# About Products and Product Development

**UW CSE 403** 

Skip Walter CEO Attenex Corporation November 22, 2002



## **Gaining Experience**

Where'd you get your good judgement?From my experience.Where'd you get your experience from?From my bad judgement.



### **Context Quotes**

#### On Models:

- All models are false.
- However, some are useful.
- "Why should we look to the past in order to prepare for the future? Because there is nowhere else to look." James Burke, Connections
- "A man is known by the company he organizes." Ambrose Bierce



# Outline

- Context of a Product
- Technology Adoption Lifecycle Curve
- Whole Product Thinking
- Reverse Product Design
- r2DNA recombinant reflective Digital Network Assets



# **But First a Story**

- First meeting after my promotion from product development manager for All-IN-1 to Director of Office Automation Products:
  - US Group Vice President:
    - What business are we in?
    - Who is our customer?
    - Why do our customers value what we do?
    - What products do we offer?
- Huh?



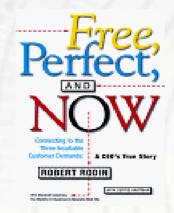
#### **The Simple Questions**

- What is a product?
- What is a project?
- What is a prototype?
- What is a customer?
- Deming's Five Whys?



## A Product has a Context

- Economy growing or shrinking?
- Industry who are the leaders?
- Company core or context?
- Department revenue or expense?



And My Way!



## The Mind of a Product Creator

- See a need in the world of real users.
- Capability. Ability to pull resources together.
- Viability. Ability to keep resources together.
- Desirability. Ability to find someone willing to pay for the product.
- Energy. Ability to keep going when no one "gets" your wonderful idea.



## **The Four Questions**

- What are we trying to create?
- How will we know that we've created it?
- What resources do we have to get started now?
- What other opportunities does this lead to?



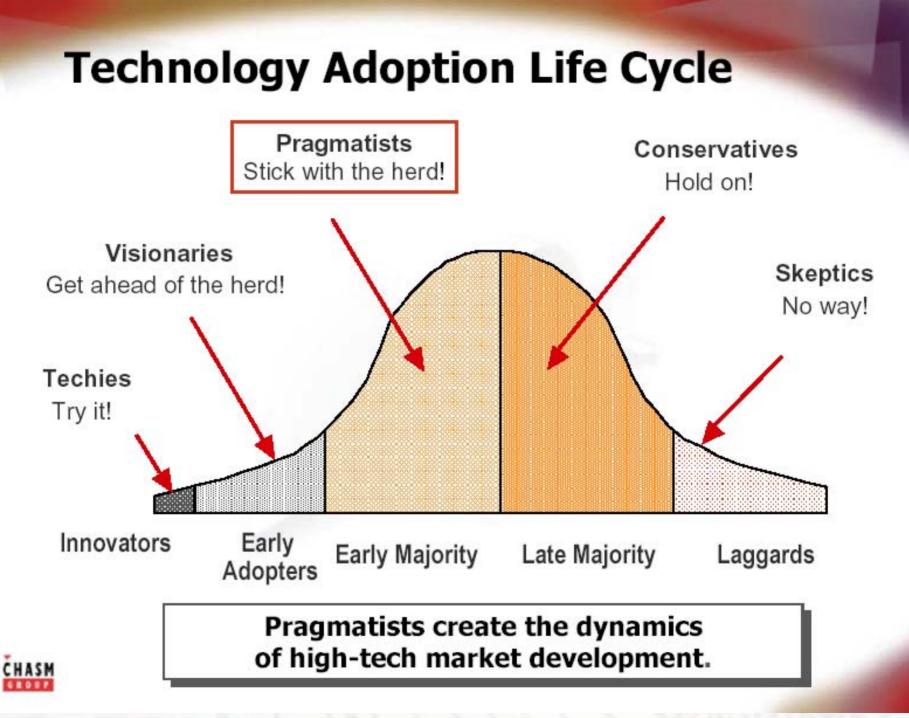
#### Influencers, Purchasers, Users

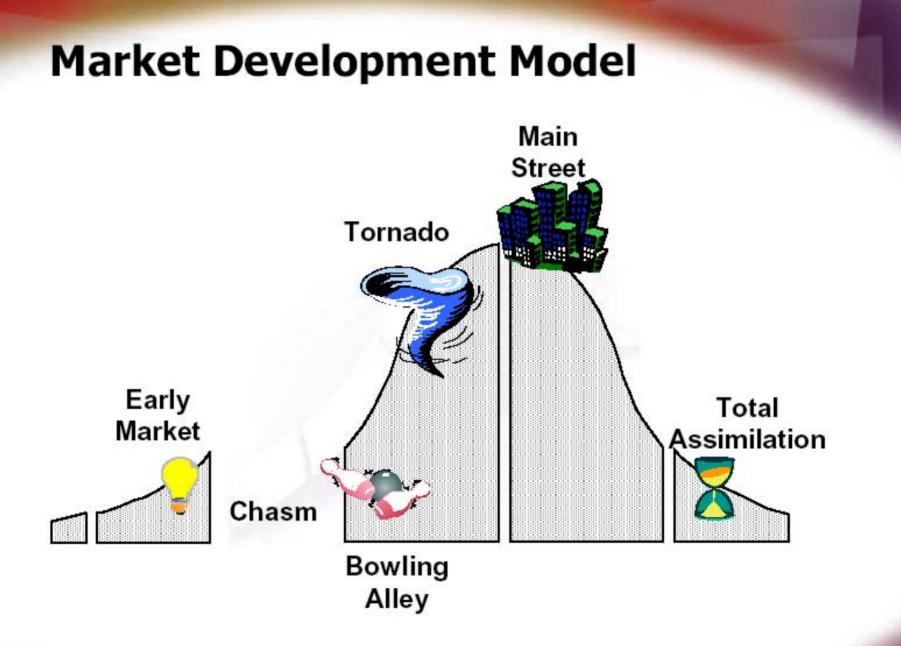
- Marketing of Colleges Story
- Customer Does Not Parse
- Walter's Second Law:
  - Words mean something but rarely the same thing to different people.

#### Distinctions of Customer

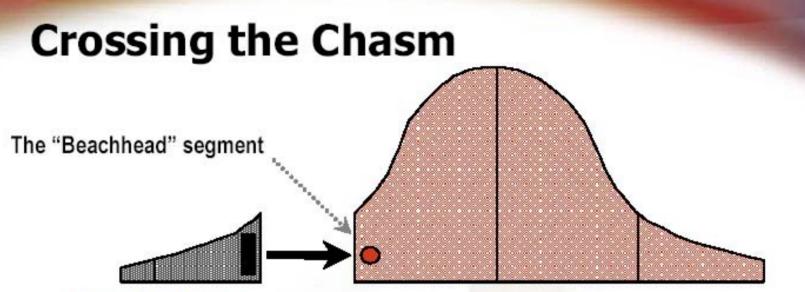
- Influencer
- Purchaser
- User











#### The Problem

- 80% of many solutions—100% of none
- Pragmatists won't buy 80% solutions

#### Conventional solution (leading to failure)

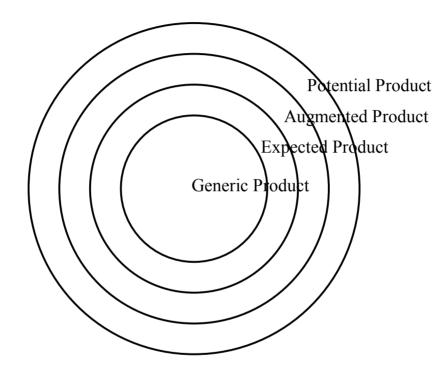
- Committing to the most common enhancement requests
- · Never finishing any one customer's wish-list

#### The Correct solution (leading to success)

- Focus on a single customer segment and build whole product for that segment
- Use experience and product to move to similar segments



#### The Whole Product Model



## **Whole Product Concept**

- Generic what a company actually delivers to a customer
- Expected what activity the user hopes the product will benefit
- Augmented who else complements the generic product
- Potential what are ways and directions that the product can be further enhanced.

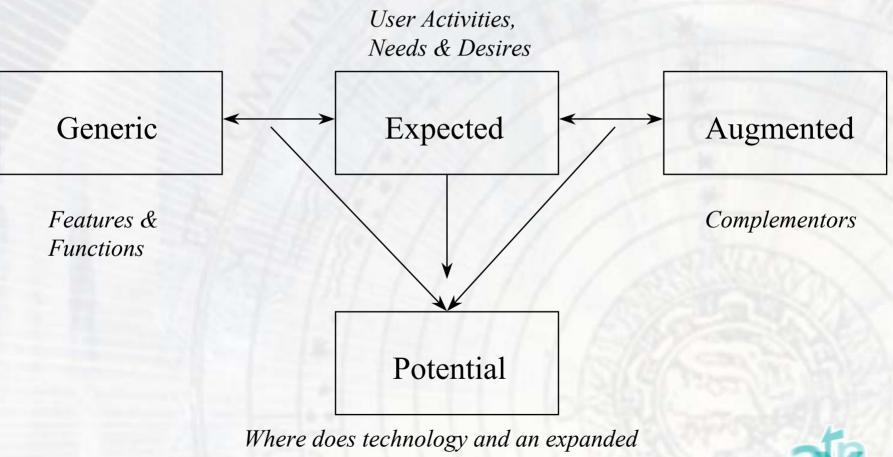


#### **Amazon.Com Example**

- Generic Books search and database, CD search and database, Video search and database, Recommended Books, Book Reviews, Book ordering and delivery, Amazon Associates, Customer Database, etc.
- Expected Book browsing, book ordering, book sampling, MetaBook, Personal Book Inventory
- Augmented Amazon Associates, Multi-media Computers, ISPs, Browsers, RealNetworks, Book Distributors
- Potential Digital Book Ordering and Delivery, Meta Book Commentaries, "People like me" Communities



#### **Innovation Strategies**



understanding of user needs lead us?



## **Reverse Product Design**

- Traditional Process Technology Centered Design
  - Innovation (R&D)
  - Story (Marketing)
  - Activity (Sales, Service and Support)
- Reverse Product Design start with the human being
  - Activity
  - Story for Understanding
  - Innovation
  - Story for Persuasion



# r2DNA

- Recombinant reflective Digital Network Assets
- r2DNA as a brainstorming tool
  - Identify the Digital Assets
  - In what ways can the Digital Assets be recombined
  - What other Digital Network Assets can I network my Digital Assets to
  - For a given user, reflect on the pattern of usage to determine higher order intents or goals on the part of the influencers, purchasers and users

#### And a few simple rules

- One rule generates
- One rule reduces
- Another maintains tendency to persist



#### **Digital Assets at Amazon.com**



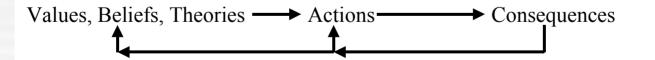
## **Reflection in Product Design**

#### Reflection

Model 1

Values, Beliefs, Theories  $\longrightarrow$  Actions  $\longrightarrow$  Consequences



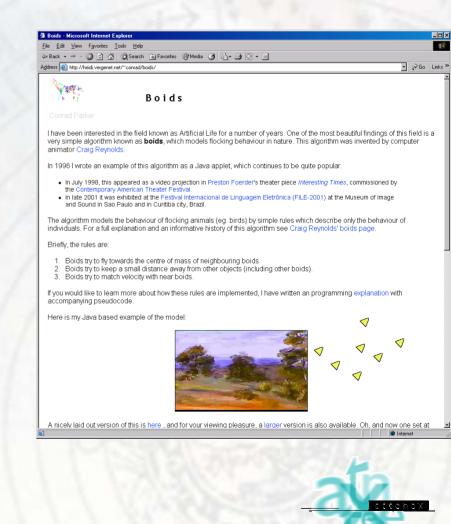




## And a few simple rules - BOIDS

#### And a few simple rules

- One rule generates
- One rule reduces
- Another maintains tendency to persist



## **Objective Functions**

- When we are evaluating product proposals there are really only three generic categories – how will your product:
  - Increase revenue
  - Decrease expenses
  - Decrease time
- For our company
- For our customers



# **The Slywotzky Imperatives**

#### What matters is:

- Moving from burdening talent with low-value work to gaining high talent leverage;
- Moving from getting information in lag time to getting it in real time;
- Moving from guessing what customers want to knowing their needs.



# About Products and Product Development

**UW CSE 403** 

Skip Walter CEO Attenex Corporation Mail: <u>skip@attenex.com</u> Phone: 206-386-5844

