Break-Out Session 1: Prioritizing the Science

Please indicate which SCD Science Question you are evaluating (circle or highlight one):

1. Controls on the size, frequency and slip behavior of subduction plate boundaries

2. Spatial and temporal patterns of deformation through the seismic cycle

3. Linkages between volatile release and the rheology of the plate boundary interface

4. Storage, transfer, and release of volatiles through the subduction system

- 5. Geochemical products of subduction and creation of continental crust
- 6. Subduction zone initiation and arc system formation
- 7. Feedbacks between surface processes and subduction dynamics

**Refer to your packet for sub-questions under each Science Question

SCD-IW EVALUATION MATRIX Use this worksheet as an objective means to evaluate implementation approaches. List the sub-questions for the selected topic below, and evaluate required implementation strategies & needs. Use a ranking 0-4 scheme, where 4 meets needs ideally, needs ideally, and 0 is not suitable.	ane or Oring	1312	447 HILL SC & ST. SC & SC	ettrietoerin Soerin Ites ne te cin Nette site	High Dog Dog	io Atai an tess contraction rection in the test of	Fighter dionic for the state of
Sub-Question 1.							
Sub-Question 2.							
Sub-Question 3.							
Sub-Question 4.							
Sub-Question 5.							

Break-Out Session 2: Implementation Needs

Please indicate which SCD Science Question you are evaluating (circle one): 1. Controls on the size, frequency and slip behavior of subduction plate boundaries 2. Spatial and temporal patterns of deformation through the seismic cycle 3. Linkages between volatile release and the rheology of the plate boundary interface 4. Storage, transfer, and release of volatiles through the subduction system

- 5. Geochemical products of subduction and creation of continental crust
- Subduction zone initiation and arc system formation
 Feedbacks between surface processes and subduction dynamics

**Refer to your packet for sub-questions under each Science Question				Potential Primary Sites							
SCD-TW EVALUATION MATRIX Use this worksheet as an objective means to evaluate implementation approaches. List the sub-questions for the selected topic below, and evaluate required implementation strategies & needs. Use a ranking 0-4 scheme, where 4 meets needs ideally, needs ideally, and 0 is not suitable.	ane or C	o ninary	¹⁷ , ¹ ¹ , ¹⁰	¹¹ S defail of the defailed	feest of the site	~ /	3	8	s	6	
Sub-Question 1.										Ì	Ì
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Sub-Question 4.											
Sub-Question 5.											

Logistics and Leveraging			
Amphibious			
overall Readiness (3, 5, VS 10 yr.			
Completeness of Backbone Geophysics			
Completenesss of Ancillary Studies			
Overall Immediate-term Potential			
Overall Mid-term Potential			
Overall Long-term Potential			
Availability of U.S. Infrastructure (Earthscope, OBS arrays, UNOLS vessels, etc.)			
Foreign Resources & Collaboration			
Broader Impacts (U.S.)			
Broader Impacts (Global)			