

Sample 3 (Form 1)

(Form 1) QUESTIONNAIRE SURVEY (Technology list on Implementation Strategies)
Category A: Technologies Developed under Implementation Strategies

(a) Features of the Developed Technology

(your name: _____, set no. _____)

Hazard (check one): (*) earthquake & tsunami, () flood & debris, () multi-hazard including both			
1. Title of Technology	Reduction of tsunami flow pressure in greenbelt		
2. Title of Project	Tsunami Risk Reduction, EQTAP		
3. Name & Organization	Yuta Kokusai	4. Contact Details <i>(Mailing address & e-mail)</i>	(Mailing address & e-mail)
5. Contents of Technology with relevance to disaster management	Application of dense coastal tree forest to reduction layer of tsunami flow pressure		
6. Development process with specific focus on the implementation strategy	Tsunami hazards are often generated in Indonesia and Papua New Guinea coasts located in the Pacific-rim earthquake belt. The hard disaster prevention system like breakwater and tidal barrier is not applicable in such wide remote areas. The greenbelt is proposed to reduce the tsunami flow pressure in the risky coastal areas. <i>(Mention how the implementation strategy was incorporated from the planning stage)</i>		
7. Regional Perspective	The target regions are located in remote areas and the hard barrier system is difficult to be constructed. Meanwhile the regional trees sometimes remains after the tsunami attacks and the houses behind the tree belt had small damages. The filed survey for tsunami disaster demonstrated the applicability of greenbelt to reduce the tsunami flow pressures. <i>(Please mention the regional nature of the technology)</i>		
8. Specific stakeholders' involvement	We discussed with the stakeholders on the efficiency of greenbelts and interviewed to them on the stability of regional trees after tsunami attacks. <i>(Please mention stakeholders and their involvement in both planning & development stage)</i>		
9. Free or Cost-incurred (purchase cost, royalty, etc.)	Free <i>(If not free, please mention in US\$)</i>		
10. Copyright and Ownership	Non		
11. Cost incurred for application (application cost except 9. in US\$)¹	Few		
12. Time and Human Resources required for Technology Application (in terms of person-month)	Some hundreds persons for growing trees		
13. Maintenance and upgrading of technology <i>(Cost, human resources, others)</i>	Non		
14. Other requirements for introducing / application	Regional meeting		

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

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15. Application Examples	Greenbelt implementation in Slawessi Island <i>(In different context, location, stakeholders, and countries)</i>
16. Other features	 <i>(Please add any other relevant documents, including homepage address)</i>

(b) Next Step Developments

17. Proposed plan	Finding the more appropriate tree species	
18. Effects of Technology Development with focus on implementation strategies	The more stable and fast-growing up tree is able to reduce the tsunami risk more efficiency. <i>Please describe how the new technology will affect the implementation process and strategy</i>	
19. Cost for Technology Development (US\$)	Non	
20. Time and Human Resources for Development <i>(in terms of required person-month)</i>	Several researchers for field survey	
21. Regional Perspective of cooperative research	Cooperative research is welcomed in the Indonesian coastal laboratory, etc.	
22. Stakeholders' involvement	The Coastal Laboratory, Indonesia National Defense Office, PNG <i>(Please mention which specific stakeholders will be involved from the planning stage)</i>	
23. Others		