









A CIMdata Education Webinar

Learning Objectives

What you should understand at the end of this session

- Why use a formal project management methodology when implementing PLM?
- Necessary tasks in organizing a PLM program and associated project team
- Key roles and responsibilities that need to be understood and assigned
- Managing and mitigating PLM program risks

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Using Project Management for PLM Success

Discussion topics

- PLM and PM methodology Why and What
- The benefits of following a well-defined project management methodology
- Project team
 - Work Breakdown Structure
 - Best practices for each role
- Top 10 risk areas focused planning will increase success

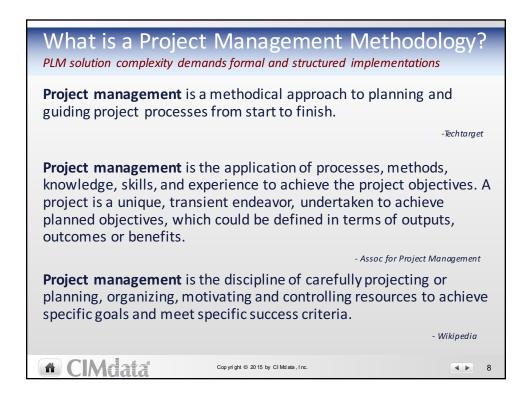


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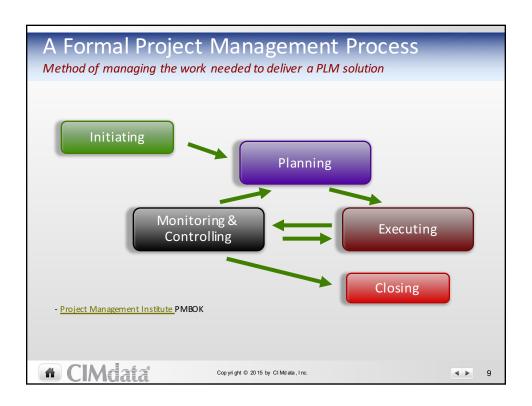


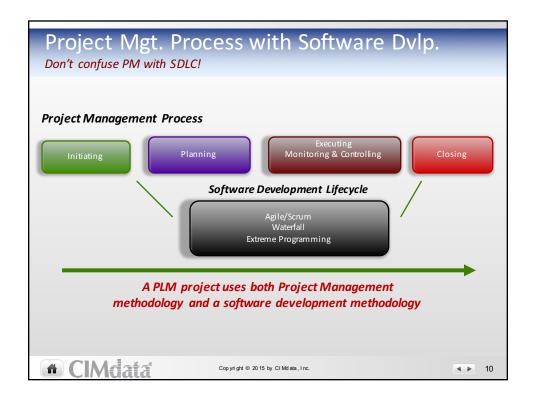




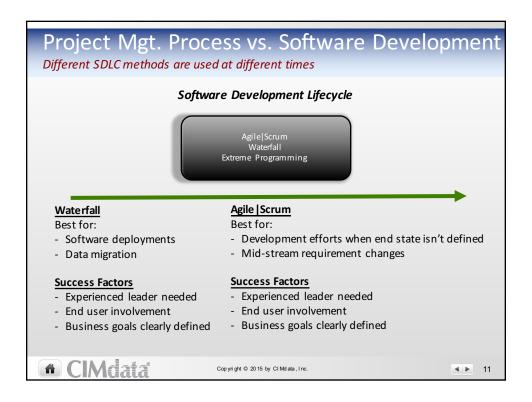


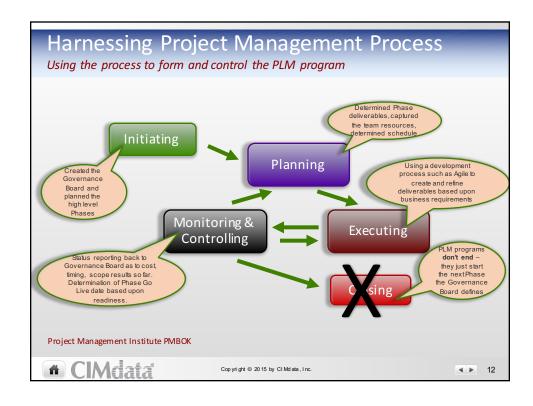








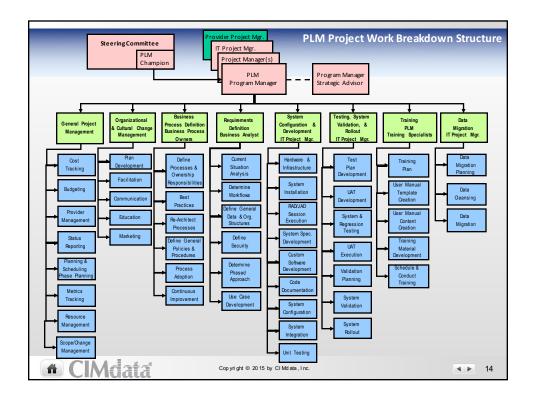




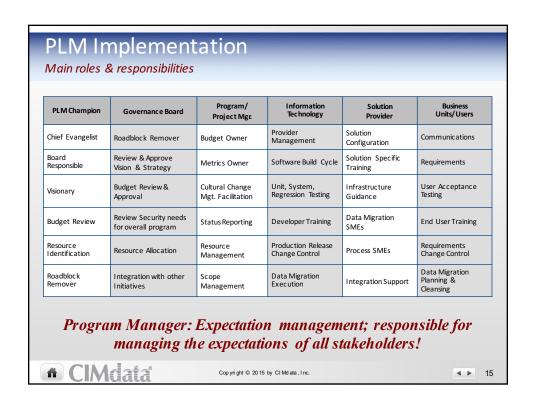


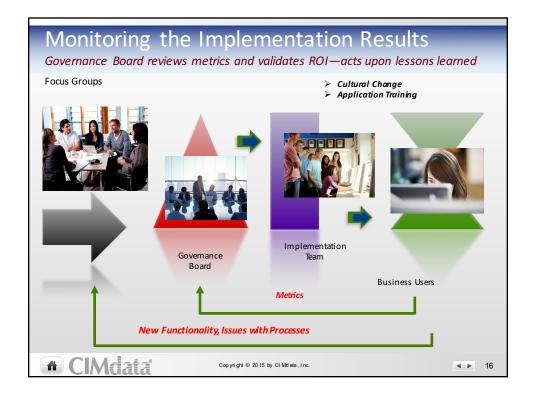
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Benefits Using a formal project management methodology minimizes risk to success • Demands adequate planning from the project team, minimizing surprises • The team will document and plan for risk mitigation and avoidance • Creating a resource plan ensures proper skillsets utilized at the proper time • Produces timing forecasts, budget tracking and scope mgt. • The Governance Board can make better informed decisions • Creates transparency through formal communication channels—garnering trust within the user community • Using a Change Control process manages expectations of the stakeholders











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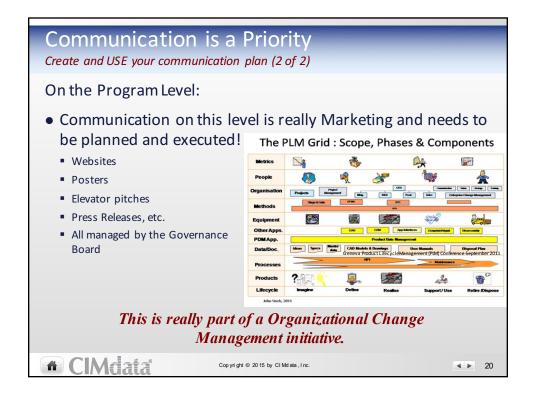
Project Team Setup - Best practices General PM success points Communications Requirements Definition Business Process Definition Organizational Change Management Data Migration Security Systems Configuration & Development Testing Adoption

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Business Process Definition & Management

Responsible party: Business process owners

- Define processes & ownership responsibilities
 - Define the processes within the scope of the program and assign owners
- Best practices
 - Capture and define best practices related to the processes within scope
- Re-architect processes
 - Support the design of use cases and associated process flows
- Define general policies & procedures
 - Define and/or update corporate policies and procedures as required
- Process adoption
 - Define process metrics and follow up procedures to ensure process adherence
- Continuous improvement
 - Use metrics to consistently improve processes (as needed)



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Business Process Definition – Best Practices

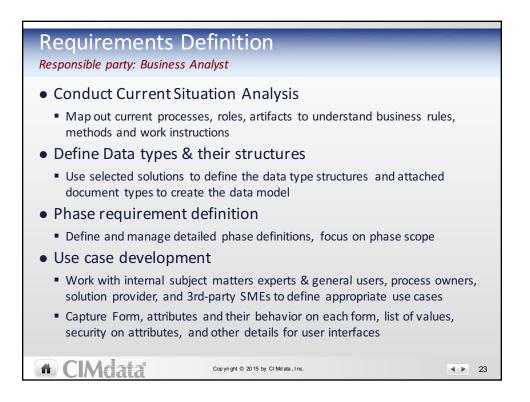
Responsible party: Business process owners

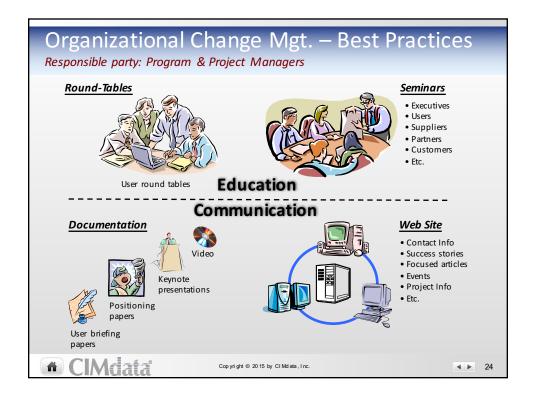
- Highly important to review and manage the design of use cases and associated process flows
 - These are directly instantiated in the PLM tools as workflows
- Define and/or update corporate policies and procedures as required, including record retention policies
 - Work with the legal department to update if needed
 - Use these policies when contracting with product design suppliers how and when they access, update and interface with your data
- Understand and own the security in the PLM solution as it pertains to your process



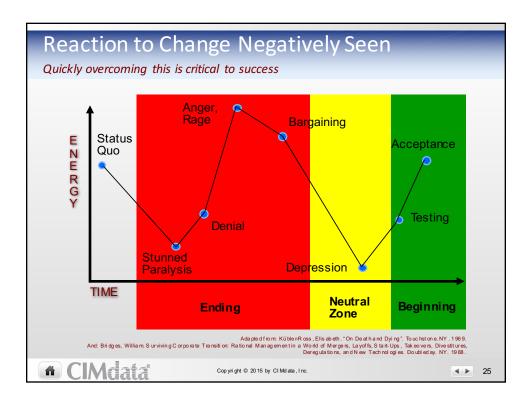
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Data Migration

Responsible party: IT project manager

- Data migration planning
 - Develop the data migration plan, including identifying the data to be migrated, the responsible individuals, the methods for cleansing and migrating, etc.
 - Determine what data to move out of the system, and if you keep it or not, per your record retention policies
- Data cleansing
 - Use manual and automated methods to cleanse data and actually input existing data into the new solution.
- Data migration
 - Define timing and schedule with all stakeholders; including Focus Group representatives
 - Migration occurs usually in conjunction with PLM phased releases

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Data Migration – Best Practices

Responsible party: IT project manager (1 of 2)

- Biggest underestimated part of project ALWAYS
 - Always, always, and for all time
- Create separate team to do this effort
 - Create large enough team to handle scope
- Data migration directly effects the project rollout
 - Determines which users may use the system and when
 - Determines what processes are rolled out first
- Know your data retention policy
 - What to keep, for how long, why?
- Ask provider to write bulk data loading programs
 - Create project tasks for developing and testing of these scripts



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Data Migration – Best Practices

Data migration may cause cost overruns to occur (2 of 2)

- Create Data Migration plan that includes:
 - Current sources of data
 - Data Migration team should have one representative for each source
 - Current data structures and nomenclature
 - Map of where data is going in PLM system
 - What data models, or data structures are needed to capture this in the new PLM
 - Description of how to handle data not being migrated
- Load data before training the end users
 - Acceptance of system relies on this being completed successfully

No data, no acceptance, no adoption = failed program!

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Security

Responsible party: IT project manager AND Business

- Security planning
 - Develop the security plan with the business representative who owns security issues and approvals
 - Validate with Governance Board
- Security monitoring
 - Use manual and automated methods to monitor and report data breaches
 - Use the Governance Board escalation process to determine action needed
- Global Security Strategy
 - Understand timing of new product introduction; how it will impact data security; and how to implement within the PLM solution
 - Make sure your data access restrictions support your organization's global data security policies

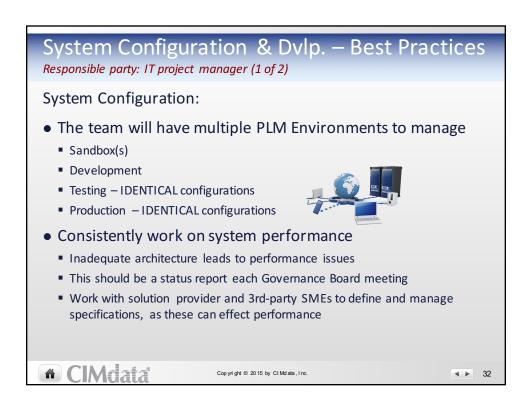


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Security — Best Practices Responsible party: IT project manager AND Business • Put Security changes policies under formal change control • May need to go through Governance Board for approval • Any changes may impact the user experience — so communicate! • A sub-board of security IT people and business people could be used to analyze impacts of the proposed changes • All security changes should be tracked • Security must be tested at each release of the system



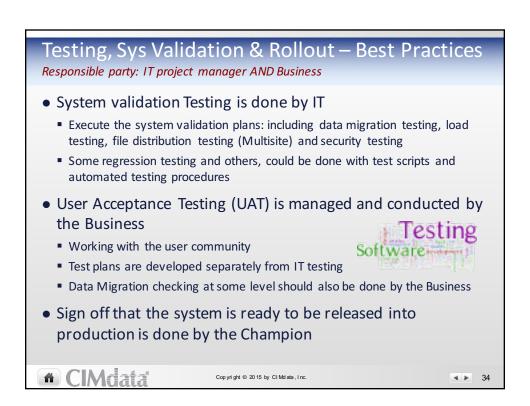


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System Configuration & Dvlp. – Best Practices *Responsible party: IT project manager (2 of 2)* Development: Documented requirements are key when using Third-party development teams – to track contract deliverables Customized code must be annotated internally to support updates Changes in preferences, switches, controls, etc. should be tracked globally for all coders and implementation teams Additions to Security and Access for new development should be tracked by the on-going security support team Remember adoption – get U/I changes to them

Unit testing is done by the developers

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Adoption — Best Practices Responsible party: Training Specialist (1 of 2) • Training plan • Determine who, what and where • Must be developed in conjunction with the next phase of the system release • Training Material • May want to incorporate vendor material • MUST include new process flows, and work instructions to achieve adoption by the end users • Process and workflow portion could be trained by business SMEs • Training Specialist is on the core team • Input is needed for scheduling upgrades to the next phase • Must coordinate training schedule with release schedule





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Top 10 Reasons Projects Fail

What needs to be remembered

Poll for your top reasons of Project Failure

- 1. Inadequately trained and/or inexperienced project managers
- 2. Failure to set and manage expectations
- 3. Poor leadership at one or more levels of the organization
- 4. Failure to adequately identify, document & track requirements
- 5. Misalignment between the project team and the business
- 6. Cultural and organizational misalignment
- 7. Poor plans and planning processes
- 8. Inadequate or misused methods
- 9. Inadequate communication
- 10. Poor effort estimation



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Solving the Top 10 Reasons Projects Fai

Most can be eliminated by following good project management practices (1 of 2)

- Obtain committed Leadership
 - Organizing the program with a Governance Board
- Harness Project Management Skills
 - Knowing and applying discipline to a proven methodology
- Spend time Planning each phase
 - Setting up the program team activities to address known PLM problem areas
 - Business Process Ownership, Data Migration, Security, Organizational Change
- Make Communication a top priority in all areas of the program
 - Use cultural change management to create adoption and spokespeople



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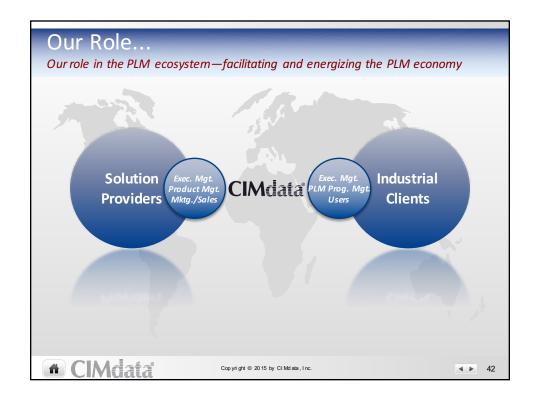
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Solving the Top 10 Reasons Projects Fail Most can be eliminated by following good project management practices (2 of 2) • Manage expectations both verbally and visually • Requirements are documented, prioritized and visualized for each phase of your program • Change Control is in place • Assess the implementation • Establish Metrics • Manage Quality Control • Commit to a sustainable program • Organize your On-going Support and operations teams • Move from Production Pilot to Production

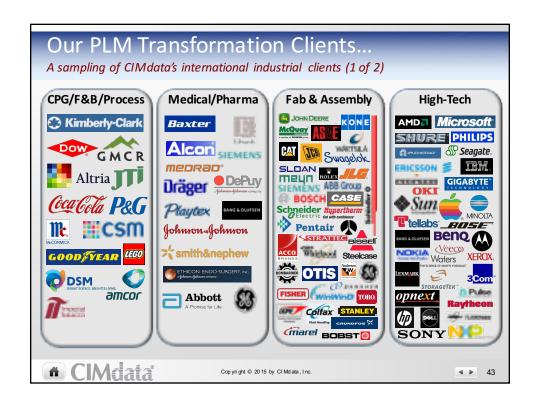


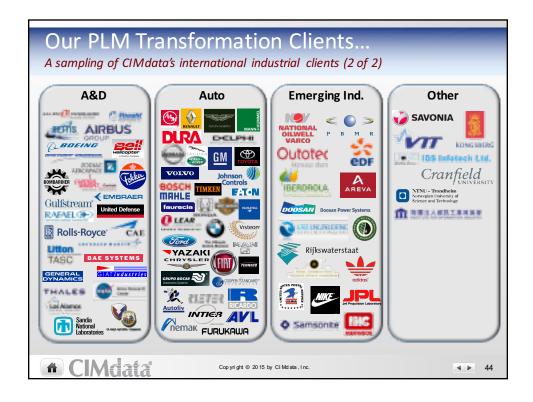














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CIMdata PLM Leadership

PLM Industry's most comprehensive non-biased education & training offering

CIMdata's certificate program is primarily comprised of a set of well defined, assessment-based PLM education and training classes.

These certificate programs are available to industrial companies who are considering and/or implementing PLM, and to PLM technology and service solution providers.



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PLM Certificate Program Outline

5-day, 9-session outline for PLM Leadership offering

- Day 1: Session 1: Introduction to PLM
- Day 2: Session 2: PLM Benefits & Potential Value
 Session 3: PLM Strategy & Solution Definition
- Day 3: Session 4: PLM Solution Evaluation & Selection Session 5: PLM Implementation, Monitoring & Continuous Improvement
- Day 4: Session 6: PLM Process Development & Testing Session 7: Integrating PLM within the Enterprise
- Day 5: Session 8: Expanding PLM Across the Value Chain Session 9: Configuration Management's Role in PLM

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