

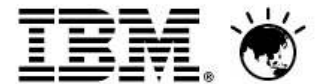
Pulse

IBM SolutionsConnect 2013

Planning and Undertaking a Maximo Upgrade

James Manna – IBM Global Business Services

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Speaker: James Manna

- IBM GBS - Maximo Solution Team
- 6+ Years working with Maximo versions 4, 5, 6 and 7
- 13+ years Enterprise Information System experience
- Experience working as a Maximo Administrator, Developer, Business Analyst, PM, Consultant and Solution Architect
- Hands on experience in a broad range of Maximo Upgrades and Implementations



Key Topics for Today's Session

- Upgrade Planning
 - Building your business case
 - Upgrade Strategy
 - Estimating Scope and Effort
- Upgrade Execution
 - Maximo Upgrade Approach
 - Leveraging the GBS Upgrade Laboratory
 - Upgrade Components & Stages
- Risk Management Summary

Focus: Considerations – Questions – Lessons Learnt



Planning: **Bringing your Business Case to Life**

Upgrade Strategic Objectives?

- Aligned with the organisations strategic objectives?
- Are the strategic objectives aligned across business units? (Operations, Engineering & Maintenance, Supply Chain)

Business Considerations

- What is your organisations appetite for Change?
- Who are the stakeholders?
- What other initiatives are you competing with in the Budget Cycle?

Quantify the Upgrade ROI?

- How can we justify/quantify? BVA?
- Reduced future upgrade cost?
- End of life support?
- Leverage new features for reduced MRO costs and reduced downtime?
- Ability to access newer/latest Industry Solutions and Add on products?

Key Performance Indicators?

- Do you have KPI's in Place?
- Do they align with your upgrade strategic objectives?
- Are your team members aware of the KPI's?
- Are their performance reviews tied to KPI's?





Planning: **Building your Business Case**

Governance and Structure

- Identify budget holder to be your “Project Champion”
- Identify members of cross functional team to bring the case together
- Building Blocks of Steering Committee

Selling the Business Case

- Create an “Elevator Pitch”
- Use your cross functional team and project champion to build “Buzz”

Magic Wand Sessions

- Go to your user community and do “Magic Wand Sessions”
- Turn your “Magic Wand Sessions” into functional and non-functional requirements
- Begin refining and prioritising requirements

Requirements, Scope & Resources

- Use the requirements to identify what kind of resources you will need to execute the upgrade
- Start forming a resource profile
- Be clear on BAU resource involvement
- Start forming a baseline scope from the requirements
- Continue to align with Strategic Objectives





Upgrade

assessment

delivering

time models

start

provide

required

team

project

Maximo



Planning: v7.5.x Feature Re-cap to Support Justification

Usability & Framework Enhancements

- Updated Look and Feel
- Application Import/Export
- Improved Table window refresh behaviour
- Improved List Page Behaviour
- Enabled 'heads down' data entry (asynchronous validation)
- Browser zoom enabled, users can zoom in (ctrl+) or zoom out (ctrl-) of application screens
- Faster date/time look up (new calendar control)
- Rich-text editor (can format text the way they want to see it)
- Enhanced QBR (save and edit QBR's)
- Automation Scripting

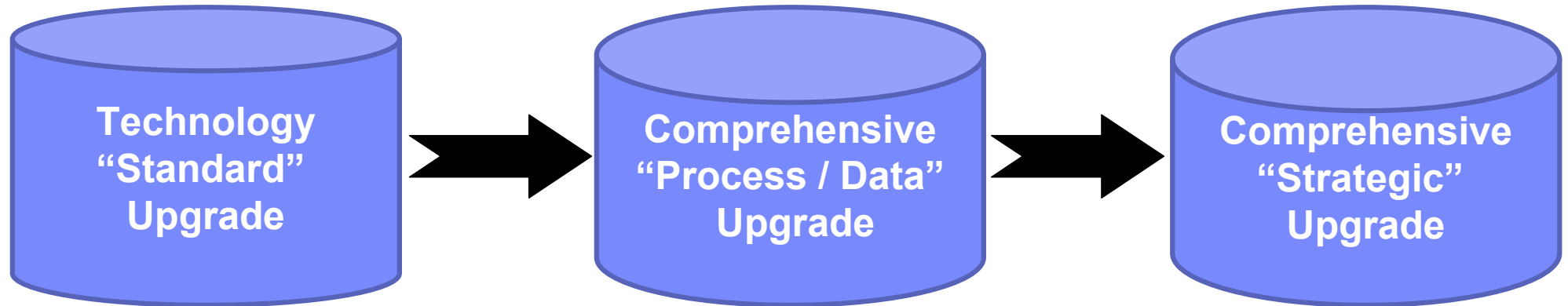
Application Enhancements

- Asset Templates
- Repair Facilities
- Linear Visual Control
- Job Plan and PO Revisioning
- Scheduler, and Graphical Assignment, Crew Support
- HS&E
- PM Forecasting
- Inventory usage
- LIFO/FIFO Costing
- Invoice Reversals
- Receipting Tolerances
- Multiple Org Shipping Addresses
- More enhancements across Related Records, Consignment records, PR, PO, Receiving, Rotating Item return, RFQ...

Features	Maximo 6.2	Maximo 7.1	Maximo 7.5
Work and Asset Management	X	X	X
Configuration applications	X	X	X
Enhanced Reporting	X	X	X
Materials Management	X	X	X
Workflow	X	X	X
Web Services		X	X
Launch in Context		X	X
Migration Manager		X	X
Conditional Expression Manager		X	X
Attached Documents at task level		X	X
Full Supply Chain Capability			X
Standard technology platform for the entire family of products			X
Application-based data Import/Export			X
Asset Templates			X
PM Forecasting			X
Automation Scripts			X



Planning: Choosing and Upgrade Strategy



- Fastest among all approaches
- Constant functional perimeter with minor user interface changes
- Opportunity to eliminate “not used” modifications and enhancements
- No new business functionality

Average Duration 2-5 months

- Built on technology upgrade
- Provides opportunity to implement additional/ new functionalities
- Opportunity to converge disparate systems
- Opportunity to reengineer business processes and eliminate unused enhancements
- Data cleansing often in scope

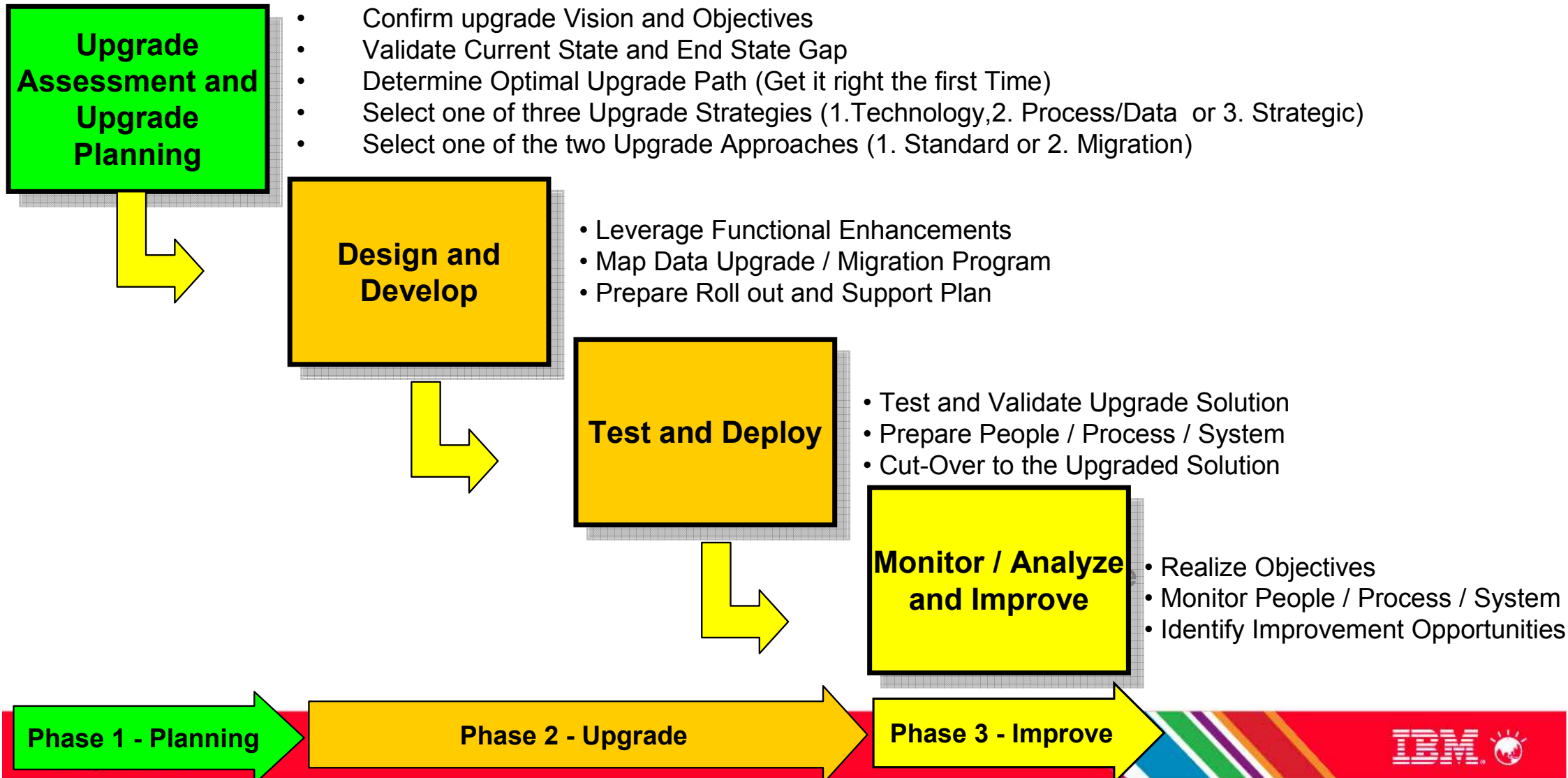
Average duration 4-12 months

- Heavily leverage new features & functions
- Provides flexibility to business process innovation
- Represents significant technology improvements
- Larger investment with ability to Maximise ROI

Average duration 9-18 months



Planning: Overall IBM GBS Upgrade Process





Planning: Estimating Scope & Effort – GBS Upgrade Assessment

- Thorough evaluation of the current Maximo implementation
- Provide high quality assessment results consistently
 - Work with you throughout the upgrade process
 - Utilize a standard set of assessment templates for consistent and measurable results
- Provide analysis of due diligence in arriving at conclusions and estimates
- Select the most Optimal Upgrade Path based on Assessment Results
 - *Get it Right the First Time!*





Planning: Estimating Scope & Effort – GBS Assessment Report

- Summarizes the technical and functional state of the current Maximo system.
- Used by the client, assessment team and the upgrade team as the baseline for planning.
- Encompasses all facts and assumptions the upgrade plan will be based on.

Current State Assessment Report Contents

1. Upgrade assessment Report Overview
2. Infrastructure Assessment
3. Functional Assessment
4. Site / Organization Review
5. Data Assessment
6. Workflow Analysis
7. Configuration and Infrastructure Review
8. Integrations and Customizations Review
9. Product Add-ons and Services Solutions
10. Reporting Assessment
11. Training Assessment

Outcomes of the Assessment Report

1. Executive Summary
2. Assessment Findings
3. Recommended Solutions
4. Upgrade Approach
5. Implementation Plan / Strategy
 1. Scope
 2. Key Objectives
 3. WBS (High Level)
 4. Milestones
 5. Implementation Team
 6. Timeline
 7. Training



Execution: Upgrade Approach: Standard Upgrade vs. Migrate

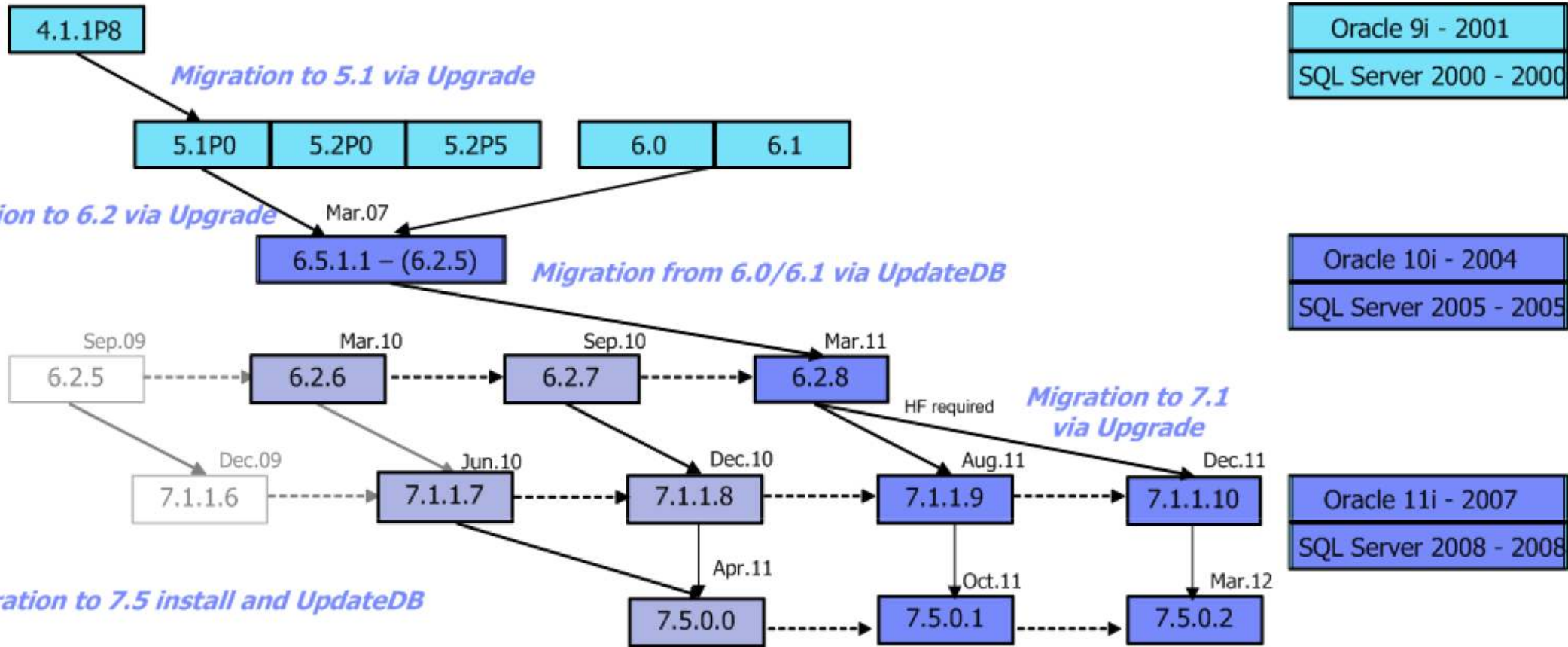
Standard Upgrade In-situ

- Utilise proven and tested upgrade tools and scripts
- More robust Data Integrity -> reduced ongoing support.
- Requires SI with upgrade experience and tools
- Reduced overall QA effort

Data Migration

- Can seem 'easier' (less specific skillset required)
- MIF validates data well, however in flight transactions (receipts etc.) can cause ongoing data integrity issues
- Higher QA effort -> Detailed data reconciliation becomes a focus.
- Aligns well to upgrades which already have system consolidation scope.
- Attractive option v5 or earlier if upgrade skills/resources not available.

Execution: Upgrade Approach: Standard Upgrade vs. Migrate



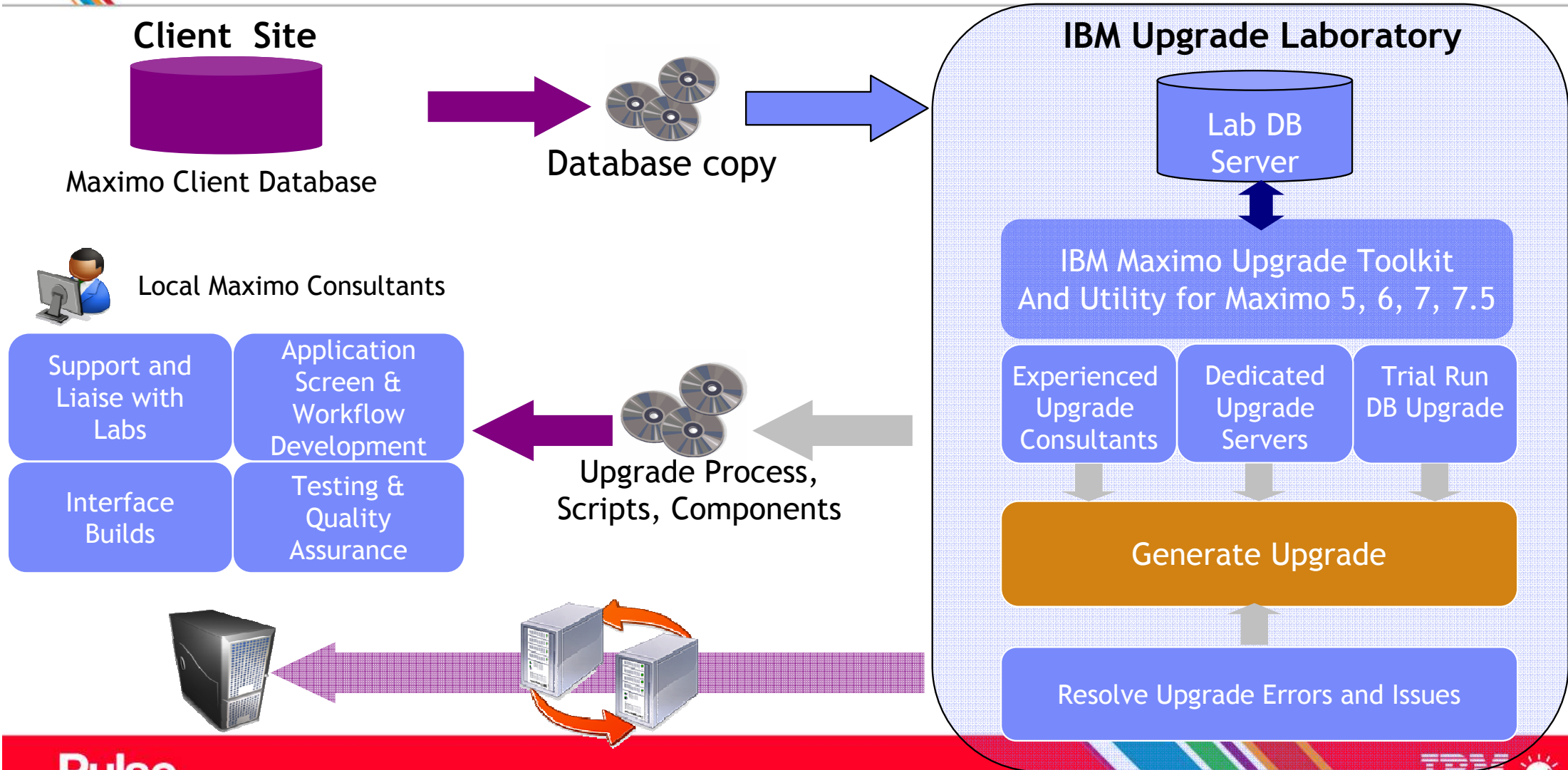


Execution: Leveraging the GBS Upgrade Laboratory

- Unique IBM GBS offering based in the US.
- 30 upgrades around the world completed since lab inception.
- IBM Upgrade Lab resources are the same resources that wrote the process for the technical upgrade scripts available through IBM Tivoli to all customers and third party suppliers.
- Reduced expenses (all technical DB upgrade work performed remotely).
- No added on-site H/W costs (leverages remote IBM equipment).
- Optimal performance (high end IBM servers utilized).
- IBM upgrade SME assigned (this is all they do).
- Faster issue resolution (IBM developers and/or support staff can quickly resolve issues).



Execution: Leveraging the GBS Upgrade Laboratory





Execution: Components and Stages

Environments and Infrastructure

- Final Infrastructure Plan
- Build new environments (required for v7.5)

Trial Run

- First pass of Maximo database upgrade
- Issue tracking and resolution
- Develop scripts and configurations as required
- Data Cleansing as required
- Most time consuming phase

Analysis & Design

- Scoping workshops to assess data and process requirements (Leverage Assessment work).
- Perform Process & Functional Gap Analysis and Resolution (Depending on Upgrade Strategy)
- Solution architecture finalisation

Development

- Upgrade/Migrate Application XML's, Workflow, Interfaces, Customisations
- Unit testing





Execution: Components and Stages

Data Migration

- Execute Data migration Scripts (if required)
- Enter additional data

Training and Change Management

- Trainer and End User Training
- Organisational Change management

QA

- System Testing, Integration Testing

Dry Run

- Final Dress Rehearsal of Upgrade Scripts and Process
- Final User Acceptance Testing

Live Upgrade

- Final go-live preparation & execution

Post go-live support

- Immediate “Over-the-Shoulder”
- Hypercare support and stabilisation
- Ongoing Monitor/Analyse period – Performance Monitoring and Tuning





Summary of Upgrade Tips & Lessons Learnt

- Select the right upgrade strategy to suit your business needs & circumstances.
- Estimate testing and QA Effort in proportion with level of your existing configuration & customisation.
- Be clear on definition of “like for like”.
- Ensure you are clear on business process change and impact.
- Be clear & realistic about BAU resource availability & commitment for project involvement.
- Have a clear project management and risk/issues/task tracking methodology in proportion to the complexity of the project.
- Choose a Implementation partner with a proven track record.
- Ongoing: Apply Fix packs often – define a strategy and budget – build repeatable QA process.



Questions?

