

IBM Software Group

Global Development and Delivery













Distributed Development should be

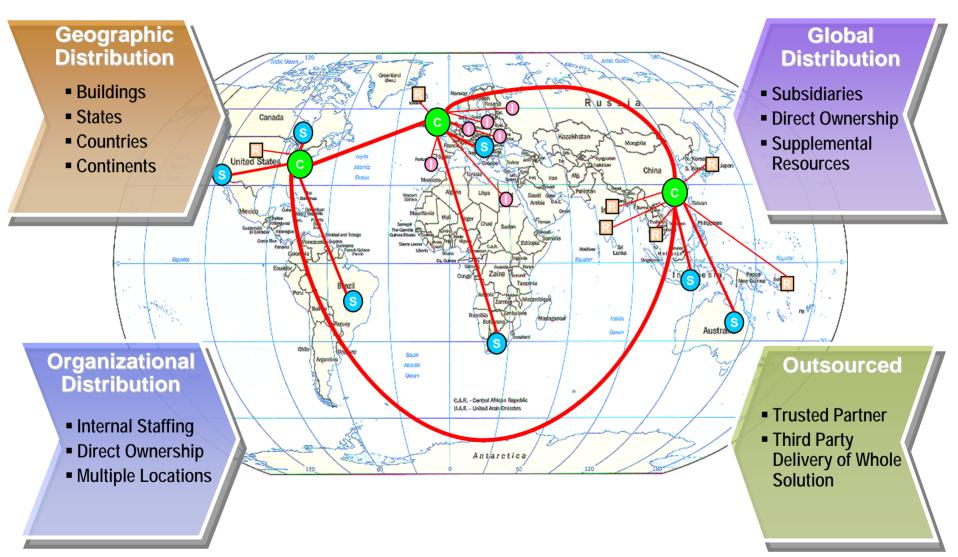
... a global, Web-enabled playing field that allows for multiple forms of collaboration --- the sharing of knowledge and work --- in real time, without regard to geography, distance, or, in the near future, even language. It is... this new global playing field for multiple forms of collaboration.

The World is Flat





Distributed Development Categories









Agenda

1 Bait and Switch? Real Costs of GDD

2 GDD Common Pitfalls

3 Thriving with Global Development

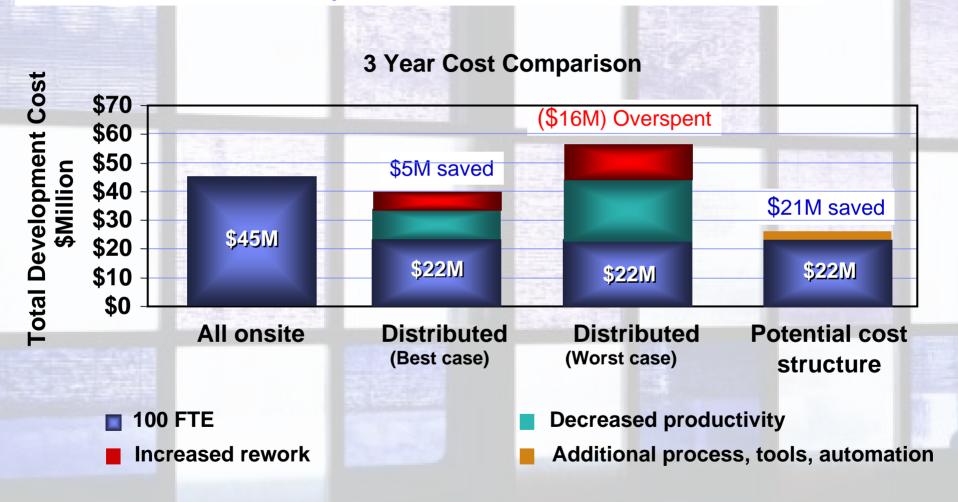
The State of Your State







Distributed Development - Unadvertised Costs



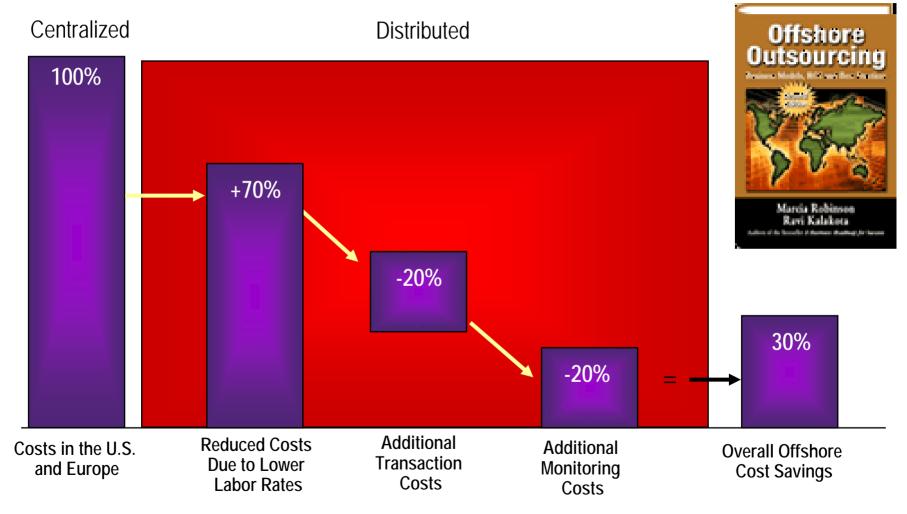
Note: This cost analysis is based on IBM/Rational customer experience.







The Economics of Offshore Development



"Offshore Outsourcing – Business Models, ROI and Best Practices" Marcia Robinson & Ravi Kalakota







The Hidden Costs

Productivity

- Poor Requirements
- Cultural Concerns
- Time Zones Trade-offs
- Additional Project Management
- Mismatched SCM
- Poor Hand-offs
- Multiple Deliveries

Transactions

- Multiple Versions of Similar Products
- Legal / Vendor Selection
- Additional Servers and Administration
- High Speed Connections
- Conference Calls, Travel, Scrums

Rework

- High Initial Defect Density
- · Requirements Mismatch
- Poorly Defined Deliverables
- Wrong VersionsDelivered
- Poor Strategic
 Knowledge

Potential Productivity Decline of up to 50%, Transactional Increases of up to 20% and Rework Increases of 30-50%.







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Business Drivers Can Create Pitfalls

Business drivers

- Acquisitions and mergers
- Increased flexibility to adapt quickly
- Budget cuts / cost reductions
- Skill shortage
- Variable staffing model
- Application backlogs
- Competitive edge with decreased time to market and low cost solution

Global
Development
& Delivery

Pitfalls

- Mismatched and misunderstood process
- Communication issues
- Cultural issues
- Decreased productivity
- Increased rework
- Mistakes in work-transfer
- Higher coordination costs
- Political issues
- Lack of security IP protection
- Lack of project visibility, agility and control
- Lack of project metrics unable to measure success

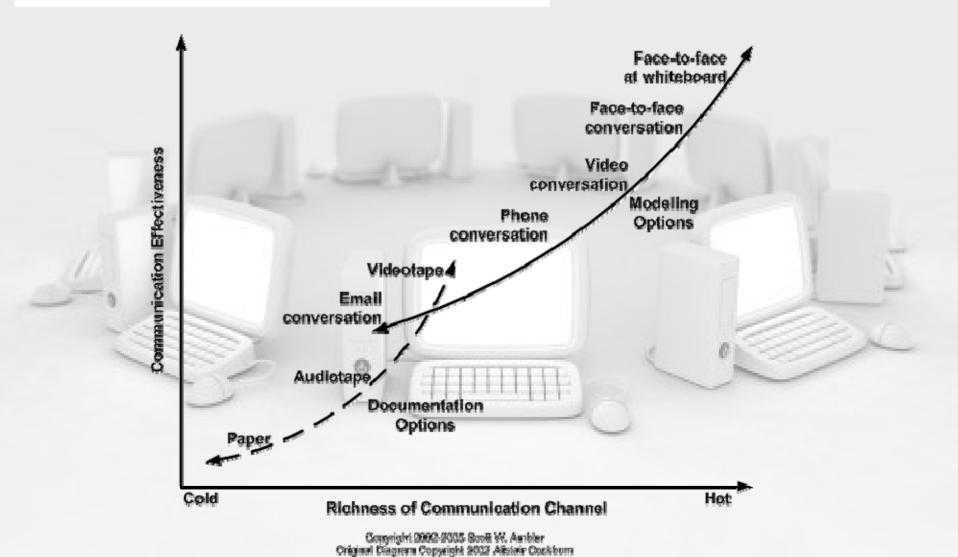
Gartner survey of 219 clients who outsourced projects offshore & domestically – half are expecting to fail to deliver anticipated savings

Creates





Ensure Communication is Rich







Most Common Pitfalls



Undefined Process

Manual Workflow

Little **Collaboration**

Symptoms

- No Stakeholder Buy-in
- Poor Project Ownership
- Ineffective Communication
- Inconsistent Metrics
- No ability to "see" across teams
- Inaccessible Information

Symptoms

- No "Managed" **Processes**
- Lagging Documentation
- Missing Requirements
- No Feature Verification (in, out or new)
- Incomplete (or unknown) impact assessments
- Little activity on risk items

Symptoms

- I ittle Automation
- Poorly Defined Roles
- Bad Hand-offs
- Long Build Times
- Ineffective Change Management
- No Understanding of Responsibilities

Symptoms

- Unclear communications
- Continued time zone and cultural issues
- Poor notification throughout team
- No record of who owns or did what
- Different tools for similar jobs









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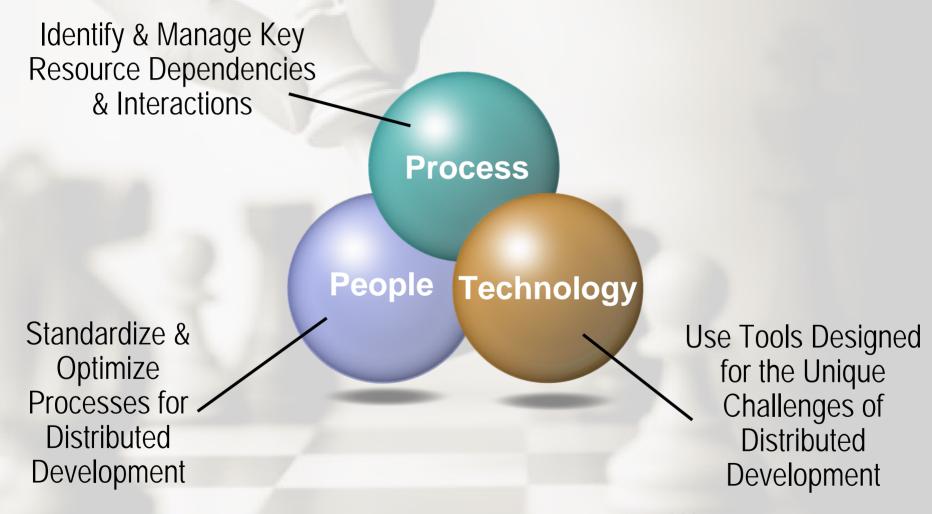
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How Do You Thrive?

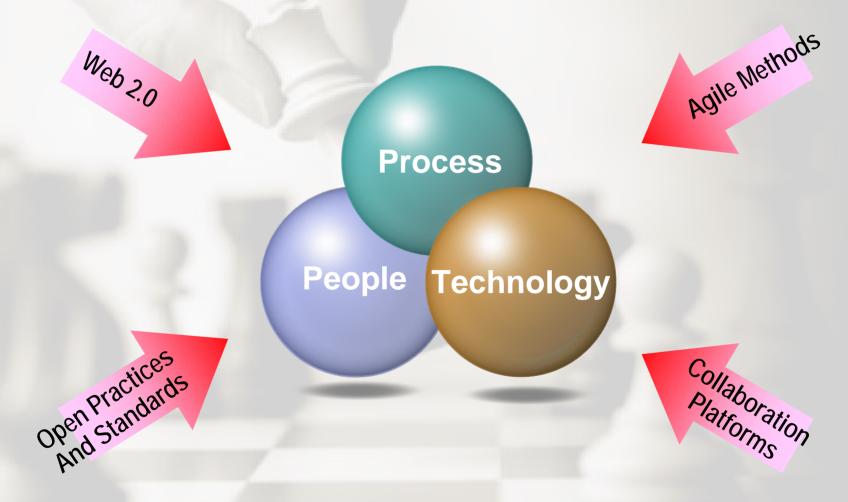


 Henry Liang, CSC LeadingEdge Forum Distributed Software Development





Leverage Trends in Distributed Development



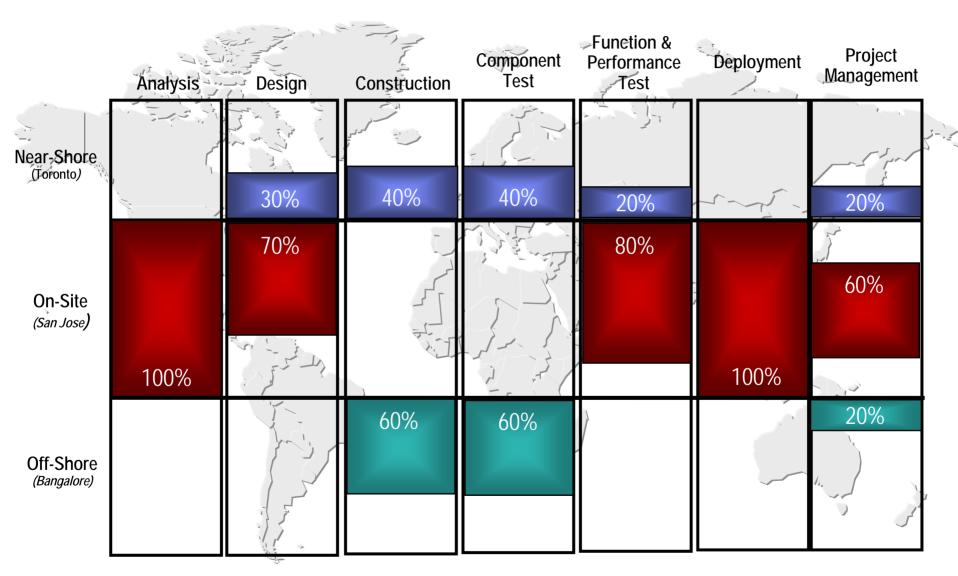
- Henry Liang, CSC LeadingEdge Forum

Distributed Software Development





Map Your Geographic Segmentation & Discipline Allocation







Best Practices for Distributed Development Success

Organize for Early

ROI

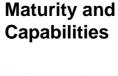
Govern Through Process Manage to the Four C's

Have a GDD Strategy

- Create an Organizational Construct
- "Force" shared tools
- Monitor, Measure, Improve

- Standardize on Requirements Process
- Automate Wherever Possible
- Ongoing Assessments

- Collaborate in Context and Record Them
- ClearCommunication
- Consolidate Change Management
- Cost Management (by Location and Project)



Understand

Know Your

• Executive Buy-in

"Bubble Effect"





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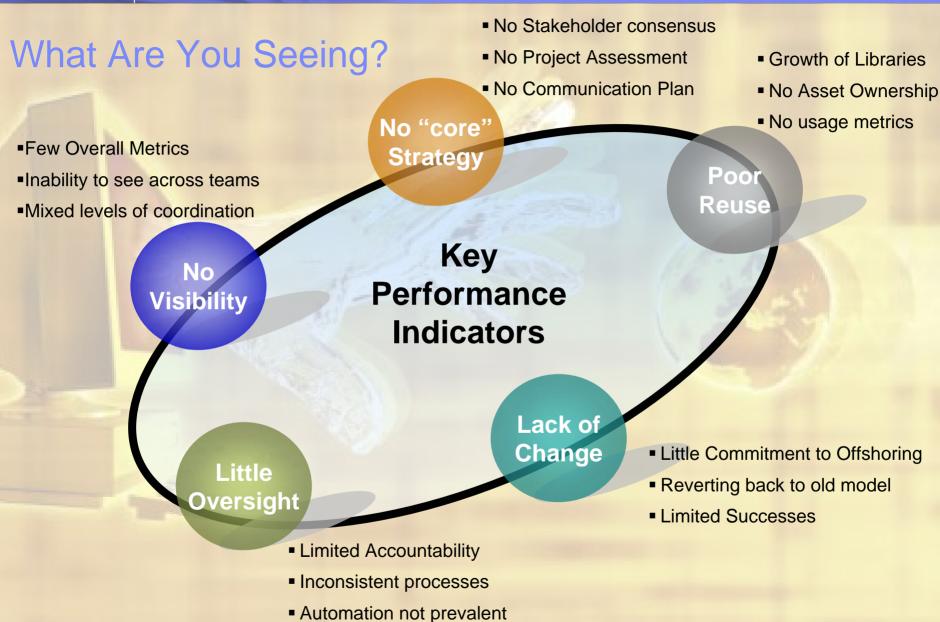
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Measuring Your Distributed Development

Establishment

Encouragement

Advancement

Strategic Focus

Internal Battles

Processes

Human Resources

Vendors

- Creating and Articulating offshore plan
- Garnering business and IT support for offshore pilots
- Identifying offshore opportunities/savings. Clarify development process
- Communicating offshore strategy with delineation of job roles impacted by offshore
- Selecting and negotiating

- Driving broader and more consistent use of offshoring resources
- Taking offshore missioncritical development and maintenance
- Project management training and documenting processes
- Including offshore usage requirements in performance metrics for Senior IT staff
- Using monthly performance scorecards with performance audits and SLA development

- Advancement
- Leveraging new services like packaged app management and remote administration
- Linking offshore efforts to cross-company process owners
- Rolling out CMM- and CMMIdevelopment methodology and certifying staff project management
- Including CMMI and process adoption metrics in IT performance metrics
- Evolving relationship structures to risk/reward model with shared risk.

-John McCarthy, Forrester Group
User's Offshore Evolution and its Governance Impact







Measure Your Metrics



Private to Individual

Helps individual improve and predict performance



Private to Program/Project

Helps project improve and predict performance



Private to Service Provider

Helps service provider improve performance, helps enterprise predict performance



Private to Enterprise

Helps enterprise improve and predict performance







Example Metrics

Requirements	Change Management	Test	Iterative Development
Use Cases Analyzed	Defects by Priority	Test Cases Passed	
Use Cases Designed	Defects by Use Case	Test Cases Failed	Team and Individual Velocity
Use Case Traced to Tests	Defects by Team	Total Test Cases	Project Cost Variance
Use Case Volatility	Defects by Feature	Code Coverage by Feature	Work Item Completion Percentage
Requirements Traced to Use Case	Defects Status per Release	Escapes	Project Schedule Variance
Requirements Analyzed	Defect by Age	API Tests vs GUI Tests	Releasability Index
Requirements Traced to Tests	Defects by Design Artifact	Glide Path	
	Project Cost and Schedule Variance		
?	?	?	?

How Well Are You Monitoring Your Distributed Development?





Questions











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