

### Maximizing your success in user acceptance testing

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### What is user acceptance testing?

- General Concepts
  - What: UAT reviews how a system or software is handled by end users (proves things are "good to go")
  - Where: UAT is done on staging or production environments outside of the development (or engineering) process
  - When: UAT is completed near a project's release date
  - Who: UAT testers are not part of the technical team that developed the system or software
  - WHY: UAT can show a project team how effectively the system or software meets user requirements



### How do we know how to do UAT?

- The Manual of Certified Standards in User Acceptance Testing
  - Where is the UAT handbook?
  - What steps are required to complete UAT?
  - Is there a standard that should be met?
  - How do other organizations do UAT?
- The "Real World" of UAT
  - Who is in charge of UAT?
  - Is UAT worth the effort?



### **Background Information**

- Experience is a great teacher
  - The "Power User" & the IBM mainframe
  - Data Coordinator, Tech Support, QA Engineer
    - Root Cause Analysis (PITs, Audits, etc.)
    - Beta Coordinator
    - CAB Administrator (Remedy lead, process enforcer)
- Attitude + Job Requirements = Involvement in UAT



### So: what are best practices?

- The real world
  - Should UAT be done only by the "Power User"?
    - What kind of feedback should UAT give?
  - Does it work to have large groups involved in a UAT?
    - What is needed to handle large groups?
  - What kinds of tests have we (collectively) done?
  - What kind of participation rates have we seen?



What are the goals for your organization when you do user acceptance tests?



### What are your goals?

- Class is conducted in small-group format
  - Arranged in groups so that each of you gets a chance to discuss the class materials
  - You are each encouraged to share knowledge and ideas
  - We'd like to hear your ideas and build on them during today's session
- Identify your group's note taker, team lead, and speaker
- Take a few minutes to discuss what you want from this class
- Share your conclusions with the larger audience

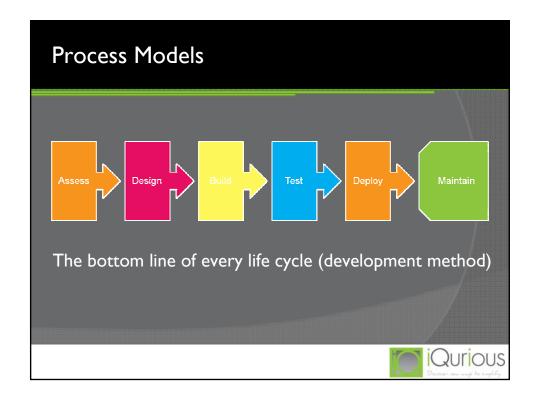


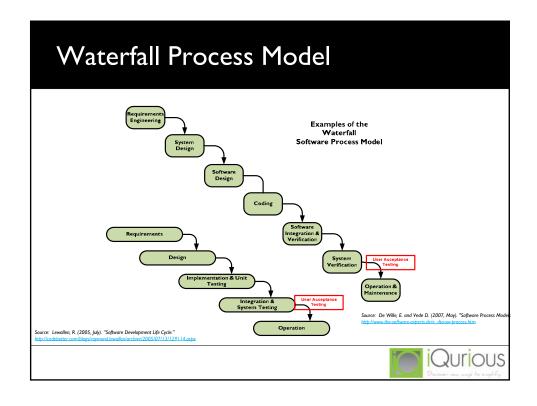
### Agenda

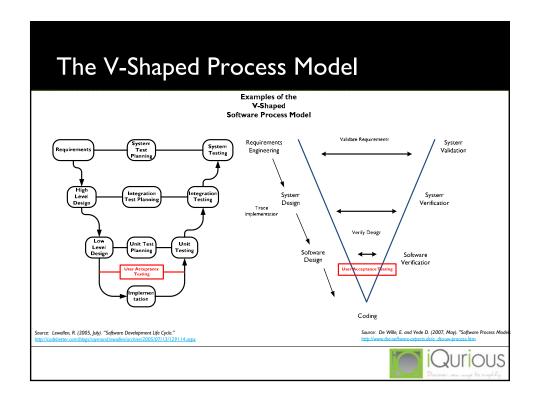
- Defining UAT in your environment
- Creating a UAT plan
- Techniques for maximizing success
- Presenting the data
- Hands-on workshop
- Each participant will receive templates, sample questions, and other materials on a CD at the end of today's class

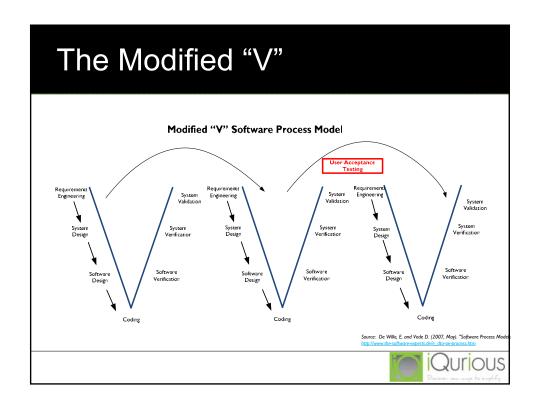


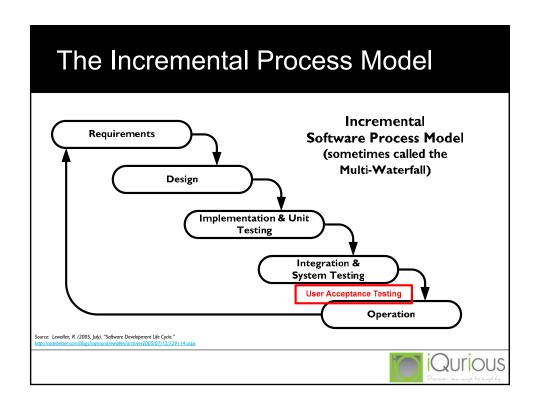


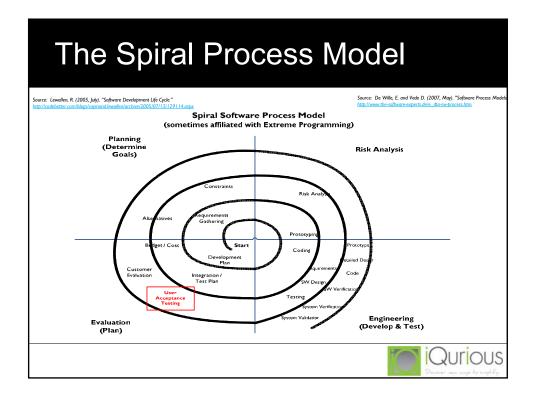












### Basic steps for UAT

- Plan: Identify what needs to work in the simplest terms
- Specify: Forget the complicated test scenarios and figure out what "easy" steps will confirm UAT success
- Execute: Run the UAT in as efficiently and quickly as possible
- Record: Make sure processes are in place to "measure" the success of UAT
- Complete: Set a FINAL date when UAT summary will be complete.



### A checklist for success

- Thorough requirements document
- Complete development cycle
- Comprehensive System Tests
- Concise documentation
- Straightforward UAT Test Plan
- Appropriate resources (Human and System) available for tests



### The "sweet spot"

- How do we find the ideal place for UAT in the development/rollout cycle?
  - What are your concerns?
  - Who: in your organization: is affected?
  - What is helpful feedback?
  - How do you know that your objectives were met?



### Is "no-go" an option?

- What is "Done"?
  - Feature Freeze: Major design elements are done
  - Code Freeze: The system/software has successfully completed a full internal test run
  - Release Candidate: Everything is "ready" for release
- Is the Rollout date set in stone?
- What are your options if the feedback is negative?



### Who will you target?

- Is there an "ideal user"?
- Do you foresee "pain points" with specific users?
- What are the "risks" of integrating outside users into your test cycle?



### Group activity

Discuss the "Sweet Spot", when you're "done", your "ideal user", the "pain points", and UAT risks



### UAT is not...

- Smoke testing
- Functionality testing
- Regression testing
- Platform or Compatibility testing
- Alpha or Beta testing (we'll discuss why)
- Subject-matter Expert testing
- Boundary testing



### Requirements

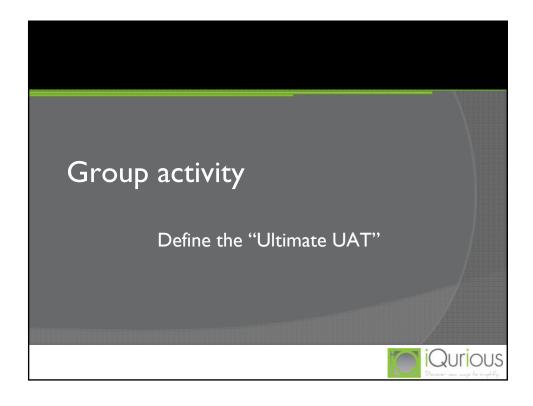
- Why is this project being created?
- What are the changes that will occur to complete the project?
- What organizations are involved in completing the project?
- How long will it take to get the changes done?
- Who is responsible for ensuring the project is successful?
- What is "successful"?

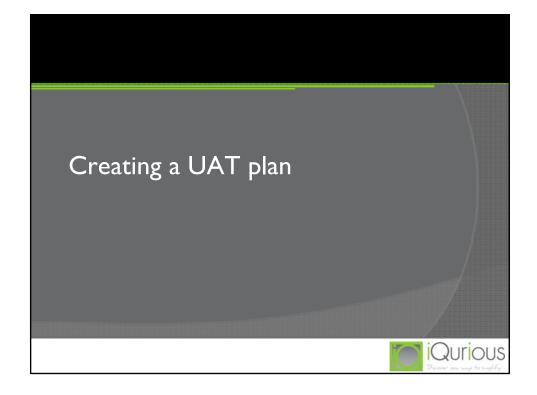


### What kind of output do you want?

- Define what will be helpful or unhelpful
- How can you guide users to give you the feedback you want?
- No handholding! What must be done so that UAT testers can complete their task with a minimal impact on the developers and testers?







### Time frame for testing

- Perils of a long time frame
  - Many users will only test for last 3 days
  - Users need sense of immediacy
- Ideal timeframe is under 2 weeks
  - Keeps the ball rolling
  - Still allows users to get vital work done around testing



### Communication plan

- No surprises: get level-heads involved
- Create your communication model
  - Identify:
    - Who will gather results
    - What output will be collected
    - How results will be communicated to project team
- Plan ways to overcome "honesty obstacles"
- Protect developers and UAT testers from one another



### Making good questions

- The key to valuable feedback: A plan without a "Plan".
- Sample questions
  - Does the system work?
  - Do you like the UI?
  - Did you have any issues?
- Components of a good question
  - Simple language: keep it brief
  - Multiple choice / Satisfaction Ratings
  - Limit the number of questions asked!



Sample Requirements documents & UAT plans



### Techniques for maximizing success

### Find a power user

- Power users are often used in beta testing
- Where do they fit in UAT?
  - Used as liaison between users and IT/developers
  - Higher level of honesty
  - Can be used as first-level support



### How to keep power users

- Rewards: Integrating expert users into UAT cycles can be a win-win for the overall project.
  - Improved Requirements documents
  - Better development test cycles
  - Early buy-in: Experts can help support your organization's deployment of a major change
  - Influence: Power users have egos too! The more you use them, the better they feel.



### Motivating users to participate

- Common target is 30% detailed feedback
- Getting there:
  - Raffle: Games are good!
  - Nagging e-mails: Guilt works too...
  - Buy-in from management
  - Make it mandatory
  - Be the good guy
  - Unintended benefits: UAT can strengthen relationships between organizations



### Group activity

- Brainstorm on ways to motivate testers
- Create a nagging email



### Presenting the final data

- Summary report
  - A successful UAT program should have an unnecessary summary report
  - Create good communication plan before UAT begins
  - Nothing in summary report should be a surprise
- Why I don't like doing UAT summary reports



### Graphs & charts

- Who looks at graphs and charts?
  - Everybody (if they're pretty enough)
- Information can be used by different groups
  - Bring your results to the Project team and the users
  - Make sure positive comments are broadcast
  - Reinforce connections UAT might offer
- Stay practical: Keep It Simple...



### Needs of different departments

- Who needs to see your results?
  - Engineering / Development
  - Quality (QA, QC, System Test)
  - IT Support
  - Management (Executive level)
  - Others?

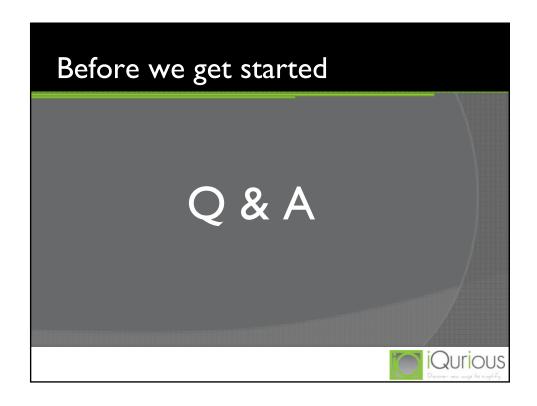


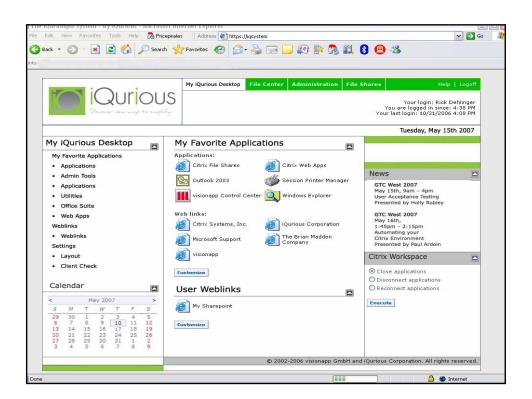
# Now it's your turn Live i Qurious

### **UAT:** Internal Access Portal

- Define UAT for your environment
- Create requirements document outline
- Identify internal tests
- Create UAT plan outline
  - Line of support for testers
  - Information needed from UAT (questions for testers)
  - List ideas to motivate users
- Decide on output elements for UAT summary









## Takeaways CD contents Presentation Sample documents Templates for you to create UAT plan and summary docs Leave your e-mail to get more stuff HollyR@iQurious.com

