



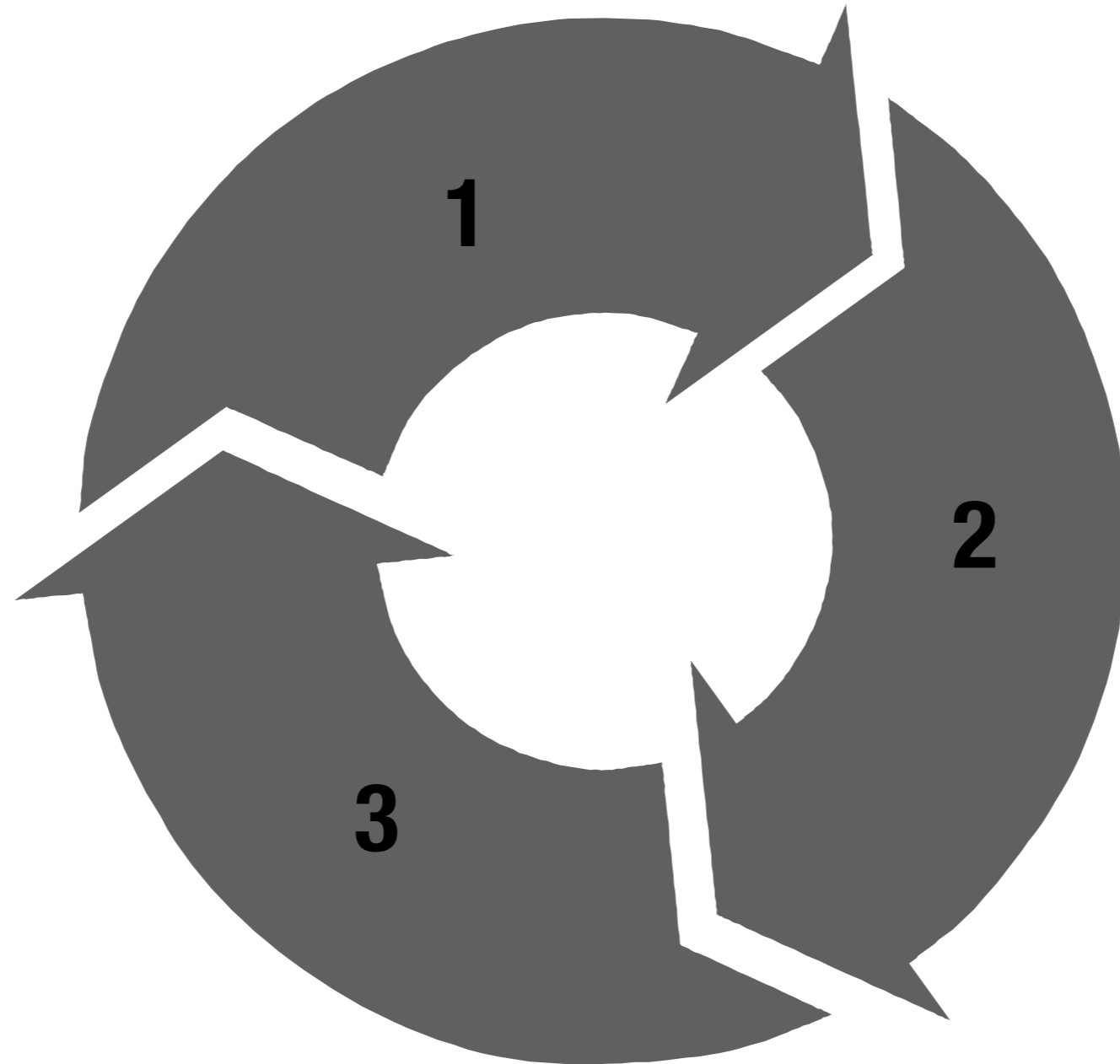
# Automation, Consistency, Quality

Upgrading with Xoom

# Three Phase Cycle

Repeated throughout the upgrade process

**Configuration  
Update**



**Unit Testing**

**Simulation**

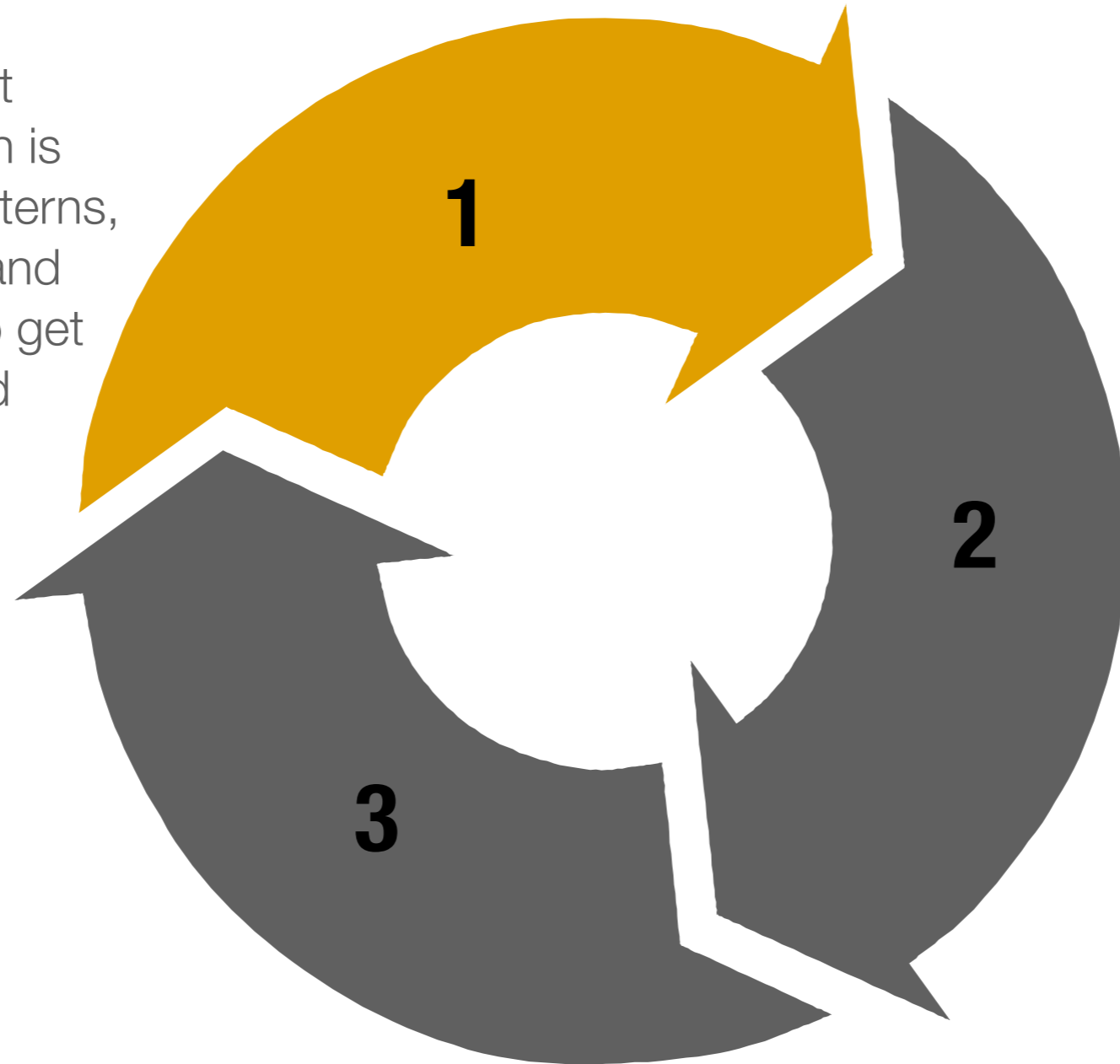
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Repeated throughout the upgrade project

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Using Xoom, the current production configuration is upgraded based on patterns, general best practices and custom requirements to get an up-to-date upgraded configuration

## Simulation



## Unit Testing

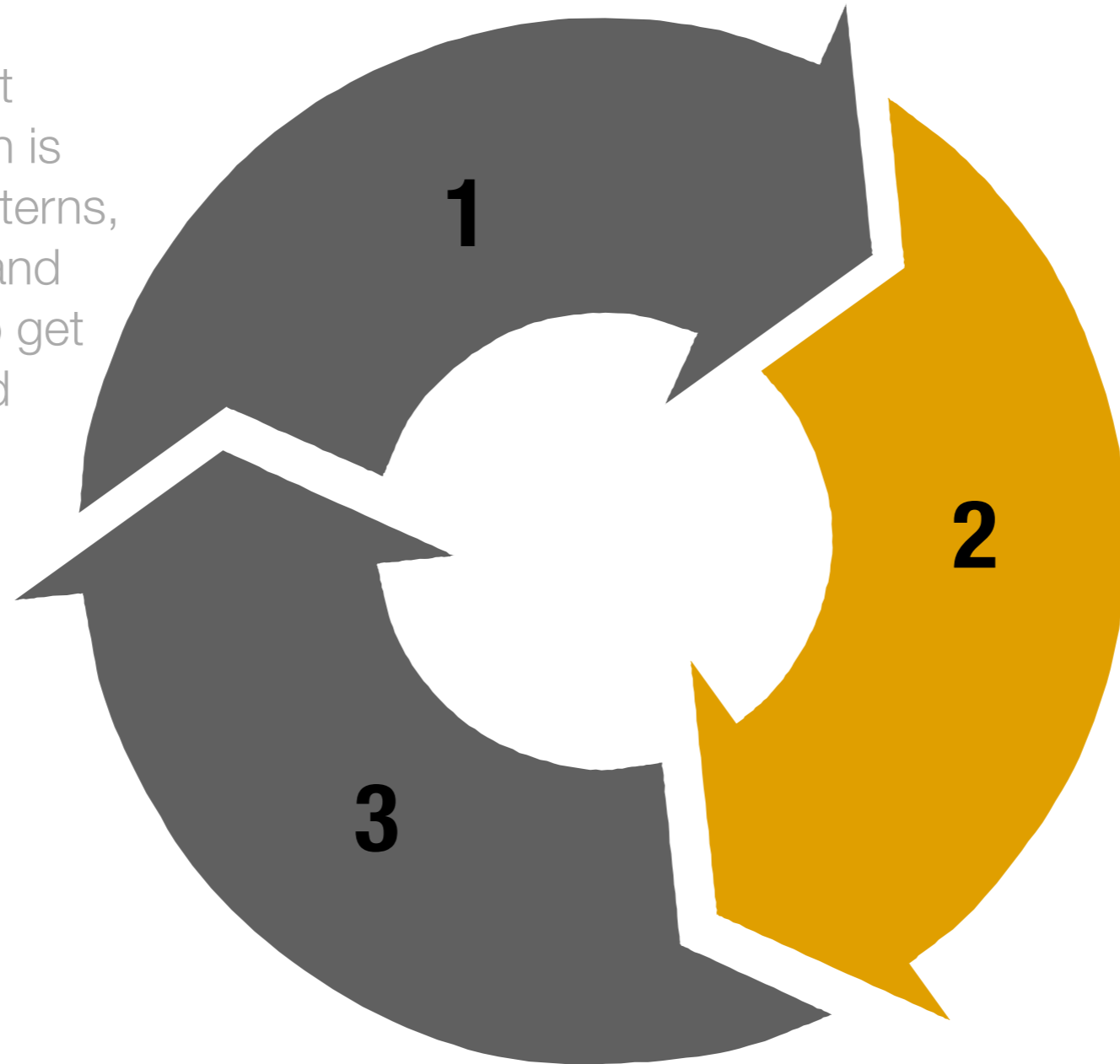
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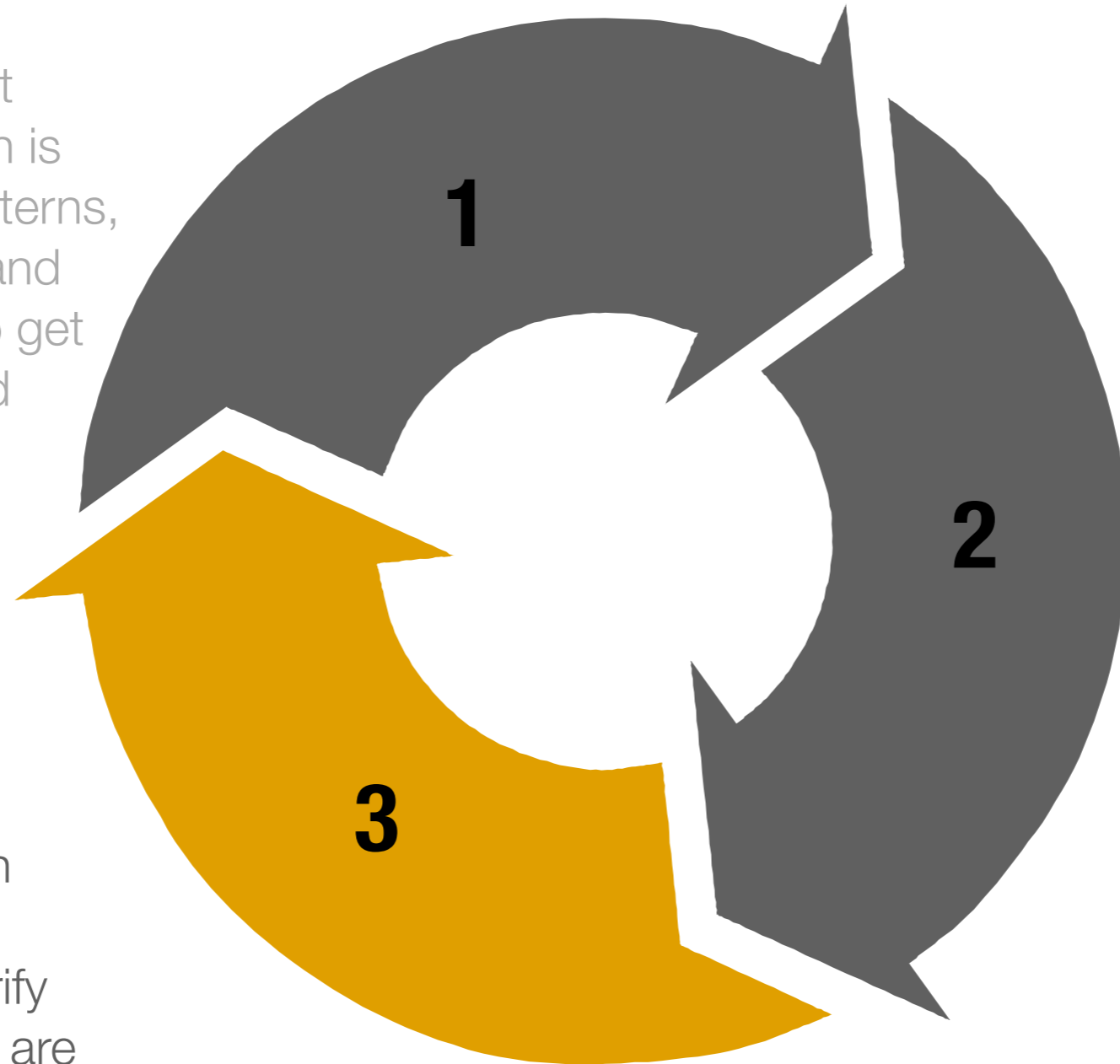
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Using Xoom, the current production configuration is upgraded based on patterns, general best practices and custom requirements to get an up-to-date upgraded configuration

## Simulation

End-to-end optimisation simulation is used to measure quality and verify that acceptance criteria are being met



## Unit Testing

Discrete functions of new customisations are tested to verify the satisfaction of requirements and prevent regression on upgraded version

# Configuration Update

Xoom is used to transform the current production configuration into an upgraded one

- ▶ **Pattern-based, incorporates best practices**
  - virtually eliminates risk of accidental misconfiguration
- ▶ **Reconfiguration of deprecated features**
- ▶ **Reconfiguration of customisations into new product features or new customisations**
- ▶ **Can be performed repeatedly on latest production configuration**
  - production feature freeze can be much shorter

# Unit Tests

Unit tests for customisations are defined on the upgraded version and run on successive cycles

- ▶ **Discrete, well-defined pieces of functionality**
- ▶ **Support for complex pre-conditions**
  - particular database dump, schedule recreation etc.
- ▶ **Operations get triggered, their effects tested**
- ▶ **Support for custom tasks**
  - allowing the use of any existing APIs
  - the testing of the UI or hidden product features is not supported

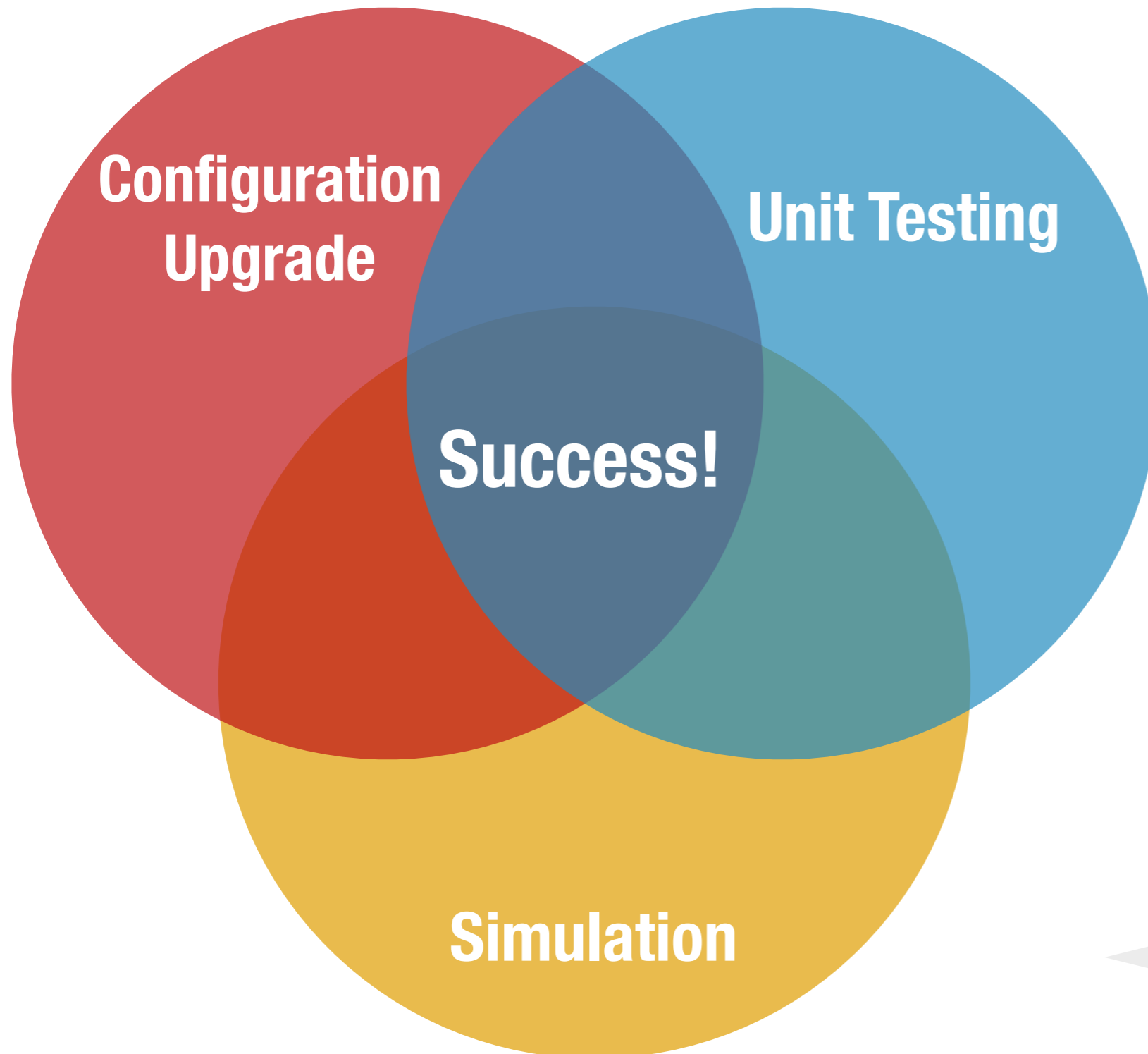
# Simulation

End-to-end simulation is created and used to perform quality measurements

- ▶ **All optimisation stages are supported**
  - appointment booking, task insert, day BGO, night BGO
- ▶ **Old version establishes the baseline**
- ▶ **Acceptance criteria for each set of measurements defined and tested**
  - proactive problem identification on repeated runs
  - expectation management



# Bringing It All Together



## Benefits

- ▶ Robust expectation management
- ▶ Proactive problem identification
- ▶ Reduced or eliminated production feature freeze
- ▶ Lower risk at all stages
- ▶ Quicker delivery, lower cost, higher quality

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