Software Engineering in Puerto Rico

Rock Solid Technologies, Inc. Eng. Ángel L. Pérez VP & General Manager



Rock Solid Technologies www.rocksolid.com

- Software development and implementation firm
- About 30 Colegiales
- Offices
 - San Juan
 - Austin, TX
 - St. Michael, Barbados





What is software?

Programs
Documentation
Manuals
Help files
Licenses



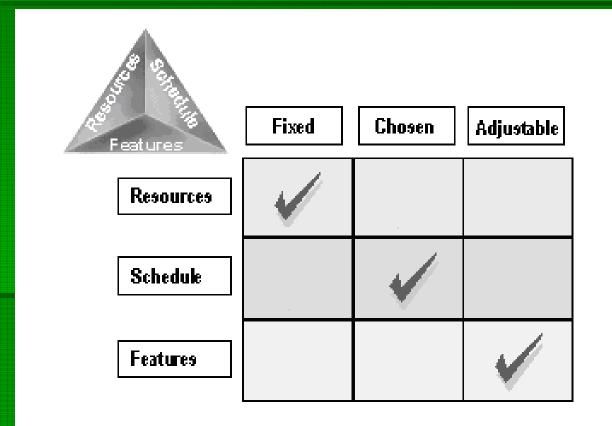
Software engineering definition

 ... is concerned with software systems which are built by teams rather than individual programmers, uses engineering principles in the development of these systems, and is made up of both technical and nontechnical aspects...

Trade-offs Triangle



Tradeoff Matrix



What is software engineering – my version?

- Marketing
- Proposals
- Economic Analysis
 - ROI TCO



- Sales
- Legal Contracts
- Licensing
- Requirement Definition
- Prototype
- Risk Management

- Design
- Coding
- Testing
- More testing
- Training
- Implement
- On-site Support
- Help Desk
- Maintenance
- Enhancements
- Re-negotiate



Well engineered software

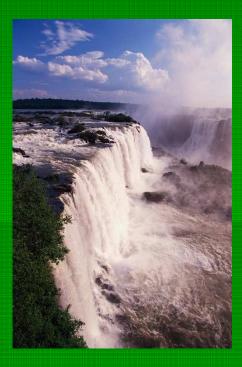
Functional

- Maintainable
- Reliable
- Efficient
- Appropriate user interface
 - User-friendly
 - Expert-friendly

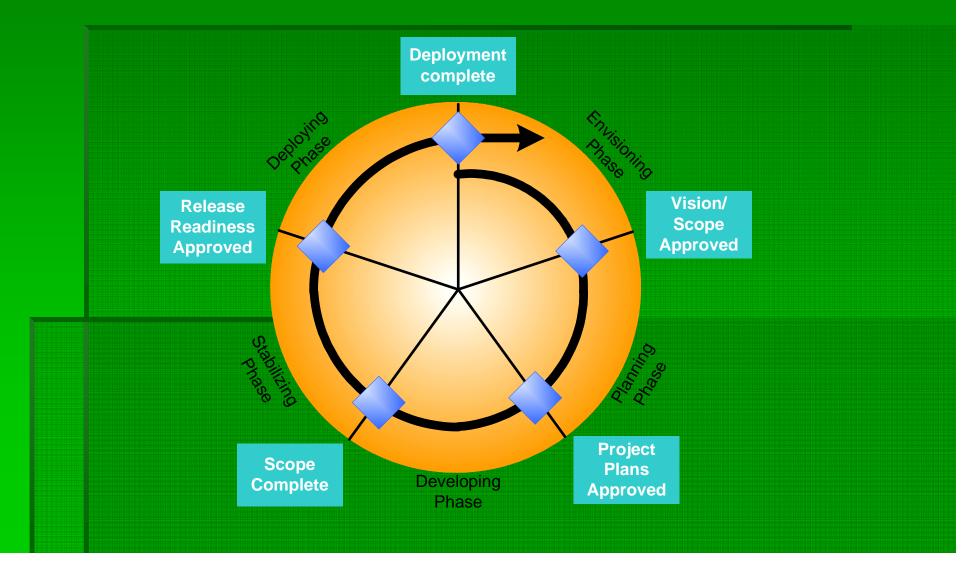
Software Models

Waterfall model
Iterative waterfall model
Prototyping
Works well for us in government

Others



MSF Process Model



Software Engineering here?



Or here?



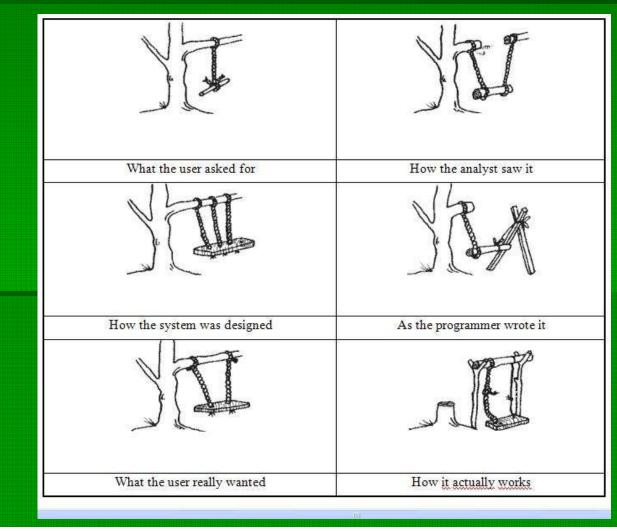
I prefer here!



Puerto Rico Software Development Map

- Multiple local companies doing Software Development
 - Rock Solid government and private sector
 - Softek, DevNet Systems, Invid
 - CRG, Infotech, Evertec, Nagnoi
 - Your Company Become an entrepreneur!
- Multinationals
 - SAP
 - ORACLE
 - Microsoft
- Others
 - Insurance
 - Banking

The key to good Software Engineering – Knowing what the customer wants!



How to improve your chances?

- Learn to write
 - Not just software code
 - Spanish and English
- Learn to listen
- Learn to speak
- Networking: Student and Business Orgs
- Focus on learning the business
- Become a well rounded professional
- Give back to your community, \$chool, etc.



Action Items

Create your profile at:

 www.s2bprogram.com

 Register in DreamSpark

 Get free Microsoft software

 Assemble your team for the Imagine Cup

 Poland

\$25k

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