

# Continuous Integration - The Testing Challenge

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# Failing forward.

- Where we were.
- Where we wanted to be.
- Some ways we could get there.
- The journey there!

# Neither here nor there.

- Central CI infrastructure.
- Dedicated CI team.
- Unit tests.
- Strong Agile process.
- Positive attitude.
- Multiple test suites and tools.
- Multiple test environments.
- Slow EOS release
- High Defects
- Telemetry
- Static Analysis

# Brave New World.

- A reputation for quality.
- More time on features - Less time on defects.
- Strong testing practices.
- Pride in our work.
- Time to innovate.

# Good to Great.

- Check in Code and ALL tests run
- Tests are fast, optimized and run in parallel distribution
- Tests give valuable information
- Clear visibility of Automation
- Give full confidence in every build

# The power of More.

1. Nightly Long Regression.
2. 'Other test' optimization and consolidation.
3. All tests optimization.

# I'm a stranger here myself.

- What automation do we have?
- The tests were only one part of the problem.
- We needed a common CI test pool.
- 1 template each for Windows, OSX, iOS and Android that would contain all the tools needed to run all the automated frameworks we were using.

# Making good habits ..

- CI test pool in place.
- Selected a team to be our Guinea pig.
- Gradual roll out across teams.
- Results were immediate.
- More green builds.
- Less time triaging test environment problems.
- Engineers focused on features and defects.



# The power of Less!

1. Nightly Long. ✓

~~2. 'Other test' optimization and consolidation. ✗~~

~~3. All tests optimization. ✗~~

# The Emperor's new mind.

- A reputation for quality. ✓
- More time on features - Less time on defects. ✓
- Strong testing practices. ✓
- Pride in our work. ✓
- Time to innovate. ✓

# Q&A

- Failing forward – John C Maxwell.
- Neither Here nor There – Bill Bryson.
- Brave New World – Aldous Huxley.
- Good to Great – Jim Collins.
- The Power of More – Marnie McBean.
- I'm a stranger here myself – Bill Bryson.
- Making good habits – Joyce Meyer.
- The power of Less – Leo Babauta.
- The Emperor's new mind - Sir Roger Penrose.