



Bridging Generations: How a Modern Mainframe Development Approach Can Help Maximize Productivity, Cost-Efficiency and IT and Business Agility

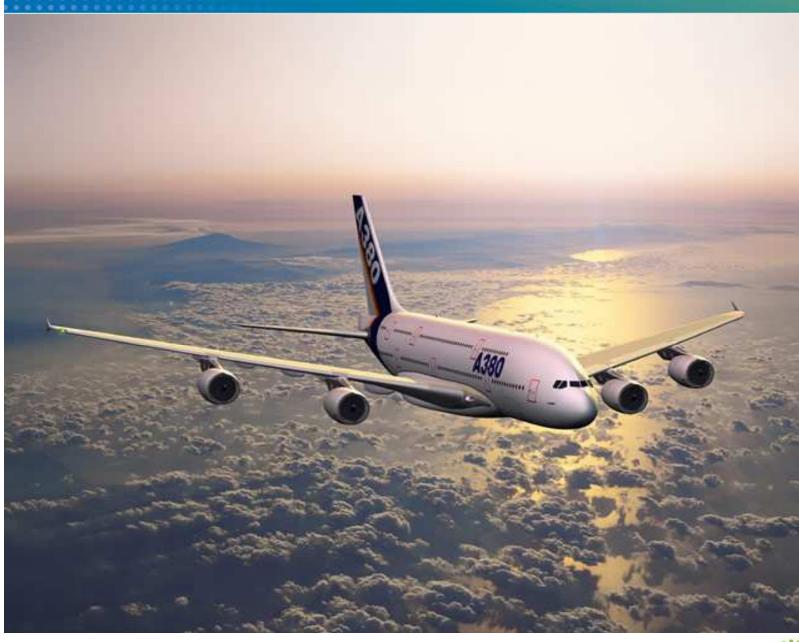
Tyler Allman Compuware





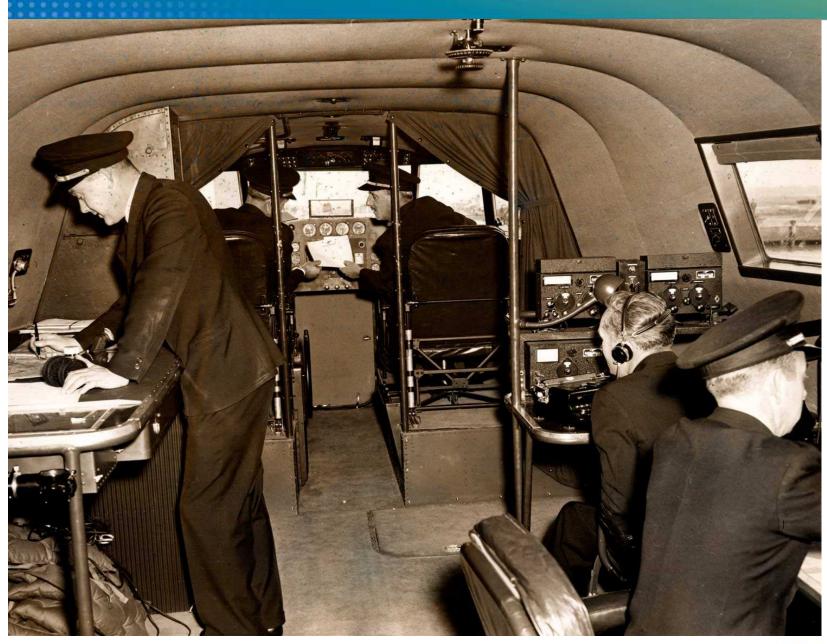






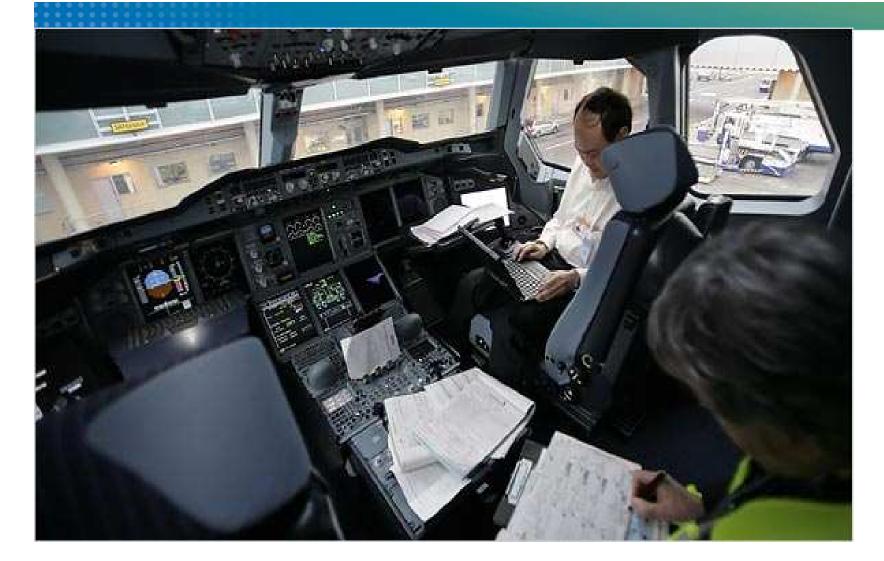












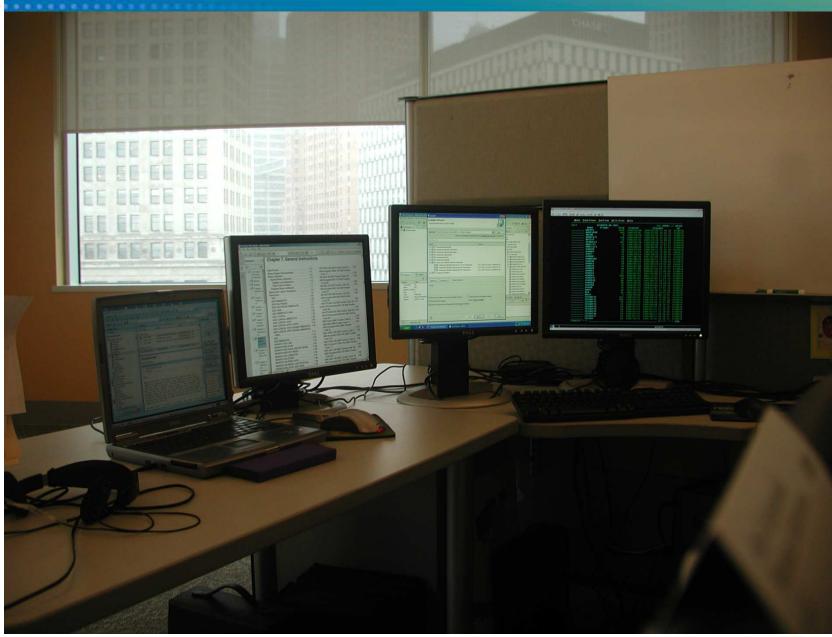










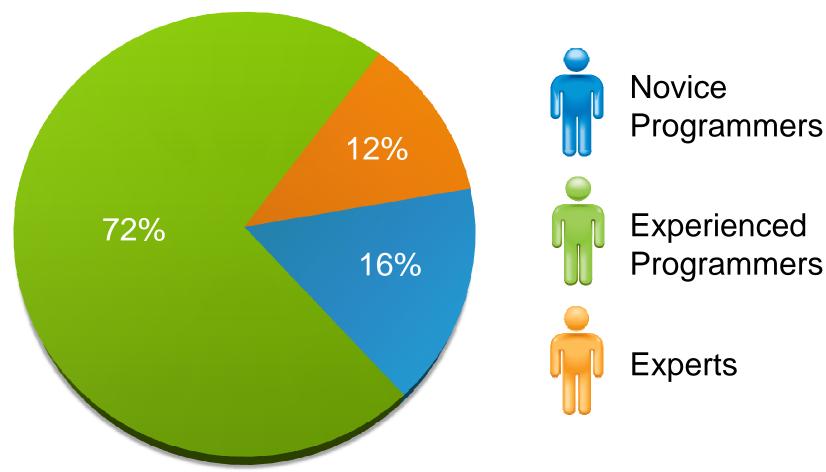






Traditional IT Staff

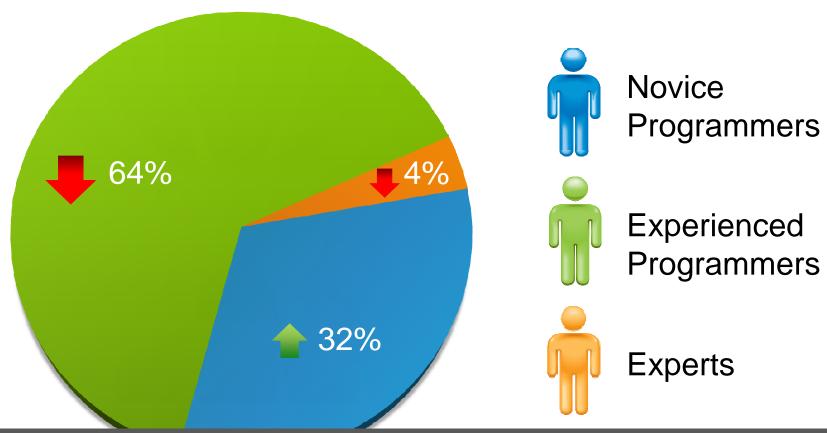






New Normal IT Staff





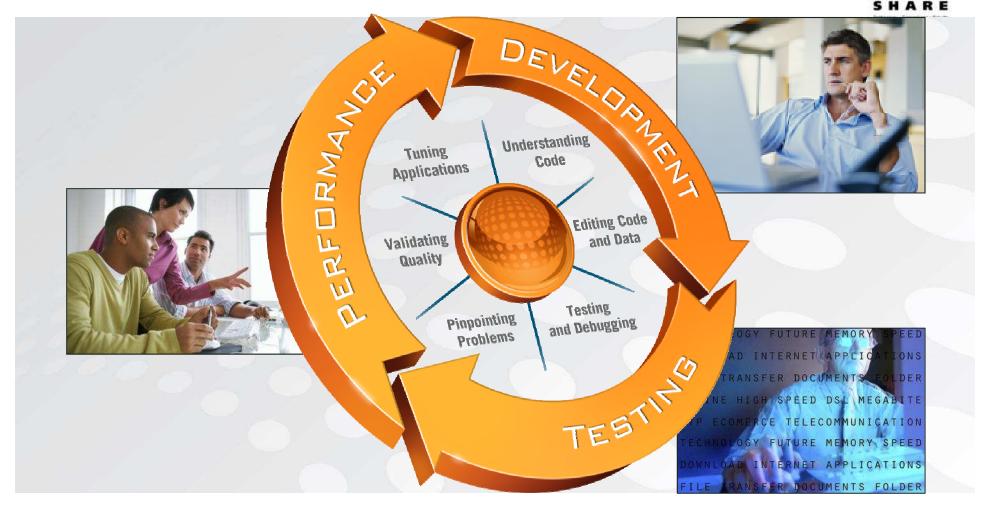
Experts and Experienced Programmers are reaching retirement.

Novice Programmers come in with a non-mainframe skill set.



What's NOT new...





But how to get it done most efficiently?







- Goals
 - Simplify & Standardize the End User Experience
 - Enhance and Extend the Power
 - Control/Reduce Risks and Costs
 - Simplify Install & Admin







- So Much to Modernize:
 - Source Code Management
 - Source Code Editing
 - Build, Promote
 - Test Data Preparation
 - Unit Testing
 - Fault Diagnosis
 - System/Integration/Acceptance Testing
 - Performance testing
 - Production Promotion
 - Production Support





Host Navigation (Demo)

- File Handling
 - Hierarchical Display Navigation
 - Archive Recall
 - Properties
 - Allocation
 - Move/Copy
 - Rename/Delete



Host Navigation (Demo)



Job Submission

JES Queue administration

- Job:
 - Review
 - Save
 - Print
 - Purge
 - Extract JCL
 - Resubmit
- Job completion notification
 - Unobtrusive
 - Fade Away





Source Code Editing (Demo)

- Language Sensitivity
- Language Help
- Code Navigation
- Outline views
- Edit w/ simultaneous browse
- Auto Completions
- Emulations





Data Editing (Demo)

- Common Look and Feel across all data stores
- Automatic Data Formatting
- Hexadecimal Support
- International Considerations
 - UTF Unicode
 - DBCS





Debugging (Demo)

- Eclipse Debug Framework
- Environments
- Languages
- Sharable Debug Configurations
- International Considerations
 - UTF Unicode
 - DBCS



Seen in the field:



Do's:

- Provide plenty of screen real estate to the end user
- Think of Modernizing your Mainframe Development Environment as a project
- Break it down into manageable tasks
- Make sure you're building an open, extensible environment
- Expect your underlying landscape to be in a state of flux
- Look at offerings from multiple vendors, and open source



Seen in the field:



Don'ts:

- Assume that everyone will be more productive in a GUI
- Require that people use alternative user interfaces
- Assume that a new modernized user interface means significant mainframe CPU savings
- Attempt to roll out a modernized user interface to everyone at once







The Journey

"A journey is like marriage. The certain way to be wrong is to think you control it."

- John Steinbeck, Travels With Charley







Questions?

