

Selecting the right set of tools and techniques for your project

Shane Hastie - Agile Australia 2010

	Sociological Factors										Geographical Context					
	Low trust	High trust	Blame game	Safe to fail	Honest Comms	Messages are filtered	Command-and-control	Delegation with authority	Positive Motivation		Colocation	Multiple locations	Same timezone	Multiple timezones	Common language	Different languages
Idea Generation Tools																
Brainstorming	↓	↑	↓	↑	↑	↔	↔	↑	↑		↑	↓	↑	↓	↑	↓
Mind Mapping	↔	↔	↔	↑	↑	↔	↔	↔	↑		↑	↑	↑	↑	↑	↓
De Bono's Thinking Hats	↓	↑	↓	↑	↑	↔	↔	↑	↑		↑	↔	↔	↓	↔	↔
Project by Decree	↑	↓	↑	↔	↔	↔	↑	↓	↓		↔	↔	↔	↔	↔	↔
Value Stream Mapping	↑	↑	↑	↑	↑	↓	↔	↔	↑		↑	↑	↑	↑	↑	↑
Scoping Tools																
Vision Box	↓	↑	↓	↑	↑	↓	↔	↔	↑		↑	↔	↔	↔	↑	↓
Context Diagram	↑	↔	↑	↔	↔	↔	↔	↔	↑		↔	↔	↔	↔	↑	↑
In/Out List	↑	↔	↑	↔	↔	↑	↑	↔	↔		↔	↑	↔	↔	↑	↑
Actor-Goal List/Personas	↔	↑	↔	↑	↑	↓	↑	↑	↑		↑	↑	↔	↔	↑	↔
Process Model	↔	↔	↔	↔	↑	↔	↑	↔	↑		↔	↔	↔	↔	↔	↑
Story Mapping	↓	↑	↓	↑	↑	↓	↔	↔	↑		↑	↔	↑	↓	↑	↓
Feature Set Identification																
Questionnaires	↔	↔	↑	↔	↔	↔	↔	↔	↔		↓	↑	↔	↑	↑	↓
Interviews	↓	↑	↓	↔	↑	↓	↔	↔	↑		↑	↔	↔	↔	↑	↓
Observation	↑	↑	↑	↑	↑	↑	↑	↑	↔		↑	↔	↔	↔	↑	↑
Paper Prototypes	↔	↑	↔	↑	↑	↑	↔	↔	↔		↑	↑	↑	↑	↑	↑
Detailed Needs																
Use Cases	↑	↔	↑	↔	↔	↑	↑	↔	↔		↔	↔	↔	↔	↔	↓
User Stories	↓	↑	↓	↑	↑	↓	↓	↔	↔		↑	↑	↑	↑	↑	↑
CRUD/Entity Modelling	↑	↑	↔	↑	↑	↑	↑	↔	↔		↑	↑	↑	↑	↑	↑
NFR Supplementary Specification	↑	↔	↑	↔	↔	↑	↑	↔	↔		↔	↔	↔	↔	↔	↓
Quality Stories	↑	↑	↓	↑	↑	↓	↓	↑	↑		↑	↑	↑	↑	↑	↑
Pragmatic Usability	↑	↑	↔	↑	↑	↑	↔	↑	↑		↑	↑	↑	↑	↑	↓
Confirmation																
Formal Reviews	↑	↓	↑	↔	↔	↑	↔	↔	↔		↔	↑	↔	↑	↑	↓
Structured Walkthrough	↔	↑	↑	↑	↑	↑	↔	↔	↑		↑	↑	↑	↑	↑	↑
BDD / Acceptance Criteria	↔	↑	↔	↑	↑	↑	↔	↔	↑		↑	↑	↑	↑	↑	↑

Key

- ↓ - this technique is not recommended in this context
- ↑ - this is a useful technique in this context
- ↔ - this technique could be used with neither positive nor negative impact

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	Geographical Context		Organisational Context							
	Collaboration tools	Lack of tool support	Heavily Regulated industry	Life & Safety critical products	Complex organisation structure	Contradictory stakeholder needs	Lack of clarity re needs	Risk Averse	Risk Embracing	
Idea Generation Tools										
Brainstorming	↑	↓	↔	↔	↔	↑	↑	↔	↑	
Mind Mapping	↑	↑	↑	↑	↑	↓	↓	↔	↔	
De Bono's Thinking Hats	↔	↔	↑	↑	↑	↑	↑	↑	↑	
Project by Decree	↔	↔	↔	↔	↔	↔	↓	↔	↔	
Value Stream Mapping	↑	↑	↑	↑	↑	↑	↑	↑	↑	
Scoping Tools										
Vision Box	↔	↔	↑	↑	↑	↑	↔	↔	↔	
Context Diagram	↔	↔	↑	↑	↑	↑	↑	↔	↔	
In/Out List	↔	↔	↑	↑	↑	↑	↔	↑	↔	
Actor-Goal List/Personas	↔	↔	↑	↑	↔	↑	↑	↑	↔	
Process Model	↑	↔	↑	↑	↑	↑	↔	↔	↔	
Story Mapping	↑	↓	↑	↑	↑	↑	↑	↔	↔	
Feature Set Identification										
Questionnaires	↔	↔	↔	↔	↔	↑	↔	↔	↔	
Interviews	↑	↓	↑	↑	↑	↑	↑	↔	↔	
Observation	↔	↔	↑	↑	↔	↑	↔	↑	↑	
Prototypes			↑	↑	↔	↑	↑	↑	↑	
Detailed Needs										
Use Cases	↔	↔	↑	↑	↔	↓	↓	↔	↔	
User Stories	↔	↔	↑	↑	↑	↑	↔	↔	↔	
CRUD/Entity Modelling	↔	↔	↑	↑	↑	↑	↔	↔	↔	
NFR Supplementary Specification	↔	↔	↑	↑	↔	↔	↔	↑	↔	
Quality Stories	↔	↔	↑	↑	↔	↔	↔	↑	↔	
Pragmatic Usability	↔	↔	↑	↑	↔	↑	↑	↑	↔	
Confirmation										
Formal Reviews	↑	↑	↑	↑	↑	↔	↓	↑	↔	
Structured Walkthrough	↑	↓	↑	↑	↑	↑	↑	↔	↔	
BDD	↑	↑	↑	↑	↑	↑	↑	↔	↔	

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