	Used by researchers		Also used
	when their goal is	Volume	by software
Technique	to understand:	of data	engineers for
Direct techniques			
Brainstorming	Ideas and general	Small	Requirements
and focus	background about		gathering, project
groups	the process and product,		planning
	general opinions (also useful to enhance		
	participant rapport)		
Interviews and	General information	Small	Requirements
questionnaires	(including opinions)	to large	and evaluation
1	about process, product,		
	personal knowledge etc.		
Conceptual	Mental models of	Small	Requirements
modeling	product or process		
Work diaries	Time spent or frequency of certain tasks (rough approximation, over days or weeks)	Medium	Time sheets
Think-aloud	Mental models, goals,	Medium	UI evaluation
sessions	rationale and patterns	to large	Of Evaluation
505510115	of activities	to large	
Shadowing and	Time spent or frequency of tasks	Small	Advanced
observation	(intermittent over relatively short periods), patterns of activities, some goals and rationale		approaches to use case or task analysis
Participant	Deep understanding, goals and	Medium	
observation	rationale for actions, time	to large	
(joining the	spent or frequency over		
team)	a long period		
Indirect techniques			
Instrumenting	Software usage over a long	Large	Software
systems	period, for many participants		usage analysis
Fly on the wall	Time spent intermittently in one location, patterns of activities (particularly collaboration)	Medium	
Independent techniques			
Analysis of work	Long-term patterns relating to	Large	Metrics
databases	software evolution, faults etc.		gathering
Analysis of	Details of tool usage	Large	
tool use logs			_
Documentation	Design and documentation	Medium	Reverse
analysis	practices, general understanding		engineering
Static and dramamic		Lamas	Duo omom
Static and dynamic analysis	Design and programming practices, general	Large	Program comprehension,
unui j 515	understanding		metrics, testing,
			etc.