# Advances of International Collaboration on M9 Disaster Science

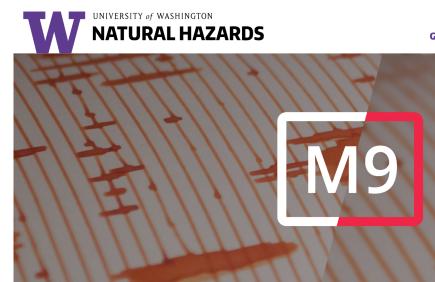








**Research Center** for Integrated Disaster **Risk Management** 



## UW-TU:Academic Open Space (UW-TU:AOS)

An administrative framework to catalyze collaborative research, **Sendai** education and information exchange between UW and TU.



UW-TU:AOS brings researchers from academia, industries and government together to discuss technological challenges, share their research, explore opportunities for joint projects, promote innovation and discovery, and provide an administrative UNIVERSITY of infrastructure to facilitate international cooperation



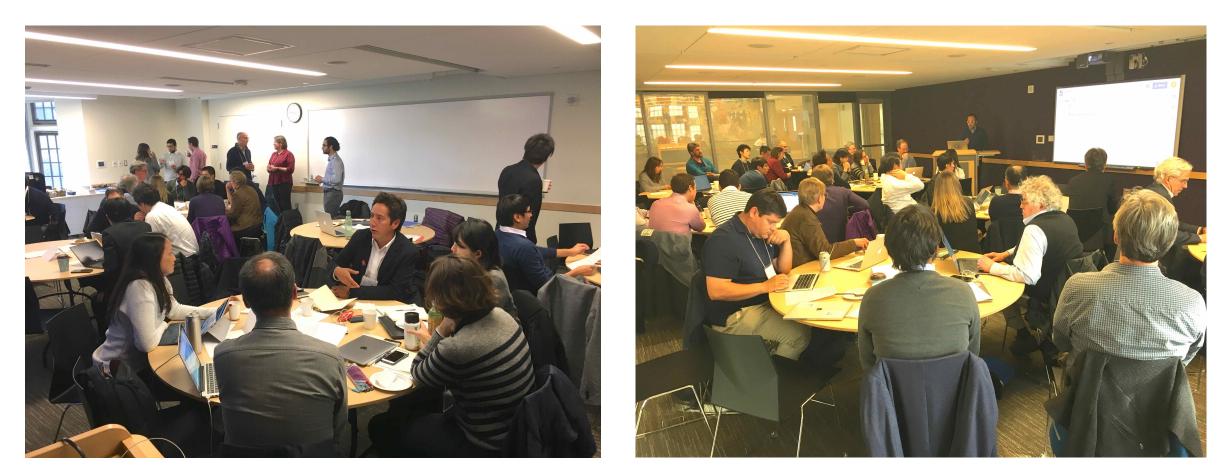


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#### April 14, 2017

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### Project Definition Workshop on M9 Disaster Science March 13-14, 2019 at the University of Washington



12 Researchers from Japan, 8 from Chile, 24 from USA Funding from TU/IRIDeS, UW, Cigiden, NSF Project Definition Workshop on M9 Disaster Science March 13-14, 2019 at the University of Washington

- Group 1: Observations and early warning
- Group 2: Remote sensing
- Group 3: Planning and risk assessment
- Group 4: Tsunami modeling
- Group 5: Landslide/rockslide modeling
- Group 6: Subduction zone seismology, tsunami sources, PTHA
- Group 7: Structural engineering



#### http://tinyurl.com/m9workshop

Subduction zone coseismic landslides in Cascadia, Chili, & Japan: under different climatic/weather & material property regimes \* Earnquake timescales & longer term landscape evolution (short term, allows us to consider risk) ROJECT GOAL: We are trying to understand And predict the land surface response to strong ground motion in subduction zone settings. Objectives : To account landscope sonsitivity to produce landslides in different subduction zones (Cascadia = long (1700" latt MT) val, Chile has vey dy 4 vey wet climatic conditions. Japan has react MM + crustal fault EQUS to compare under diff. weather (2011, 2018) (onditions) Methods : 1) landslide mapping + characterization from "1 remote sensing (some existing, some new data collection) 2) Find work to addres local site material properties 3) Numerical simulations: Gound motion Synthetics landlide modeling from ground motions ("New mark" style landscape evolution moduling of subduction zone landscopes Risks : TIME! (Nedonithave any ") · roles : each participant has to provide relevant info from their country. ( students!) -> we need tots of help. of \$ resources : write proposal? existing resources ?