MICHIGAN STATE UNIVERSITY

Alpha Presentation

Integration & Testing Suite for ADAS Sensors

The Capstone Experience

Team Bosch

Jana Holderbaugh
Jesse McClay
Evan Martin
Wei Li
Nick Grenn

Department of Computer Science and Engineering
Michigan State University

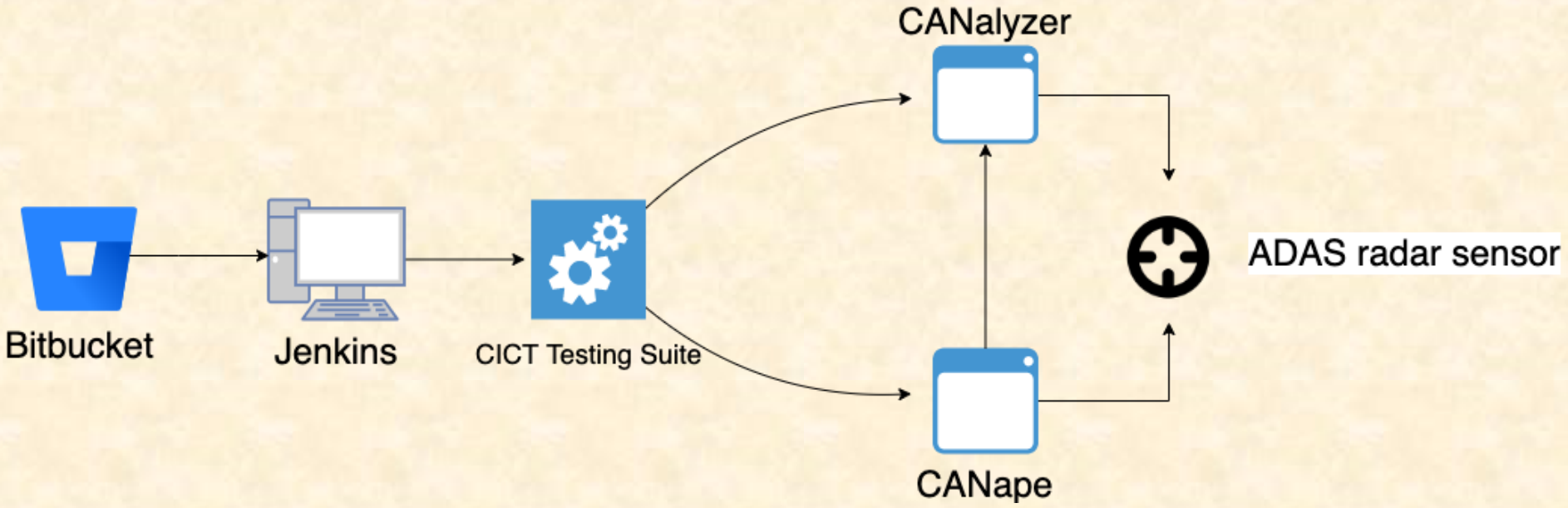
Fall 2019

From Students…
…to Professionals

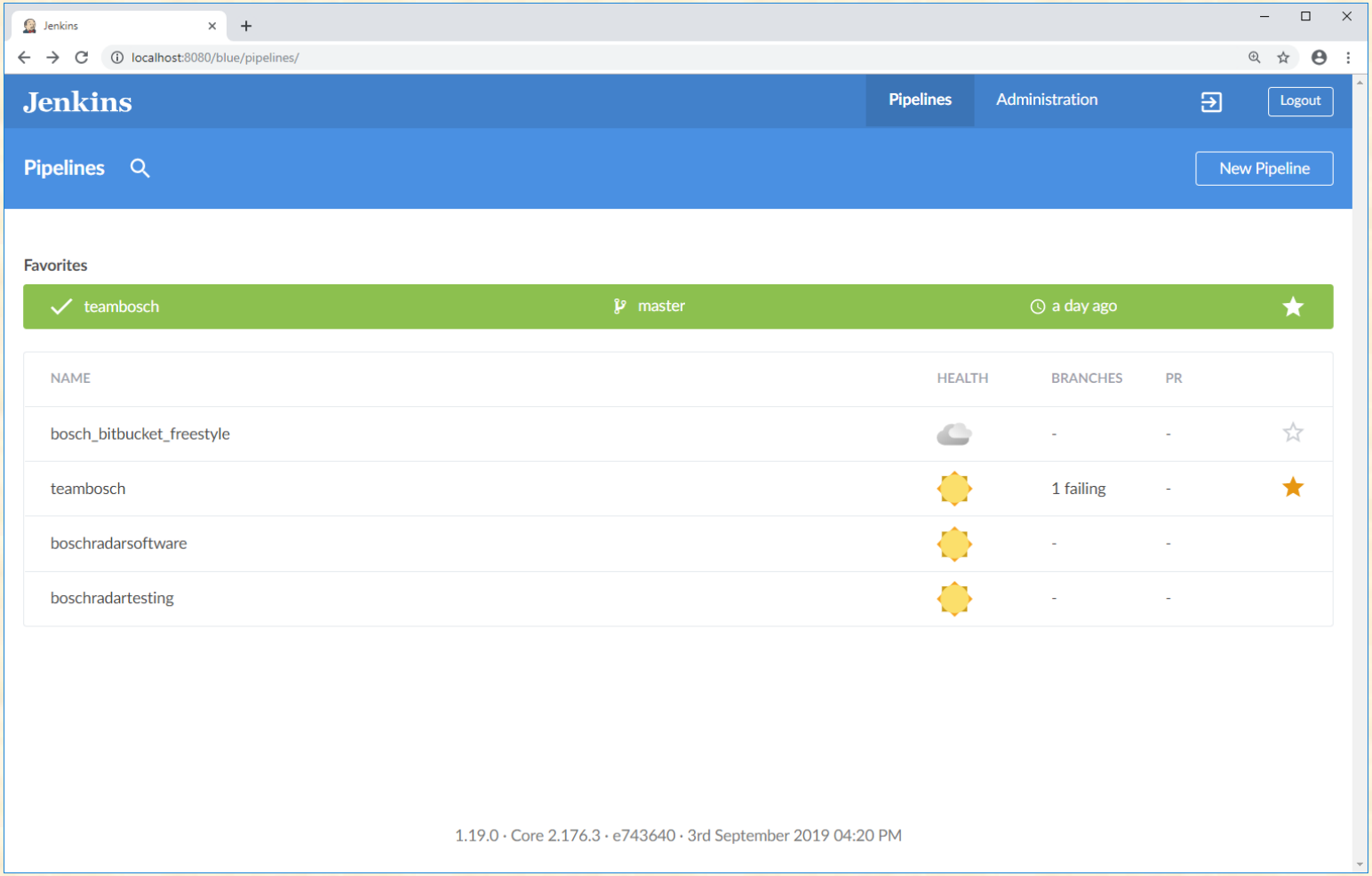
Project Overview

- Bosch developers are working on code for their Advanced Driver Assistance System radars
- We are building a testing suite that will automate flashing of new hexcode onto radars
- Certain hardware tests will run in testing suite before a sensor gets to a vehicle
- Saves crucial time in development process

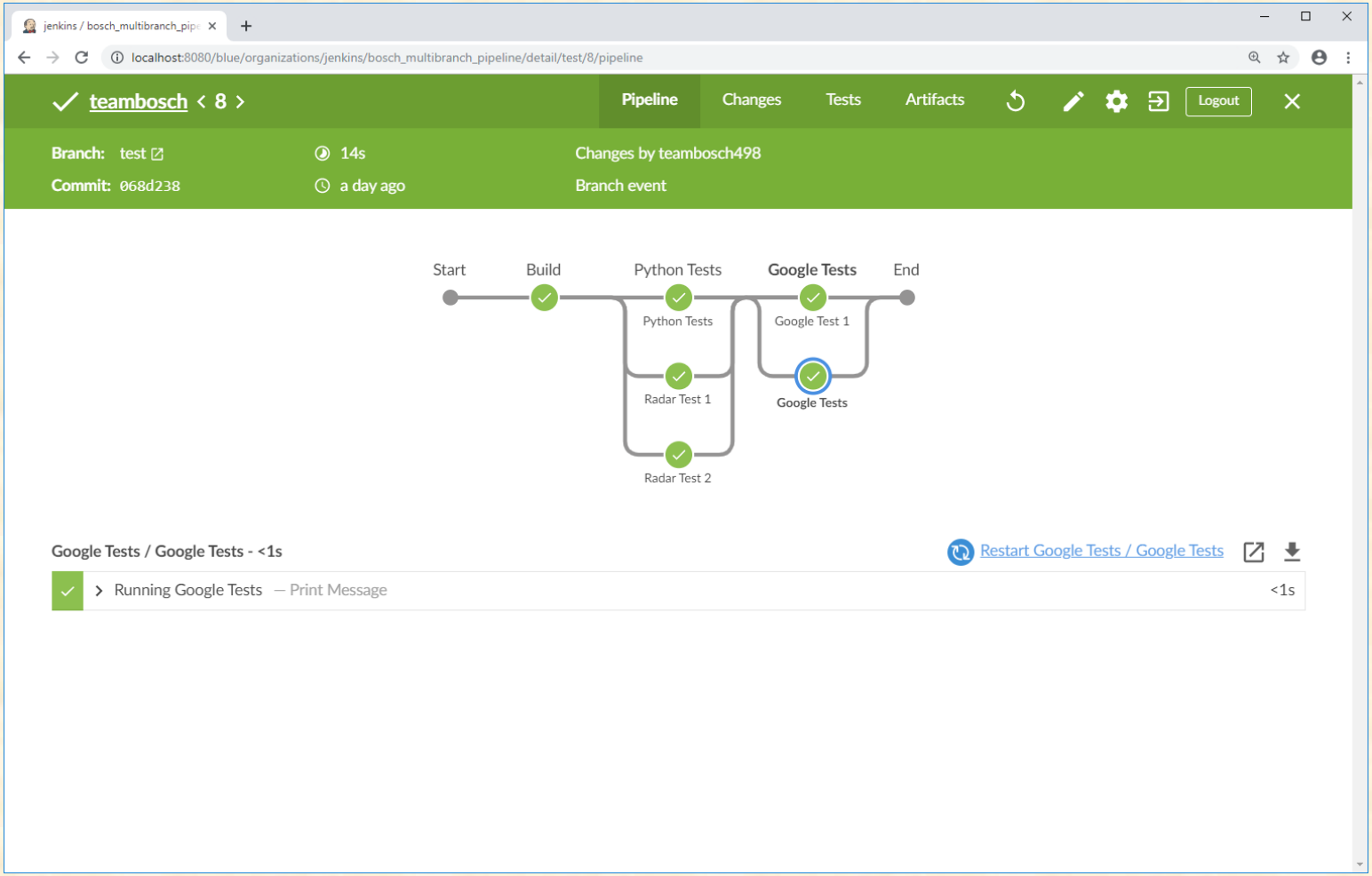
System Architecture



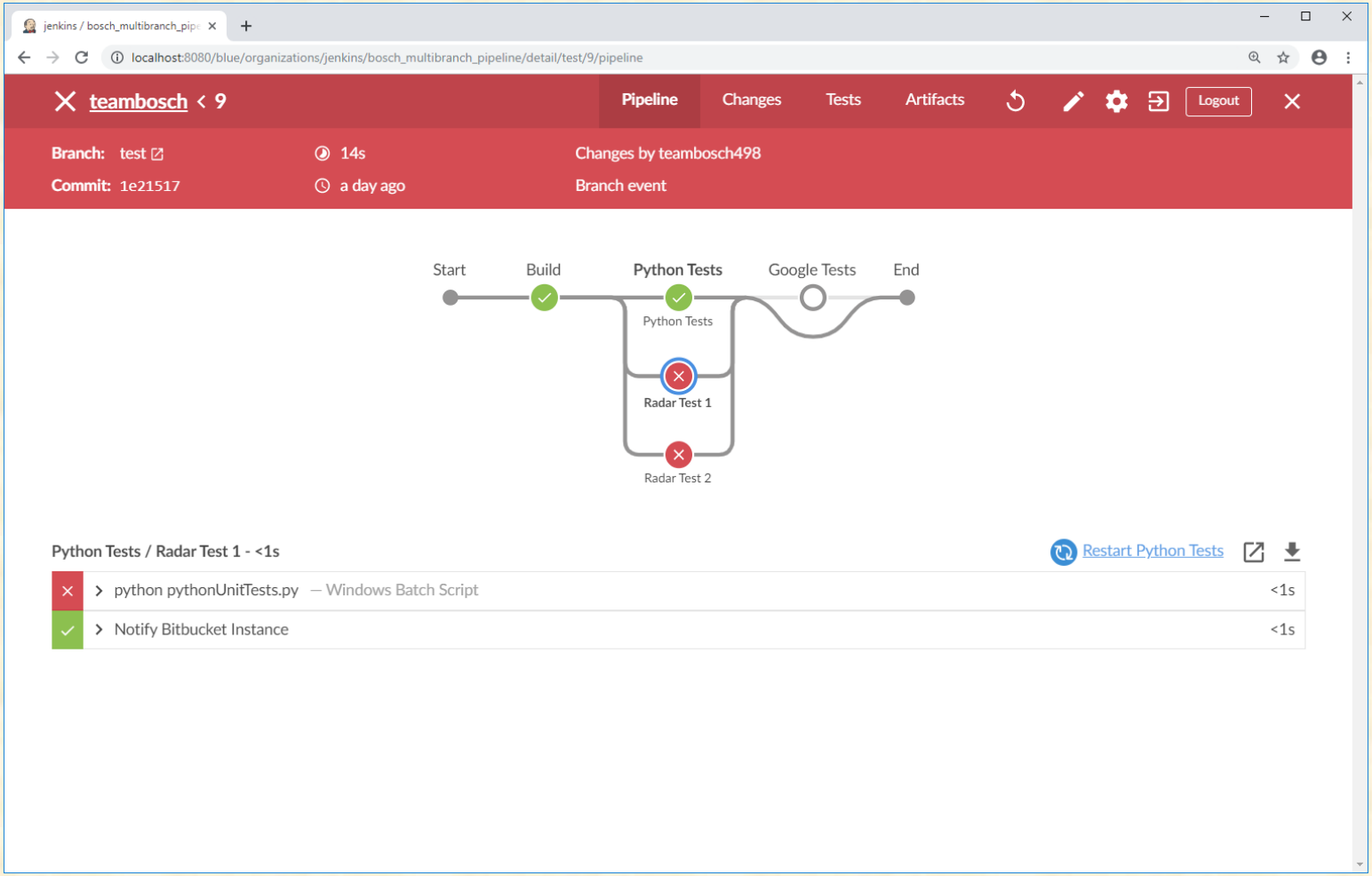
Pipeline Dashboard



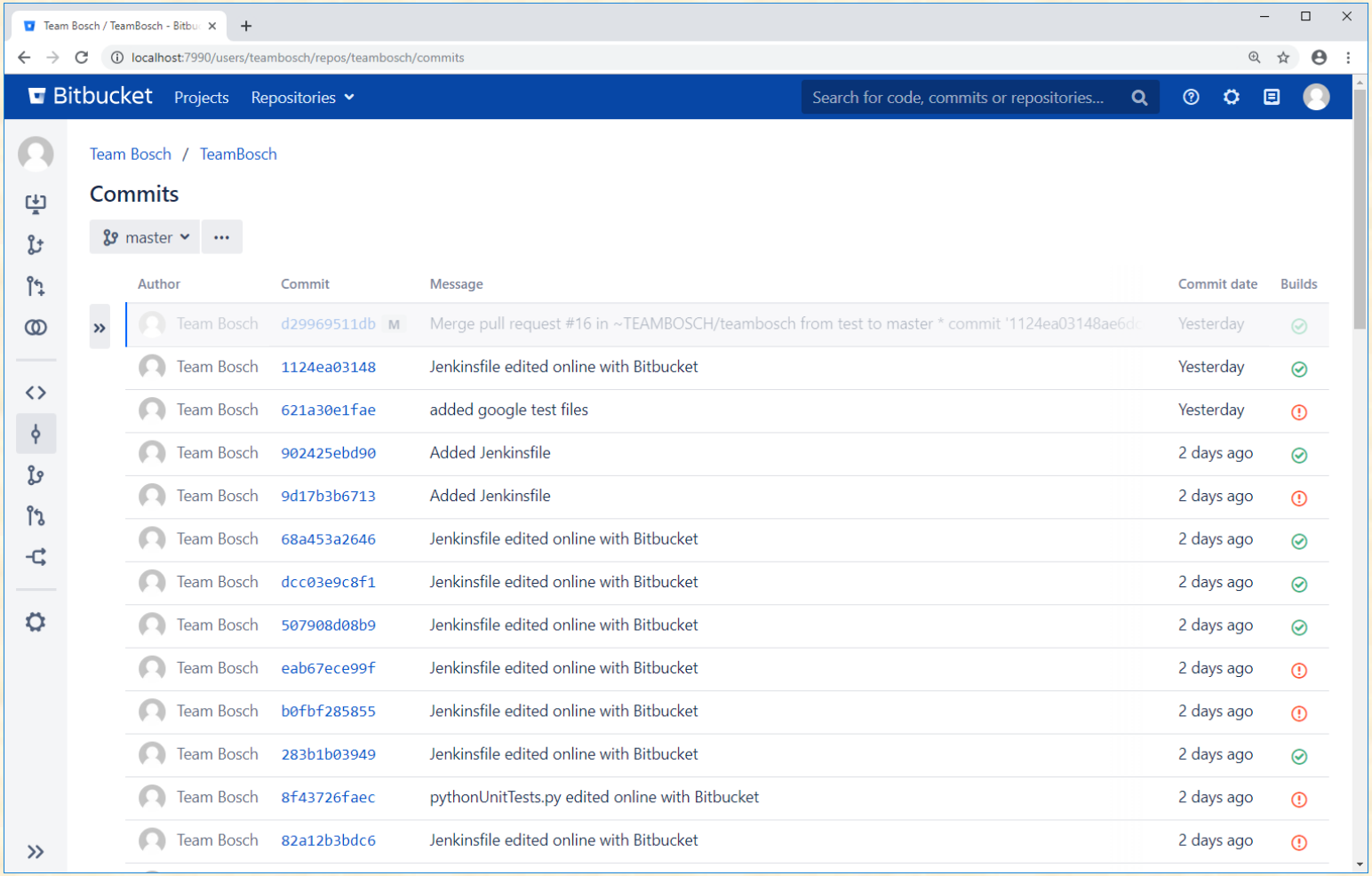
Successful Pipeline Build



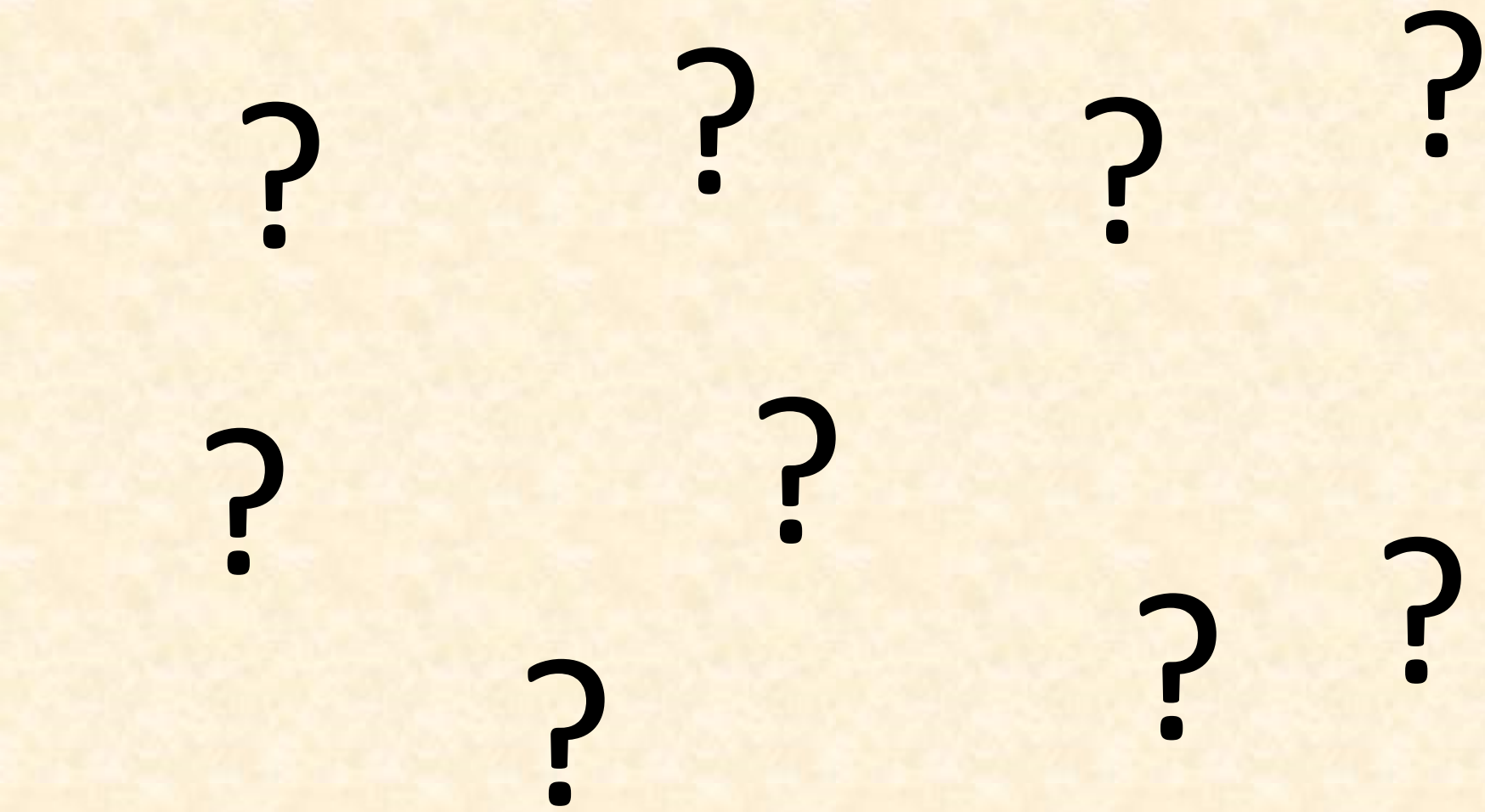
Failed Pipeline Build



Bitbucket Build Statuses



What's left to do?

- Get CANape to open when Jenkins runs the script
- Verification of Radar flashing using CANalyzer
- Implement Google Tests into Jenkins
- Distributed computing for Jenkins tests
- Test failure notifications

Questions?