Choosing the Right Usability Tool (the right technique for the right problem)





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Workshop abstract

Selecting the right usability tool is critical because it ensures that you are using the usability team resources effectively to produce findings & recommendation on time and within budget to help find the right answers for your client.

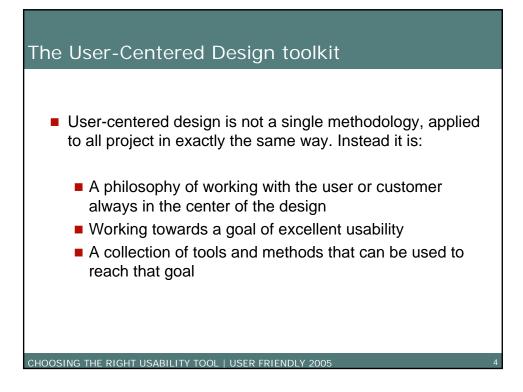
Usability professionals reuse specific tools because they are easier to sell and better known e.g. Usability Testing, Expert Usability Reviews, however, these may not always the right tool for the job.

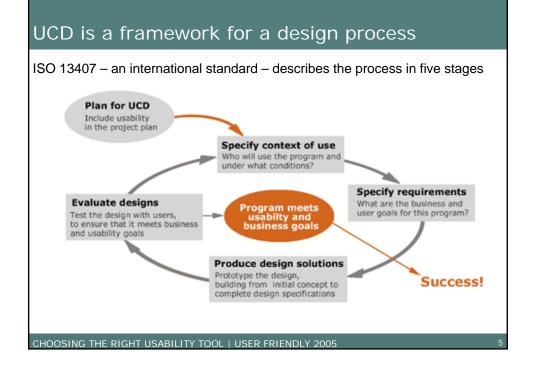
How do you ensure you are choosing the right tool for the job?

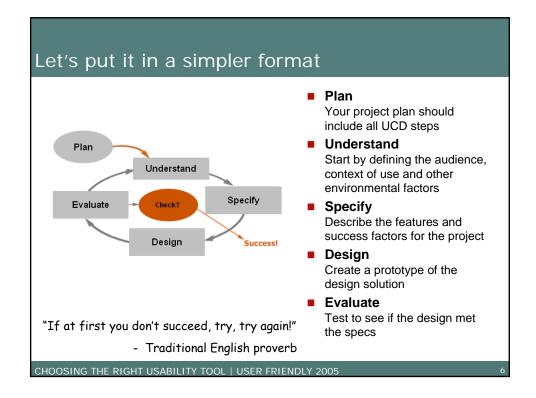
Agenda and Goals

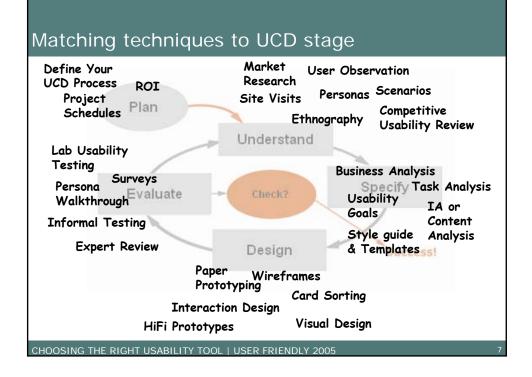
- User Centered Design
- The Toolkit
- Choosing the right tool
- Popular tools
- Selling Usability
- Summary

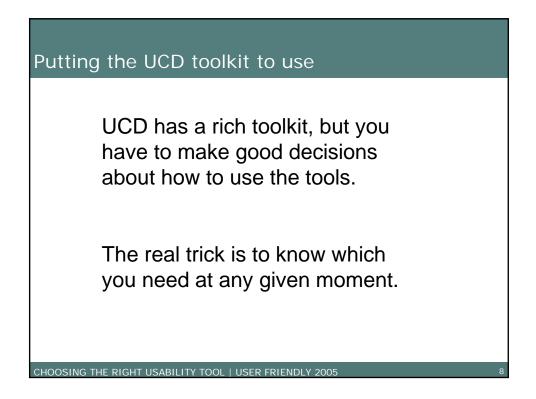




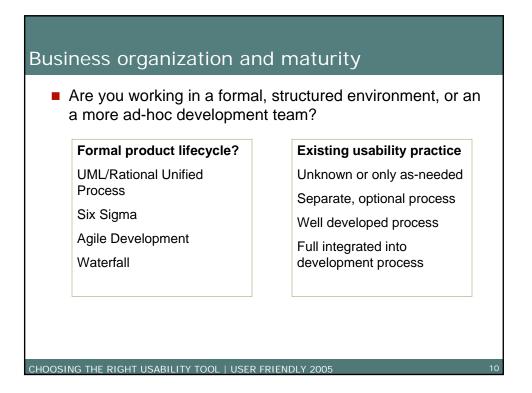












Project or product goals

What type of project are you working on, and what are its business goals

Project goals?

Improve internal processes

Strengthen existing customer relationships

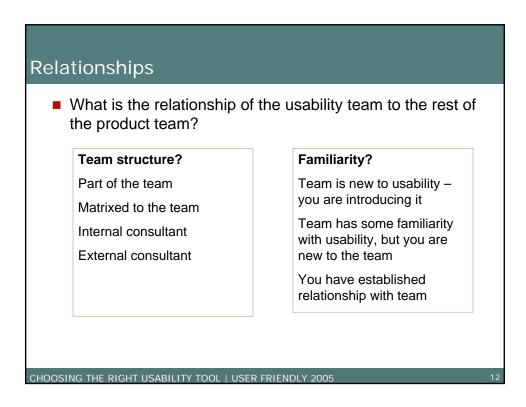
Attract new customers

Enter a new market

Business goals?

Increase sales Decrease costs Increase profits Increase market share

Non-financial goals



Tailor your technique to the "problem"

What are the questions or risk factors?

New product concept or workflow? Unknown technology? Change management issues? What do you and your sponsor want to find out?

Who are the users?

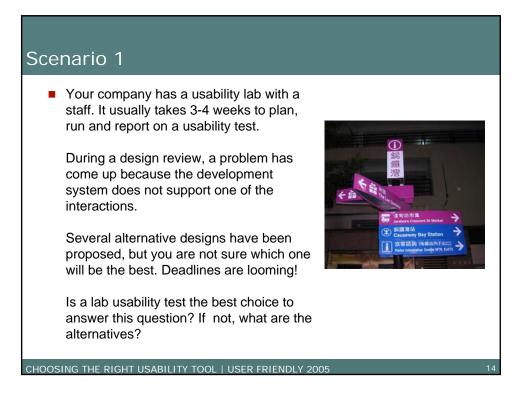
How well known are they? How hard are they to recruit or reach? What previous usability work exists?

What is the competitive landscape?

Is it a new product or enhancements? What is the competition? How innovative is the product concept?

When do you need results?

- How fast will you have to work?
- When is the launch date?



Scenario 2

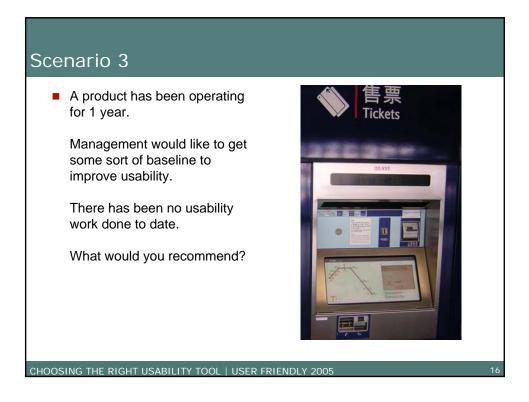
 Your company is planning to launch a service to replace an existing service.

Marketing want to run a focus group to understand how users are using the current service to see how the new service can be improved.

Usability is new in the company.

Is a focus group the best choice to answer their questions? Alternatives?





Scenario 4

 A product is about to launch and there has been no usability input.

Management are concerned that the product may not succeed and some critical functions are hard to use.

You have 1-2 weeks before launch. What would you recommend?

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Tailor your technique to the "problem"

- To understand the environment... think observation, not usability testing
- To test a concept... think rapid prototyping, not detailed specs
- To find market advantages... think about an early competitive usability test

Think about:

- What do they want to find out
- Time to market
- Who needs it and when
- Hidden agendas

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18

Techniques for learning about users

То	Use
Learn about users in their own context	Site visits (ethnography / contextual inquiry) to observe users in their own setting
Know their goals and how they work	Scenarios of uses and task analysis to explore and document their workflow
Identify factors in the environment	Context of use audit to understand their environmental, social and access needs
Identify quantitative demographics	Review (or conduct) <u>market research</u> on product usage, user demographics, etc
Document user analysis	Create <u>personas</u> to document key aspects of different user groups

Techniques for collecting business data

_earn about a new	Conduct stakeholder interviews to collect
ousiness context	input from different parts of the business
Find trends or gaps n business process	Review problem reports from technical / customer support for usability problems
Understand traffic patterns	<u>Review site logs</u> for patterns of traffic on a web site
Understand the competition	Conduct a <u>competitive audit</u> or <u>comparative</u> <u>usability test</u> with competitive products

Techniques for analyzing information and tasks

For	Use
Understanding how users do their tasks today	Task / workflow analysis techniques to document steps and variations
Learning about relationships between information or tasks	Card sorting to create logical groups users will understand
Deciding how to organize the task in the application	Navigation and flow charts that group the interaction steps into screens
Exploring different interaction designs	Paper prototyping and task walkthroughs (with users or personas)

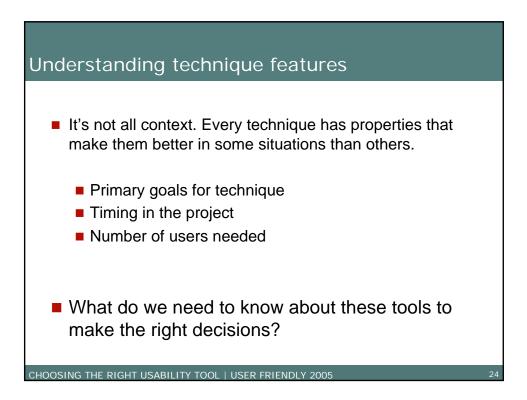
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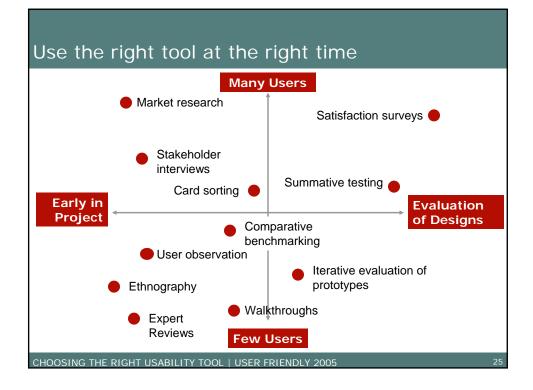
Techniques for evaluating designs in progress

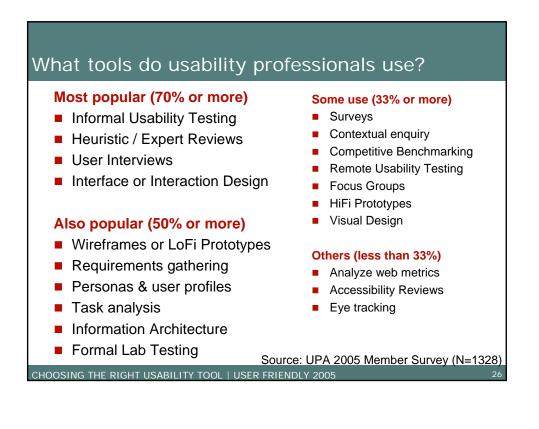
Team review of a conceptual designWalkthroughs using scenarios and task modelsCollecting input from colleagues on the designHallway reviews to collect rapid inputTesting aspects of the design, or reviewing progressUsability evaluation with usersMeasuring overall success in meeting usability goalsSummative usability testing with users Satisfaction surveys after release	For	Use	
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meeting usability goals users		Usability evaluation with users	
Satisfaction surveys after release	0	<u>_</u>	
		Satisfaction surveys after release	

Tools gaining popularity

- Remote usability testing
 - Reduce need for travel and logistics. Allow teams to collaborate
- Site visits (contextual inquiry or ethnography)
 - Understand users' cultures. See "what they do" not just hear "what they say"
- Eye tracking
 - Understand how people really see a page to improve design
- Accessibility
 - Legal requirements. Need to reach older audiences. Mobile devices
- Participatory design
 - Involve users throughout the design process. Create tools for specialized needs

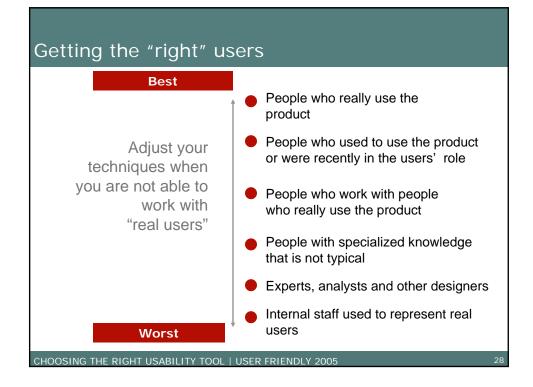






Usability testing has many purposes

Exploratory Research	Benchmark Metrics	Diagnostic Evaluation	Summative Testing
Understand users and context	Establish baseline metrics	Find and fix problems	Measure success of new design
Early in project	Early in project	During design	At end of process
How often: once	How often: Once	Done iteratively	How often: Once
			:
• 6-12+ users	• 8-24 users	• 4-8 users	• 6-12+ users
Blend of	 Focus on metrics 	 Less formal 	More formal
interview and observation	for time, failures, etc.	 Focus on qualitative data 	 Metrics based on usability goals
 May use competitive 	 Tests current process or product 	·	Users unassisted
products			Source: Ginny Redish
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What's wrong with focus groups?

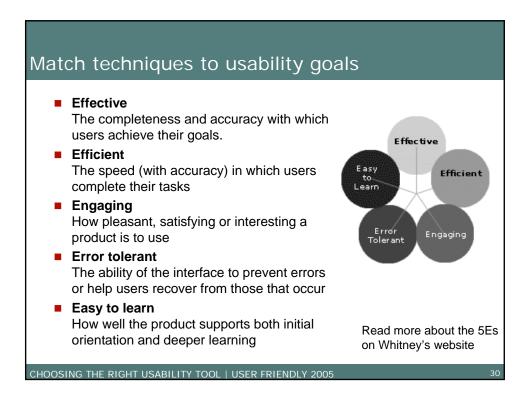
- They are good for:
 - Exploring what users or customers want
 - Gaining consensus on a concept
- But..
 - Provide little depth from any participant
 - Capture opinion, not behavior
 - Strong group members can skew results
 - Provide weak qualitative data

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You can get better data for the same cost with in-depth interviews

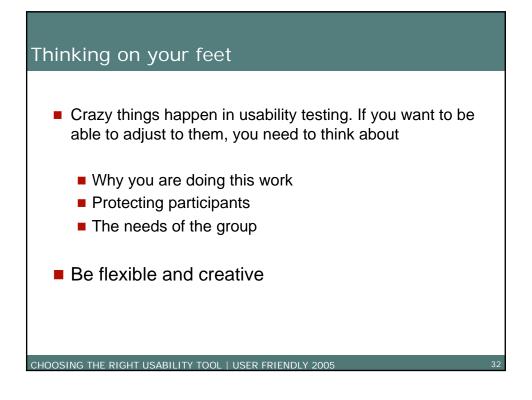


How Customers Think – Gerald Zaltman



Design tests to evaluate for usability goals

Usability Goal	Types of usability testing needed	
Effective	Evaluate tasks for how accurately they were completed and how often they produce errors	
Efficient	Time tasks with realistic tasks and working versions of the software	
Engaging	User satisfaction surveys to gauge acceptance review logs for 'time on site'	
Error-tolerant	Construct task scenarios to create situations with potential problems	
Easy to learn	Control how much instruction is given to test participants, or recruit participants with different levels of knowledge	
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- One way to sell usability is to show that you understand project management and can fit your work into the project timeline
 - Fit usability into a project, one step at a time
 - Find ways to get everyone involved
 - Tailor techniques to answer the right questions
 - Present results in a productive way

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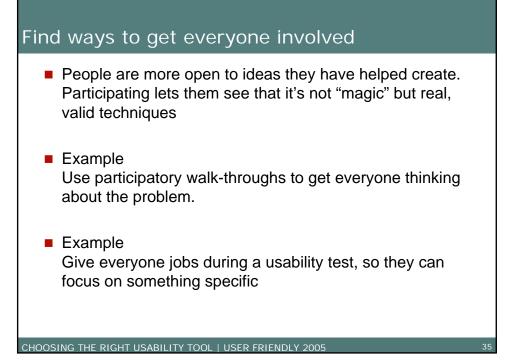


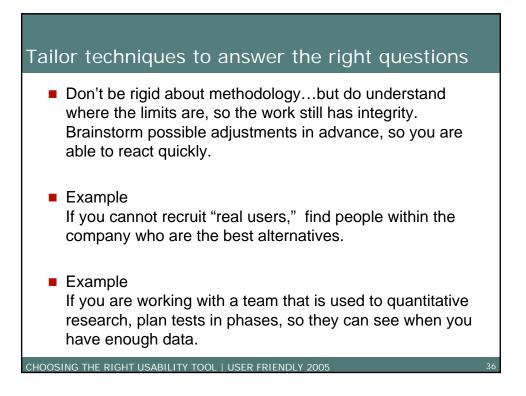
- Start with one small project that demonstrates value
- Think about the real business need, don't just "sell the concept"
- Example:

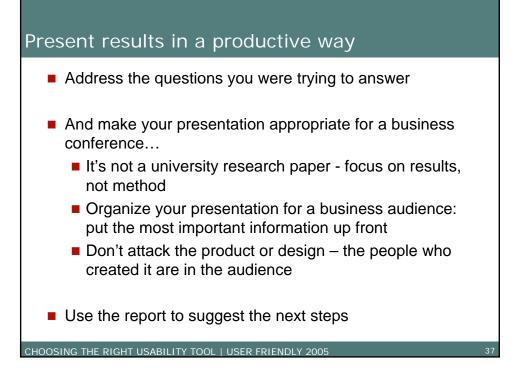
In a company that had never done any usability testing, we ran an informal usability test with an internal user. When they saw that even that simple activity produced good insights, they were more confident about moving forward.

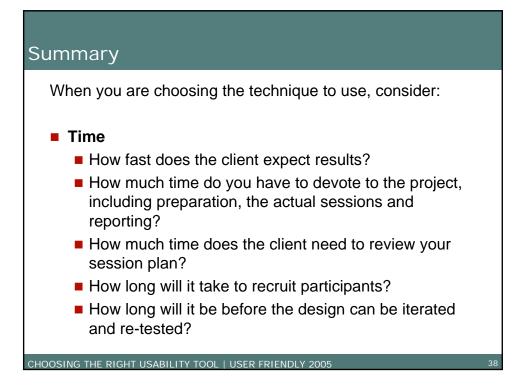
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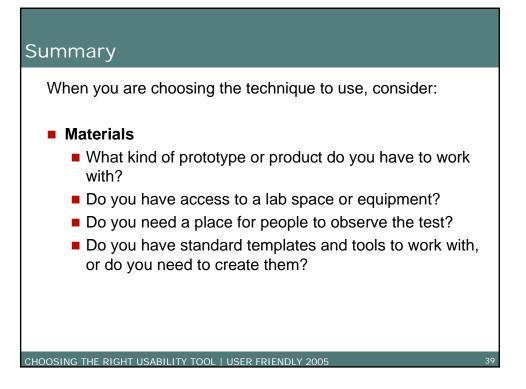
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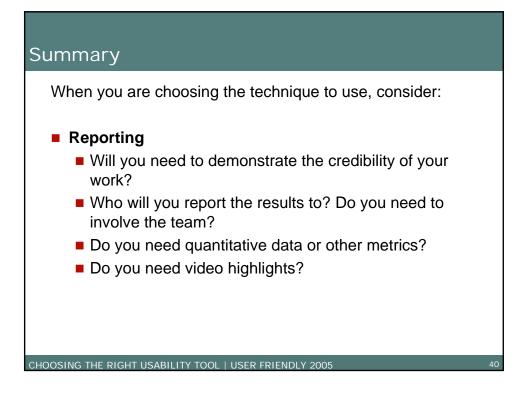












Summary

When you are choosing the technique to use, consider:

Politics

- Is there a clear champion for usability to support the project?
- What are the roles and responsibilities of the people you will work with?

