

Requirements Engineering II

Handsharking with
Implementation Proposals

This presentation will introduce

Handshaking with Implementation Proposals

- Problems of requirement handoff
- Introduction to Implementation Proposals
- Benefits, Drawbacks (?)
- Case Study Impacts

Problem

Requirements are not communicated efficiently

- **Poor requirements communication**
suffering delivery times, re-engineering, unhappy stakeholders
- **Reaction by stakeholders**
micromanagement, retaliation
- **Always present: Budgetary constraints**
financial and temporal constraints

These constraints lead to...

... the need for “good enough” requirements

- Cost and effort of creating requirements
- Quality of end result as key measurement
- Adhering to milestones 😊

Means to communicate requirements needed

Solution: Handshaking with Implementation Proposals (1)

Implementation Proposals:

- Provide means to **Customers** and **Designers** to communicate **Requirements** and **Design Decisions**.
- Three mandatory attributes
Title, requirements, design
- Other attributes to assist Negotiation or Planning
added if needed, on a per project basis

Solution: Handshaking with Implementation Proposals (2)

Handshaking

1. Taking a position

- Share experiences, expectations
- Document with Implementation Proposals

2. Negotiating

- Identify & resolve conflicts

3. Confirming agreement

- Updated Implementation Proposals

Benefits for Developers

- Decrease project or milestone size/duration
Commitment to project, increased complexity
- Better requirements
Hidden expectations, domain knowledge, missing requirements
- Identify alternative solutions
Pressure to identify, discuss and commit
- Unify stakeholders
Soft factors

... and all this leads to!

- Less requirement volatility
 - Less ad-hoc changes
 - Better commitment to milestones

= Happy customers, happy developers!

Drawbacks

- **Detailed**
Implementation Proposals not necessarily understandable to outsiders
- **Time-consuming**
In study: 3 – 50 person days per Implementation Proposal
- **Learning curve**
In study: minor improvements in first run
- **Too unstructured / “free”**
Benefit of the Implementation proposals decreases with less effort

Case Study Impacts

- “Payment system” clarification
- Clear commitment to “Household manager” vs. “Everyone”
- Ease of use