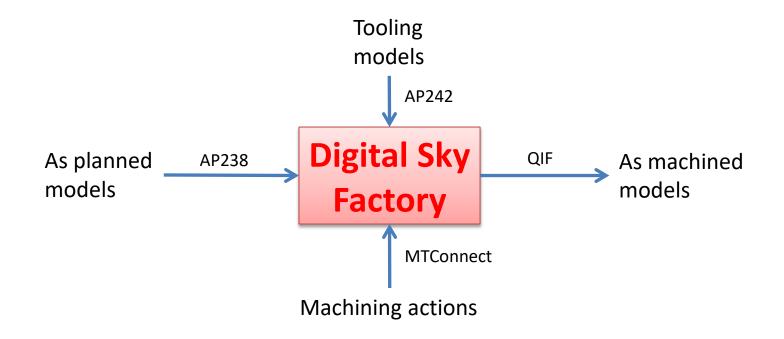
DigitalSkyFactory

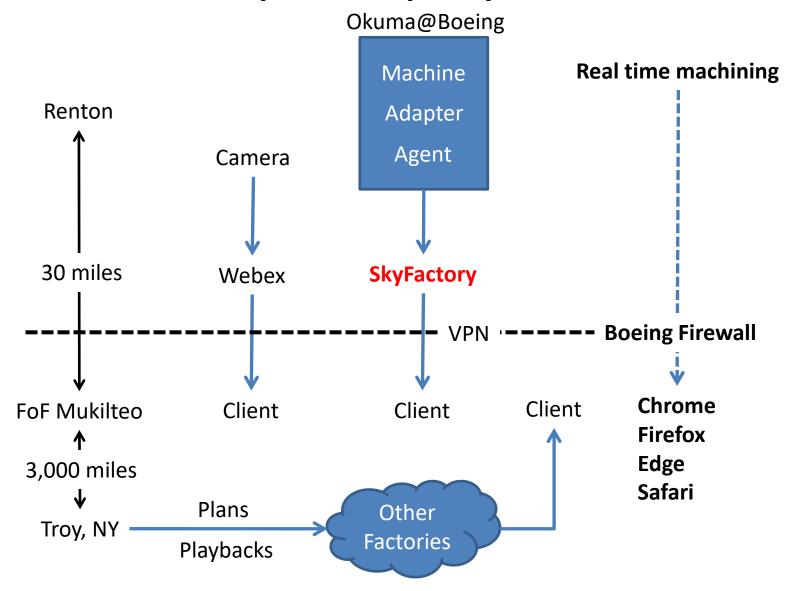
Adaptive programming using digital twins

What is the DigitalSkyFactory?

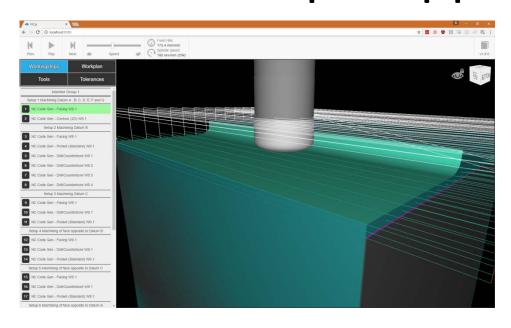
- A digital twin in the cloud
 - Connected to the real factory using smart phones
 - Performing measurements and suggesting adjustments
 - Sharing results with design, planning and production



Example deployment



Example applications

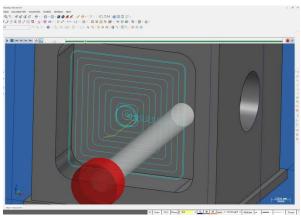


Tooling optimization App

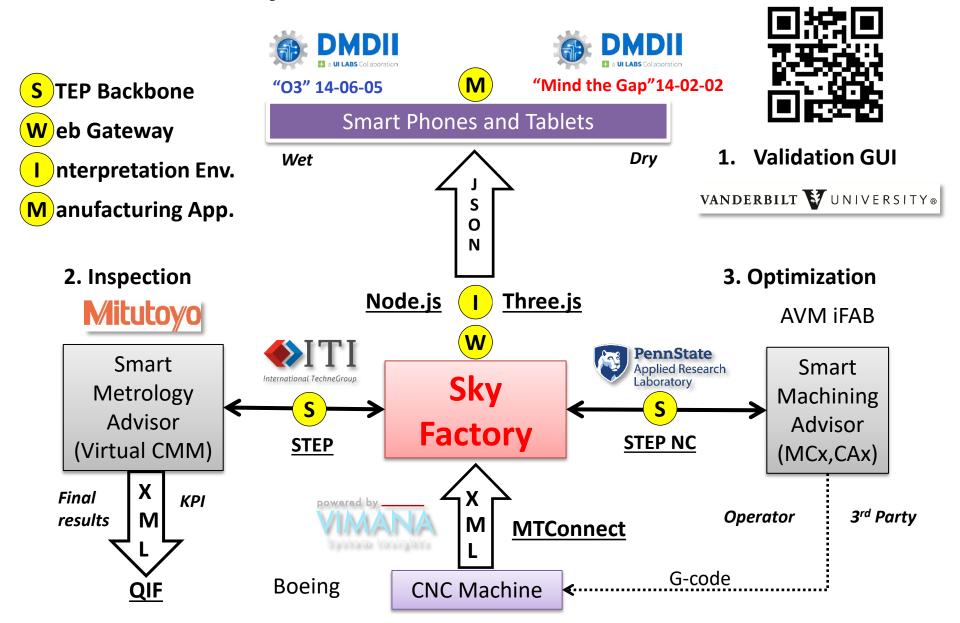
- Operates on smart phones and tablets
- Advice on feed changes
- 15% more efficient while continuing to meet tolerances

Solution generation service

- Making SkyFactory data
- Titanium process solutions
- NC generation from stage models



System and Services



Smart Machining Advisor

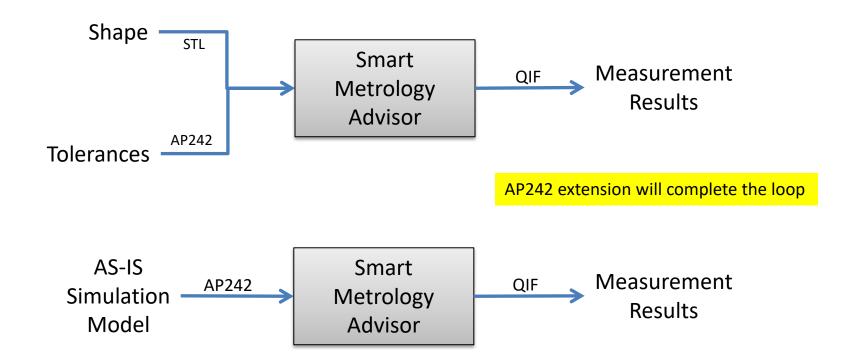
- Cloud service for machining solutions
 - Developed by Penn State for DARPA AVM program





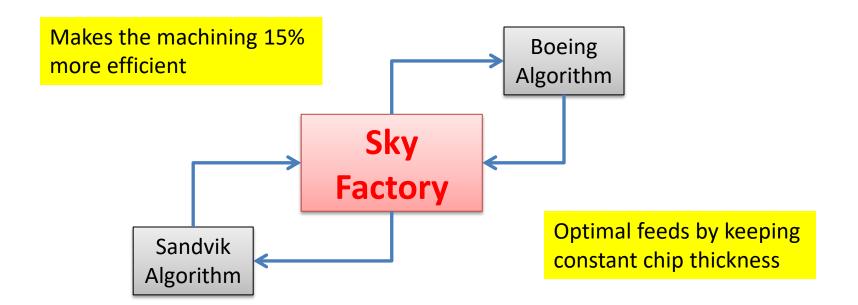
Smart Metrology Advisor

- Cloud service for measurement
 - Developed by Mitutoyo and ITI

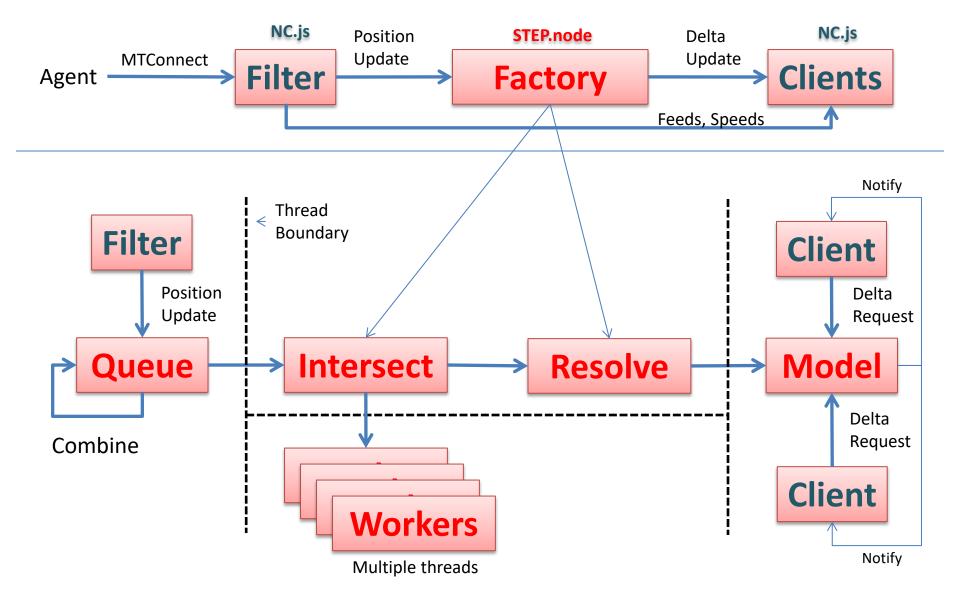


Smart Tooling Advisor

- Apps that run on the SkyFactory
 - Real time adaptive programming



Factory Processing



What next

- You can deploy your own DigitalSkyFactory
 - NC.js (client) and STEP.node (server)
 - On our home page: http://www.steptools.com/
- And use the services
 - Smart Machining to build your data
 - Smart Metrology to measure your results
 - Smart Tooling to optimize your codes
- We are looking for partners for further development