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"BEING AN AGENT OF CHANGE" Understanding and Overcoming Barriers to Your Success

Burton Greenberg, Process Management Group, Ltd.

The merits of sound IT process and testing disciplines are widely documented and are accompanied by an abundance of metrics. Although this evidence is widely understood and accepted, metrics alone are not enough to overcome continued resistance to embracing and implementing new disciplines. Individuals and organizations regularly reject discipline and process changes required for effective software development.

In his presentation, Burt will help you recognize the human and cultural characteristics that contribute to common barriers within IT and User organizations. Barriers discussed focus on human characteristics, not technical issues that prevent the integration of sound processes. This program is targeted to raise awareness of the barriers and behavioral issues that inhibit implementation of required changes. The techniques to be presented closely match proven techniques to those used when "marketing" a new service.

About the speaker...

Burton (Burt) Greenberg is founder and President of Process Management Group, Ltd. (PMG), an organization dedicated to the implementation and support of IT quality assurance, business analysis and testing. Burt has worked in the IT field for over 35 years holding positions that include Programmer, Business Analyst, Manager and Director of Development. Burt complemented his technical experience with an MBA from Loyola University. For over 20 years, he has been devoted to IT quality and testing, founding PMG in 1992. PMG works effectively with clients to ensure that business goals are satisfied, while establishing practical quality assurance and testing disciplines.

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"BEING AN AGENT OF CHANGE"

PROCESS MANAGEMENT GROUP, LTD.



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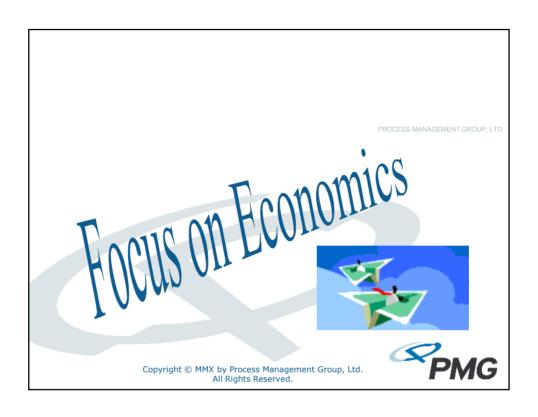


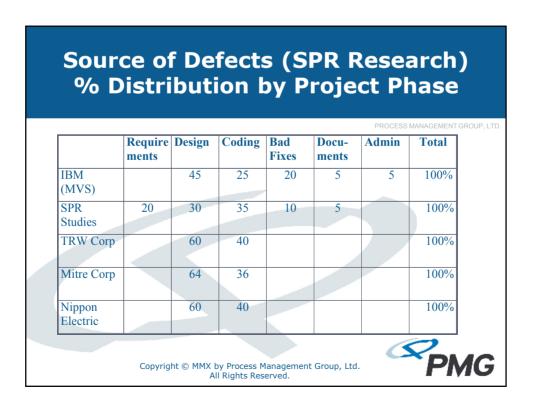
PRESENTATION AGENDA

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- Common Approach
- Root Cause & Means to Instill Change
 - Marketing Concepts
 - Organizational Characteristics
 - Product Life Cycle
- Potential Action Plan
- Recap
 - Questions & Answers







NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (NIST) May, 2002 Report

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- Buggy software costs users, vendors nearly \$60B/Year
- Better testing infrastructure could reduce the cost by \$22.5 billion, though it wouldn't eliminate all software errors

Relative Costs of Defect Removal

Baziuk Study (1995)

	Requirements	System Testing	Installation Testing	Acceptance Testing	Operations & Maintenance
Costs	1x	90x	90x~440x	440x	470x~880x

Published in NIST

"The Economic Impact of Inadequate Infrastructure for Testing" 5/2002

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The Bigger They Are

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• The Larger the Project, The greater the chance of Failure

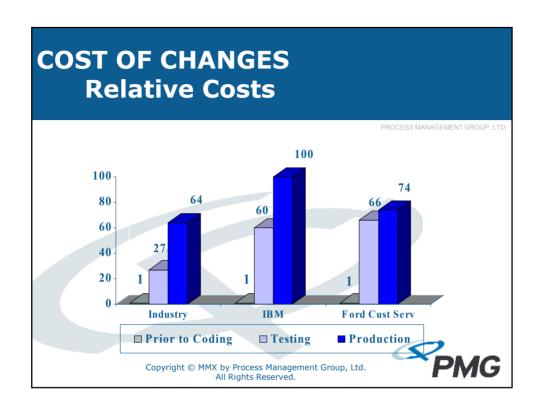
< \$750,000</p>
55% Succeed

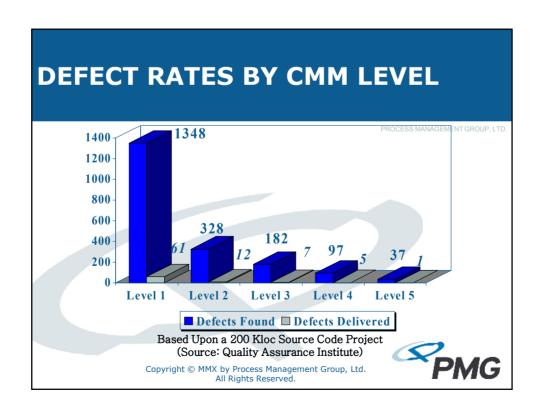
\$1 Million ~ \$2 Million 18% Succeed

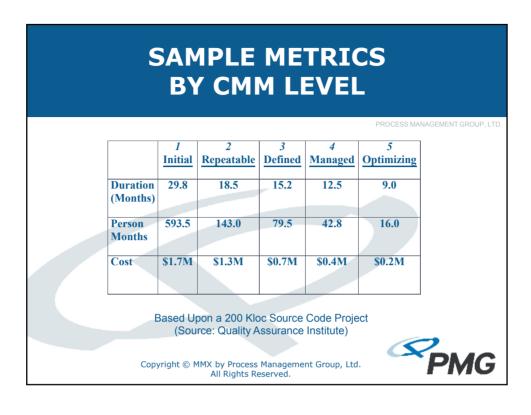
■ \$5 Million ~ 10 Million 7% Succeed

Source: The Standish Group International Inc., Dennis, Mass

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FOCUS ON ECONOMICS

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- Typically Does Not Lead to Changes
- Economic Focus Ignores Key Elements Required of Change

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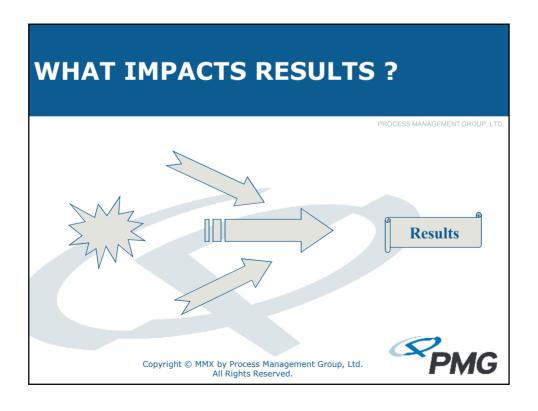
REVIEW OUR OBJECTIVES ...

PROCESS MANAGEMENT GROUP, LTD.

- Introduce New Service
- Overcome Resistance to Change
- Successful Projects







NOT A CHALLENGE UNIQUE TO IT ...

PROCESS MANAGEMENT GROUP, LTD

- New Products & Services Are Introduced Daily
- Similar Problems
- Accepted Process to Gain Results
- We Can Learn From Other Industries



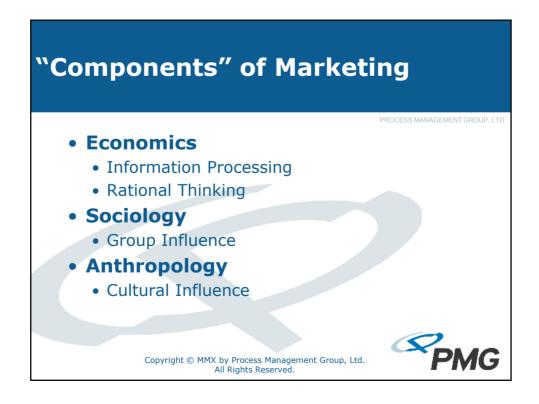
PARADIGM SHIFT ...

PROCESS MANAGEMENT GROUP, LTD.

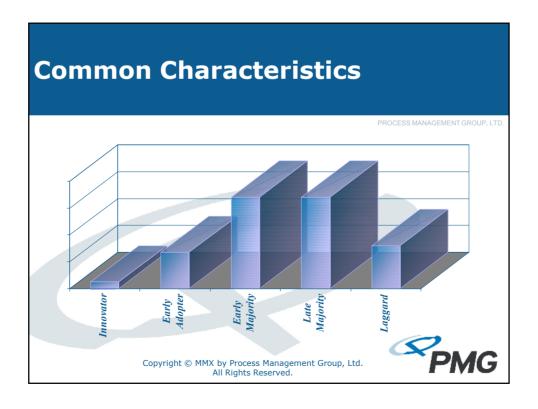
- PARADIGM
 - set of rules and understandings (i.e. our lens) for viewing the world and events around us
- PARADIGM SHIFT
 - when we change the foundation by which we view the world and events

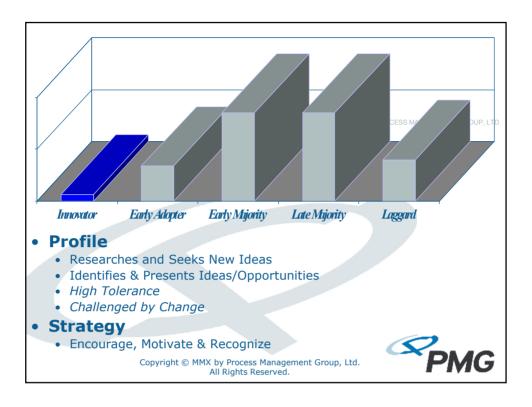


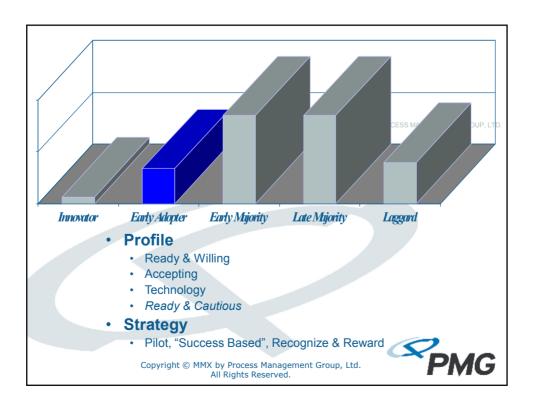


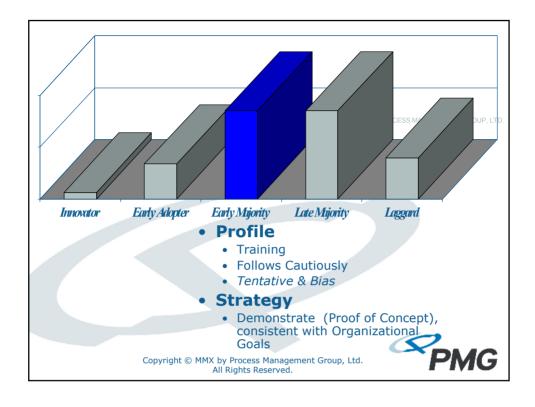


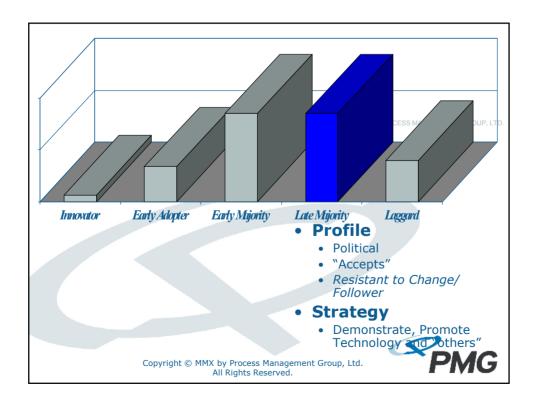


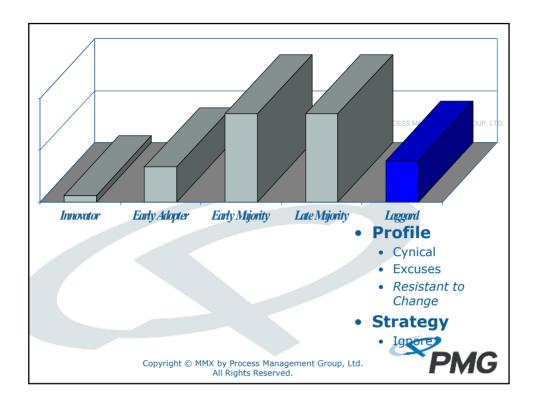














Types by Product Life Cycle

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- Introduction
 - Innovators + Early Adopters
- Growth
 - Early Adopters + Early Majority
- Maturity
 - Early + Late Majority + Laggards
- Decline
 - Late Majority + Laggards

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Approach

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- Leverage "Innovators" and "Early Adopters"
- Select Areas of Change where success can be obtained
- Turn Pilots into Successes
 - Innovators
 - Early Adopters
- Use Successes for Demonstration
 - Early Majority
 - Late Majority
- Be Patient
- Take small, incremental steps



Implementing QA / Testing Using Product Life Cycle

• Introduction

- Building Product Base
 - Simple
 - Promotion

Growth

- Awareness Increases
 - Highlight Attributes
 - Focus on Features

Maturity

- Market Momentum
 - Differentiate
 - Retain Loyalties

Decline

Harvest or Decline



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Implementing QA / Testing Using Product Life Cycle

• Introduction

- Build Your Base
 - Innovators & Early Adopters
- Simple
 - Focus on Areas Where Change Can Lead to Success
 - Easy "Wins"
 - Short Timeframes
- Promotion
 - Exposure & Support for Successes

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Implementing QA / Testing Using Product Life Cycle

Growth

PROCESS MANAGEMENT GROUP, LTD.

- · Awareness Increases
 - Early Majority & Late Majority
 - Incremental Implementation
 - Recognize All Contributions (not only QA/Testing)
- Highlight Attributes
 - Positive Project Impacts
 - (Time, Cost, Defect Delivery)
- Focus on Features
 - Improved Communication & Understanding
 - Effective Risk Management

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Implementing QA / Testing Using Product Life Cycle

Maturity

PROCESS MANAGEMENT GROUP, LTD

- Market Momentum
 - Differentiate
 - Contrast to Past Projects & Implementations w/o Processes
 - Retain Loyalties
 - Share Credit



Implementing QA / Testing Using Product Life Cycle • Decline • Harvest or Decline Copyright © MMX by Process Management Group, Ltd. All Rights Reserved.

IMPLEMENTATION OF QA or TESTING PRACTICES

PROCESS MANAGEMENT GROUP, LTD.

- Selective Recruiting of Initial Participants
- · Establish Credibility
- Sensitive to Organizational "Hot Buttons"
- Pilot Projects; Demonstrate Successes & Metrics
- Solid contributions to the Project & Organization
- Transition to 'Majorities'
- Be Patient
- Remain Flexible



Do Your Homework

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- What is Motivating the Changes?
- How Does Your Organization Fit with the Characteristics?
- What are the Characteristics of Key Management?
- Be Honest With Yourself About Your Own Characteristics
- What are the Key Areas of Focus for Change?





SUMMARY

PROCESS MANAGEMENT GROUP, LTD.

- Understand the Evidence
 - Do Not Expect Data to Drive Changes
- Incorporate Human & Cultural Factors
 - Target Those Who will Facilitate Changes



- Implementation Plan with Balance
 - Be Selective, Patient and Realistic

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PROCESS MANAGEMENT GROUP, LTD.

- Dedicated to IT Quality and Testing
- **•Objective Metrics for Effective Risk Management**
- Successful Projects; Successful Clients

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The IT Quality and Testing experts
www.pmgltd.com

