(Form 3) QUESTIONNAIRE SURVEY (Technology list on Implementation Strategies) Category B: Transferable Technologies

(your name	e: , set no.)				
Hazard (check one): () earthquake & tsunami, (*) flood & debris, () multi-hazard including both					
1. Title of	A simple method for predicting a landslide				
Technology	(A simple method for predicting the failure time of a slope using reciprocal of velocity)				
2. The of Project	Experimental study of the mechanism of slope failure				
3. Name & Organization	Ryoko Sekai	4. Contact Details (Mailing address & e-mail)	(Mailing address & e-mail)		
5. Contents of Technology with relevance to disaster management		In our region we have few technical specialists on disaster prevention. In instances where improvement of environmental infrastructure is insufficient, this technology will support judgments of landslide disaster danger and thus contribute to damage reduction.			
6. Background, purpose, Development process, its effects in Japan		In our country many people's lives have been lost in landslides. Therefore, the National Research Institute of Earth Science and Disaster Prevention has instigated research to clarify the mechanisms of landslides and develop methods for predicting their timing and location by using large-scale rainfall simulations. Our method of prediction is one of the results of this research and should prove very useful for predicting imminent disasters in regions subject to landslide danger.			
7. Perspective of possible international contributions through technology transfer (in relevance to the items in 1.(2) of the questionnaire guideline)		Landslide disasters occur in the Asia-Pacific region every year, so it is urgent that we establish methods of predicting them. It is difficult to apply automatic landslide monitoring systems in Japan because of their high cost and the lack of specialist human resources. Application of a prediction method in this region is the optimum solution, because it does not need landslide specialists and we can get good results by using only cheap measuring materials and making simple calculations on a small electronic calculator.			
8. Prospective regions for technology transfer with observations on consideration of socio-economic and cultural backgrounds		We expect this technology to be applicable to areas of the Asia-Pacific region where landslide disasters occur every year. There is no need to take into account each country's socioeconomic and cultural situation in the transfer tip, because the technology is cheap and simple. During the study phase the technology was applied to landslides in Thailand and Sri Lanka.			
9. Free or Cost-incurred (purchase cost, royalty, etc.)		Free (If not free, please mention in US\$)			
10. Copyright a	and Ownership	Free			
11. Cost incurred for application (application cost except 9. in US\$) ¹		Piles and tape measures are needed for observing landslide movements, and electronic calculators are needed for calculating the results of observation. Materials are also needed to disseminate information on the concept. All of these are low cost.			

(a) Features of the Developed Technology

¹ Please mention: 1) unit cost in terms of actual incurred cost, 2) name of the applied country.

12. Time and Human Resources requi Technology Application (in terms of perso	i red for on-month)	About 3 people and 0.5 months to assess one landslide
13. Maintenance and upgrading of technology (Cost, human resources, others)	The most importan understanding of h of accurate measur	nt thing is that people using the technique have a broad now it works. No ongoing training is required, but the use ring systems is advisable.
14. Other requirements for introducing / application		
15. Application Examples	In Japan, this pred Nagano Prefectur automatic landslide (In different context, 1	diction method has already been applied to landslides in e. The concept of the method has also been used in e monitoring systems. <i>location, stakeholders, and countries</i>)
16. Other features	(Please add any other	relevant documents, including homepage address)

(b) Next Step Developments

17. Proposed plan	The develo	opment of this method is almost finished, and there is currently no further
	developme	ent plan.
	F	
18. Effects of Techno	ology	
Development with focus on		
implementation strategies		
-	0	
		Please describe how the new technology will affect the implementation process and strategy
19. Cost for Technology		
Development (US\$)		
20. Time and Huma	n Resource	s for Development
(in terms of required person-month)		
21. Regional Perspective of		
cooperative research		
22. Stakeholders' involvement		
		(Please mention which specific stakeholders are to be involved from the planning stage)
23. Others		