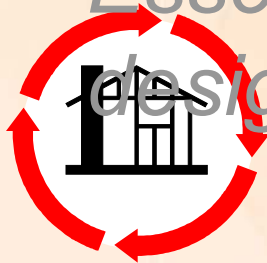


RAPID PROTOTYPING

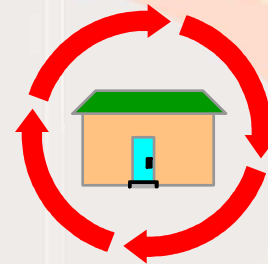
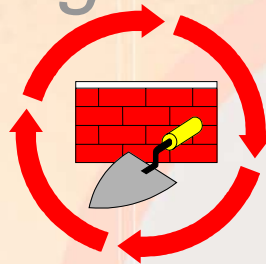
Arman Kanooni

Rapid Prototyping

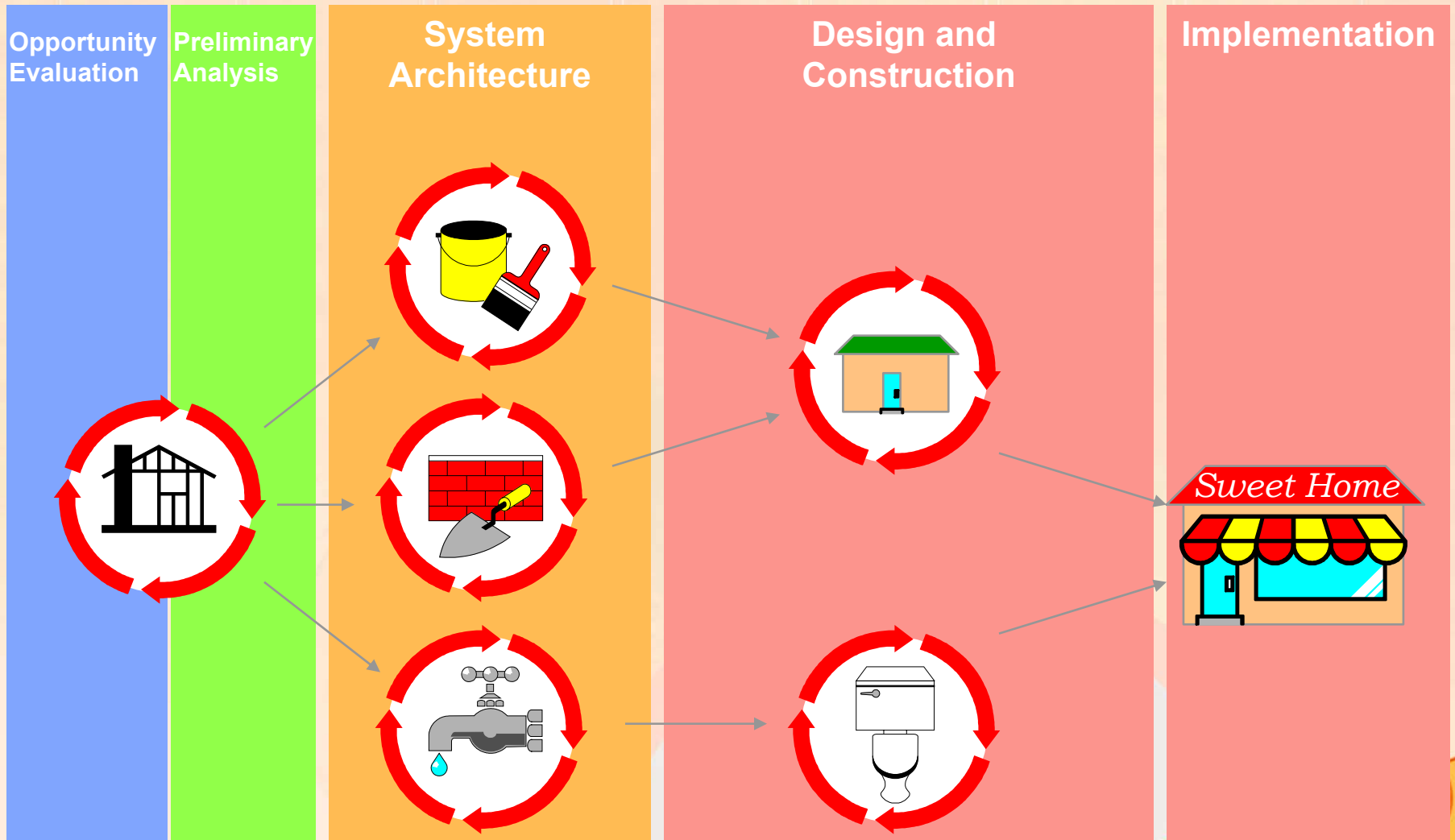
- *Used for components or decisions rather than entire system*
 - *to explore (exploratory prototyping)*
 - *to build and validate some aspects of the final product (evolutionary prototyping)*
- *Essential to good user interface*



design

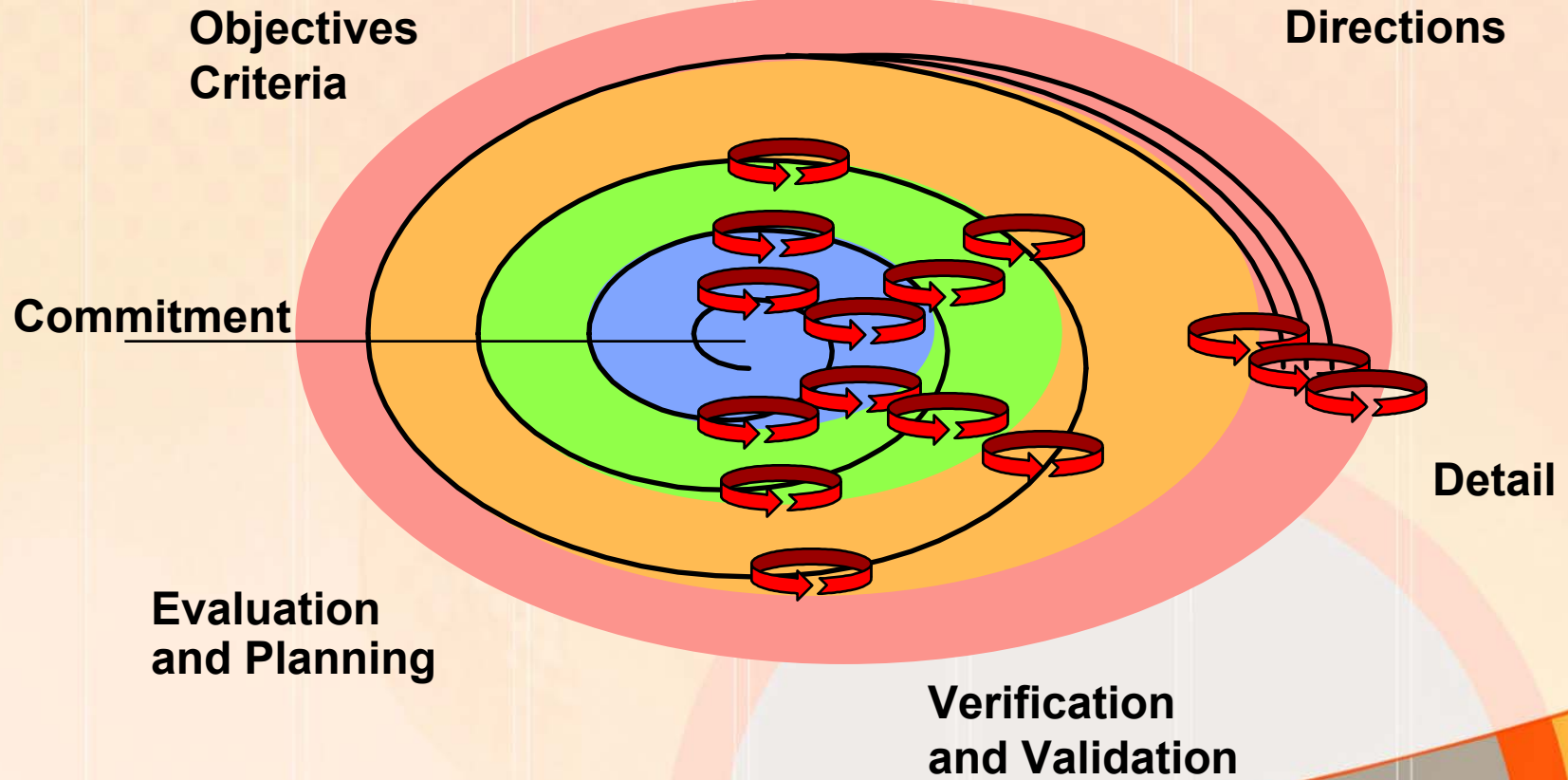


Rapid Prototyping



Rapid Prototyping Vs Spherical Development

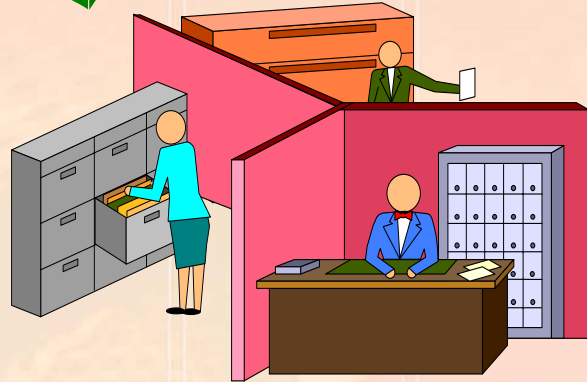
Prototyping used throughout, purpose defined by spiral
Overview



Usability



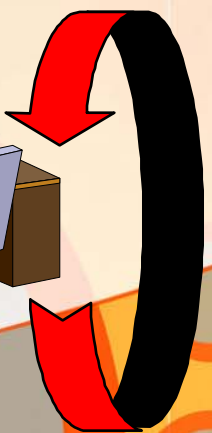
Users



Work Processes



User-Interface Prototyping



- *Usability enables organizational flexibility and user productivity*



User Interface Design Techniques



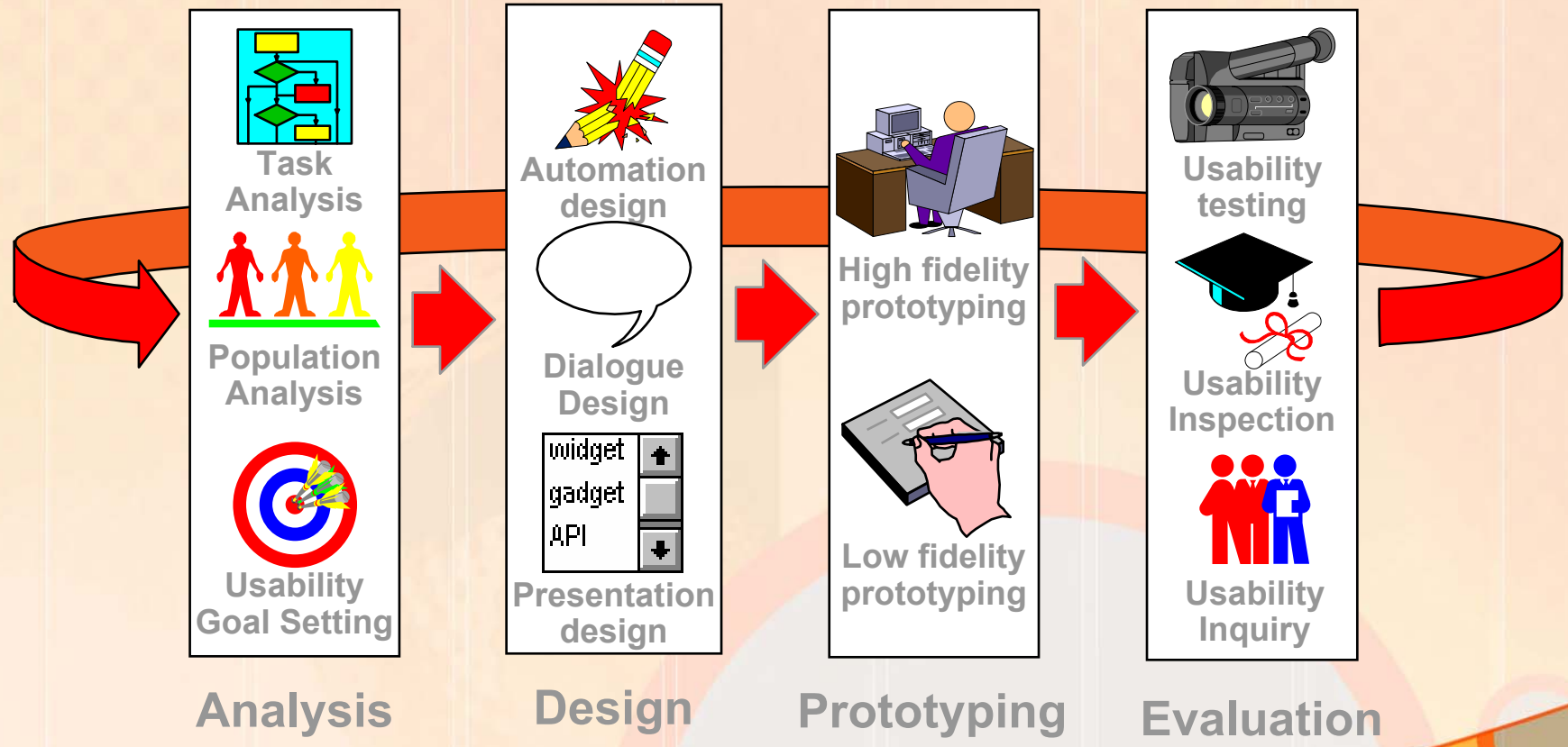
Principles & Guidelines



Technology



Users



Analysis

Design

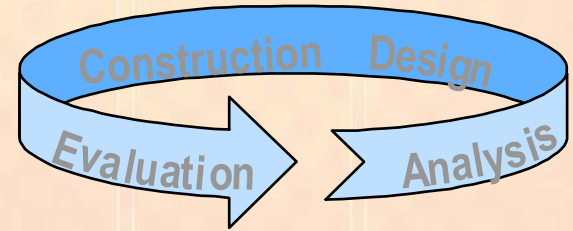
Prototyping

Evaluation

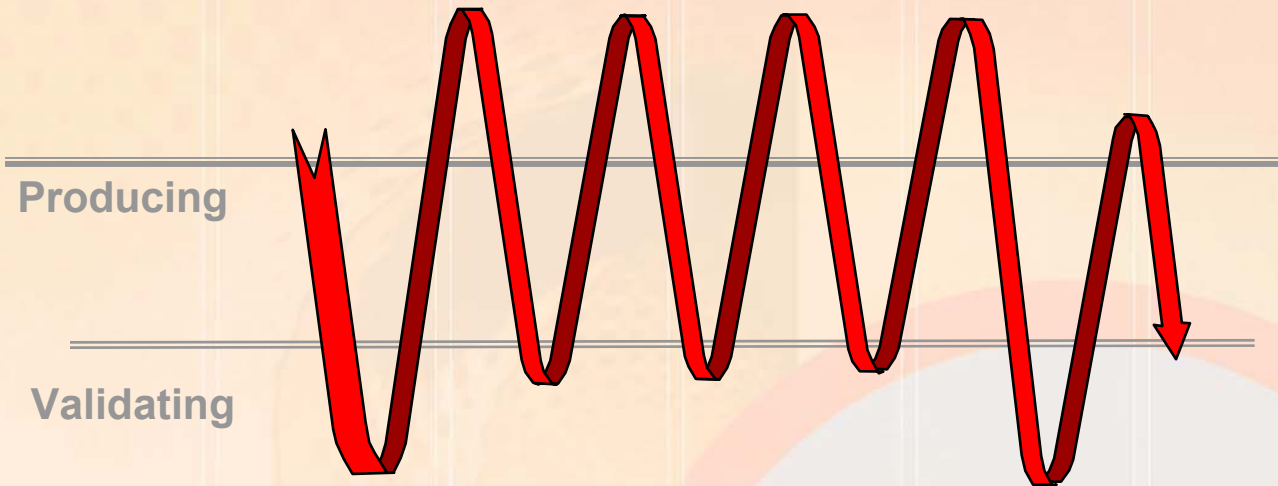


Iterative approach

- *Get feedback*
- *Sort and prioritize*
- *Discuss*
- *Achieve consensus*



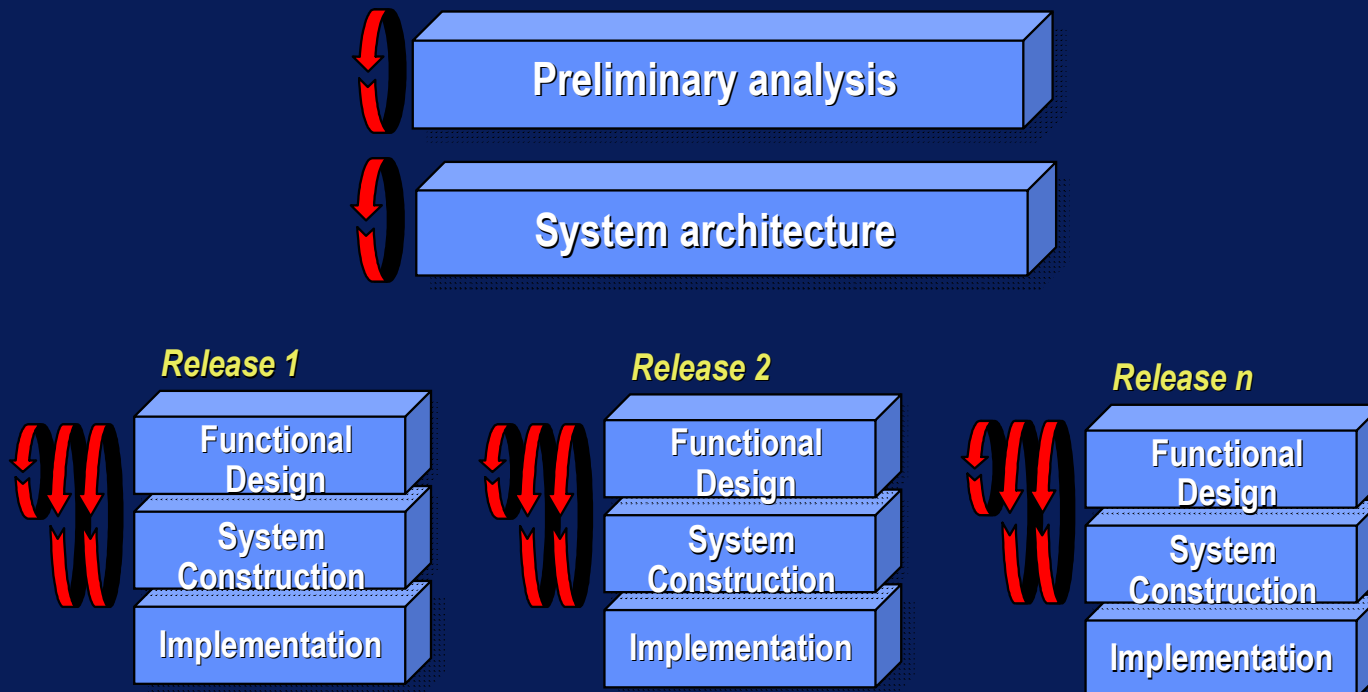
Validation Cycle



Continuous Validation

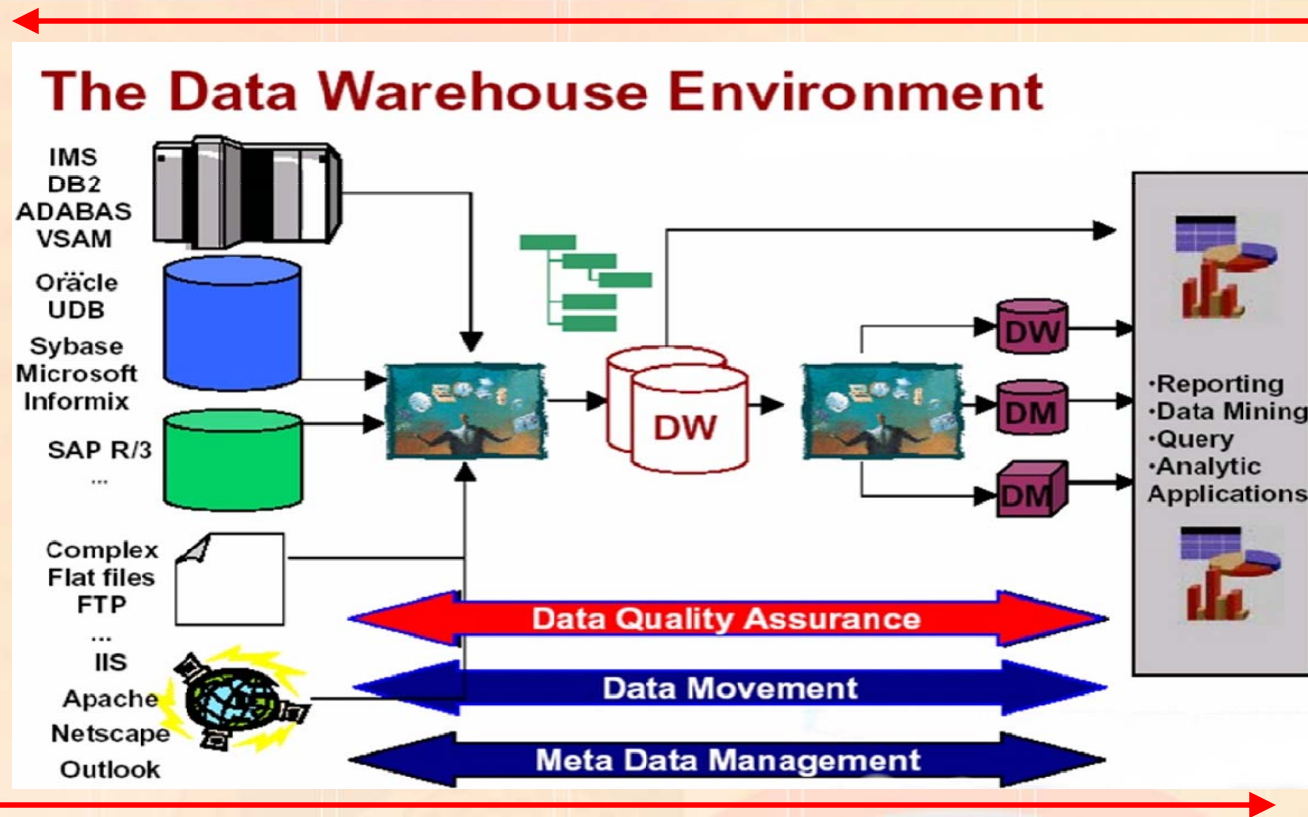


Prototyping is Mainstream



Prototyping is essential in developing usable systems and in reducing technological risks

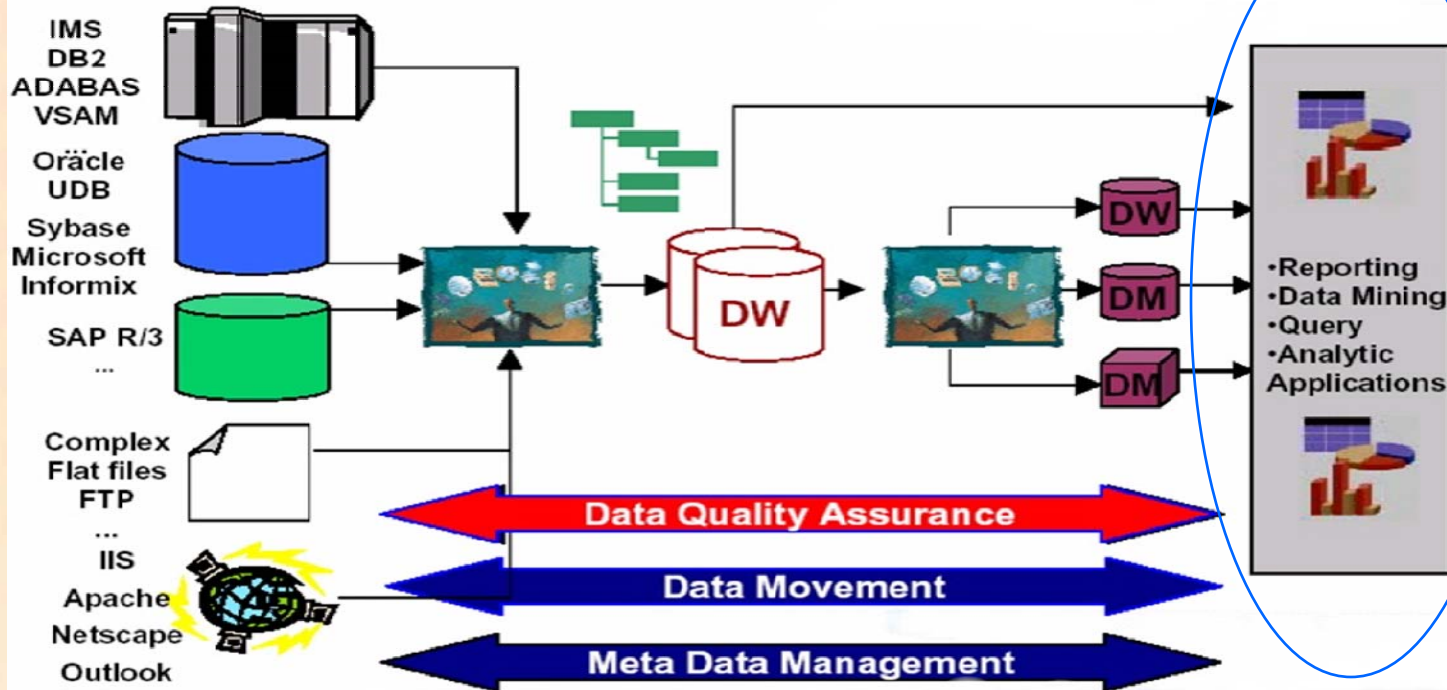
Data Warehouse Development



- *Requirements: work right to left*
- *Construction: work left to right*
- *Rapid iterative cycles of builds*
- *Don't build a Data Landfill*
- *Remember why you're doing this – find a killer performance metric*

The User Interface

The Data Warehouse Environment



- Query tools: life span is 12 to 24 months
- Largest investment is often user learning
- Browser based solutions can dramatically reduce deployment costs for occasional users
- Consider a heterogeneous approach



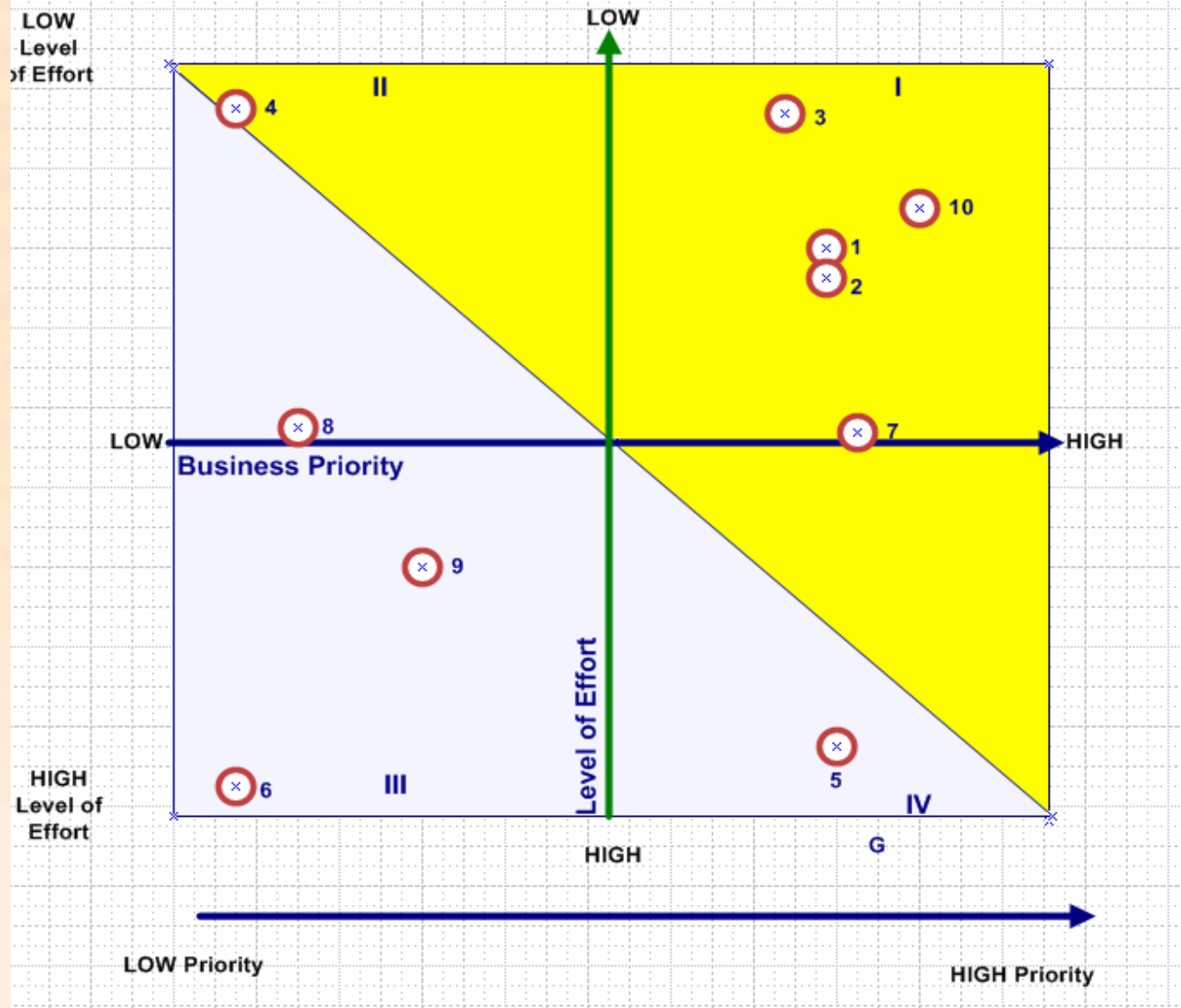
Ranking Opportunities



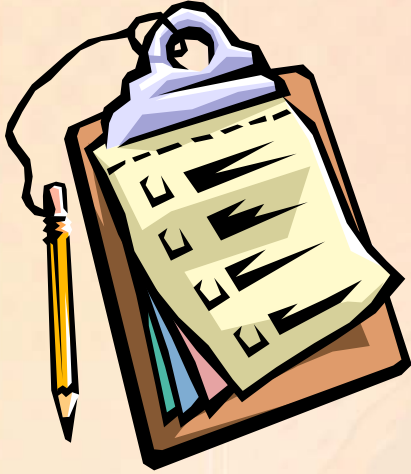
- *Group requirements into opportunity areas*
 - *Product Margin Analysis*
 - *Sales Analysis*
- *Grade opportunities by importance*
 - *Actionability of Information*
 - *Materiality of Impact*
 - *Tactical Vs Strategic Focus*
- *Grade opportunities by difficulty*
 - *Cross-functionality of Design*
 - *Existence and Accessibility of Data*
 - *Complexity of Calculations*



Creating the BI Opportunity Scorecard



Developing an Implementation Strategy



- *Set Specific Goals*
 - *Phased Approach*
 - *Quick Wins with High Value First*
- *Build a Prototype*
 - *Design from Requirements, Not Data Structures*
 - *Solicit User Feedback Frequently*
- *Construct Production Platform*
 - *Test Each Component with Small Volumes*
 - *Scale Up Incrementally*
- *Train the Users*
 - *Provide Training for the Tool and the Data*
 - *Institutionalize System Usage*

