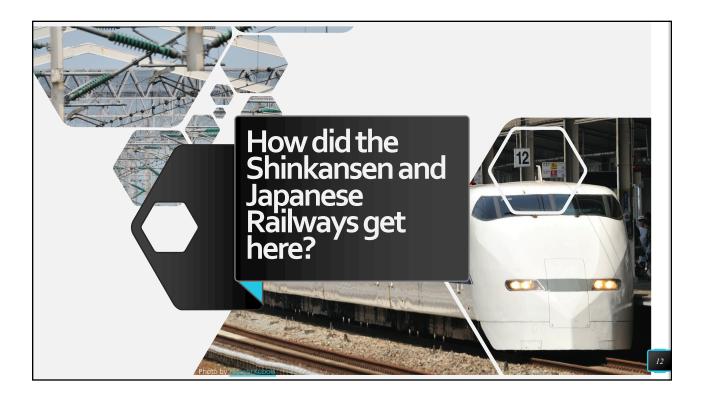


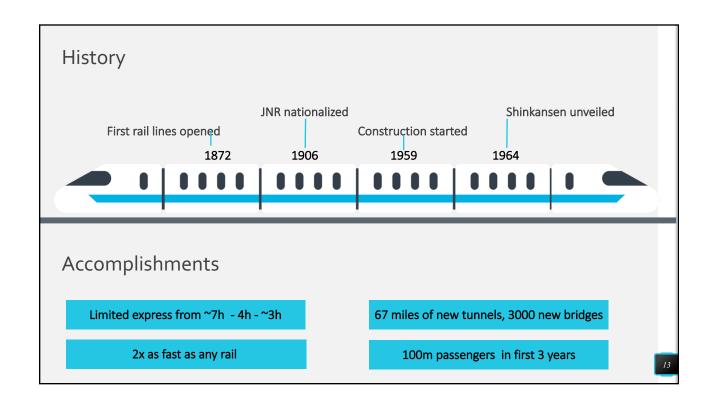


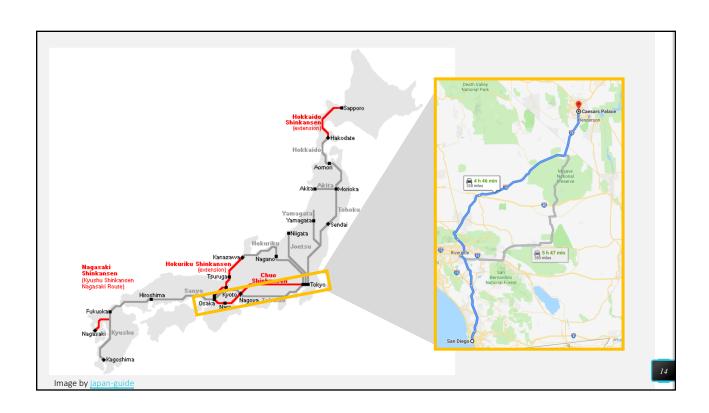


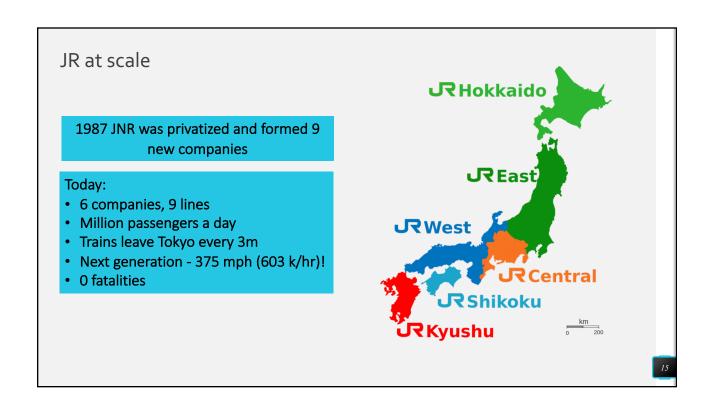






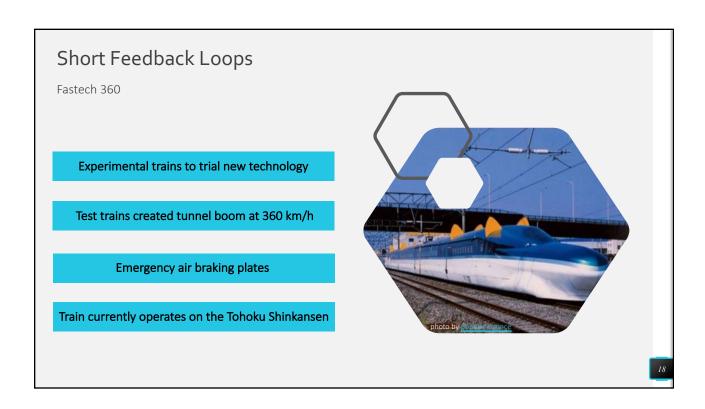


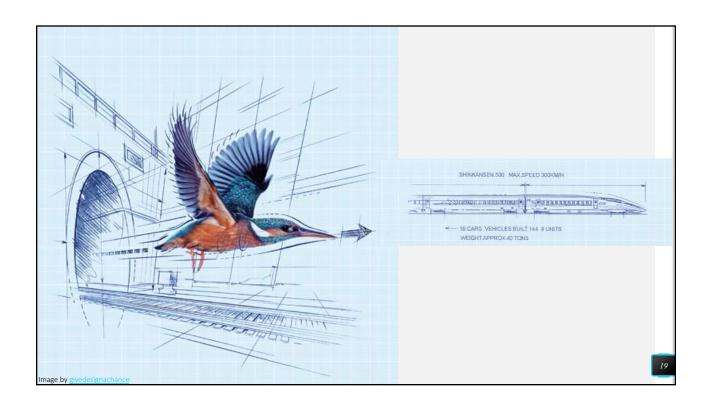


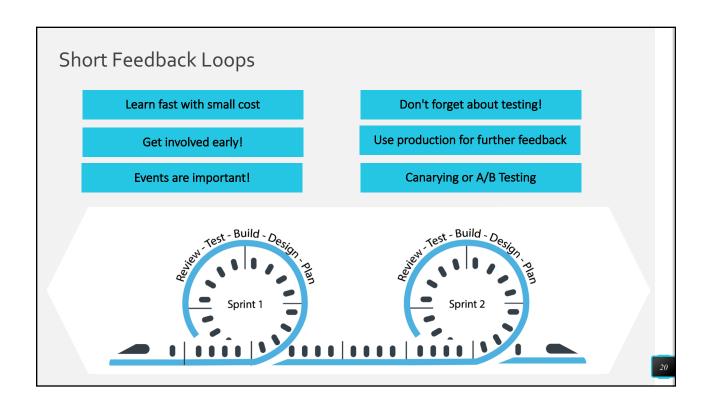




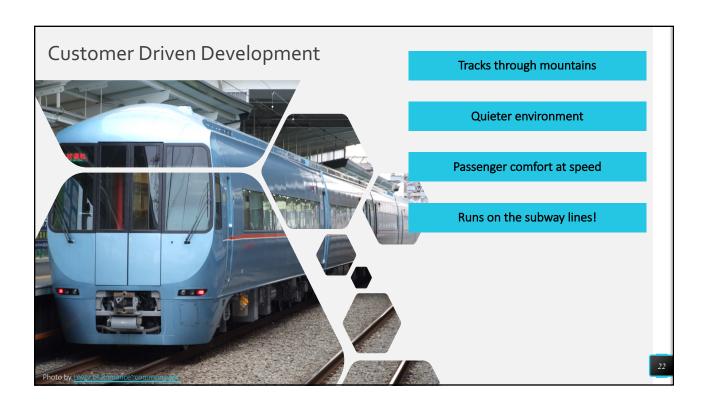
Short Feedback Loops

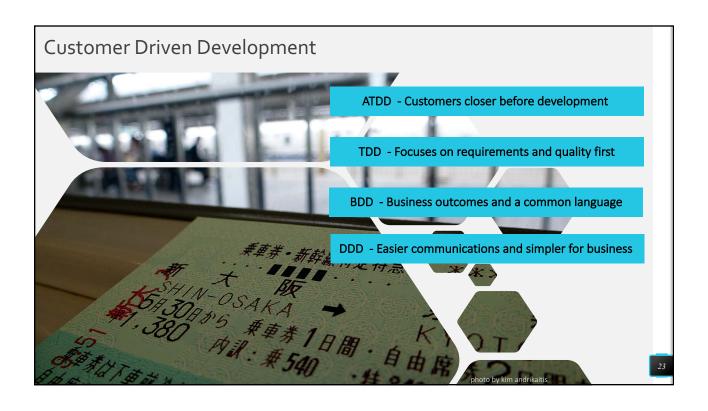






Customer Driven Development

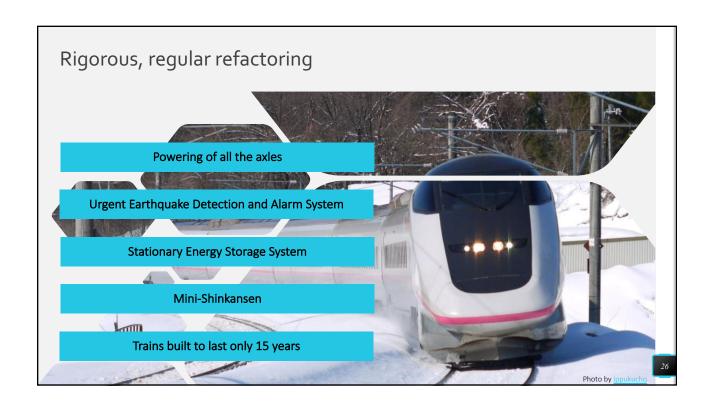


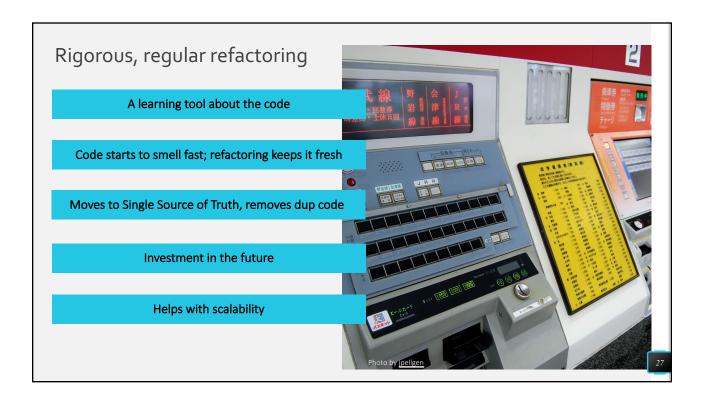


Refactor! Refactor!

"The philosophy has not changed even with the advancement of technology. The brakes and signals have since been digitalized and improved to enable the system to run at higher speeds. As the basic philosophy has not changed since its beginning, we are always able to keep up with technological developments."

- Osamu Onodera Shinkansen Driver





Automate All the Things!



Autonomous Decentralized Transport Operation Control
System (ATOS) for Tokyo center

ATOS directs train drivers through 16x16 lamp matrices

ATC (Automatic Train Control) – no trackside signals

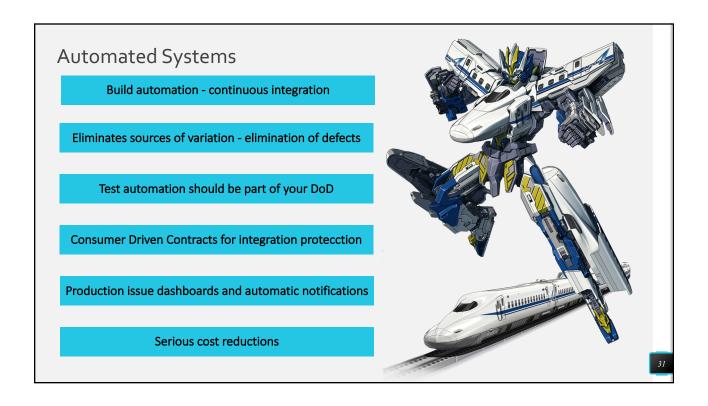


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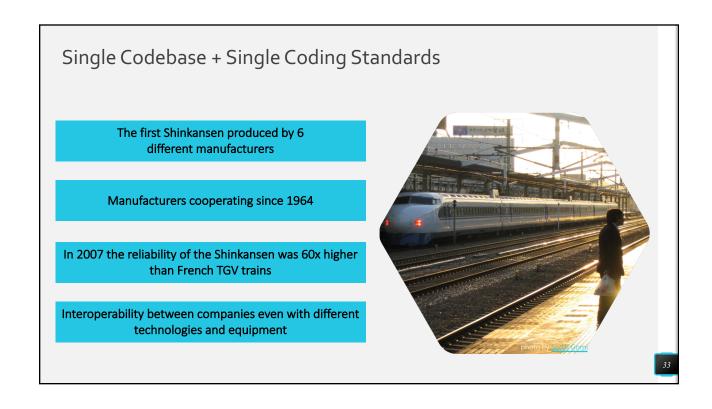
"For example, when the inter-vehicle distance from the front train becomes shorter, the machine automatically performs the actual operations instead of the driver, such as slowing down and bringing the train to a stop, while also displaying the signals on the monitor at the driver's seat."

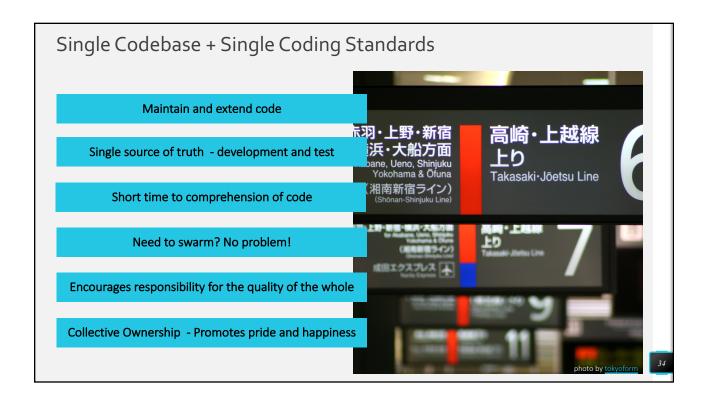
- Yoshiyuki Onda

Railway Operations Headquarters at East Japan Railway Company (JR East)

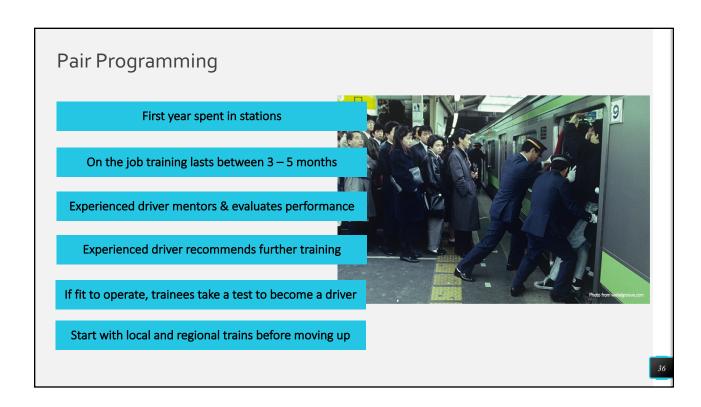


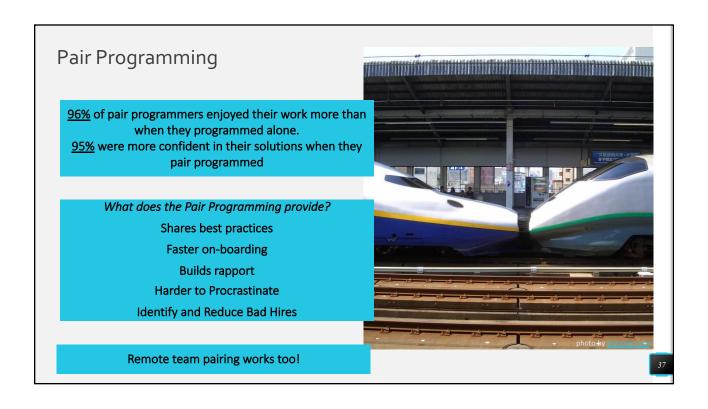
Single Codebases and Single Coding Standards





Pair Programming





Safety is our No. 1 Concern

