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A collection of military medals and a pair of glasses on a light-colored surface. The medals include a red ribbon with a circular emblem, a blue ribbon with a circular emblem, and two silver Maltese crosses with central emblems. A pair of gold-rimmed glasses is positioned diagonally across the lower half of the image. A circular compass is visible in the bottom left corner.

Study Report on Requirement Engineering Tool Requirements

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ISO/IEC JTC1/SC7/WG4

May 15, 2003



Table of Contents

- ◆ Chronology of Study
- ◆ Objectives of Study
- ◆ Scope of Study
- ◆ Resources
- ◆ Study Activities
- ◆ Study Conclusions
- ◆ Recommendation

Chronology of Study

- ◆ May 16, 2002: Terms of Reference for an Initial Study Period on Requirement Engineering Tool Requirements (4/N-252)
- ◆ May 16, 2002: SC7 Approval of Study Period (Resolution 664)
- ◆ Nov. 7, 2002: Draft Study Period Report on Requirement Engineering Tool Requirements (4/N-263)
- ◆ Nov. 2002 – Mar. 2003: Market Survey and Technical Review
- ◆ May. 15, 2003: Study Period Report
NWI Proposal for Ballot



Objectives of Study

- ◆ To identify market needs
- ◆ To evaluate the feasibility and value of future NWI.



Scope of Study

- ◆ Assess the importance of having a SC7 guide on RE tool requirements.
- ◆ Identify industrial, government, professional and academic needs.
- ◆ Review related works, e.g., IS12207, IS14102, FCD15940, DTR 19759 (SWEBOK), and IEEE Technical Documents.
- ◆ Prepare recommendations and plan for future work



Resources

- ◆ Study group chair: Dan-Hyung Lee
- ◆ Study group editor:
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 - Hyuk-Soo Han (Korea),
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Byong-Gul Lee (Korea),
Tom McBride (Australia),
Sara Raskin (Brasil),
Kazunori Shioya (Japan),
Cornelius Wille (Germany)



Study Activities

- ◆ Review of related documents
- ◆ **Review of RE community**
 - tool vendors, tool users, and requirement engineering experts
- ◆ Preparation of questionnaire
- ◆ Analysis of responses
- ◆ Identification of market needs
- ◆ Recommendations and plan for the future work
- ◆ Development of proposal for NWI ballot

Study Findings (1/3)

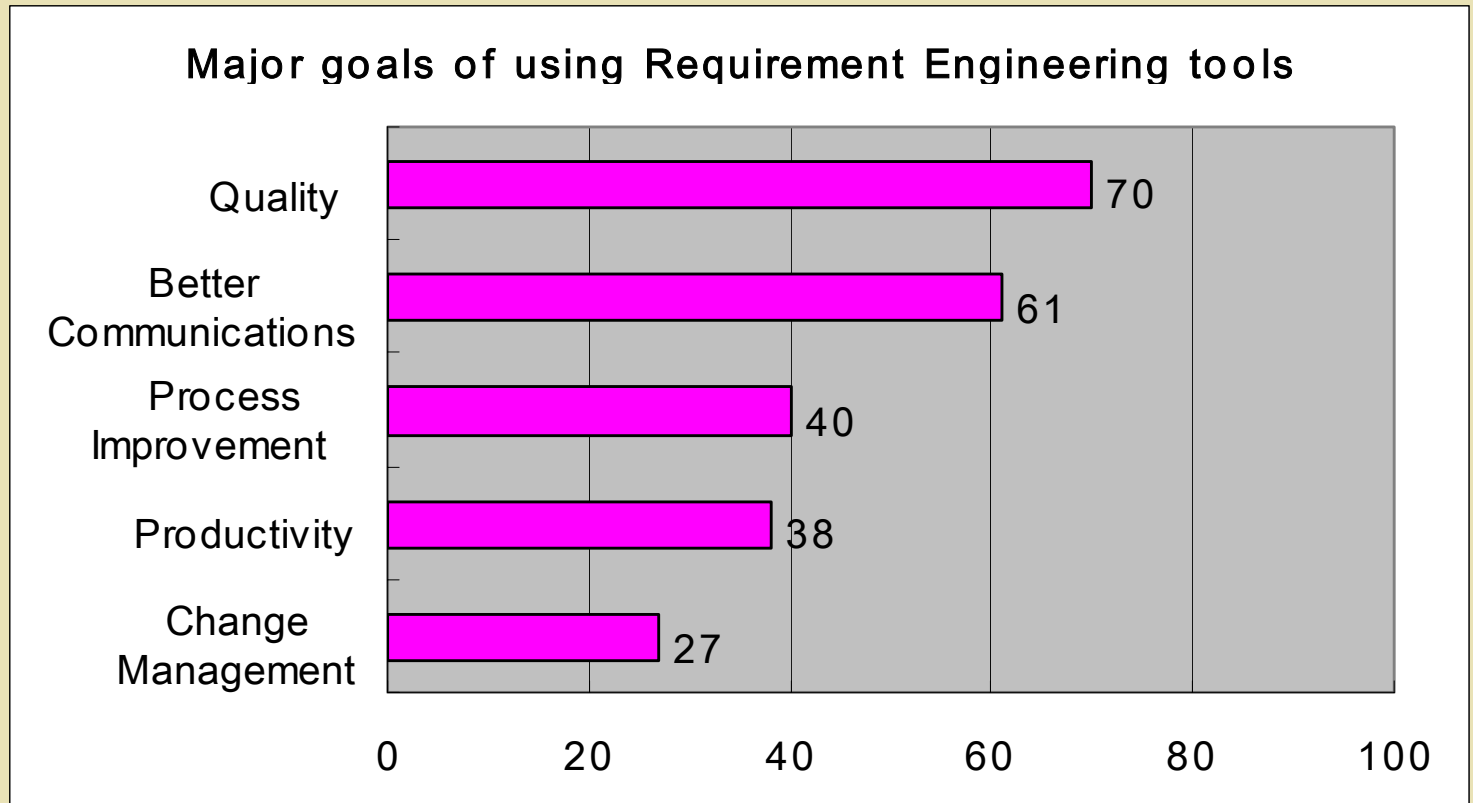
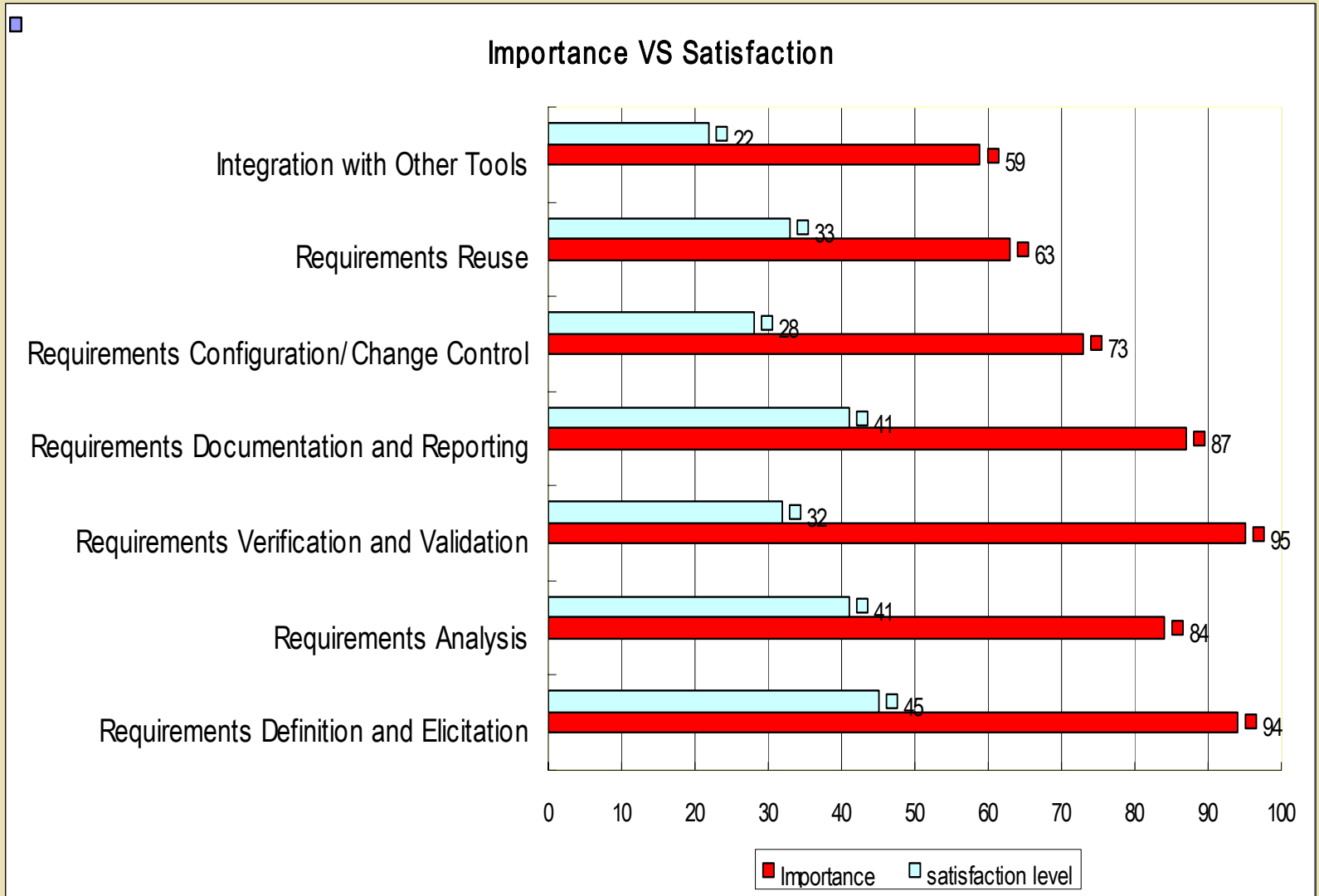


Figure 1. Survey results to the major goals of using requirement engineering tool, as of 2003-05-14.

Study Findings (2/3)





Study Findings (3/3)

- ◆ RE tool capabilities are not meeting the market expectations.
- ◆ RE community is matured.
- ◆ Lack of knowledge in tool capabilities.
- ◆ Lack of knowledge in tool evaluation.



Study Conclusions

Benefits of RE tool standard

- ◆ Users will be able to realistically establish tool expectations.
- ◆ Users could select tools with increased confidence of obtaining a positive return on their investment.
- ◆ Tool vendors will be able to clearly communicate the features of their tools to the market.



Recommendation

- ◆ Recommends the SC7 initiate the development of an ISO/IEC standard on Requirement Engineering tool requirements
- ◆ If the NWI ballot is successful, WG4 will start developing the standard from 2003 interim meeting.