

Tools for Requirements - Centered Collaboration

Group 2

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Pitfalls of distributed work

- **Inadequate communication**
 - Time-zone differences
 - Cultural differences
- **Process differences**
- **Knowledge management**
- **Technical issues**

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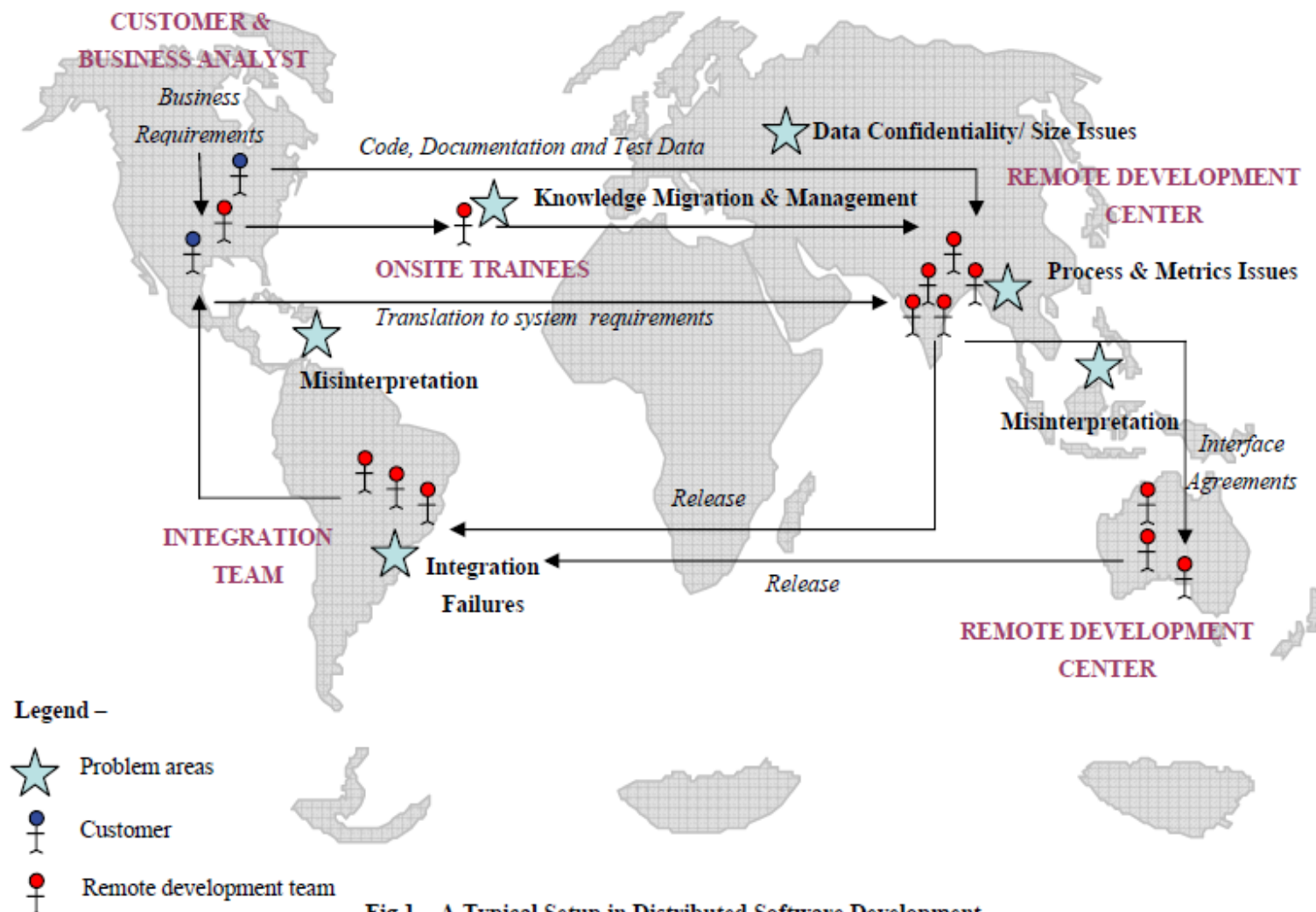


Fig 1 – A Typical Setup in Distributed Software Development

Source: Sengupta et al.: A Research Agenda
for Distributed Software Development

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The next-generation RM Tool

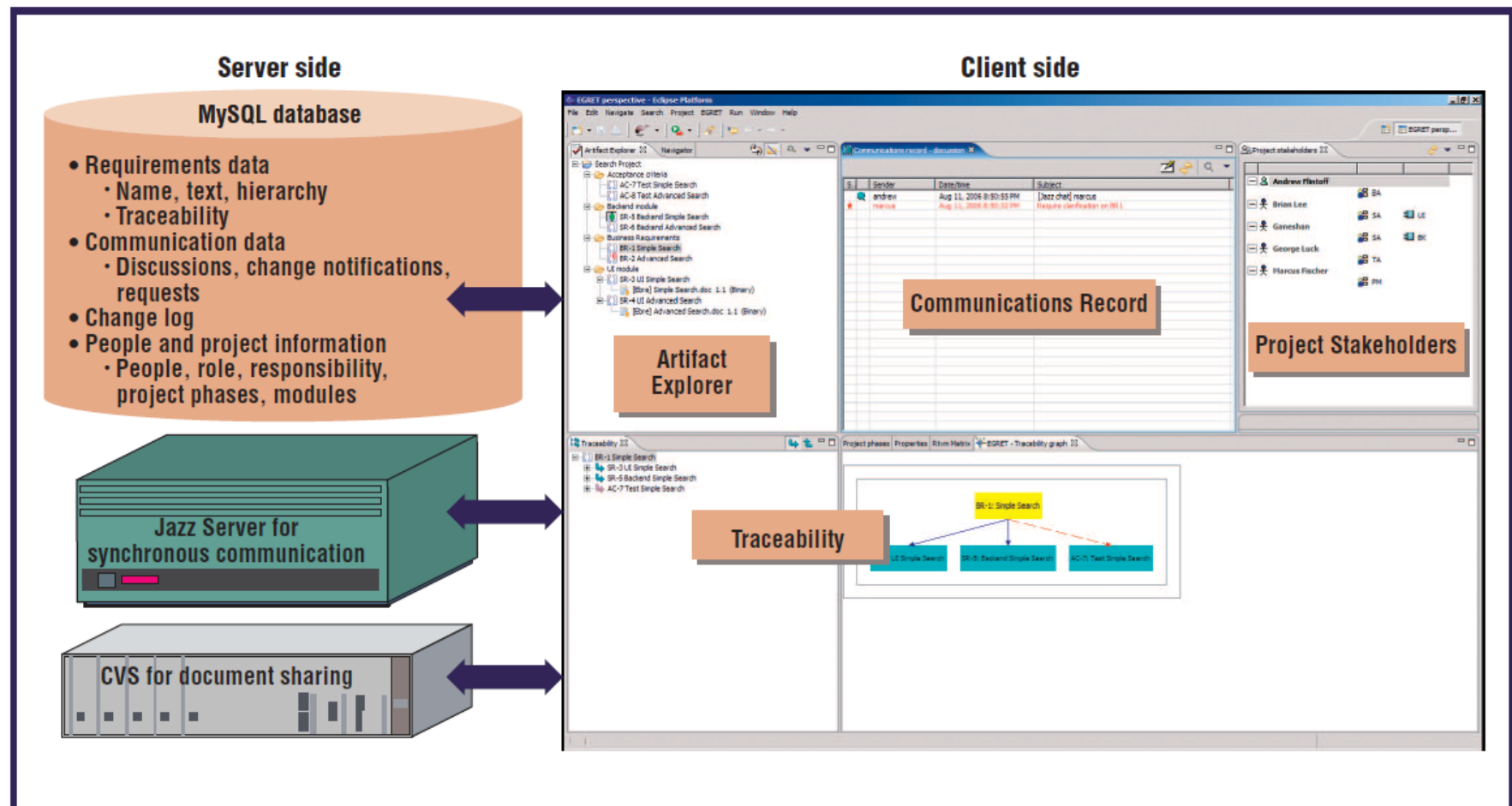
- **Tools are used, but...**
 - Usage of different communication tools
 - RM tools for storing Requirements

What should a future tool feature:

- Informal collaboration services
- Structured collaboration services
- Awareness features
- Knowledge management techniques

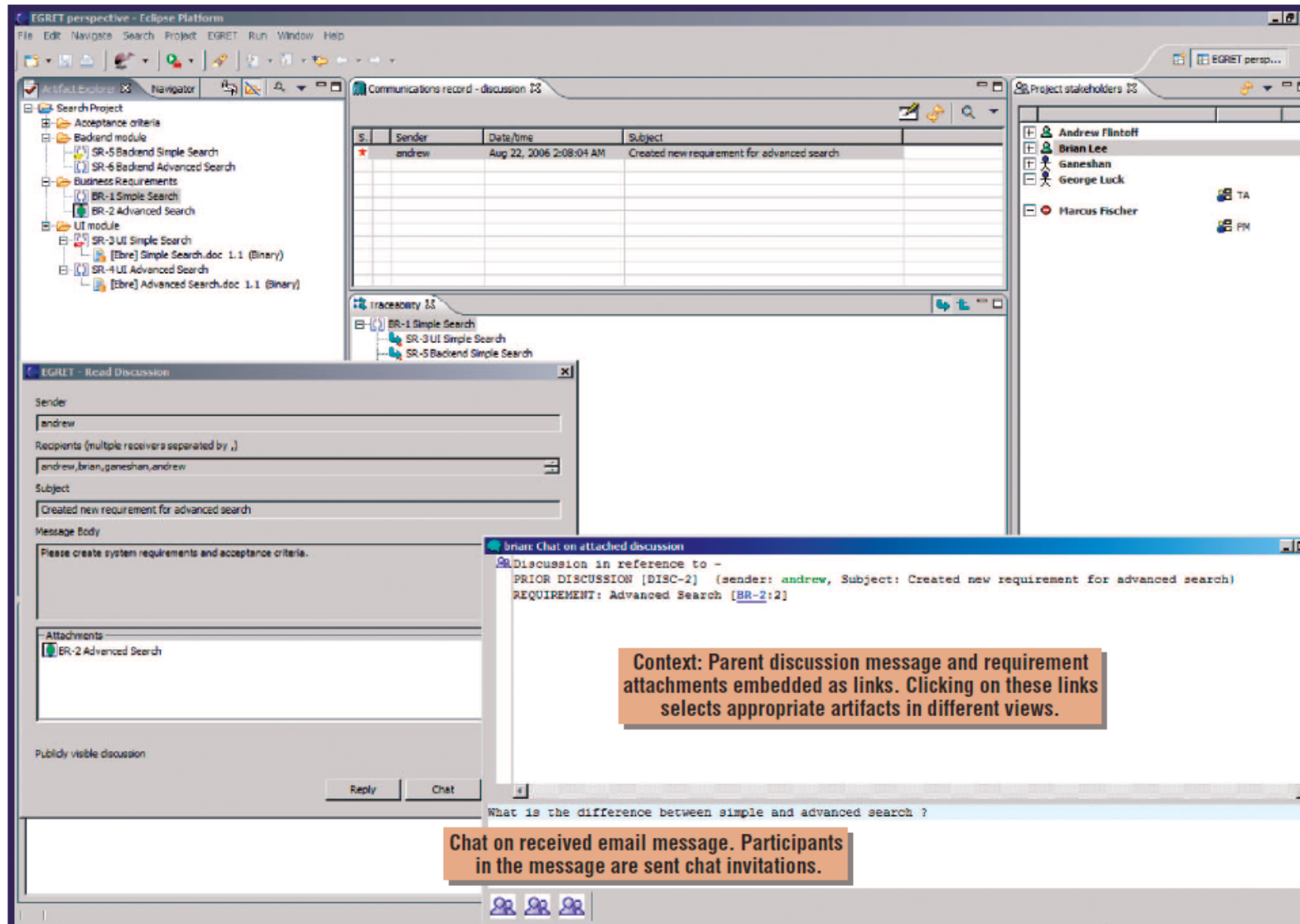
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EGRET



Source: Sinha et al.: Enabling Collaboration in Distributed Requirements Management

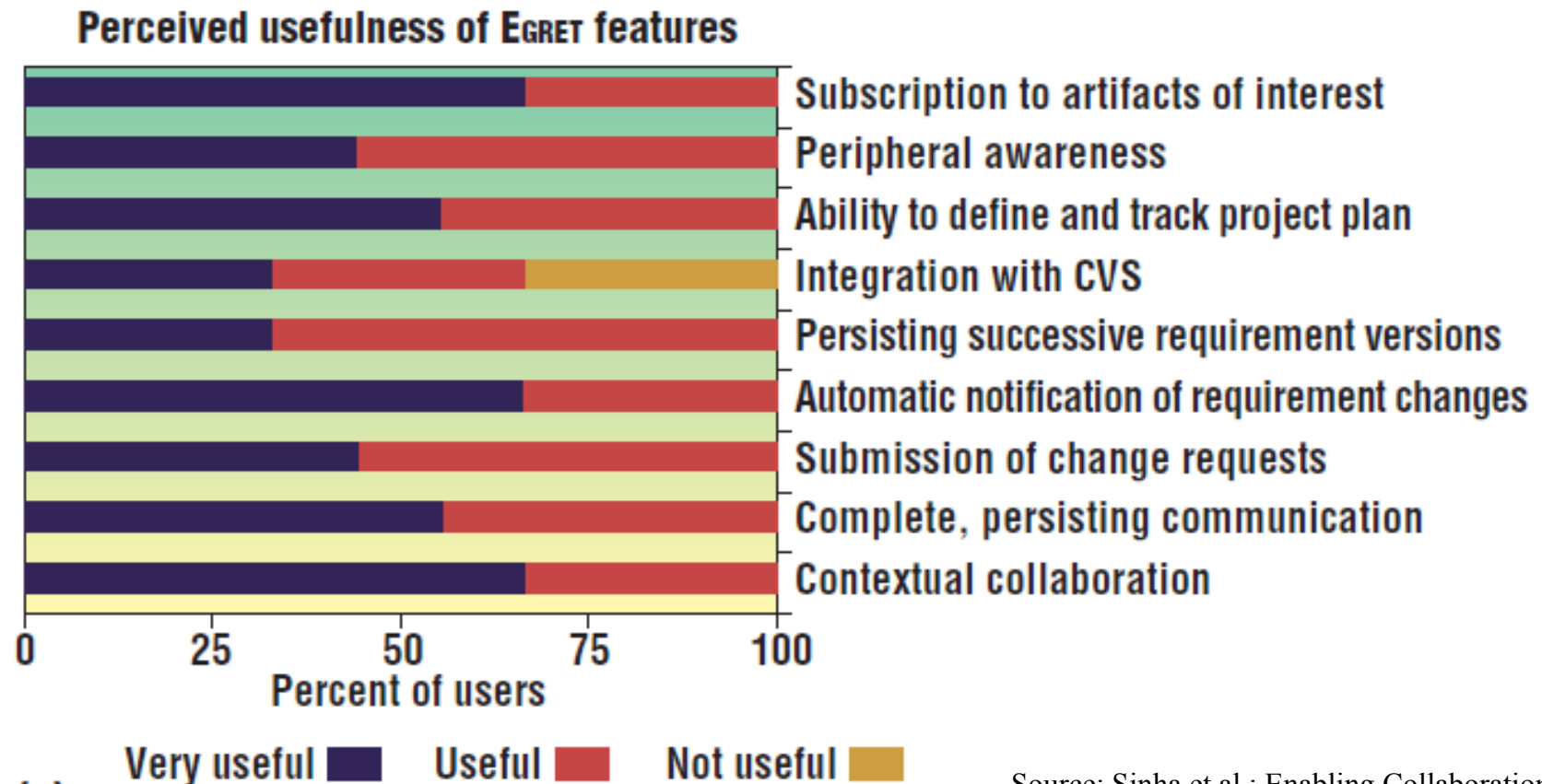
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Source: Sinha et al.: Enabling Collaboration in Distributed Requirements Management

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EGRET Evaluation



(c)

Source: Sinha et al.: Enabling Collaboration in
Distributed Requirements Management

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Wiki

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Wiki

Easy to use

Extensible

Flexible

Low Costs

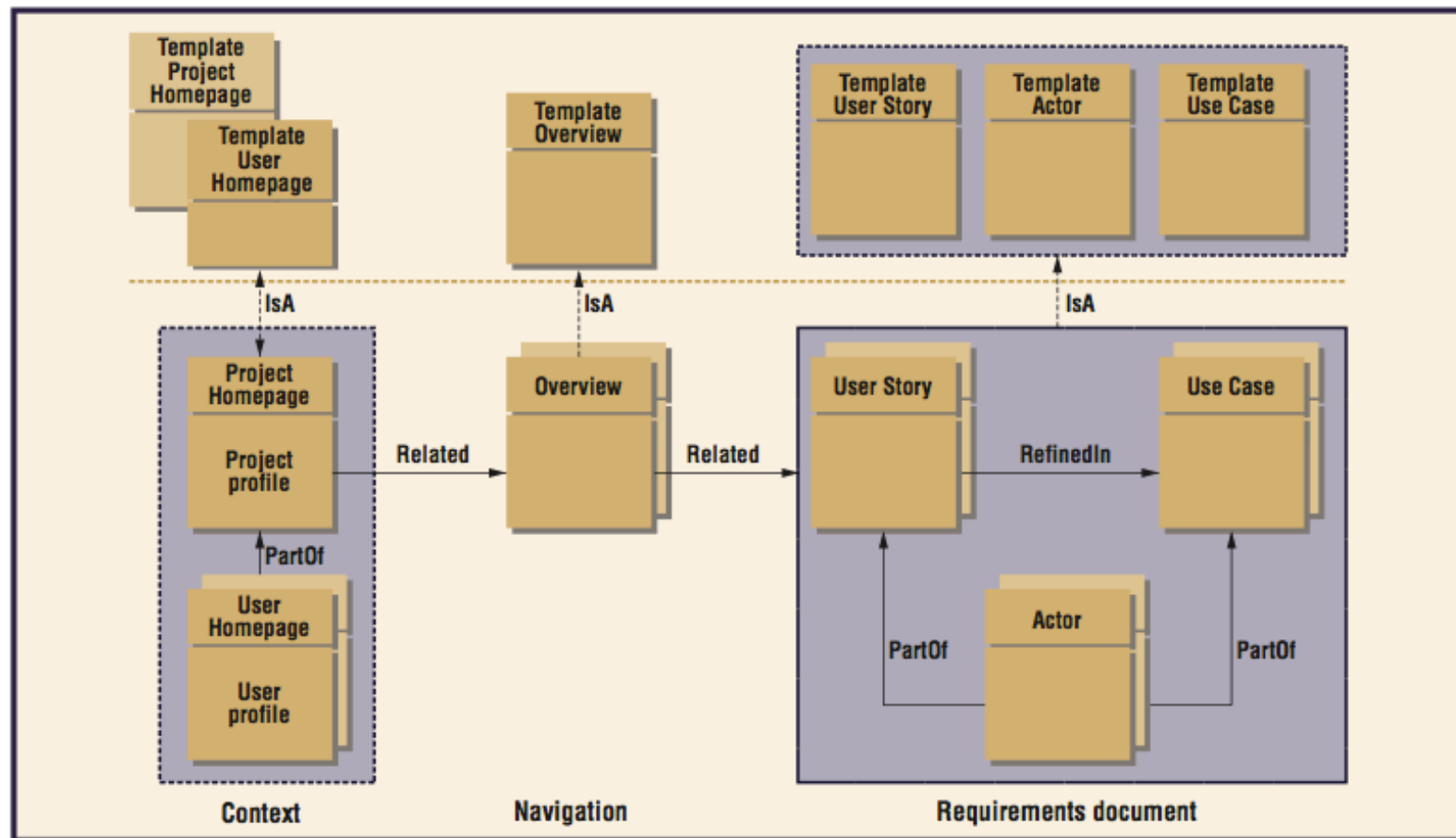
Lightweight

Conformance

Dependencies

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SOP - Wiki



Source: Decker et al.: Wiki-Based Stakeholder Participation in Requirements Engineering

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SOP - Wiki

The screenshot displays the SOP Wiki interface. At the top, there's a navigation bar with tabs for 'Artikel', 'Diskussion', 'Quelltext betrachten', and 'SOP'. The main title is 'Bearbeiten von UseCase1'. Below the title, a message states: 'Sie sind Mitglied des aktuellen Projektes' and 'Sie bearbeiten diese Seite ohne angemeldet zu sein. Statt eines Benutzernamens wird die IP-Adresse in der Versionsgeschichte aufgezeichnet'. A toolbar with various editing icons is visible. The main content area shows a template structure with fields like '==Level==', '==Primary Actor==', '==Scope==', '==Preconditions==', '==Main Success Scenario==', '==Extensions==', and '==Stakeholders and Interests=='. A green box highlights the template structure. To the right, a sidebar contains 'Links' and 'Actors' sections. The 'Actors' section lists roles like 'Regulaerer Nutzer', 'Anforderungsingenieur', 'Entwickler', 'Projektmanager', and 'Knowledge-Administrator'. The 'Links' section lists various use case actions like 'UseCase_Freeze / Unfreeze', 'UseCase_Link_Harvester', 'UseCase_Renaming', and 'UseCase_Version_Tagging'. A search bar is located at the bottom left.

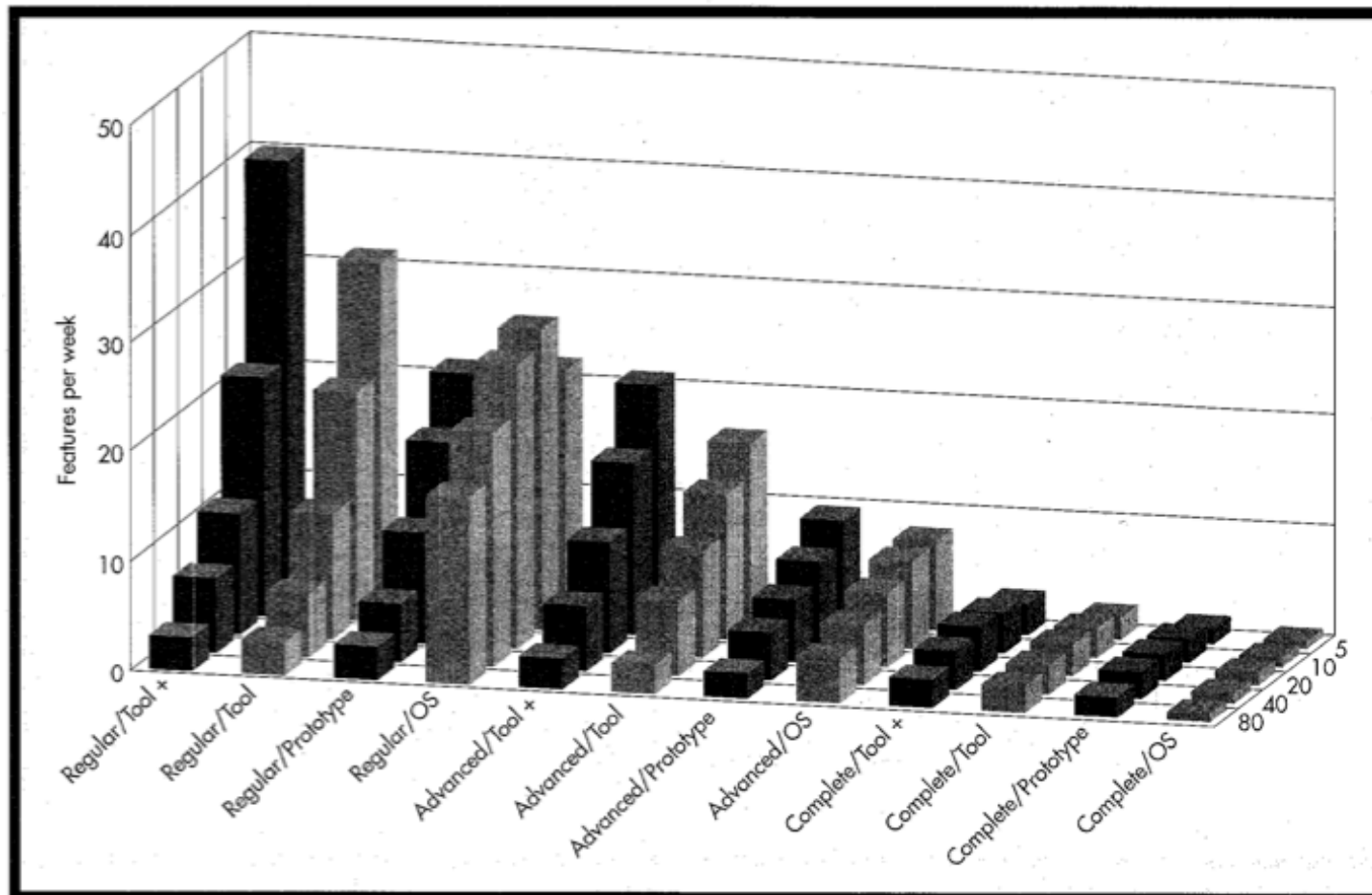
Document templates can be defined. When a template is selected, a new document based on the template is created

Based on the template a document belongs to, links to relevant pages are provided

Source: Decker et al.: Wiki-Based Stakeholder Participation in Requirements Engineering

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Conclusion



Source: Bruckhaus et al.: The Impact of Tools on Software Productivity