

## Why Pilot?

# Organizations use Pilots for several reasons the following:

- ✓ To get the data to make an informed decision about next steps in the improvement efforts
- ✓ To build buy-in for the change
- ✓ To control the learning curve

#### **Lessons Learned**

- ✓ Define business benefits upfront
- ✓ Specify business metrics
- ✓ Use the metrics to measure business performance.
- ✓ Establish accountability for achieving business benefits and ROI from Pilot Solutions



# Can Pilots Work for Initial CMMI Roll Out?

- Pilots are specifically mentioned in the following CMMI Process Areas:
  - ✓ Organizational Process Focus (Level 3)
  - ✓ Decision Analysis and Resolution (Level 3)
  - ✓ Organizational Innovation Deployment (Level 5)
- Organizations general transitions from CMM to CMMI, include:
  - ✓ CMM Levels 2-3 to CMMI Levels 2-3
  - ✓ CMM Levels 3-5 to CMMI Levels 3-5
  - ✓ No previous CMM experience to CMMI
    - > This requires great efforts
    - Little stability in process to determine what works and what doesn't work - Any process analysis discussion becomes personal and defensive





### **Pilot Roll Out Selection Criteria**

Striking a Balance To Achieve Custom Solutions

#### **Full Life Cycle Development**

#### **Transfer Solution**

Pros (+)	Cons (-)
4 Best-fit Business Processes	<b>♣ More Costly</b>
<ul><li>♣ Tight Control Over Quality</li><li>♣ Good Documentation</li></ul>	Management Difficult to Enforce
♣ Capitalize on Latest Technology	

Pros (+)	Cons (-)	
<ul> <li>♣ Faster to Implement</li> <li>♣ Less Costly Up-front</li> <li>♣ Proven Solution</li> </ul>	<ul> <li>♣ Back-end Cost         (Customization)</li> <li>♣ May Not Fit Current         Technology Infrastructure</li> <li>♣ Based Upon Aging         Technology</li> <li>♣ Users Need to be Trained in New Processes / Workflow</li> </ul>	



## Why Accelerate Process Implementation?

- Organizations cannot afford to wait while bureaucracy plays itself out, especially over long trail/pilot cycles
- The consequences can be overwhelming:
  - ✓ Projects over cost and over schedule
  - ✓ Extensive overtime
  - ✓ Confusion
  - ✓ Loss of staff
  - ✓ Misdirection
  - ✓ Distrust
  - ✓ Frustration
- By accelerating the process improvement effort and getting processes in place quickly, an organization can concentrate on improving their processes over time and still remain competitive in a business environment



## Prerequisites to Any Improvement

- A real understanding of your organization
  - ✓ Business drivers
    - > Why does the business want or need to improve?
- Senior management support
  - ✓ Visible demonstration of commitment
  - ✓ No hidden agendas
- Make it clear you are NOT improving people
- Realistic expectations
  - ✓ What have other similar organizations achieved?
- Readiness and capability to improve
  - ✓ Are you ready to make improvements?
  - ✓ What are you capable of taking on?





### A Word for a Phased Roll Out

- Prioritization
  - ✓ Not practicable to roll out all processes at a time.
  - ✓ CMMI Continuous Representation allows progress to be acknowledged at the Process Area level via a Capability Level
- 'Big Bang' approaches accentuate risks
  - ✓ Impractical and can render unviable
- Phasing enables testing and fine-tuning
  - ✓ Start and improve versus start, stop, analyze, and convert
  - ✓ Accept 80% stability and fine tune the last 20%
- Provides an opportunity to experience benefits
  - ✓ Enables early organizational gains
- Allows phasing of investment and resources to project

Without a compelling value statement, <u>cost</u> becomes the ultimate determinant of value



## Holistic Approach for Phasing Roll Out

C	Customer	NATURE OF PRO	ODUCT DEVELOPM	IENT ENVIRONMEN
		BUSINESS VIEWPOINT Why?	PRODUCT VIEWPOINT What?	IMPLEMENTATION VIEWPOINT How?
	COMPANY LEVEL	Business strategy	Product and technology strategy	Strategic action plans
	PROJECT LEVEL	Business objectives	Product and technology objectives	Project implementation

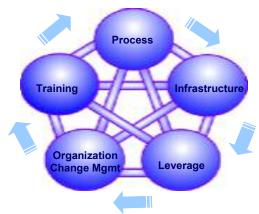
Provide a solution that satisfies ongoing Company Level and Project Level business needs





## A Pragmatic Pilot Approach

- Five Common Elements exist in a Pilot, regardless of the organization's process maturity:
  - ✓ Process It's what you do; formal or informal. Improvement is always possible.
  - ✓ Infrastructure Some structure exits or the organization would not exist
  - ✓ Leverage Every organization has some "pockets of excellence"
  - ✓ Organization Change Management People's response to change occurs at all maturity levels in varying degrees of acceptance
  - ✓ Training Learning organizations focus on business needs and provide abilities to maintain an established process asset





#### **Process**

Why should you focus on process?

- Improved Predictability
  - ✓ More accurate projections of revenue
- Increased Control
  - ✓ More precise understanding of business development costs
- Enhanced Efficiency and Effectiveness
- Improved management visibility into business development
  - Decide where value is being lost in the current process steps
  - ✓ Involve ultimate users of the new process in all phases from design to acceptance to ensure ownership of completed process

Only way to get widespread early use is to remove the redundant processes – fast!





### Infrastructure

- Infrastructure is the underlying framework which supports the organization's process:
  - ✓ Policies
  - ✓ Standards
  - Training
  - √ Facilities
  - ✓ Tools
- Establish/Identify the support structure for involvement and ownership/commitment to change
- Establish communication
  - ✓ Open and honest
- Make it clear what is valued
  - ✓ Feedback
  - ✓ Leadership by example
    - People will do what their manager values





## Leverage

- Capture current practice (whenever possible)
  - ✓ Identify best practices and build upon them
    - Every organization has some process that works really well why?
  - Don't design "Yet another process"
- Identify weakest link in any process
  - Strengthening any link other than the weakest is a waste of time and effort
- Leverage existing standards and infrastructure wherever possible and only create new standards and infrastructure where required



Leverage

Infrastructur

**Training** 

**Organization** 

Change Mgmt

## Organizational Change Management

- When implementing a new process or program, ask, "What behaviors need to change?"
  - ✓ Big difference between "Initiation vs. Implementation"
- Understand nature and range of resistances
- Drive change from your business objectives
  - ✓ Keep focused Clear targets
  - ✓ Don't get seduced into compliance with any model
  - ✓ Plan with those affected
    - You need systematic approaches
    - > Ensure frequent reviews
  - ✓ Often difficult for a Level 1 organization
- Keep it simple at first
  - ✓ Ensure some quick wins
  - ✓ Make it relevant to people (projects)



Balance long term strategy with short term needs

## **Culture is the Biggest Barrier**

- Collective behavior rules
- Culture bleeds through new structures and processes
- Need critical mass to change
- Leadership models the real values and norms





## Resistance to Change

- Cognitive/ amenable to some control
  - ✓ Lack of information
  - ✓ Lack of skills
  - ✓ Lack of resources
  - ✓ Lack of support

- Emotional/ beyond direct control
  - ✓ Anxiety
  - Perceived threats to status
  - ✓ Perceived threats to power
  - ✓ Fear of failure
  - ✓ Lack of trust
  - Unwillingness to take risks
  - Underlying culture and norms
    - "The way we do things here"

Build culture change into the business strategy



## **Training**

- Sustainable performance requires continuous training
- Any new process change should be coupled with the appropriate training (GP2.5)
  - ✓ Plan for institutionalization from the beginning







### **Critical Success Factors**

- Effective Project Management
- Timely Decisions and Resolution of Issues
- Availability of Resources When Needed
- Executive Support (Both Real and Perceived)

# The #1 Most Documented Critical Success Factors are .....

- Change Management
- Communications
- End-User Training



### How do I Prioritize, Focus and Align?

"The main thing is to make sure that the main thing stays the main thing."

James Barksdale
The Markel Foundation
(Task Force on National Security)



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