

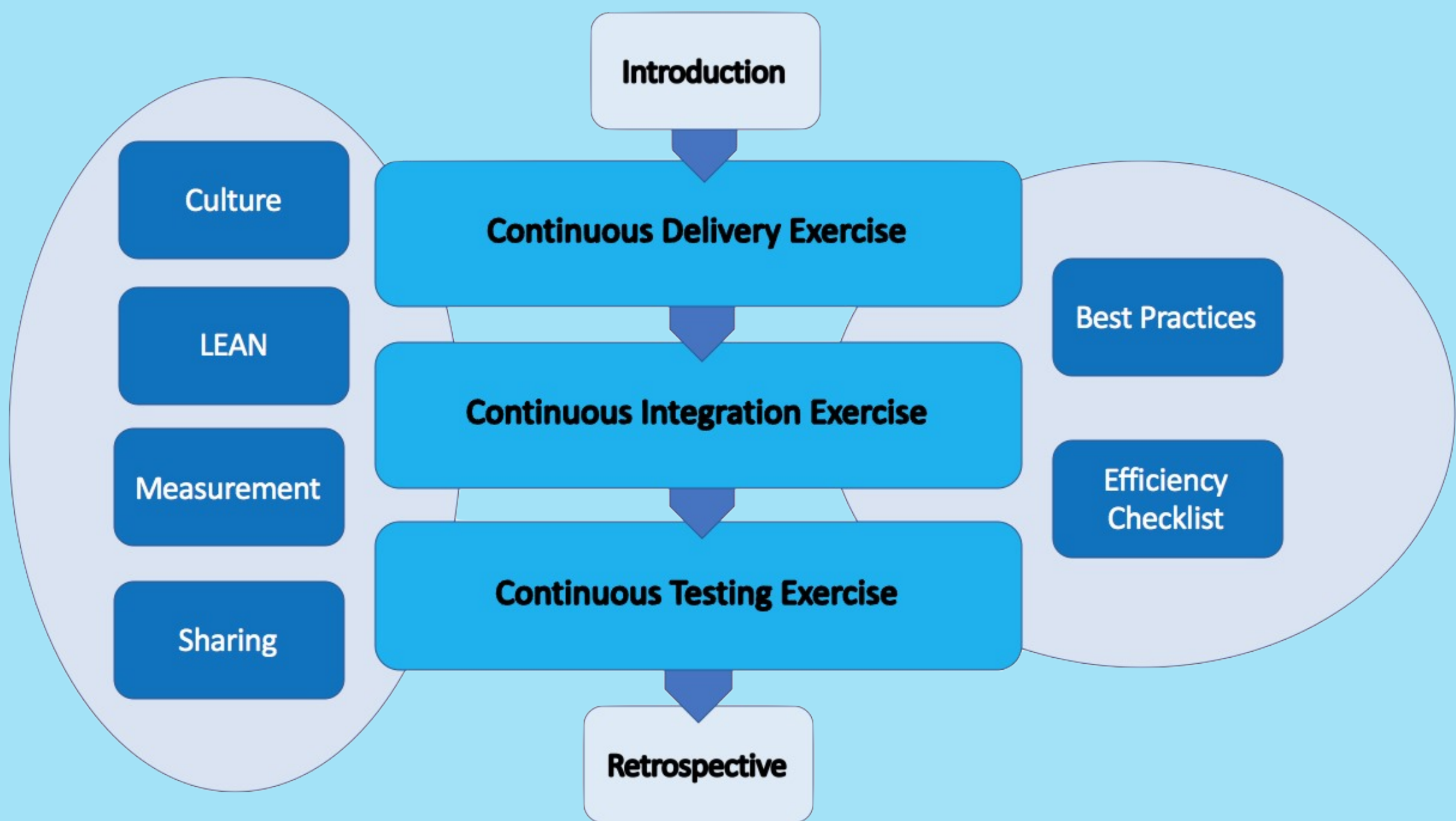
# Driving Efficiencies in your Software Pipeline.

ranger4

Copyright Ranger4 Limited 2020

Do not copy, reproduce or publish without the written consent of ranger4.

## The CI/CD/CT Think Factory.



### CI/CD/CT Think Factory

Introduction.

#### 8 Principles Exercise.

MURAL Whiteboard on

1. Repeatable Reliable Process.
2. Automate Everything.
3. Version Control Everything.
4. Bring the Pain forward.
5. Build quality in.
6. \*done\* means released.
7. Everyone is responsible.
8. Continuous Improvement.

#### The Pipeline Efficiency Checklist Exercise.

MURAL Whiteboard on

1. Build Binaries only once.
2. Deploy the same way.
3. Smoke Tests.
4. Deploy into a copy of production.
5. Instant Propagation.
6. Stop the line.

#### Continuous Integration review.

MURAL Whiteboard on

1. Central code repository.
2. Automate the Build and deployment.
3. Self Testing Builds.
4. Test in a cloned production environment.
5. Commits to the baseline everyday.
6. Keep the build fast.
7. Make it easy to get the latest deliverable.
8. Everyone can see what is happening.

#### Continuous Testing review.

MURAL Whiteboard on

1. Adopt more Test Automation.
2. Tool Integration.
3. Tracking Metrics.
4. Leverage Containerisation.
5. Keep Communication Transparent.
6. Saving time with Headless Execution.
7. Multi-Layer Tests.
8. Integrate Performance Testing into the Delivery Cycle.

#### Start Now

Agree the immediate team, roles & responsibilities, to deliver the inputs for the CI/CD/CT Factory.

### Culture, LEAN, Measurement & Sharing Review

#### Culture Review.

A MURAL Whiteboard on

1. Reviewing the results of the Cultural Questionnaire sent out prior to the Think Factory.

#### LEAN Review.

A MURAL Whiteboard on

1. Reviewing the results of the LEAN Questionnaire sent out prior to the Think Factory.

#### Measurements Review.

A MURAL Whiteboard on

1. Reviewing the results of the Measurements Questionnaire sent out prior to the Think Factory.

#### Sharing Review.

A MURAL Whiteboard on

1. Reviewing the results of the Sharing Questionnaire sent out prior to the Think Factory.

### Retrospective

Suggestions.

Questions.

Future Work.

**"If the aim was to take stock of our CI/CD progress to verify whether we were on the right track and whether or not we could be doing things better...we achieved.."**

Copyright Ranger4 Limited 2020

Do not copy, reproduce or publish without the written consent of ranger4.

