

# Continuous Integration

- Continuous Integration (CI) is implemented on Agile teams at two distinct levels:
  - the philosophical belief behind CI and
  - the tool support for the CI process.
- At the philosophical level, Agile teams recognise the historical risk of integrating software components late in a project and believe in mitigating this risk through early and frequent integration to uncover integration issues as early as possible.

***“Early” means day 1 of development***

***“Frequent” means several times per day***

- At the practical level, many software tools exist to provide automated support for Continuous Integration. Many of these tools are implementation language agnostic and open source.



Think of a CI server as a robotic developer whose *sole* task is to continually test the most current version of the codebase and report on the results of the testing to the team.



#### REFERENCE:

- The seminal article on CI is by Martin Fowler and can be found at <http://www.martinfowler.com/articles/continuousIntegration.html>.