HPE ALM Standardization as a Precursor for Data Warehousing
March 7, 2017

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the Vivit Business Intelligence
Special Interest Group

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Hosted By

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Today's Speaker

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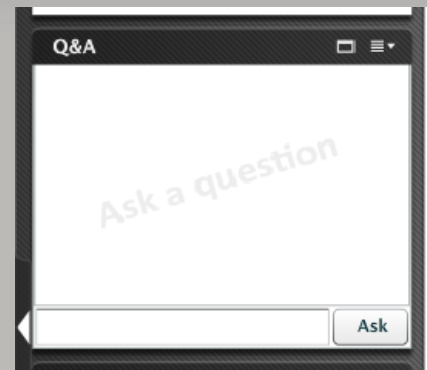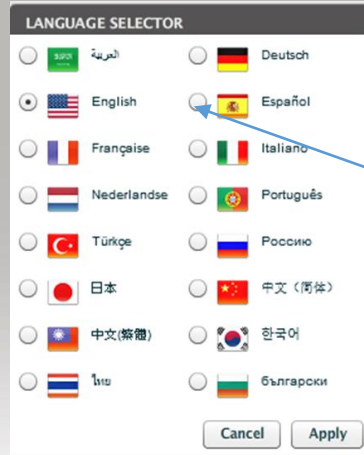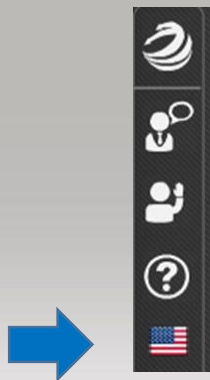
About Assure

- Our mission is to enable our clients to have actionable insights across the IT landscape
- Our flagship product concentrates in advanced analytics: **Assure Totalview**
- Consistent data achieved by using **Assure Standardization Suite**
- We provide the tools that drive an optimized BI solution for DevOps
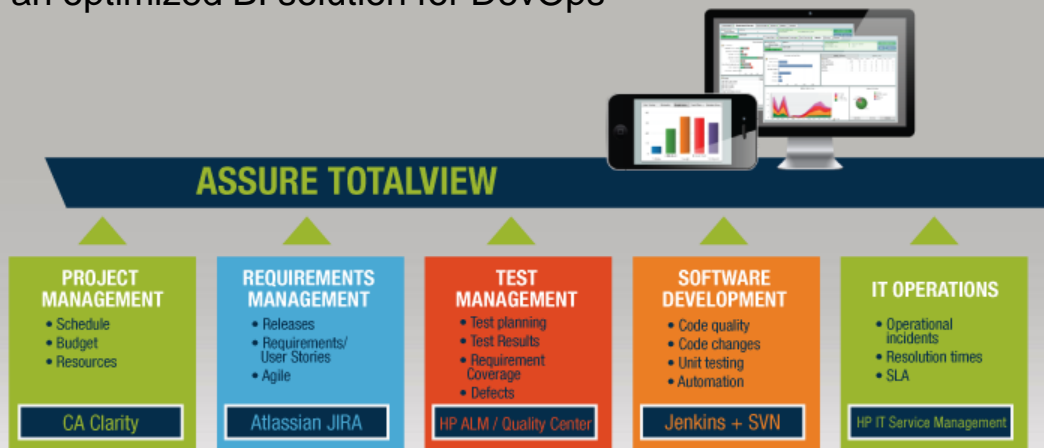
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- HPE ALM Standardization cornerstones
- Customer use case
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- Benefits of standardization
- Future!
- Q&A

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Data Warehousing & Business Intelligence

Business intelligence (BI) is a technology-driven process for analyzing data and presenting actionable information to help program & project managers and other end users to make more informed decisions

Load data into the reporting layer

Transform & calculate data

Extract data from source systems
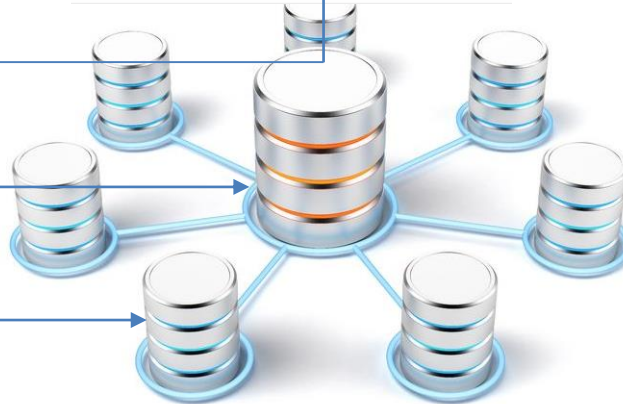
A data warehouse is a centralized repository containing data that is structured in a reporting friendly way. It aims to provide a holistic view of the software development lifecycle by combining data from different sources

HPE ALM Standardization Cornerstones

- Identify the business rules and processes in your organization
- Leverage the functions and capabilities of HPE Application Lifecycle Management
- Nurture the relationship of the software development teams and management

Business Rules

HPE ALM Environment

Metrics & Reporting
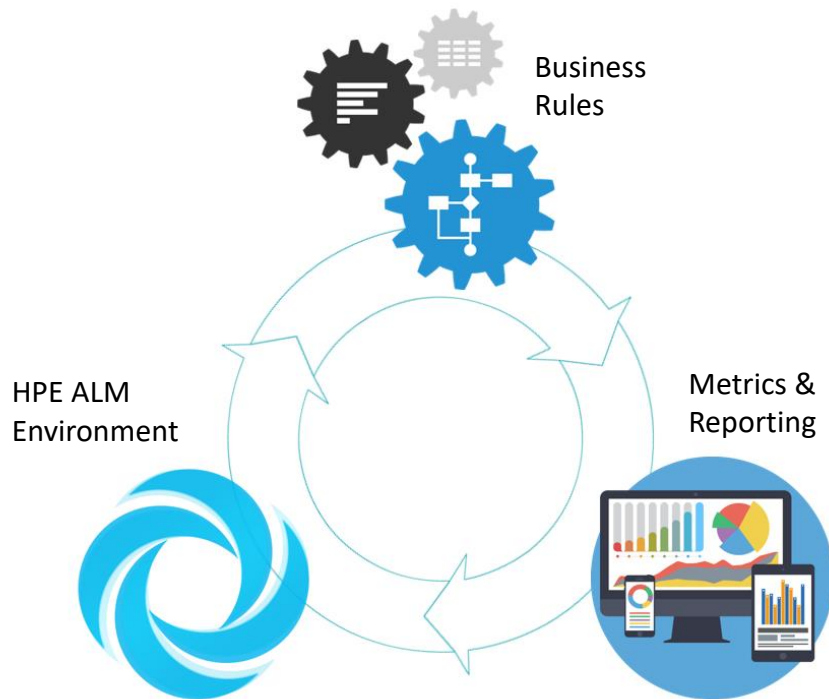
Wild West vs Enterprise Template

Before

- Difficulties in cross-project reporting lead to bad visibility in release readiness and product quality

- Without unified terminology, comparing projects efficiency requires manual work

- Induction of testing specialists to new projects takes more time

- Maintenance of ALM environment is cumbersome

- Overlapping customization & development effort

After

- Organization wide reporting provides insight into company performance in product development

- Unified terminology provides a common language understood by all actors

- TCoE functions smoothly when specialists can 'hit the ground running' when moving into new projects

- Administration & maintenance can be done with a clear set of rules

- In-house customized functions can be leveraged in any ALM project

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Customer Case Study:
Enterprise Level Financial Company

"We are suffering from not having the ability to see where our testing is advancing as a whole. Individual projects have siloed HPE ALM usage models and habits: there is very little co-operation between them.

Establishing any kind of governance or enabling Business Intelligence is difficult in this environment, since there are no common practices and data quality is poor. Similar or identical test assets, plans and reports are produced in multiple places, causing resourcing overhead in projects.

We need an enterprise HPE ALM template and all our active projects standardized to them, but it is a daunting task to implement without proper tools or previous experience."
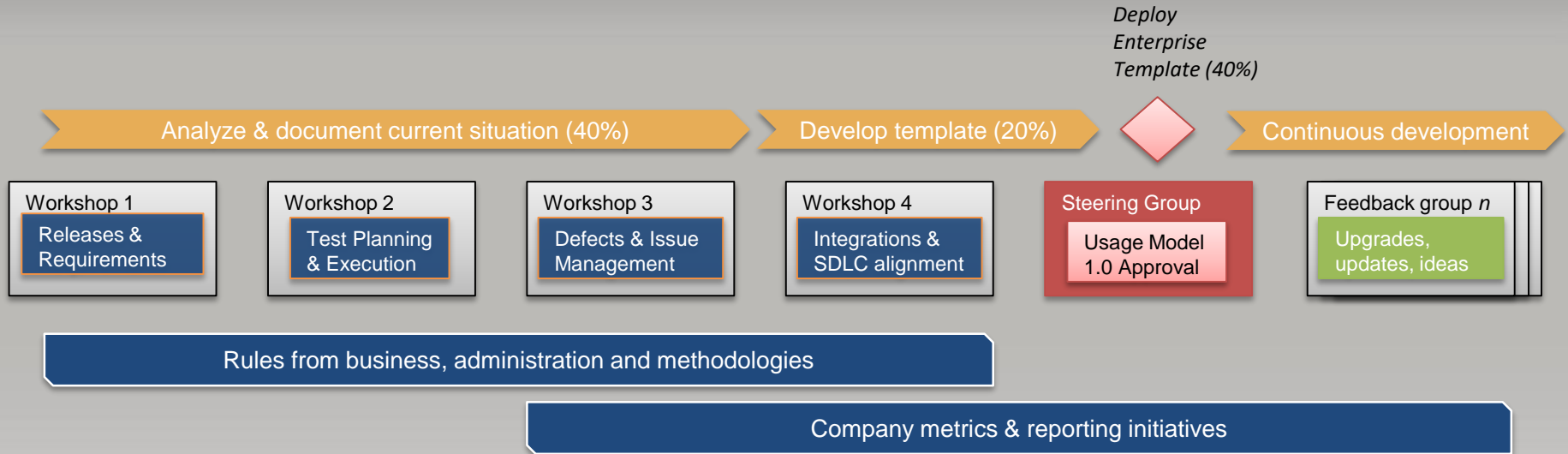
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Customer Case Study

- Mission:
  - Create an environment that supports company wide reporting in a data warehouse
  - Establish a unified terminology that ties into existing databases in the company
  - Encourage projects to innovate and customize without risking data quality
- Requirements:
  - Standardize 600 HPE ALM projects to enable linking to the enterprise template
  - Ensure that the standardization of a single project does not exceed 15 minutes in time
  - Preserve existing functionalities created in-house with an ability to enable/disable them in projects
- Method:
  - Analyze the variety of data values and configurations as basis for determining the enterprise standard
  - Identify ALM champions in different units in the enterprise
  - Form a steering group that owns the enterprise ALM Usage Model
  - Implement ALM Usage Model in new (immediate) and existing (in phases) projects

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Standardization Project Structure

Deploy
Enterprise
Template (40%)

Analyze & document current situation (40%) | Develop template (20%) | Continuous development

Workshop 1	Workshop 2	Workshop 3	Workshop 4	Steering Group	Feedback group *n*
Releases & Requirements	Test Planning & Execution	Defects & Issue Management	Integrations & SDLC alignment	Usage Model 1.0 Approval	Upgrades, updates, ideas

Rules from business, administration and methodologies

Company metrics & reporting initiatives

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Standardization Scope

1st phase

| Status | System /Application | Release | Severity |

2nd phase

| Environment | Defect Category | Test Level / Phase | <Integrations> |

3rd phase

| Root Cause Analysis | Risk | Priority | Platform |

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Enterprise ALM Design

Top-down approach

- Consistent way of usage across the ALM landscape
- Support for reports and metrics needed in management
- ALM Usage Model enabling regulatory compliance

Bottom-up approach

- Ensure best possible usability for end-users
- Retain a flexible working environment
- Support customized functionalities and project specific configurations

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Planning Enterprise ALM

Metrics & reporting

Process initiatives

Requirements

HPE ALM Enterprise Template
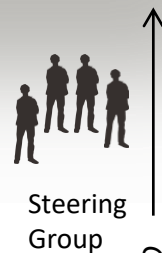
| Data fields | List values | Permission groups | Status transition rules | Business rules support |

Provides the enterprise configuration
Ensures that all data needed for company analytics is collected
Provides support for business rules & regulatory compliance

Project topology

<Digital Bank> Virtual Template

Preconfigured empty project used for basis of live project creation
Configurations specific to the digital bank user community
Enforced by process awareness

<ATM Testing> Virtual Template

A base project configuration for another business line
Additional focus on testing software on physical machines
Configurations in <Digital Bank> not relevant to user group needs

<DB> ALM Project 1

Project specific fields, values, groups and customizations

<DB> ALM Project 2…n

Project specific fields, values, groups and customizations
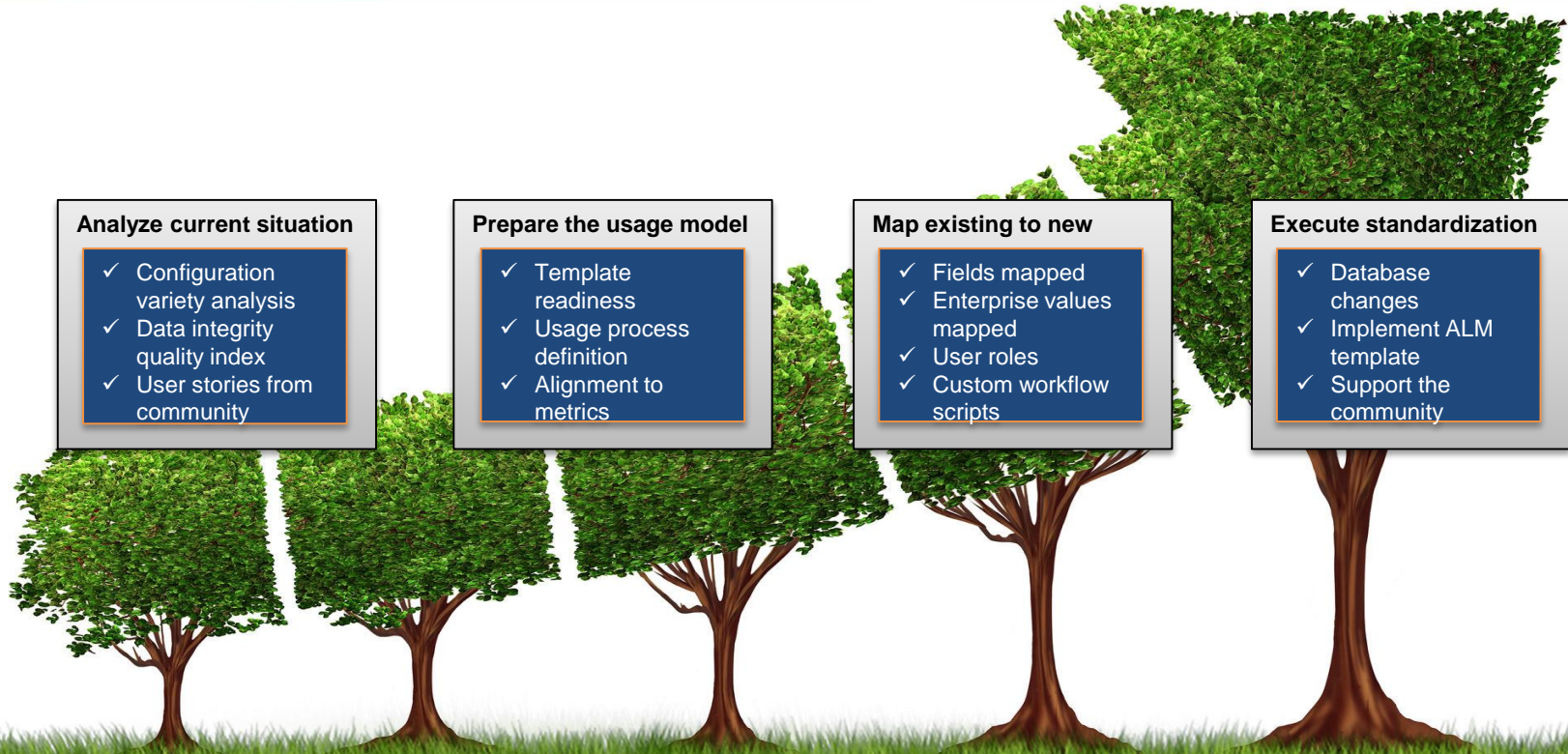
<ATM> Agile Project

Configuration support for agile release process

<ATM> Waterfall Project

Configuration support for traditional release process

Steering Group

Admin

GOVERNANCE

Standardization Steps in Practice

Analyze current situation

- ✓ Configuration variety analysis
- ✓ Data integrity quality index
- ✓ User stories from community

Prepare the usage model

- ✓ Template readiness
- ✓ Usage process definition
- ✓ Alignment to metrics

Map existing to new

- ✓ Fields mapped
- ✓ Enterprise values mapped
- ✓ User roles
- ✓ Custom workflow scripts

Execute standardization

- ✓ Database changes
- ✓ Implement ALM template
- ✓ Support the community

Standardization Toolkit

- Assure HPE ALM project analysis process for investigating the current situation
- **Assure Project Harmonizer** for mapping existing data fields to template fields
- **Assure Data Standardizer** for scrubbing the data values in list fields to ensure data integrity

Maintain Standardization

Best practices

- Define clear policies in ALM usage and data collection
- Provide a clear feedback channel for end user communities
- Organize periodical workshops to gather and review user stories
- Assign clear roles for data ownership in enterprise level and project level
- *Support a culture of continuous improvement in standardization*

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Customer Case: Project Results

- HPE ALM Usage Model implemented with an active maintenance process
- One enterprise template designed and developed
    - Enterprise defect workflow enforced
- Three business unit specific "virtual templates" designed and developed
    - Software application development
    - Integrations development
    - Agile projects
- Business Intelligence data warehouse implementation readiness achieved
    - Defect statuses, severities & categories
    - Test levels, test design and execution statuses
    - Requirement categorization and risk assessment
- Eight months calendar time spent with specialized process & toolkit
    - Reference: Past project in another customer without process & toolkit took 2.5 years

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Benefits of ALM Standardization
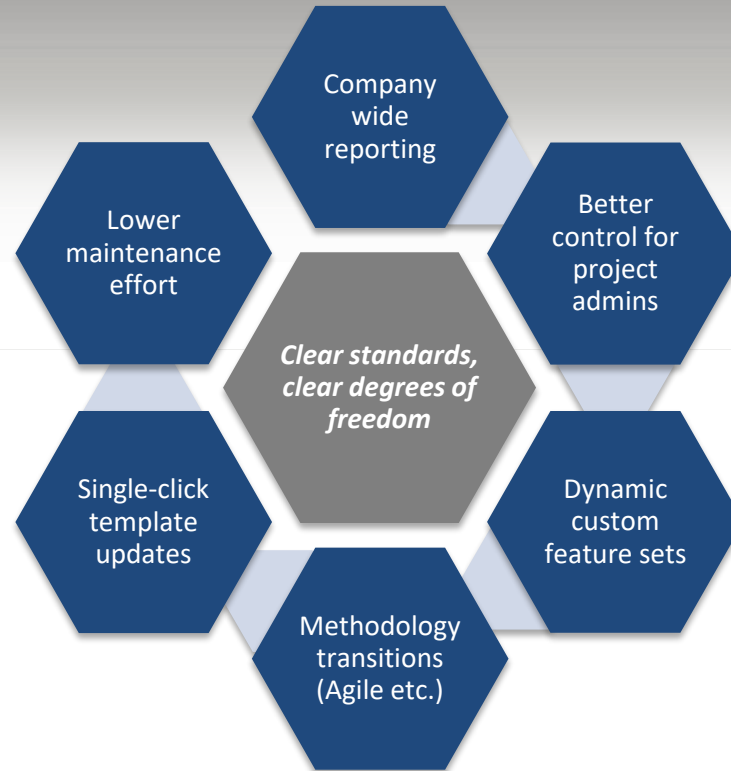
Future…

- HPE ALM Octane to offer a more development –oriented management platform with testing capabilities
- HPE ALM.NET to cover existing user base and to integrate with Octane
- User communities around DevOps, testing and analytics continue to revolve, solve and evolve
- "Everything will be code" – In near future, all entities will have a strict format of description
    - Enabling automation readiness
    - Avoiding vague descriptions in Requirements, Tests and Defects
    - Re-usability for regression, integration testing, variants…
- *Key:* Understanding the business goals behind our initiatives
- *Start your journey into advanced analytics with Assure Totalview*

Q & A

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- **Network with your peers:** there are plenty of opportunities to expand your network in fun and informal settings during our receptions, lunches and evening entertainment

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