

# Advancing Sendai Framework for Inclusive Disaster Risk Reduction

1. Yokohama Strategy 1990-2000
  - Sustainability
2. Hyogo Framework for Action 2005-2015
  - Resilience
3. Sendai Framework 2015-2030
  - Inclusive Disaster Risk Reduction
    - Whole-of-society engagement
    - Inclusive, accessible, and non-discriminatory participation
    - Attention to gender, age, disability, and cultural diversity

Planning for Hazards: Lessons From  
International Contexts

Tuesday, July 15, 1:30 to 3:00 p.m.  
MDT Location: Centennial F

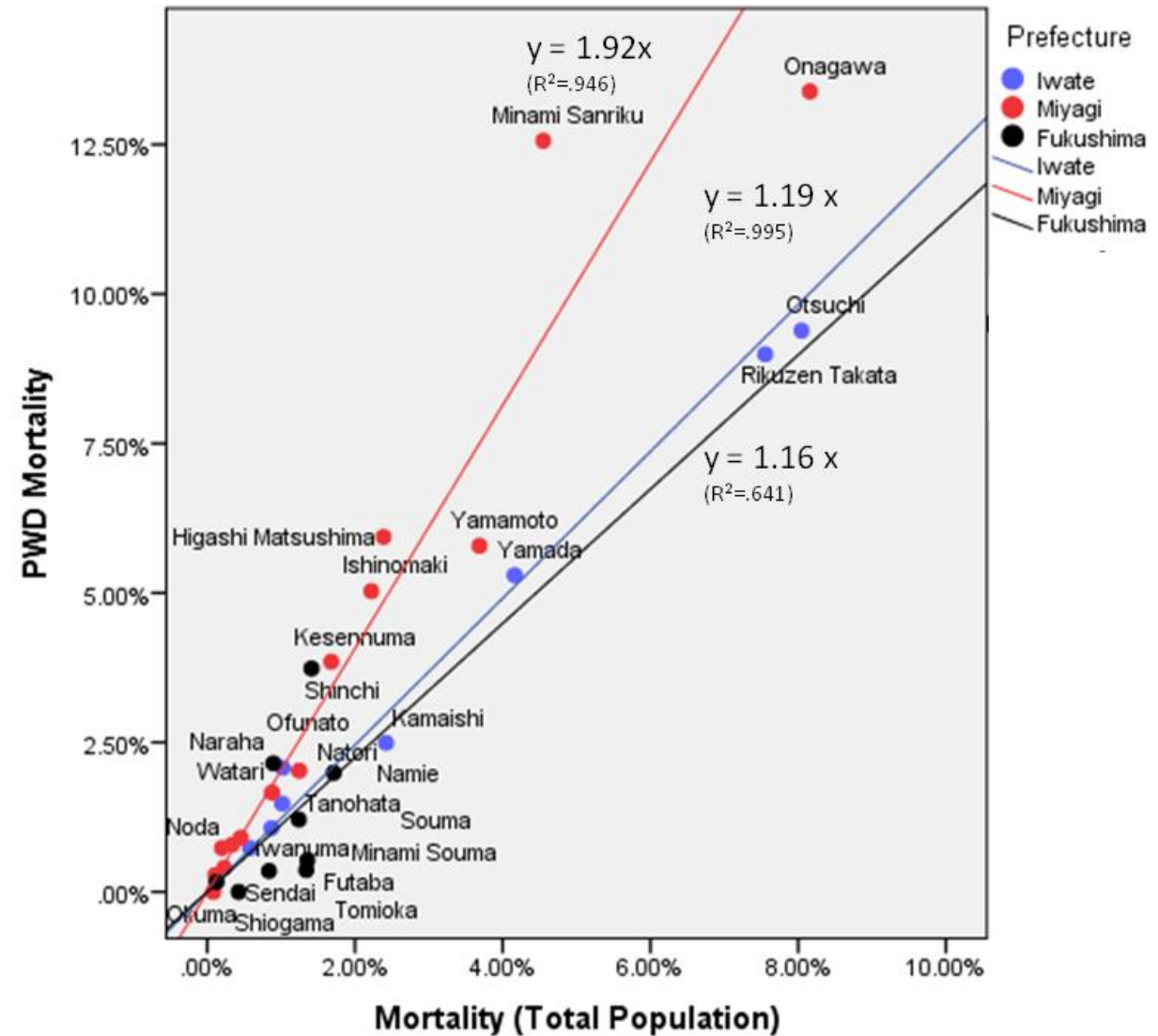
July 15, 2025

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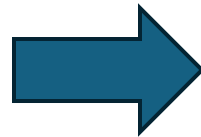
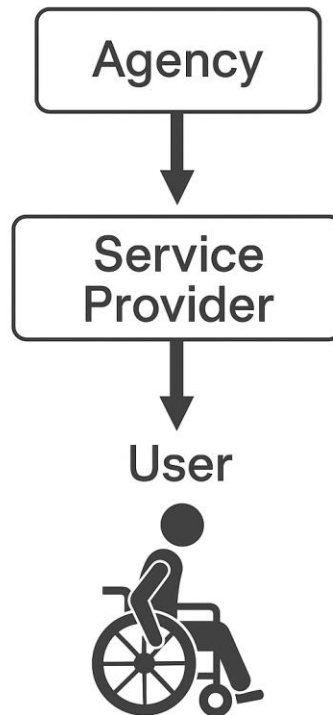
# PWD Fatality Gaps were Highest (approx. two times) in Miyagi Prefecture



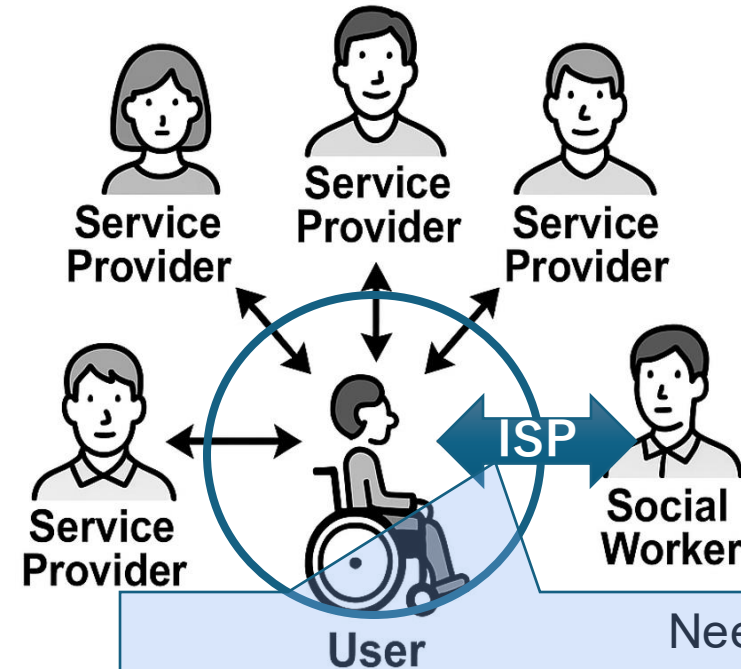
Tatsuki, S. (2013). Old age, disability, and the Tohoku-Oki Earthquake, *Earthquake Spectra*, Vol. 29, No. S1, pp. S403–S432.

# 2012 Policy Shift to Person-centered Case Management for People with Disabilities

## Administrative Placement



## Person-Centered Case Management



Needs assessments  
Co-Create Individualized Service Plans (ISP)  
Coordinate community-based services  
(e.g., care, housing, employment)  
Monitor and update plans regularly

# Predictors of Disaster Death & Economic Damage: 47 Prefecture Data Analyses

Independent Variable (IV)	DV=Number of Disaster Death (2019 to 2023)	DV=Amount of Economic Damage per capita (2019 to 2023)
Hazard		
Proportion of Municipalities that Activated Disaster Response HQ	0.427 * (1.548)	0.367 *** (1.575)
Exposure:		
Population	1.594 *** (2.614)	-0.411 * (-1.305)
Vulnerability		
Share of erosion & flood control in total public investment	0.336 (0.311)	-0.728 (-1.302)
Share of disaster restoration in total public investment	-0.649 * (-1.521)	-0.72 *** (-3.262)
Comprehensive disaster response capacity (Inversely scaled)	0.586 ** (2.235)	0.189 * (1.395)
Home-visit care recipients per capita	-1.621 * (-1.448)	-1.56 *** (-2.696)
Institutional care recipients per capita	4.079 * (1.443)	1.283 (0.878)
Prefectural income per capita	-0.427 (-0.211)	-1.175 (-1.123)
Constant	-12.129	-6.902
Sample size	47	47
R-squared	0.386	0.669

Note: a number in parenthesis is t-value. \*\*\*<.001, \*\*<.05, \*<.10.

Community-based Service Users are routinely assisted by their social work case managers, who monitor and update care plans all the time.

Many Institutional Care Facilities are situated in High-Risk Areas.

Source Honjo, Y., Tatsuki, S., Aota, R., & Beniya, S. (in press). An Empirical Analysis of the Effectiveness of Pre-Disaster Measures in Mitigating Human and Physical Losses from Recent Natural Disasters, Proceedings of the 2025 ISSS Spring Meeting, Kobe, May 16, 2025.