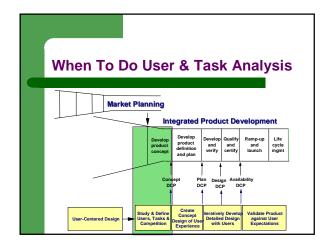


Difficult to study one without the other Where does it fit in the process What is it and what it is not What you can learn Costs of not doing it, why it's not done



What is User & Task Analysis? Learn about users by observing them in action in their own environment Asking questions to probe for more information and understanding

Focus groups or usability testing outside the users' environment Talking to expert users or managers Just asking users what they do

• Users Matter, Claire Rowland, WebReview.com

User & Task Analysis Output

- User goals, what they want to achieve
- Tasks, what they do to achieve goals
- Personal, social, cultural characteristics
- Influence of the physical environment
- Previous knowledge and experience
- What users value most in your product

Cost of Not Doing User & Tasks Analysis

- Design costs
 - Time wasted on arguments about users / tasks
 - Time wasted on extra iterations of user testing

Cost of Not Doing User & Tasks Analysis

- Developers pay
 - Decreased sales due to unpopular product
 - Increased support costs
 - Cost of fixing product after it ships
- Customers pay
 - Excess training costs
 - Cost of fixing user errors
 - Time wasted by unhappy and inefficient users

Why Isn't It Always Done?

- Marketing already knows our users
- Too new no users yet
- Users are too different can't study all
- Not enough time or money
- We're all users

Disciplines Contributing to User and Task Analysis

- Anthropology and ethnography
- Cognitive psychology
- Technical communication, rhetoric
- Instructional systems design
- Market research
- Scandinavian participatory design

Suggested Reading

• Reeves & Nass, The Media Equation

User Analysis

- Who are your users?
- Brainstorming a user / task matrix
- What to look for?

Who Are Your Users?

- Those who buy, install, administer, use, or fix the software (primary users)
- Customers (secondary users) of the primary users
- Avoid user surrogates

Suggested Reading

 Bruce Tognazinni, Tog on Software Design, "Two Masters, or The Bifurcated Customer."

Getting Started

- Gather people who interact with users
- Brainstorm a preliminary list of users
- Create user/task matrix to model users
- Discuss your assumptions about users
- Decide how to test your assumptions

People Who Interact with Users

- Salespeople who call or visit buyers
- Services people who work with users
- Marketing who have studied users
- Trainers who educate users
- Support who help users
- Former users who now work for you

Brainstorm List of Users

- What are the differences among users
 - Personal age, gender, attitudes to tech
 - Education level completed, major
 - Experience time, frequency, type of products, operating systems, tasks
- Job descriptions titles, responsibilities
- How do they group and in what %s

User / Task Matrix

- Which users use what parts of interface
 - Purchase
- Basic features
- Evaluate
- Advanced features
- Install
- Customization
- Administration
- Task breakdown

What to Study About Users

- Jobs
- Tasks
- Tools

Users and Their Jobs

- Do users all have the same title or different job titles?
- Are users professionals or trained in the workplace?
- Do users know a lot about their own function but little about what comes earlier or later in the workflow?

What User Know About Tasks

- How did they learn their tasks?
- Do they perform the tasks the same way today that they always have?
- Many tasks or a few over and over?
- Do users teach one another? Experts?

What Users Know About Tools

- What tools are they using today?
- What tools have they used in the past?
- How did they learn the tools?
- How comfortable with tools? Expert?
- Do the tools define their jobs?

What's Important

- Get organizational agreement on who the users are
- Don't just accept assumptions, get out and observe users
- We'll talk about methods next week

Class Exercise

- Given three user groups for WebVan
- Characterize personal, education, experience, job, tasks, and tools
- How would you validate these assumptions?

User Definition Assignment

- Prepare a draft definition of your users
- See IS214 web site Assignments page for sample content and layout
- Due Feb 14 (or see me for exceptions)