

IBM Deployment Planning & Automation



Agenda

- Introduction
 - Software delivery challenges
 - Deployment Challenges

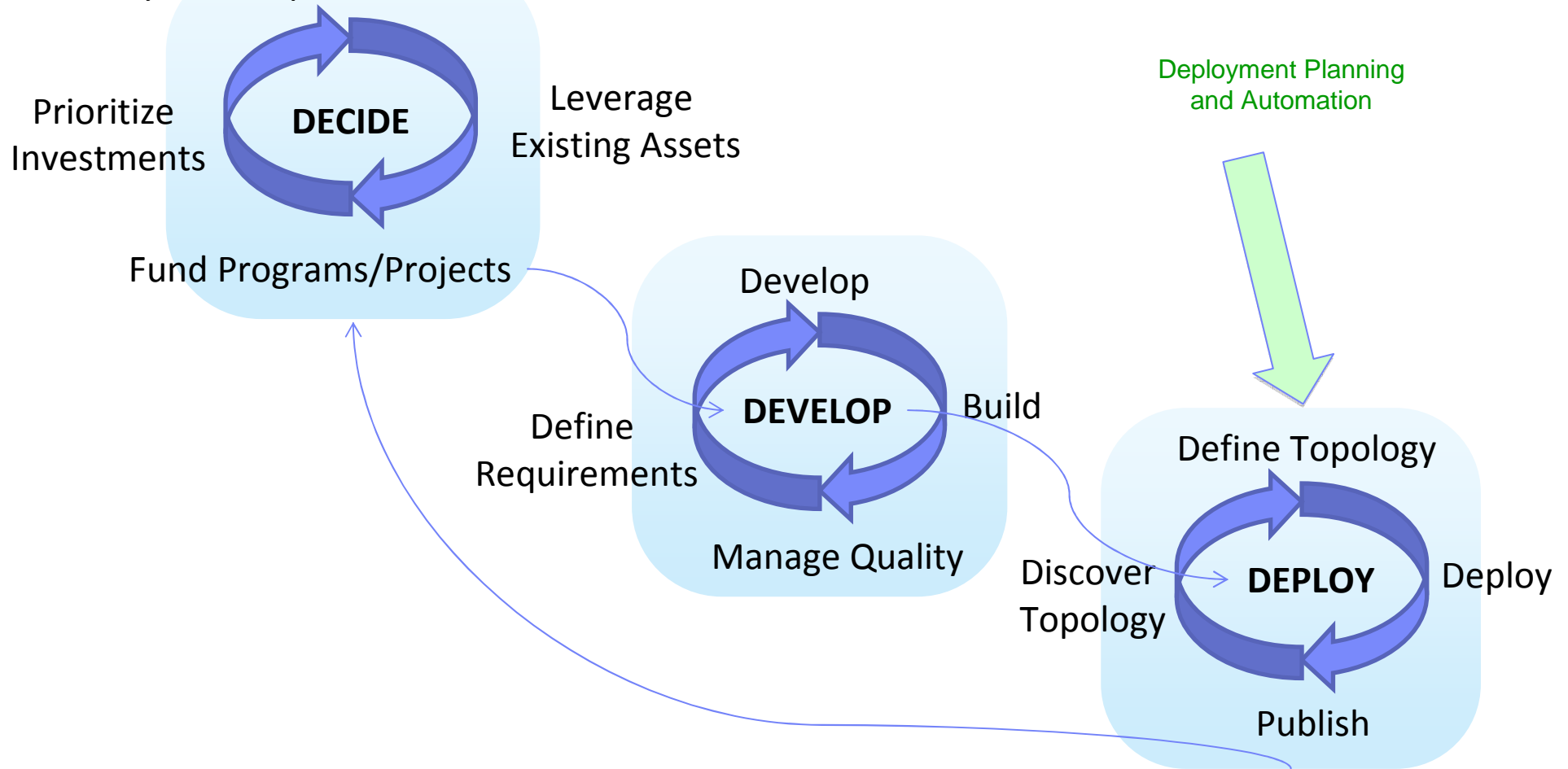
- IBM Deployment, Planning and Automation
 - Plan, automate, govern
 - Scenario

- Summary



Lifecycles are aimed at helping customers... Cycles of cycles – each leading to the next

Analyze Enterprise Architecture



Introducing Deployment Planning & Automation



- **Problems**

- Organizations spend too much time and too many resources on deployment
- Manual deployment is unreliable and not repeatable
- Inconsistent methods of hand-off between development and operations

- **Which Causes**

- Concerns about the risk of deploying delays customers from getting the latest software for days, weeks, months, even years

- **Solution**

- IBM tools provide process, automation and collaboration to address the silos, time and resource constraints

- **Benefits**

- Automation significantly reduces cost, time and human error
- Staged and incremental adoption allows benefits to be achieved from the outset

Deployment is a complex problem

- **Development and Operations teams collaboration challenges**

- Hand-off from development teams is inconsistent and manual
- Application component requirements do not match IT infrastructure

- **Deployment requirements are difficult to validate**

- Enterprise, Software & IT architects all use different formats
- No standardization or templates for reuse

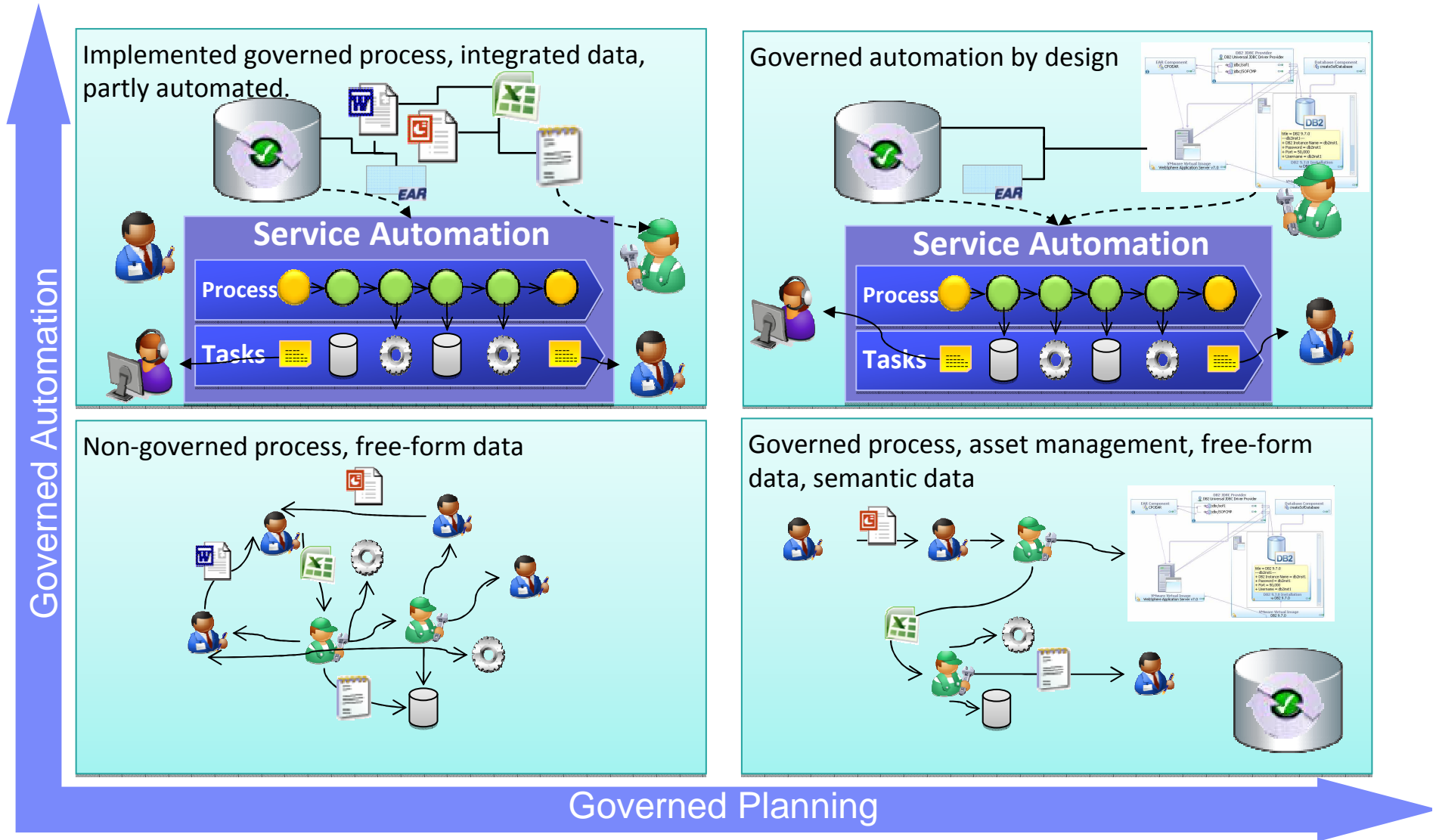
- **Complex series of steps**

- Deployment engineers often execute manual steps
- Not repeatable, prone to error
- Automations are hard to build, maintain and reuse
- Hard to tell what if the right things were installed

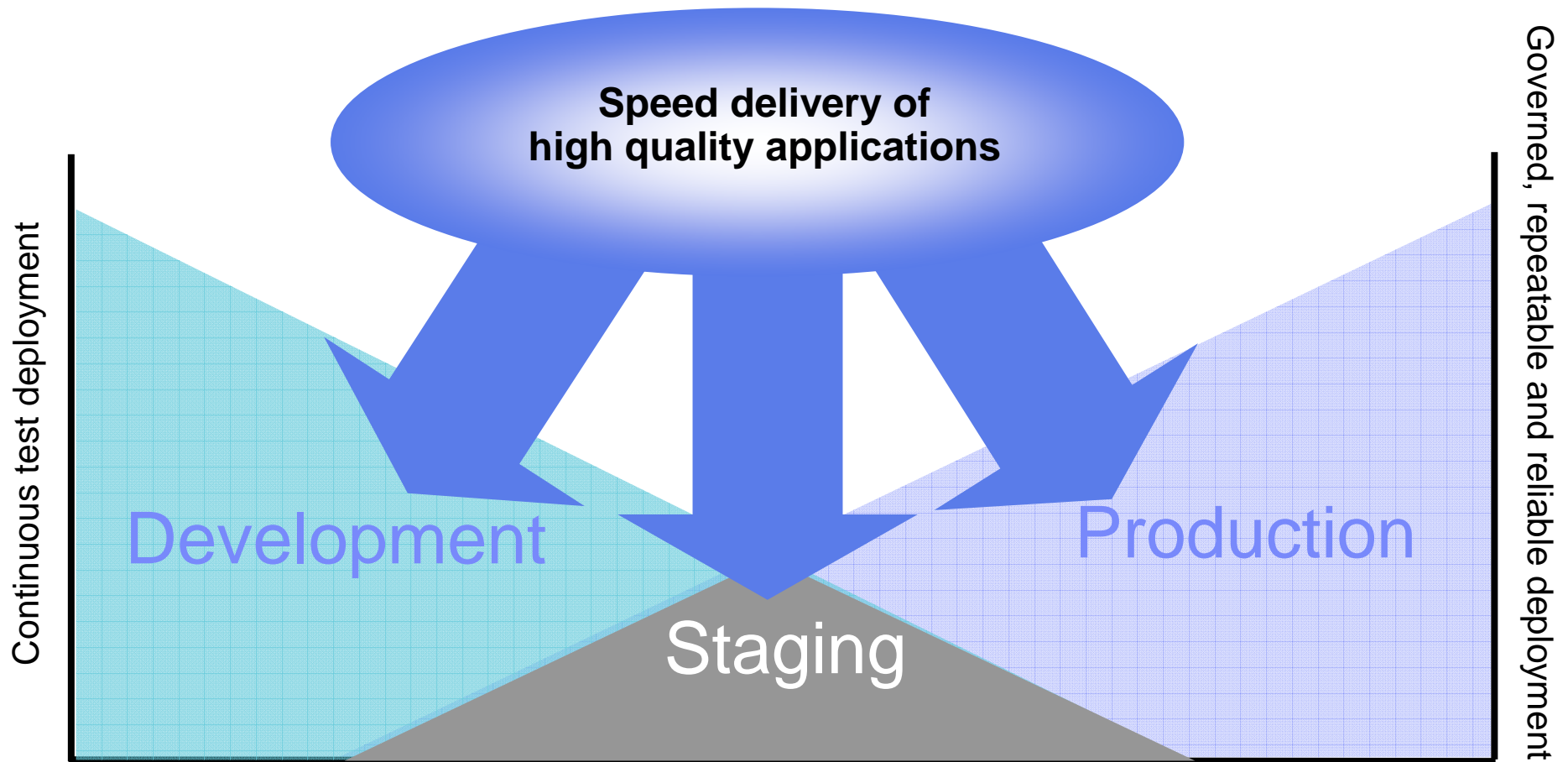


- ✓ 50% of applications put into production are later rolled back *(Gartner)*
- ✓ 60% - 80% of an average company's IT budget is spent on maintaining existing applications *(Intelligent Enterprise.com)*
- ✓ Software related downtime cost industries almost \$300 billion annually *(CENTS - Comparative Economic Normalization Technology Study)*

Deployment Planning & Automation Incremental Value



Deployment Planning & Automation

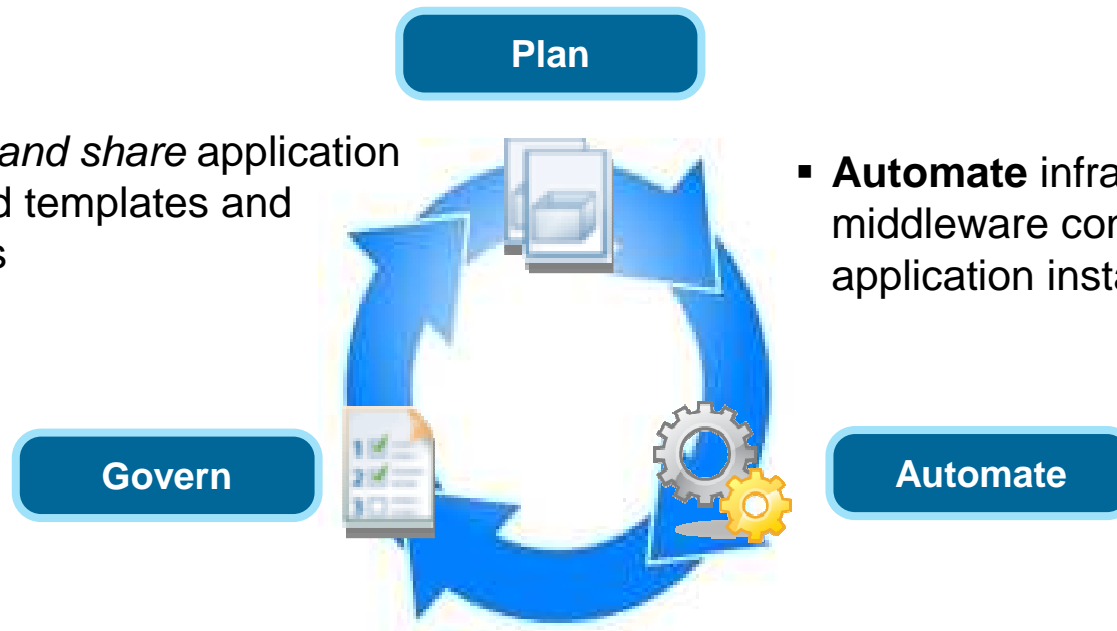


Introducing IBM Deployment Planning and Automation

- **Plan** your desired deployment using discovered resources and standard configuration templates

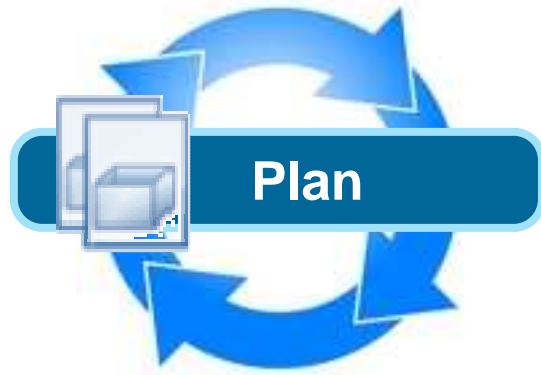
- **Govern**, *catalog and share* application artifacts, standard templates and deployment plans

- **Automate** infrastructure provisioning, middleware configuration, and application installation

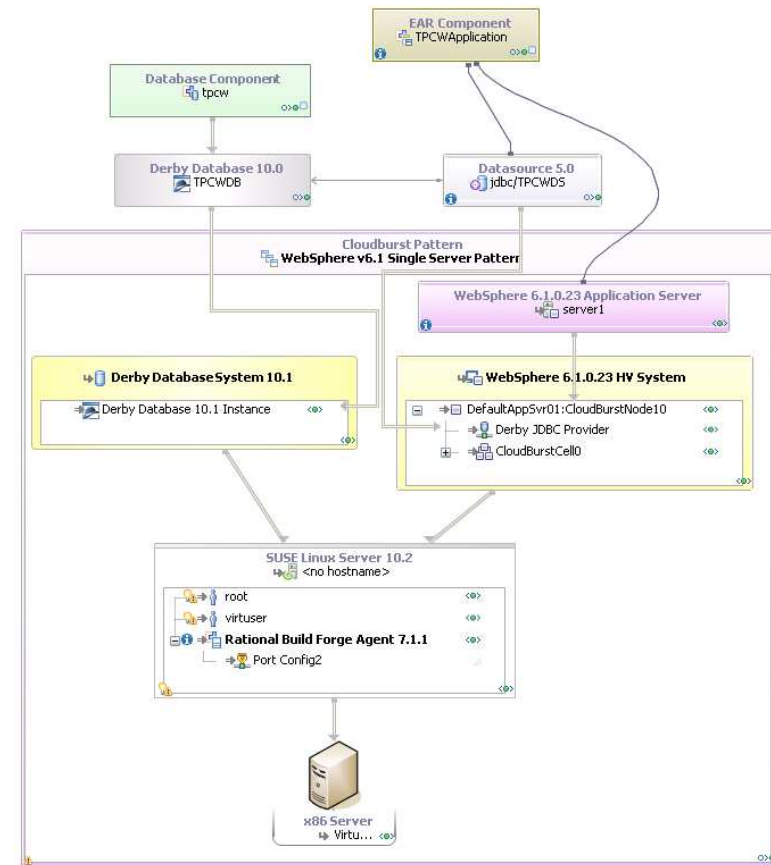


Speed the delivery of high quality applications to physical environments, virtual environments, and cloud environments

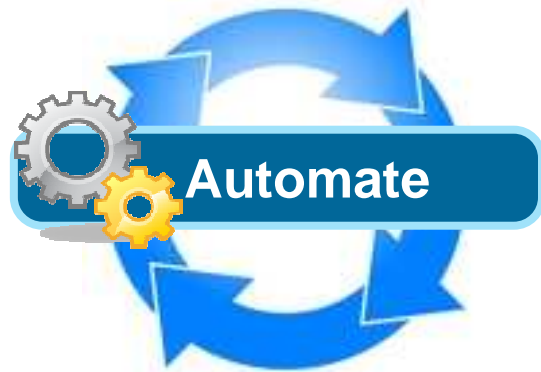
IBM Deployment Planning and Automation lifecycle



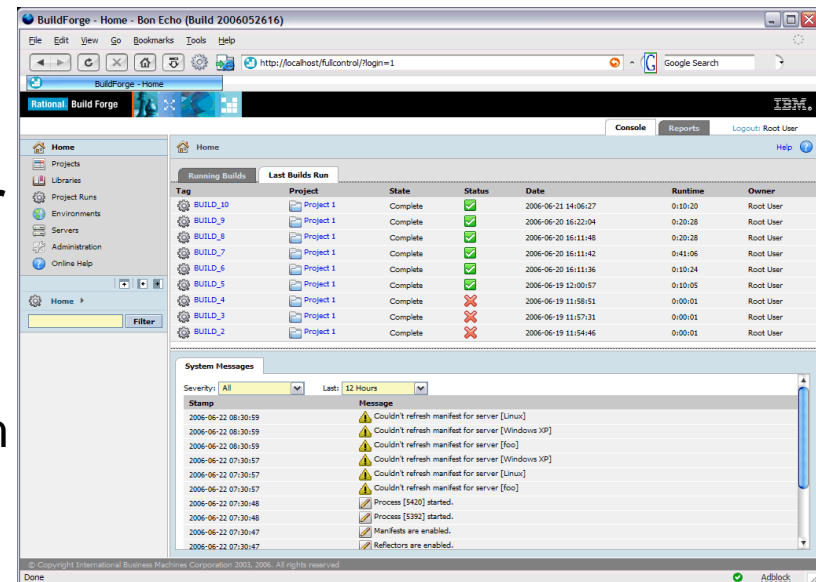
- **Rational Software Architect (RSA)** allows you to plan and validate deployment of applications and infrastructure as well as generate and publish workflows to drive automation and the creation of service templates.



IBM Deployment Planning and Automation lifecycle



- Within **Rational Automation Framework for WebSphere (RAFW)**, you can work from the published deployment workflow from RSA, refine it as required, and save it as an asset. The RAF automation engine will then perform automation activities to configure the middleware and deploy the application.

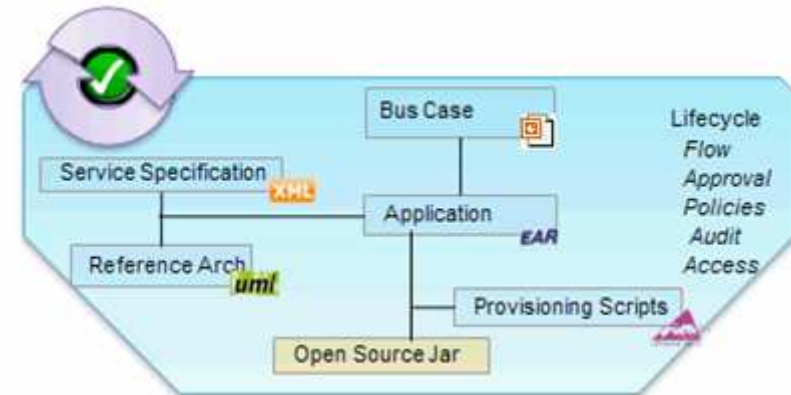


IBM Deployment Planning and Automation lifecycle



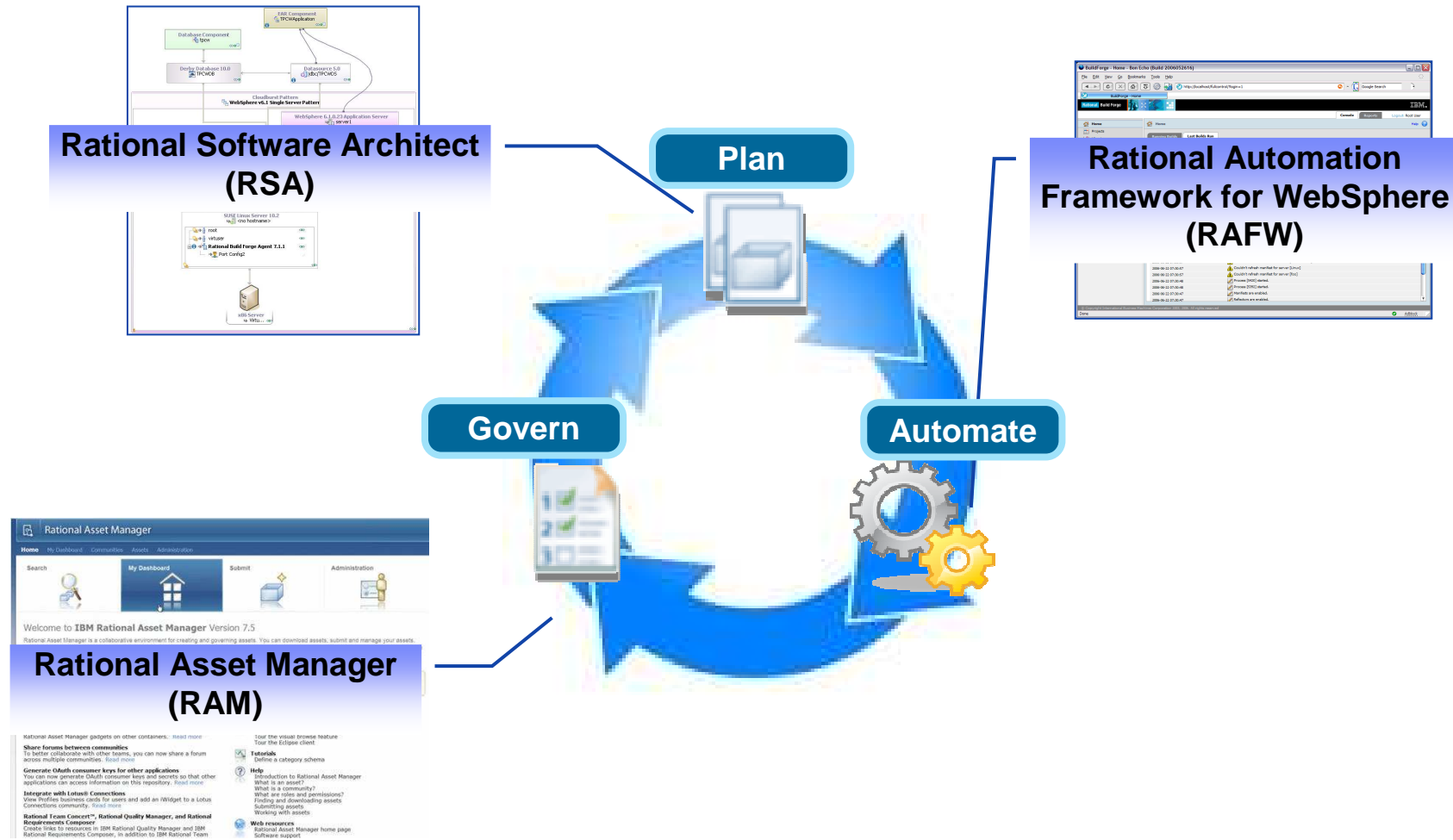
Name	Version	State	Community	Rating
WebSphere sMash	1.0	Approved	Cloud Computing Core ...	★★★★
WebSphere Portal/WCM 6.1.5-3	1.0	Approved	Cloud Computing Core ...	★★★★
WebSphere Feature Pack for OSGI Apps and JPA 2.0	1.0	Approved	Cloud Computing Core ...	★★★★
WebSphere Application Server and Rational Agent C	1.0	Approved	Cloud Computing Core ...	★★★★
suse2 10/6/09 2:13 AM	1.0	Retired	Cloud Computing Core ...	★★★★
SUSE 10 SP2				
Small System Size				

- **Rational Asset Manager (RAM)** provides a definitive library for your assets enabling strategic reuse:
 - **Catalog** enables effective search and availability of assets
 - **Govern** assets using automated reviews and policies
 - **Share** assets easily using web, rich client or integrations



Catalog, Govern and Share assets

IBM Deployment Planning and Automation Product Mapping

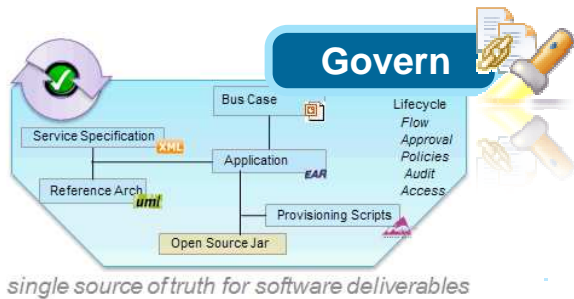


Value of the integrations

Proven templates and patterns to accelerate planning



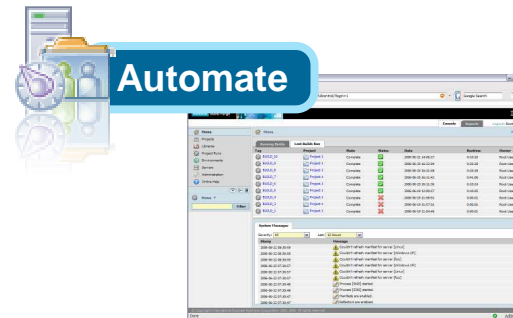
Drive automation with visual deployment plans



New technology to deploy with speed and quality

single source of truth for software deliverables



Automate deployment using approved components from the governed catalog



Deployment Planning & Automation Scenario


Solution Architect

Deployment Plan

Makes environment configurations, templates and artifacts to specify deployment plans

Governed Application Artifacts & Templates




Would love to


- Reuse known good plans and assets
- Discover existing resources vs guess

Deployment Engineer

Workflow



Install & Configure Applications



Defines environment media, creates building block workflows, creates service definition and associated management plans

Deployment Environments

Middleware

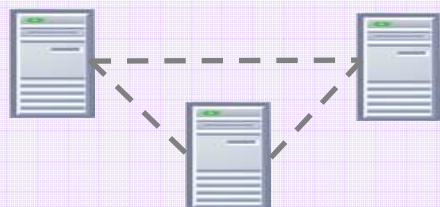


WebSphere software



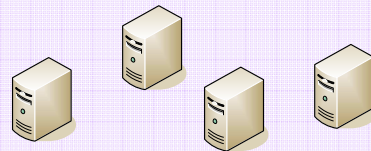
Futures...

Platforms




Physical Hosts

Or



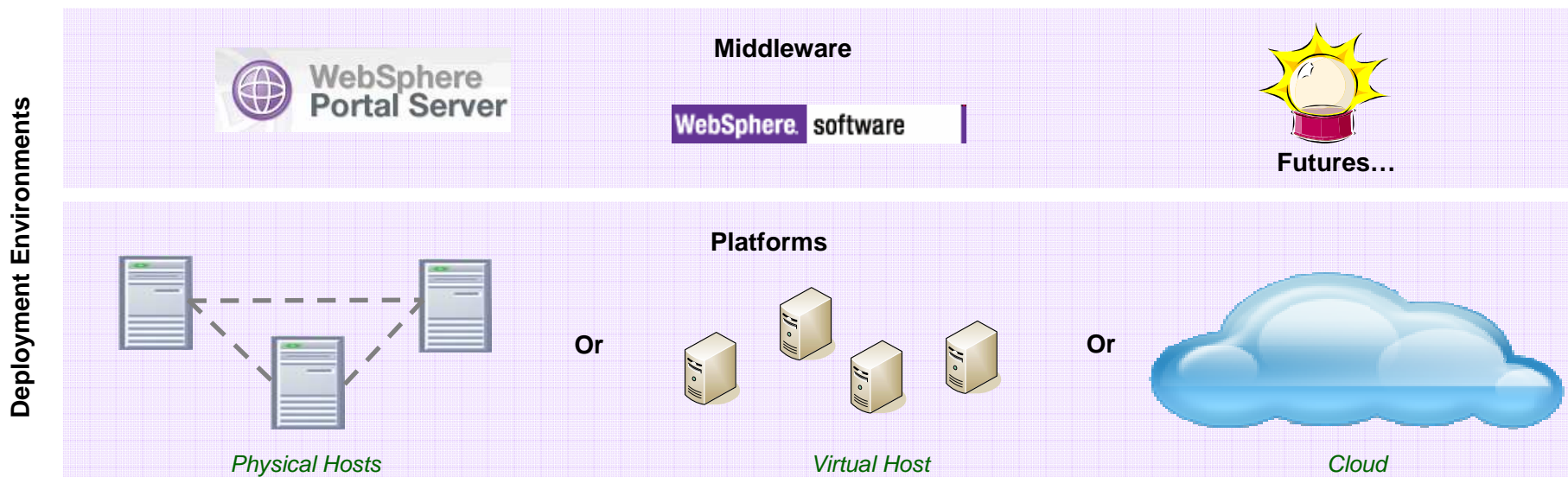
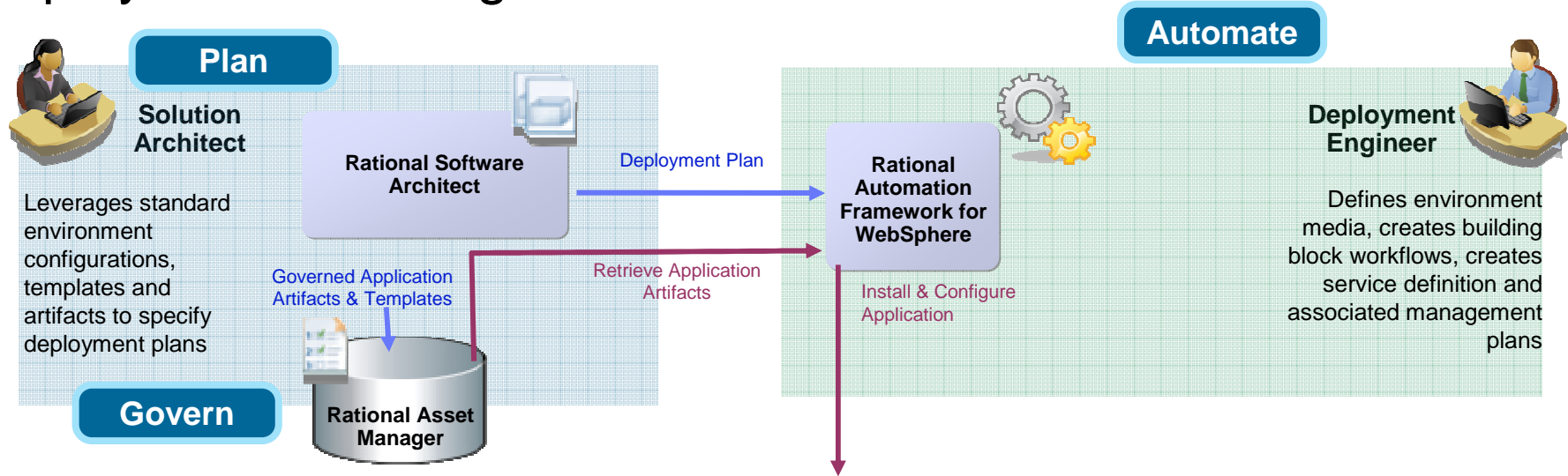
Virtual Host

Or

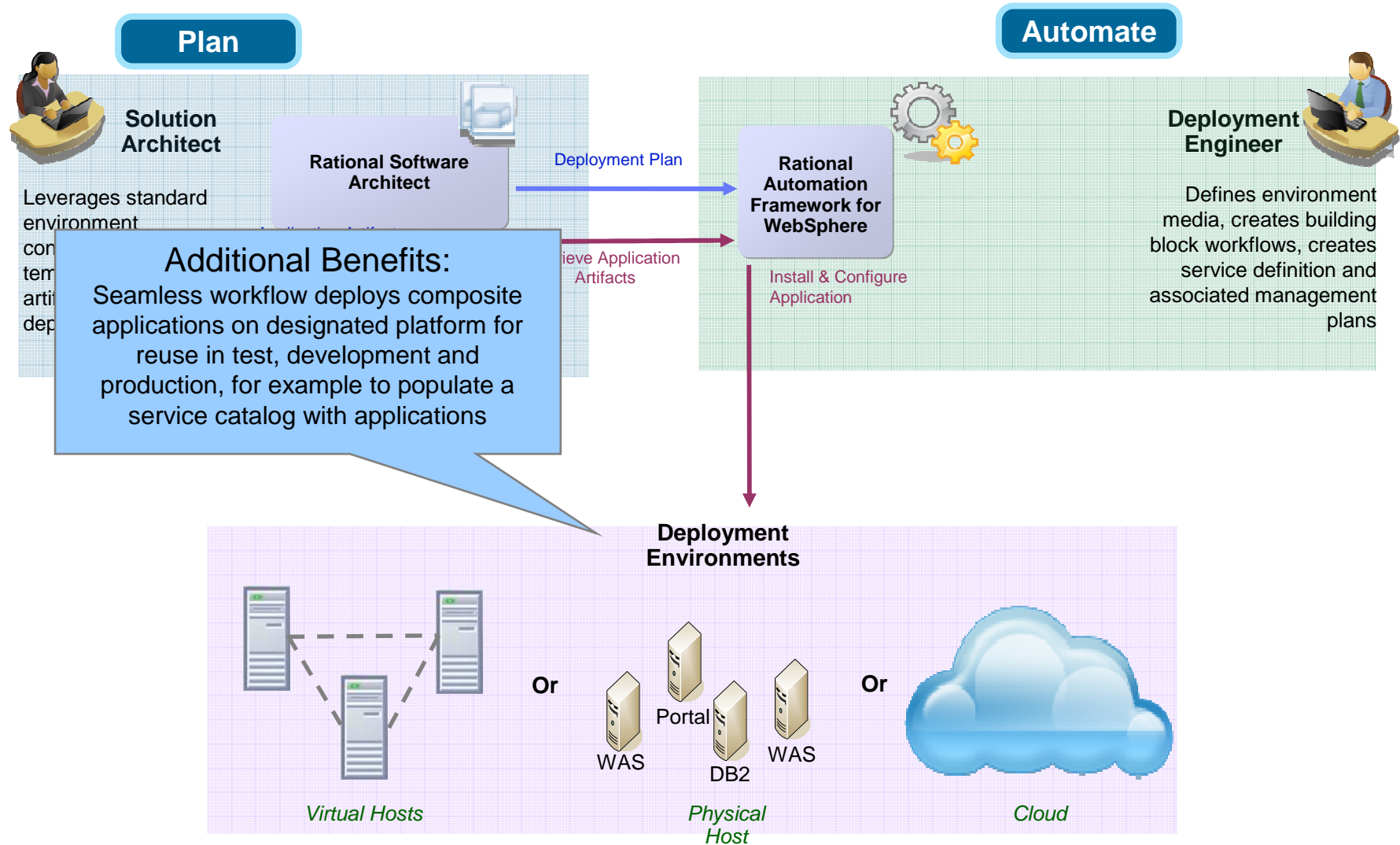


Cloud

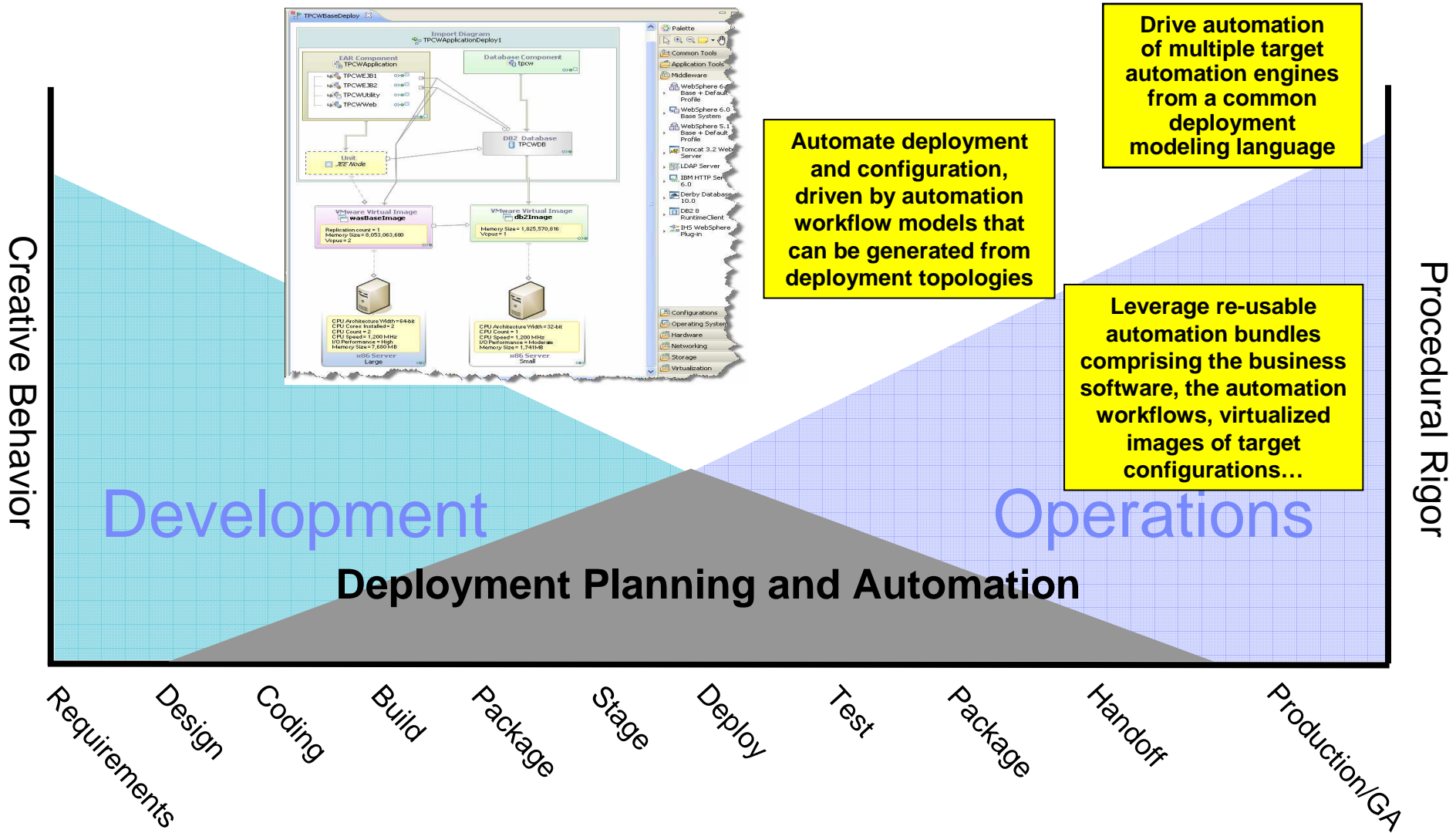
Deployment Planning & Automation Scenario Flow

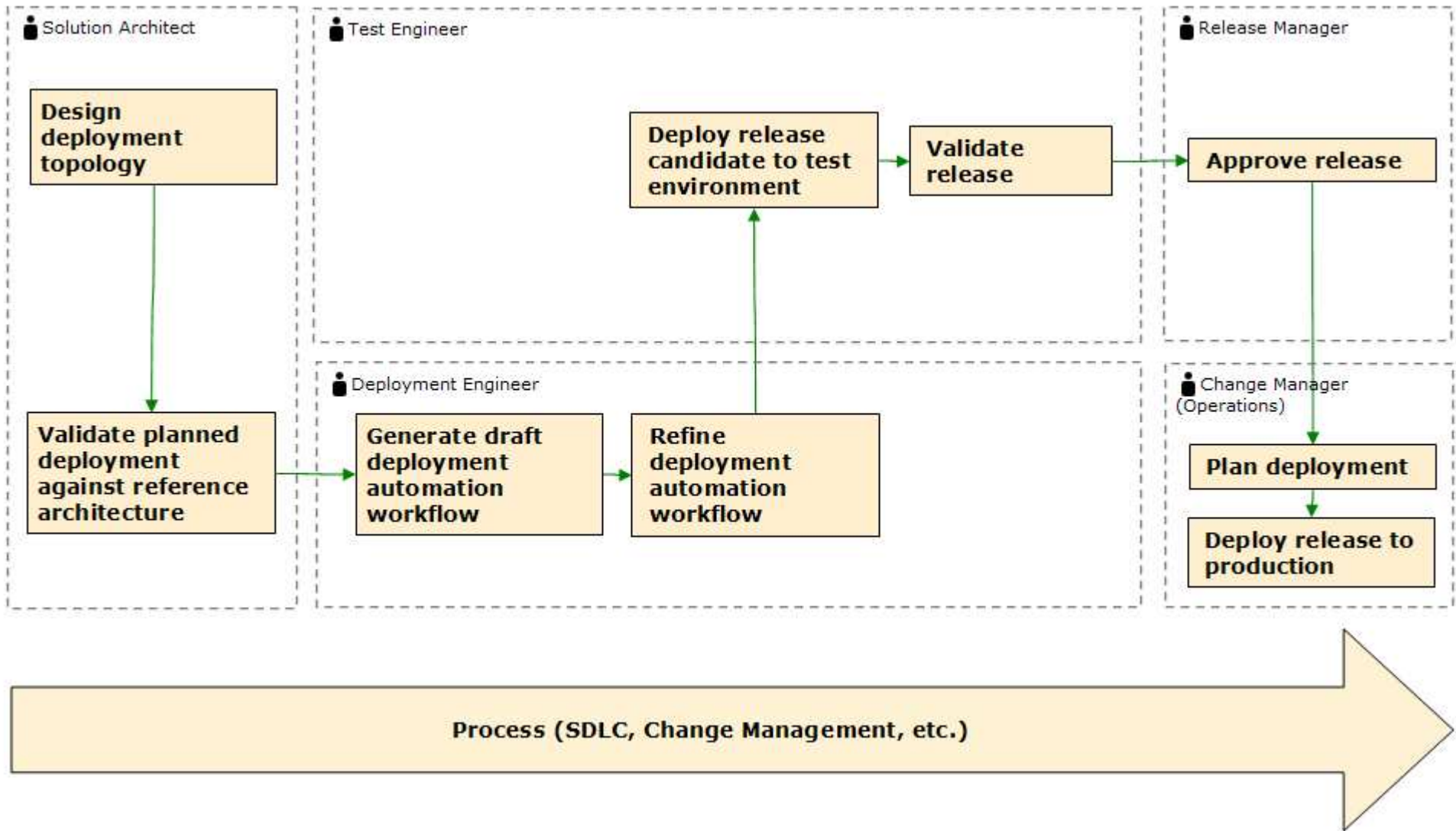


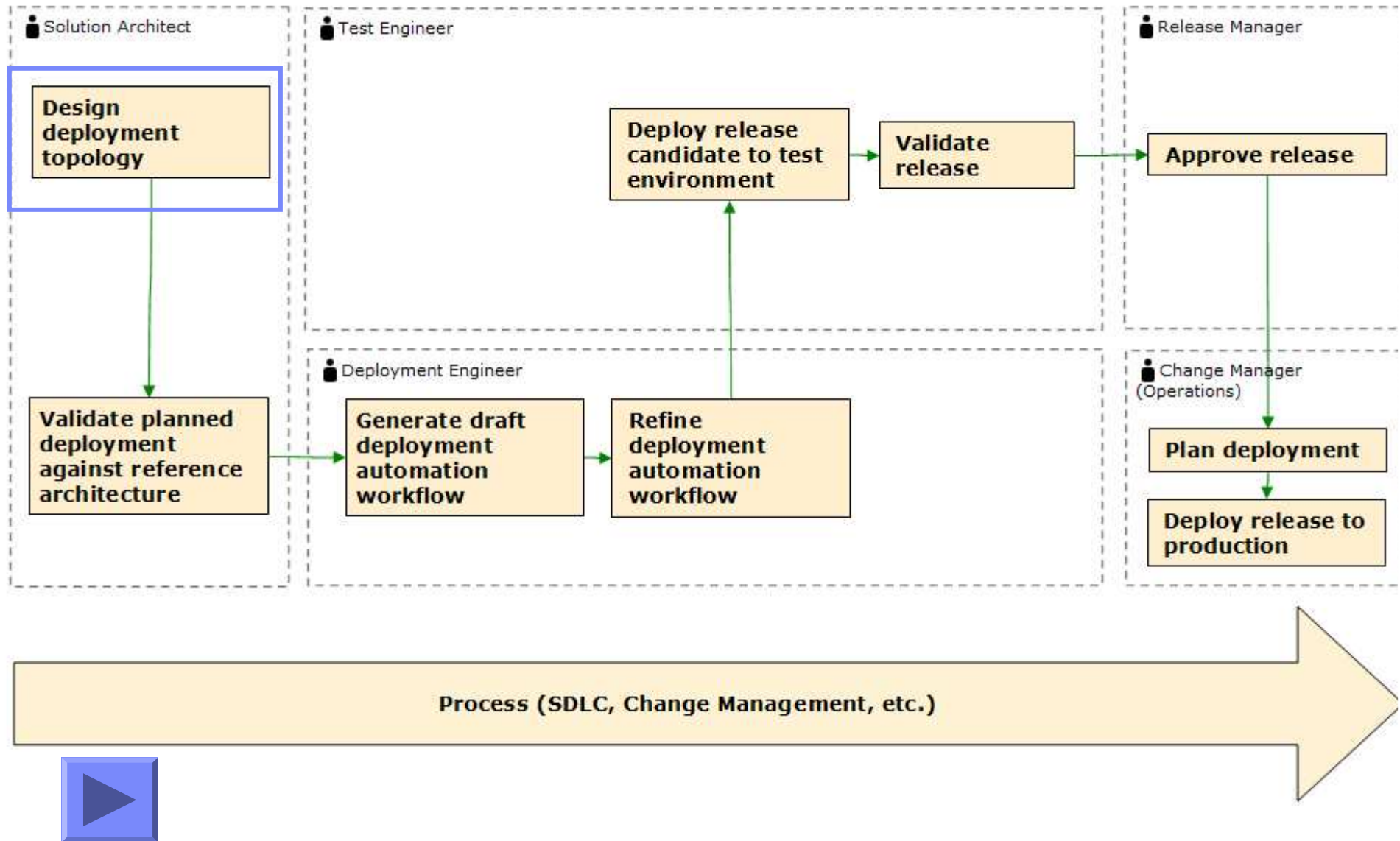
Scenario Flow

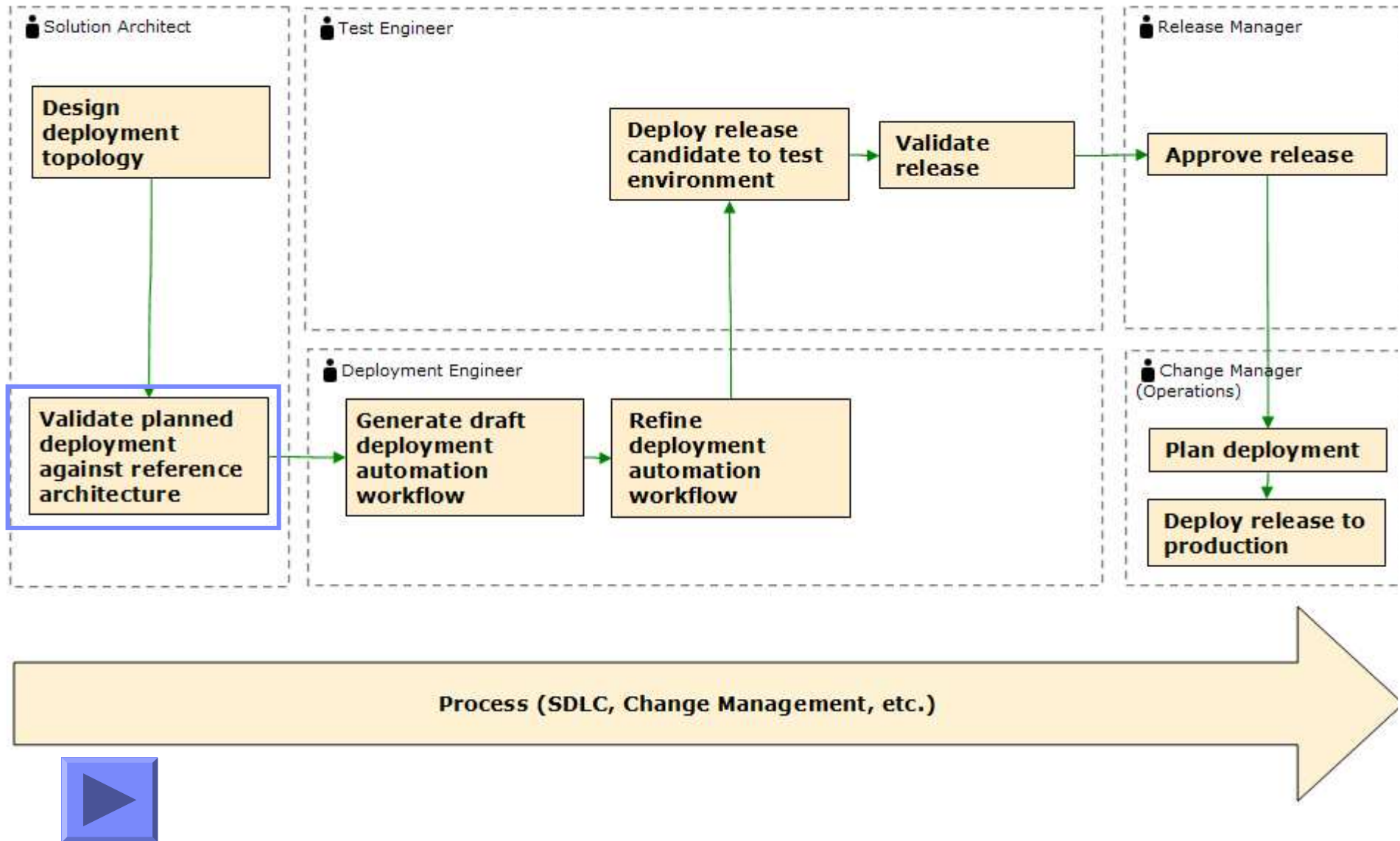


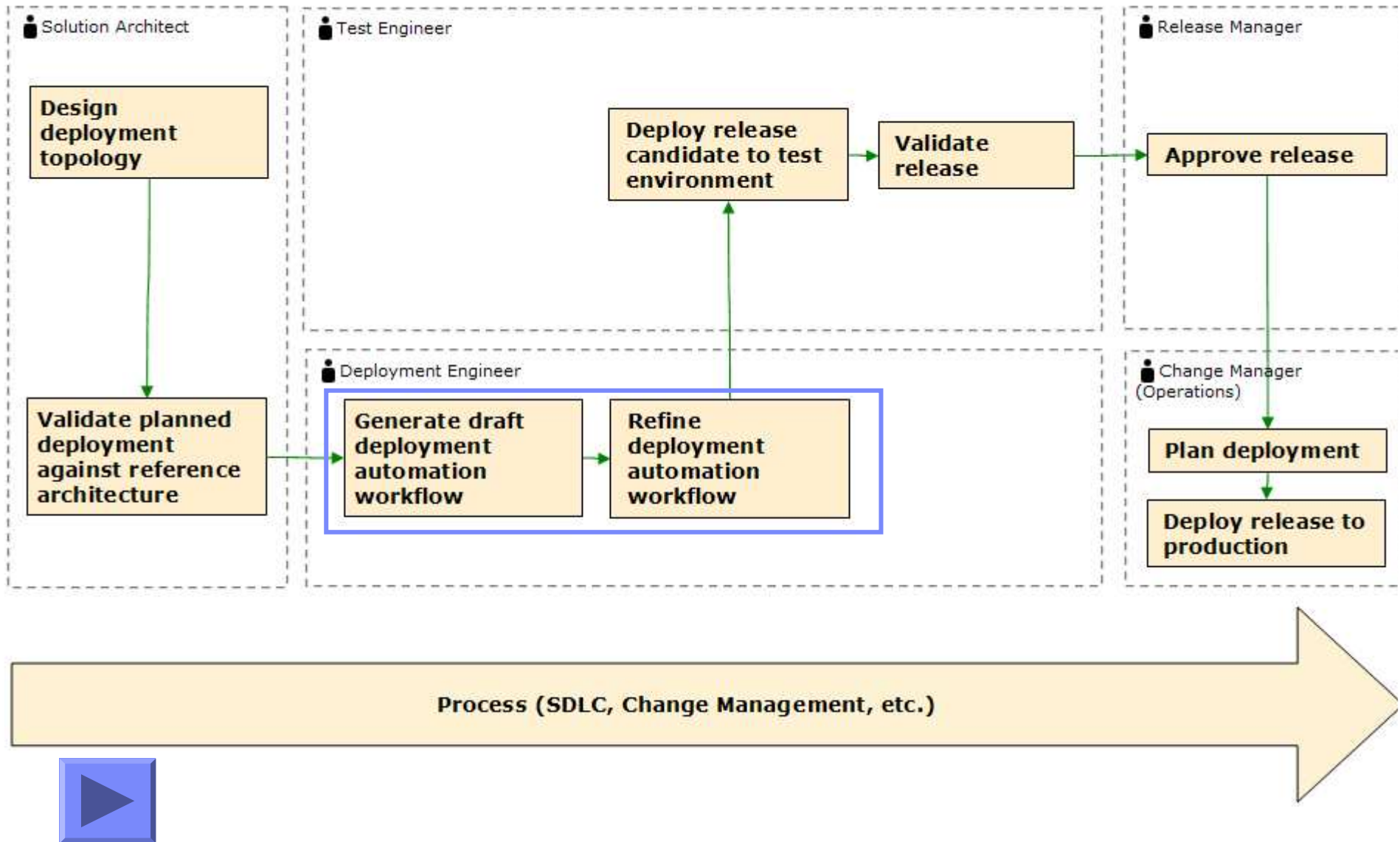
Driving automation from deployment plans adds synergy











Summary

- Deployment challenges impact the delivery of business software with real costs of time and money
- IBM Deployment Planning and Automation *speeds the delivery of high quality applications* to the physical environments, virtual environments, and cloud environments
- IBM can provide **services offerings** to help customers leverage our cross brand solution **plan, manage and govern** the delivery of important business software

