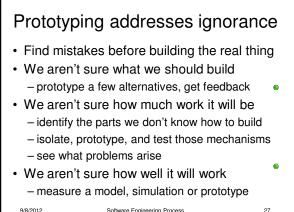
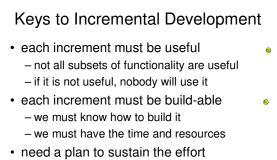


Process Models & Strategy Model choice is not just about projects productivity is secondary to staying in business Models must support business objectives understand the demands of that business ... find a model that supplies those needs understand the challenges of that business ... find a model that shields us from what we fear Process Models for commercial s/w are often as much about business as s/w we m





- can we fund successive approximations
- can we retain internal/external commitment

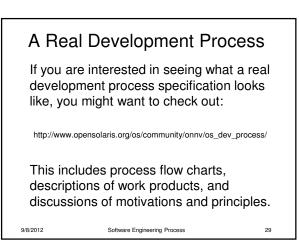
9/8/2012

Software Engineering Process

۲

28

30



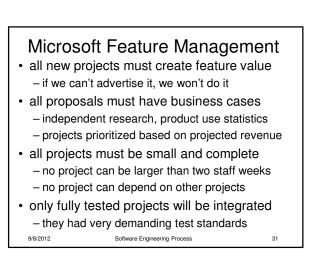
Case Study: Microsoft

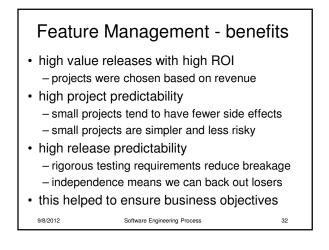
- the domain
 - flagship applications like word and excel
- · the challenge
 - maximum value in each new release
 - maximize ROI on new feature development
 - maximize release predictability (date/quality)
 - maximize project predictability (cost/success)
- · the response

9/8/2012

- a project qualification process

Software Engineering Process





Feature Management - problems

- It effectively precluded infrastructure projects

 e.g. network or multi-media integration
- they do not deliver advertisable "features" – rather they enable future feature projects
- they are neither small nor independent - much new code, much change to existing code

33

- all future projects will depend on them
- they are hard to test
 they are complex, general, and pervasive

9/8/2012

Software Engineering Process

 Case Study: Sun

 • the domain

 - the Solaris Operating System

 • the challenge

 - encourage technological innovation

 - avoid breaking customer applications

 - maximize release predictability (date/quality)

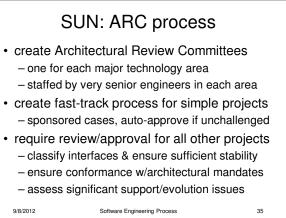
 - avoid future support disasters

 • the response

 - Architectural Review Committees

 98/2012
 Software Engineering Process

 34



ARC Process - benefits

- improved release compatibility/quality

 project integration seldom breaks a release
 new releases no longer break old applications
- accelerated adoption of new technologies
 projects were quickly guided in new directions
- significant improvements in product quality

 numerous support disasters were averted
- projects benefited from senior engineer review

36

this helped to ensure business objectives

Software Engineering Process

9/8/2012

