Software Development Tools for System z

Enterprise Modernization and Smarter Development Strategy and Overview

IBM

Many businesses are challenged by growing complexity

79% → **49%** → **30%**
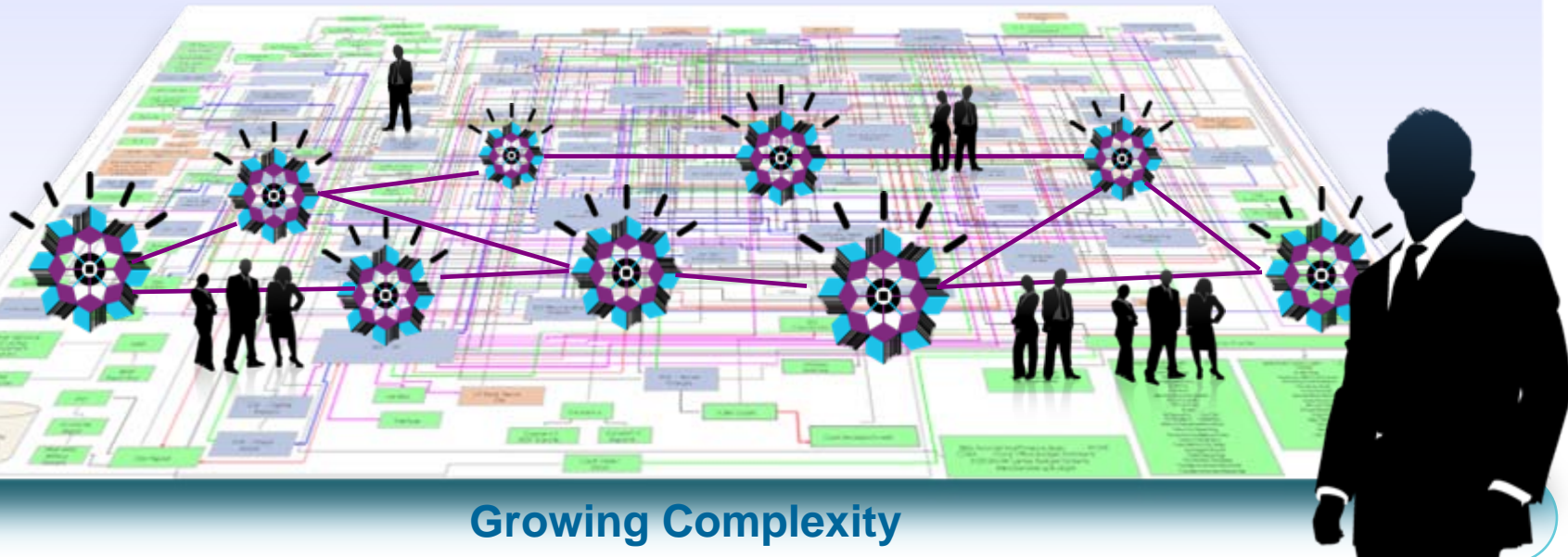
CEOs anticipate complexity to grow significantly in the next five years.

CEOs believe they know how to deal with this complexity.

Complexity gap means that CEOs increasingly see change coming but feel ill-equipped to handle it.

Growing Complexity

Various Challenges Impinge Effective Software Development and Delivery

Complexity: Decades of Application Investments

"We don't understand the effort, risk and impact of modernizing our legacy applications."

Resources: Islands of skills, languages and Platforms

"Our skills gap keeps growing. How do we stay current with all the language and technology changes?"

Time: TTM and TTR

"We need a cost effective way to improve our Time to Market, and realize ROI from our investments sooner"
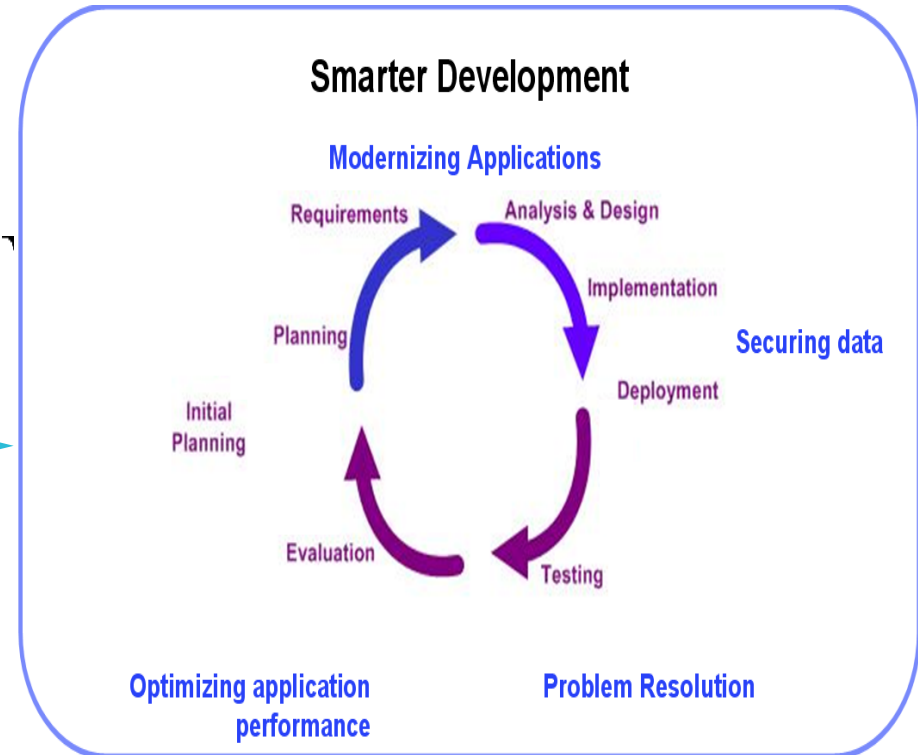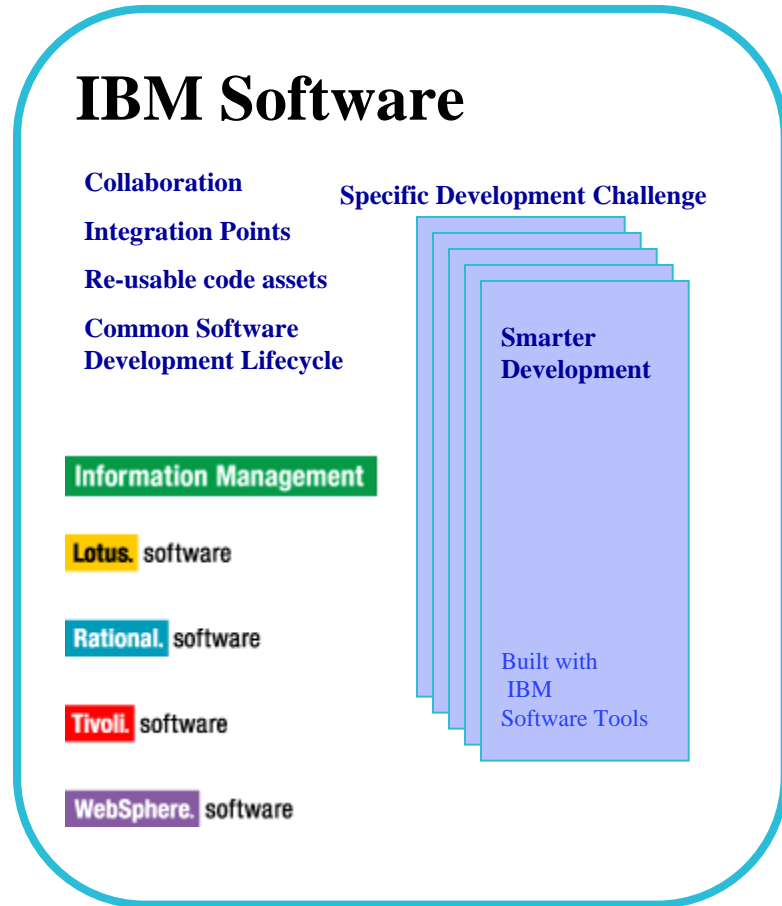
Teaming: Poorly Integrated Teams

"We need to enable our teams to collaborate across platforms, languages, and environments."

Smarter Development is designed to respond to the software development challenges and is built on the cross IBM Software Portfolio

IBM Software

Collaboration

Integration Points

Re-usable code assets

Common Software Development Lifecycle

Specific Development Challenge

Smarter Development

Built with IBM Software Tools

Information Management

Lotus. software

Rational. software

Tivoli. software

WebSphere. software

Smarter Development

Modernizing Applications

Requirements — Analysis & Design

Planning — Implementation

Initial Planning — Securing data

— Deployment

Evaluation — Testing

Optimizing application performance — **Problem Resolution**

Examples of where you can start utilizing Smarter Development

Scenario I – Problem Resolution

•Quickly identify, research, and fix abends in a critical System z production application.

Scenario II – Optimizing Application Performance

•Research and fix a performance problem in a critical IBM CICS® production application.

*Smarter Development Solutions will deliver **"Bigger Puzzle Pieces"** to simplify integration of common Software Development tooling into solutions that deliver end-customer value*

Our Vision

- IBM's vision for helping build a smarter planet includes ideas for developing a more dynamic infrastructure to help companies become more service-oriented, find new efficiencies, and be more responsive to changes throughout the organization and across the globe.
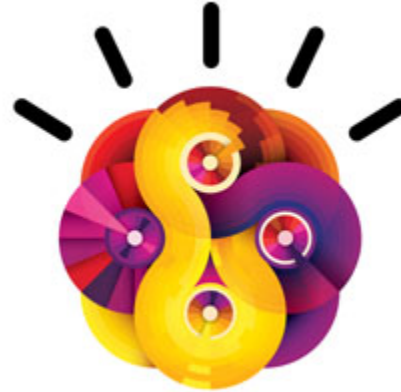
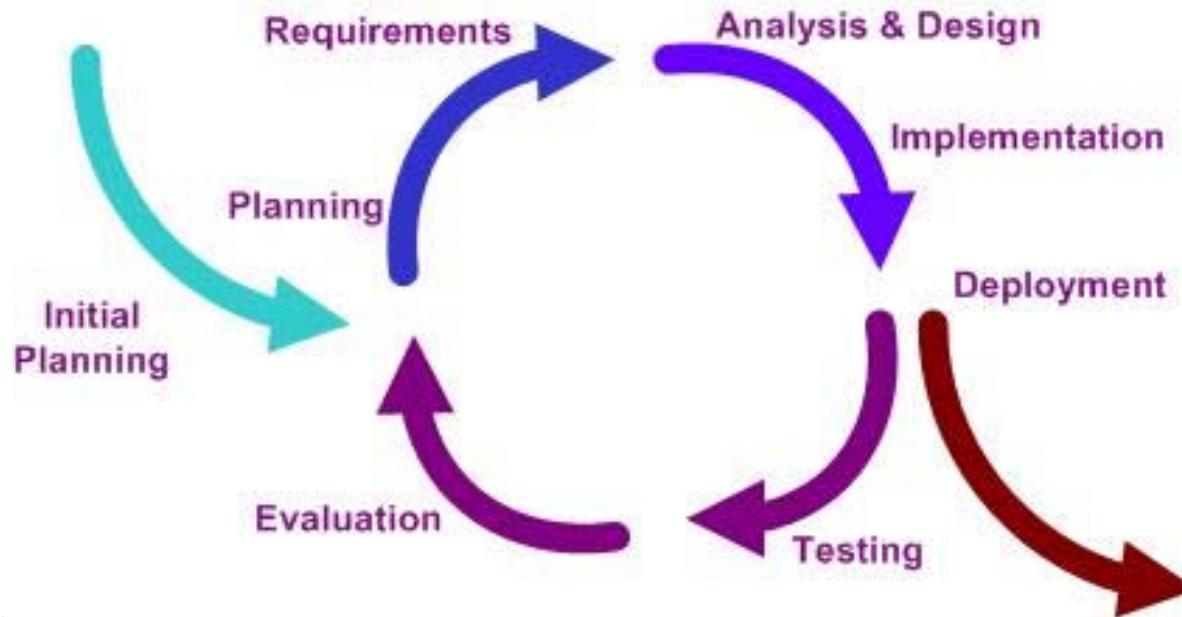**Efficient and innovative IT to dramatically improve economics**

"Smarter Development is a integral piece of Smarter Computing which is the IT Infrastructure that enables a Smarter Planet."

- On a Smarter Planet, successful companies are taking a **new approach** to designing their IT infrastructures to create new opportunities. By thinking differently about computing, these leaders have addressed the IT conundrum - meeting exploding demand for service on a flat budget. The Software Development Lifecycle is a critical piece of this approach.

Development Process

Seamlessly integrate software, electronics and mechanical technologies.

Design applications with the right ecosystem of partners and experts.

Requirements

Analysis & Design

Implementation

Planning

Deployment

Initial Planning
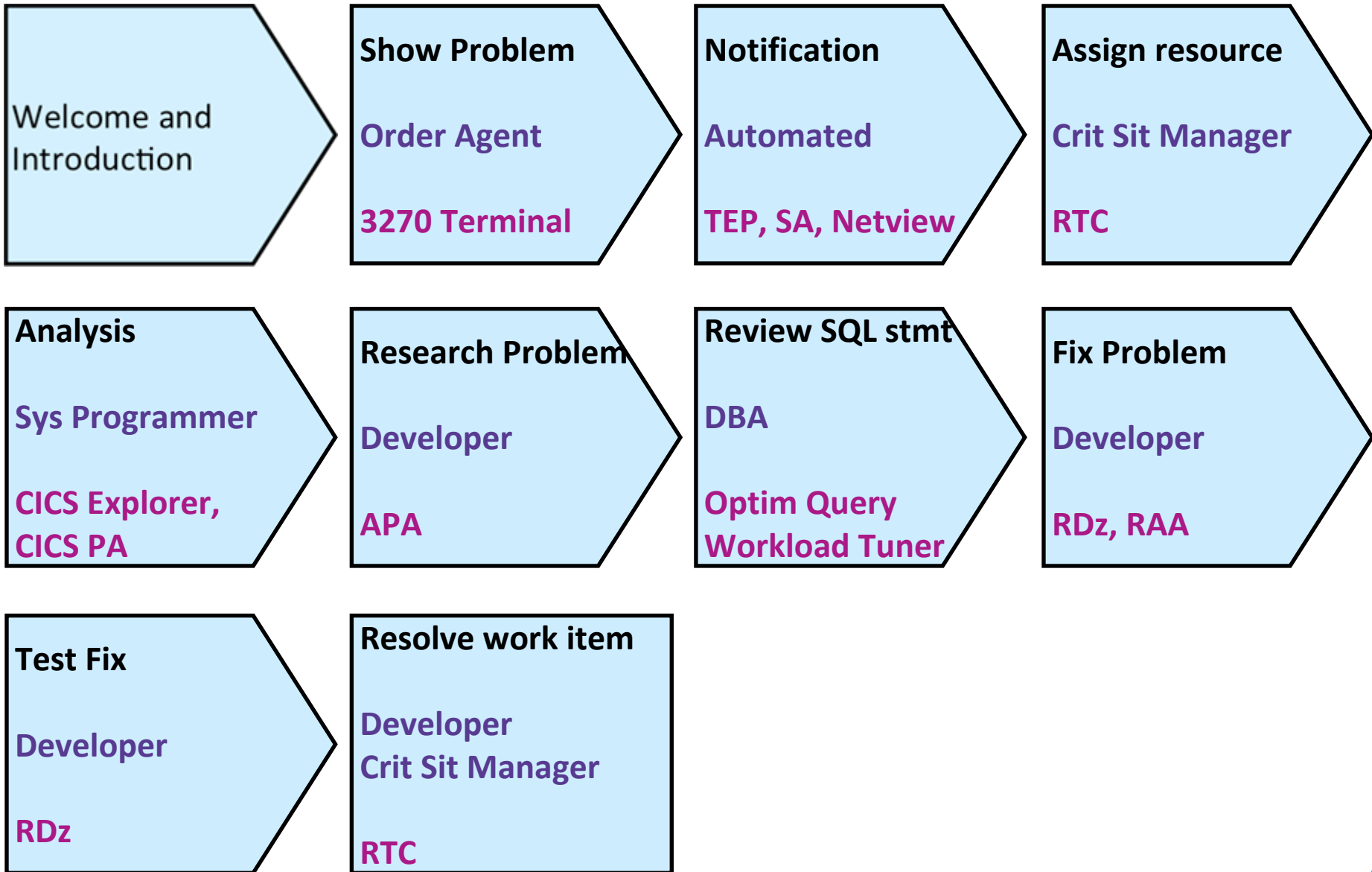
Evaluation

Testing

Create the flexibility to issue frequent updates without compromising product integrity.

Shift to more dynamic processes for building and testing products.

Scenario 1 – Production Problem / Resolution

Welcome and Introduction	Show Problem Order Agent 3270 Terminal	Notification Automatic Fault Analyzer	Create work item Project Manager RTC
ID Trans ID System Programmer CICS Explorer	Research Abend Developer Fault Analyzer	Debug Problem Developer Debug Tool	Scope Applic Developer CICS IA
Fix Data Developer File Manager	Fix Problem Developer RDz, RAA	Test Fix Developer RDz	Close work item Developer RTC

Scenario 2 – Performance Problem / Resolution

Welcome and Introduction

Show Problem

Order Agent

3270 Terminal

Notification

Automated

TEP, SA, Netview

Assign resource

Crit Sit Manager

RTC

Analysis

Sys Programmer

CICS Explorer, CICS PA

Research Problem

Developer

APA

Review SQL stmt

DBA

Optim Query Workload Tuner

Fix Problem

Developer

RDz, RAA

Test Fix

Developer

RDz

Resolve work item

Developer
Crit Sit Manager

RTC

Next Steps

- Discuss with your team where in the Smarter Development Lifecycle you would like to begin your investigation.
- Schedule a Whiteboard session
- Schedule a Smarter Technical Evaluation Plan
- Schedule a Demo
- Proof of Concept

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