# Use-cases and workflow

#### Use-case diagram

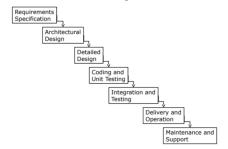
### Use Case Name: Withdraw Cash Participating Actor Bank Customer (BC) BC withdraws cash from their account Preconditions: System prompting to insert bank card BC has bank card BC has money in their account Postconditions: BC recieves request ammount in cash BC account reduced by withdrawn ammount BC has bank card returned System prompts to insert bank card Trigger: BC inserts bank card Basic Flow: 1. Sys prompts to enter PIN 2. BC enters PIN 3. System prompts for transaction type 4. BC selects type 5. System prompts for ammount User Primary - End user, freq usage Secondary - Manager of end user, occasional use or by proxy Tertiary - Owner of the system, influences funding choices User considerations Background - Motivation to learn, Literacy, Knowledge,

Computer skills, Attitude to computers Kinds of use - infrequent/novice, frequent/expert
Abilities - Physical, Social, Perception, Motor
User communication issues - Cannot always express what
they want, may not know what is and isn't possible,

Innovator's dilemma

stick to set cases and knowledge, fear other factors

# Waterfall Lifecycle Model



## Throwaway Prototyping Incremental Prototyping

Process: build and test prototype gain knowledge for the real product "throw away" the prototype

then "develop" the product for real

Process: triage system into separate "increments" • i.e., "must do", "should do", "could do" develop and add one increment at a time

Example (accounting system): prototype 1 — general ledger prototype 2 — accounts receivable/payable prototype 3 — payroll

## **Evolutionary Prototyping**

Process: feature is refined or "evolved" over time

Example (text editor): prototype 1 — command key cut/paste prototype 2 — undoable cut/paste prototype 3 — drag and drop cut/paste

## **Unified Process**

- \* Iterative Incremental Customizable
- \* Phases

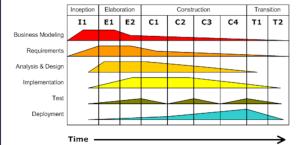
  \* Inception: Risks and Business Cases
  and Use Cases \* Elaboration: use case diagrams and
- class diagrams

  \* Construction Phase: implementation in iterations

  \* Transition: Deployment

#### Iterative Development

Business value is delivered incrementally in time-boxed cross-discipline iterations.



# Staged Delivery

deliver the system in a series of working releases or builds

use some functionality while the rest continues to be developed

Possible parallelism: production and development systems staggered development streams

# Staggered Builds

