



## Innovation Delivered

CMMI Level 3 in a Large Multi-Disciplinary  
Services Organization, *by Sarah Bengzon*

*2003 SEPG Conference  
Boston, Massachusetts*

# Agenda

- About Accenture
- CMMI Implementation
- Questions





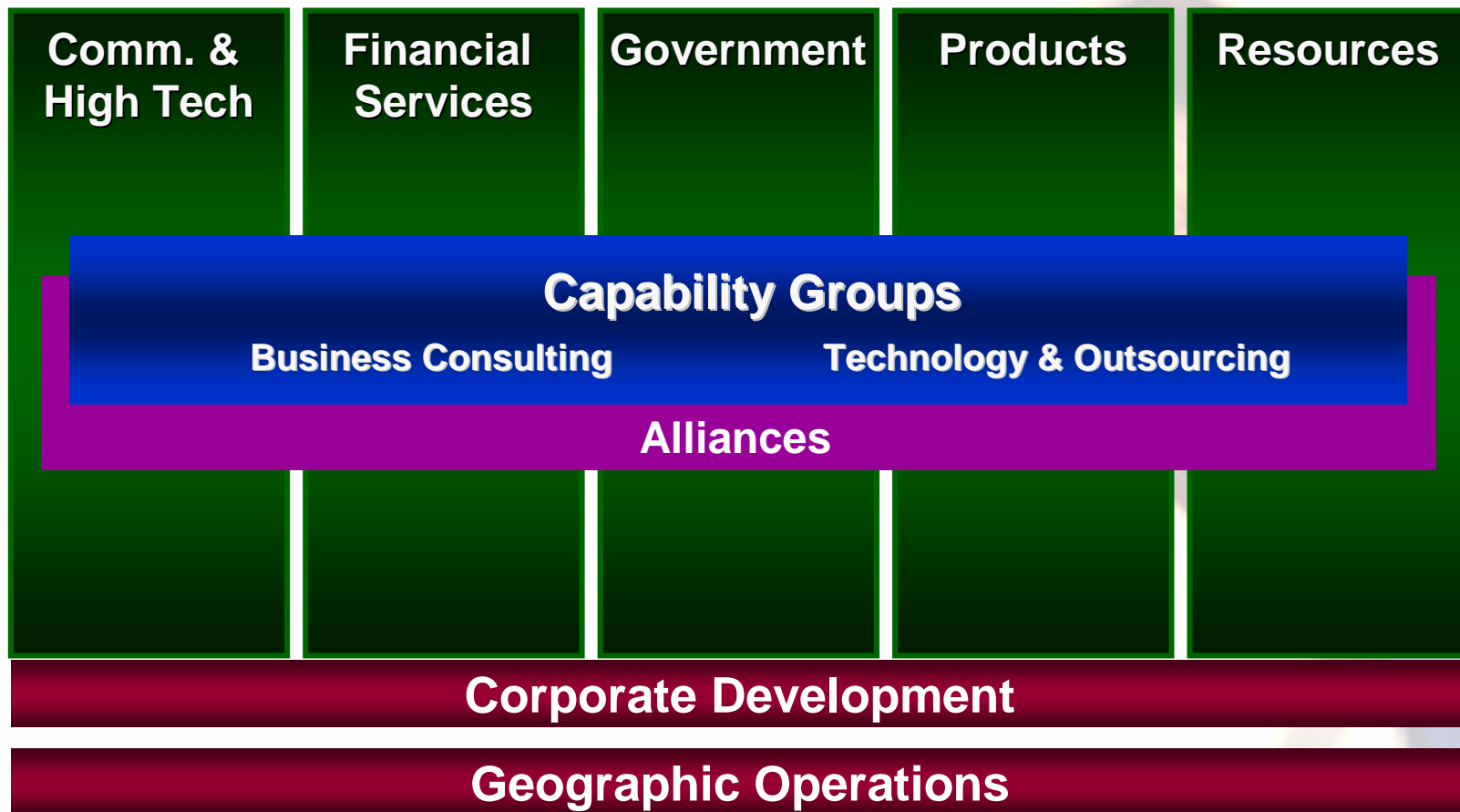
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## About Accenture

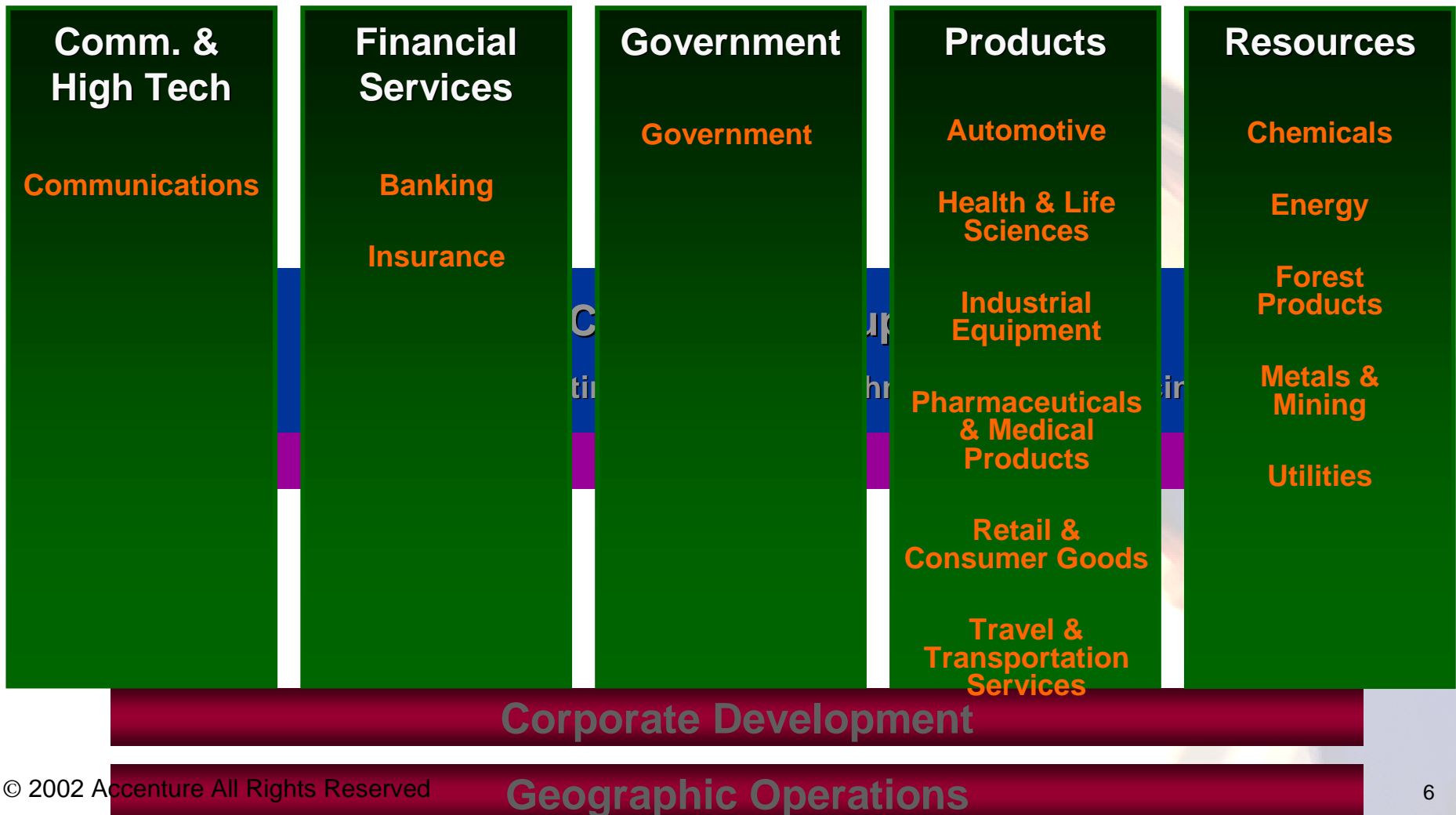
# About Accenture

- Accenture is one of the the world's leading management consulting and technology services organizations
- We collaborate with our clients to deliver innovation
- With more than 75,000 people in 47 countries, Accenture delivers to our clients a wide range of consulting, technology and outsourcing services, and participates in numerous alliances
- Accenture features offices in most of the world's leading business centers, including New York, Washington DC, Chicago, Dallas, Los Angeles, San Francisco, London, Frankfurt, Madrid, Milan, Paris, Sydney, Hong Kong and Tokyo
- Accenture operates globally with one common brand and business model designed to enable us to serve our clients on a consistent basis around the world

# Market-facing structure



# Operating Groups and Industry Groups



# Capability Groups



# Strategic Delivery Capability

- Our global strategic delivery approach emphasizes quality, reduced risk, speed to market and predictability. Our ultimate goal is to deliver to clients price-competitive solutions and services that create value.
- A key strength is our ability to create and capture repeatable components of methodologies and technologies, which we can customize to create tailored solutions for our clients in a cost-effective manner and under demanding time constraints. Core solutions include:
  - System building and integration delivery.
  - The design, building, running and operating of enterprise solutions.
  - Legacy application management and re-platforming.
  - Co-sourced or outsourced creation of client-specific facilities.
  - Web services.





# CMMI Implementation

# CMMI Implementation

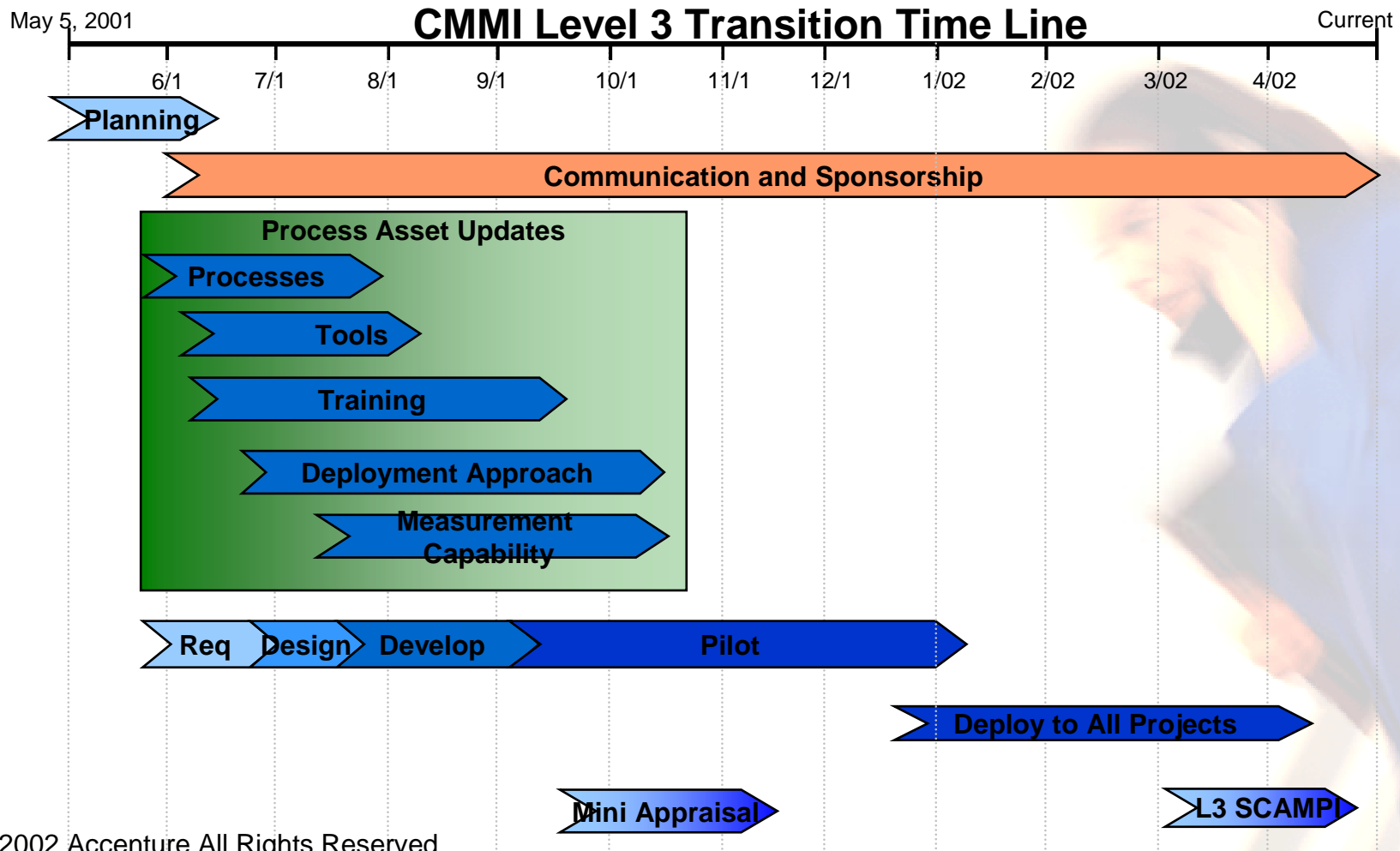
- Process Improvement Background
- CMMI Transition Approach
- Why CMMI
- CMMI Enablers
- Applying CMMI At Accenture
- CMMI Results
  - CMMI Transition Statistics
  - Level 3 SCAMPI experience
  - Key Points



# Process Improvement Background

- USA Government Operating Unit
- History of structured methodology (i.e., Method/1, Accenture Methods, BI Methodology)
- Integrated work approach and multi-disciplinary teams (i.e., people, process, technology)
- Structured knowledge management
- On average, Accenture spends over \$600M in annual training investments
- ISO registration for all operating groups
- CMM-SW Level 3 in parts of the organization

# CMMI Level 3 Transition Approach



# Why CMMI

- Is this a good business decision?
- Does it make sense for the way we do our work?
- What value does it bring?
- How much does it cost?
- What is our transition strategy?
- Is it stable enough?



**Business Alignment**

**Solution Delivery  
Approach**

**Integrated Product  
Teams**

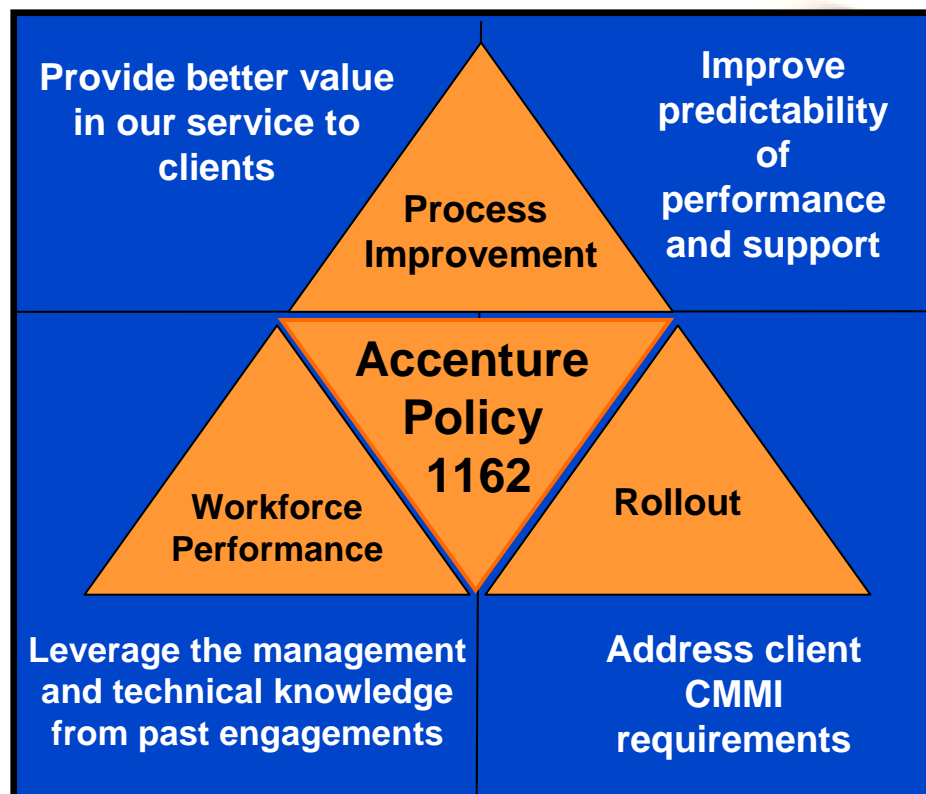
**Client Requirements**

**Key Differentiator**

# CMMI Enabler – Quality and Process Improvement Program

## Drivers

- Changing Client Expectations
- Business Value



# CMMI Enabler – Business Integration Approach

Teaming with our client's personnel using a flexible integrated model which provides a distinctively superior ability to formulate and deliver on large-scale complex programs

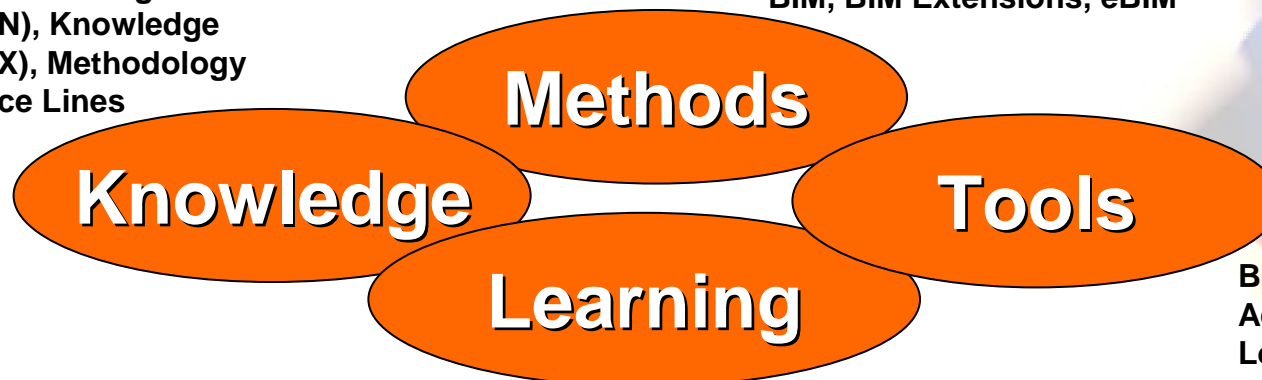


# Applying CMMI - Process Management at Accenture

**People Enablement** equips Accenture's people with high impact learning and knowledge assets, solution delivery tools, and capability development services to help them succeed in delivering value, while continuously growing their own professional capabilities.

Government Knowledge  
Network (GKN), Knowledge  
Exchange (KX), Methodology  
Finder, Service Lines

BIM, BIM Extensions, eBIM



mylearning.com, Service Line Training, Industry  
Training, Technology Training

BI Estimator, BI Designer,  
Accenture Portal, Octel  
Lotus Notes, Standard  
Laptops



# Applying CMMI - Project Management at Accenture

## Plan Project Execution

- Tailoring Processes (Guidelines and Process Improvement Liaisons)
- Develop Project Plans (Metrics, DAR, Mission, Vision, Lifecycle)
- Develop Subordinate Plan (CM, Risk, SubContractor, Communication, Sponsorship)
- Developing Estimates and Assumptions

## Organize Project Resources

- Establish Standards and Procedures
- Establish Teaming Structure
- Train Project Team Members
- Obtain Other Resources (Hardware, Software, Facilities, Subcontractors)

## Control Project

- Measure and Manage Performance (Metrics, Corrective Action, Decision Making)
- Communicate Project Status (CM Audits, Status Reports)
- Update Plans
- Obtain Deliverable Acceptance

## Complete Project

- Obtain Formal Acceptance of Deliverables
- Finalize Documentation
- Evaluate Project (Profiling Data, Metrics, KX Submissions)

# Applying CMMI - Support - Quality Management at Accenture

Independent Reviews

CQMA

- Independent Partner Reviews
- Client Satisfaction Surveys

SQA

- Process – PI Liaison Best Practice Reviews
- Work Product – Independent Reviews

Super SQA

- Independent review of the QPI program
- Independent review of the AGC Quality program

Appraisals

- SCE
- SCAMPI
- Mini appraisals
- Document reviews

Project Reviews

Peer Review

Supervisor Review

Management Review

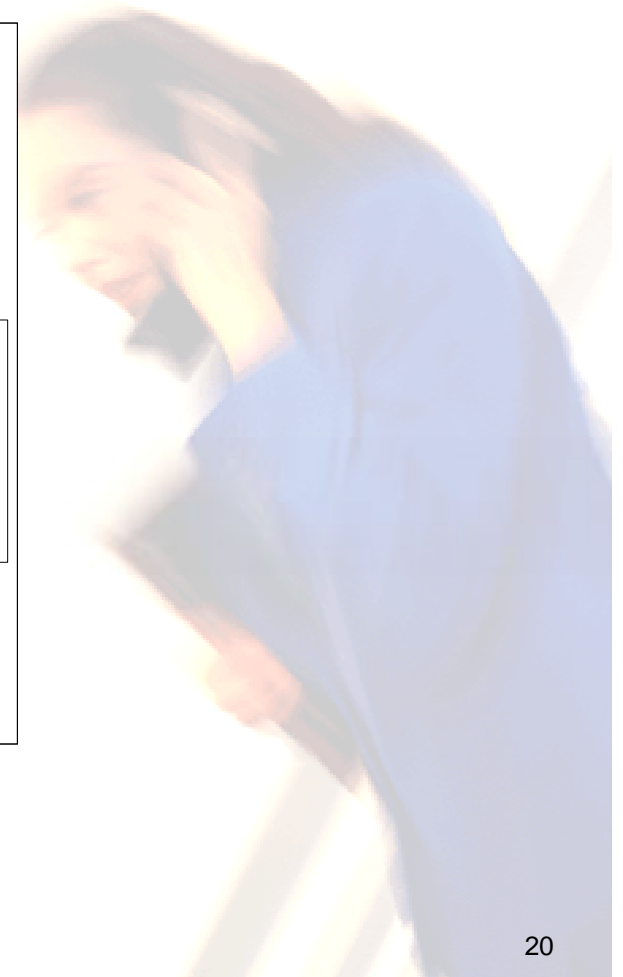
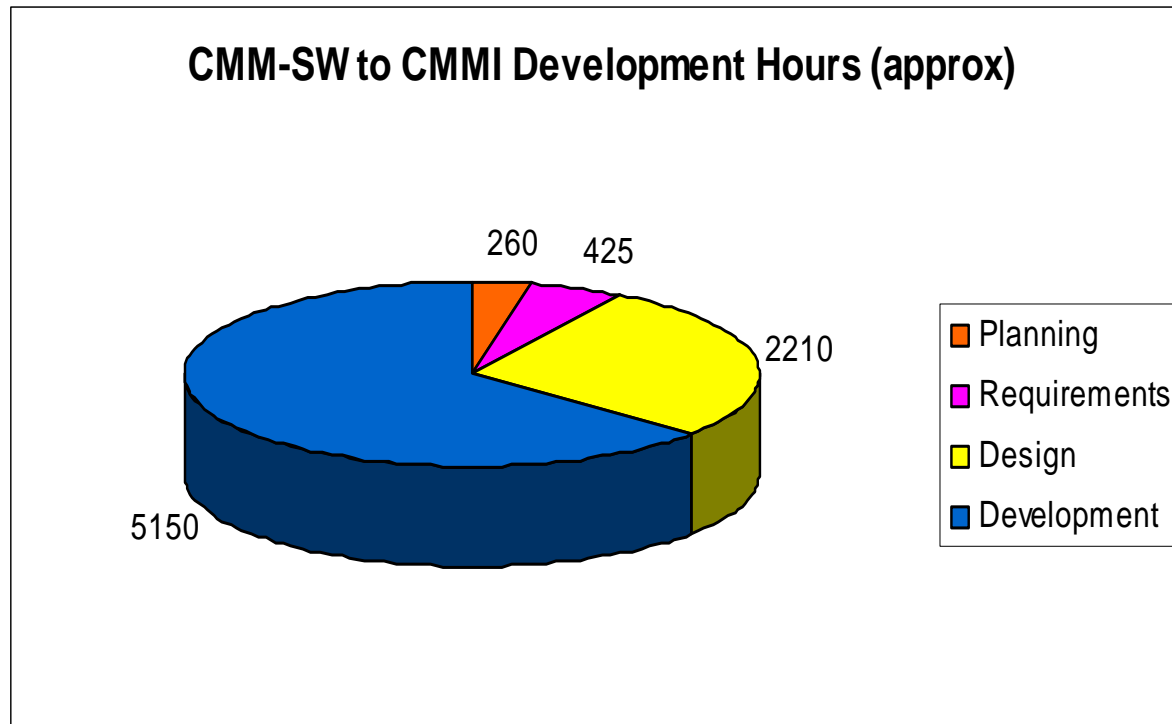
Testing

# Applying CMMI - Engineering at Accenture



# CMMI Results

## CMM-SW to CMMI Transition Statistics



# CMMI Results

## Level 3 SCAMPI Experience

- Scope covered:
  - USA Government Operating Unit
  - CMMI SW/ SE/ IPPD v 1.02
  - SCAMPI v1.1, fully external team (4 appraisers)
  - 6 large Accenture projects across the US
    - Technologies: SAP/ Manugistics/ PD2, PeopleSoft, Siebel CRM, Custom UML, ColdFusion, TAS
    - Applications: Payroll, financials, HR, welfare, public assistance, employment, revenue management operations, real estate assessments, business transformation, customer relationship management
  - Appraisal Cost
    - Approx 232 pre-onsite hours
    - Approx 400 on site hours
    - Appraisal fees, travel and incidentals
    - Preparation and participation time

# CMMI Results

## Key Points - Benefits

- Organization appraised at CMMI Level 3 **eight months** after initial deployment
- Projects achieve 'CMMI compliance' in **4 months** or less
- There can be a **5:1 return on investment** for quality activities
- Early focus on measurement gives additional management capability
- Deployment was much easier for new projects (vs. existing)

# CMMI Results

## Key Points – New Content

- Measurement and Analysis
  - Think level 4 and 5
- Decision Analysis and Resolution
  - Technical Solution
  - Change control
  - Requirements Management
- IPPD concepts
  - Project vision/ organization vision
  - OEI practices
- Generic practices
- Look for existing mappings with new PAs

# CMMI Results

## Key Points – Implementation

- Being one of the first is not easy
  - Lack of industry data/ experience
  - CMMI content not well established (interpretation, evolving content)
  - SCAMPI v1.1 just released!
- Need to get buy in
  - Sponsorship has never been more critical
  - Support projects during transition
- What helped
  - BI Methodology
  - Treat it like a ‘real project’





## Questions

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