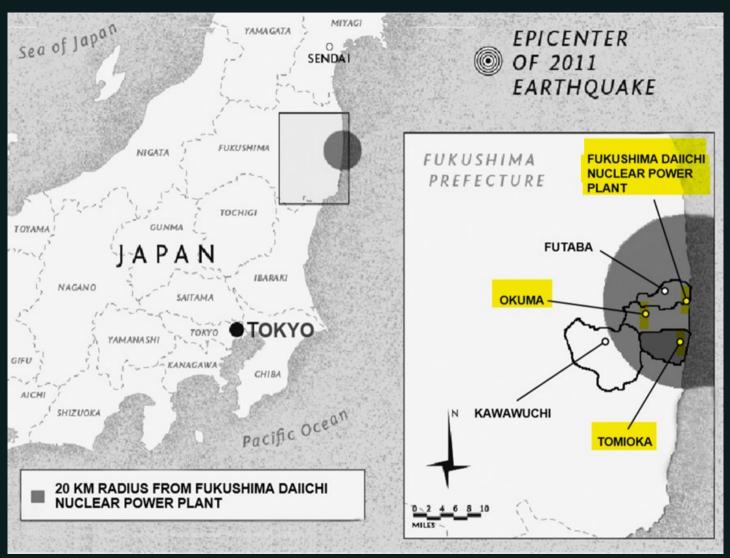
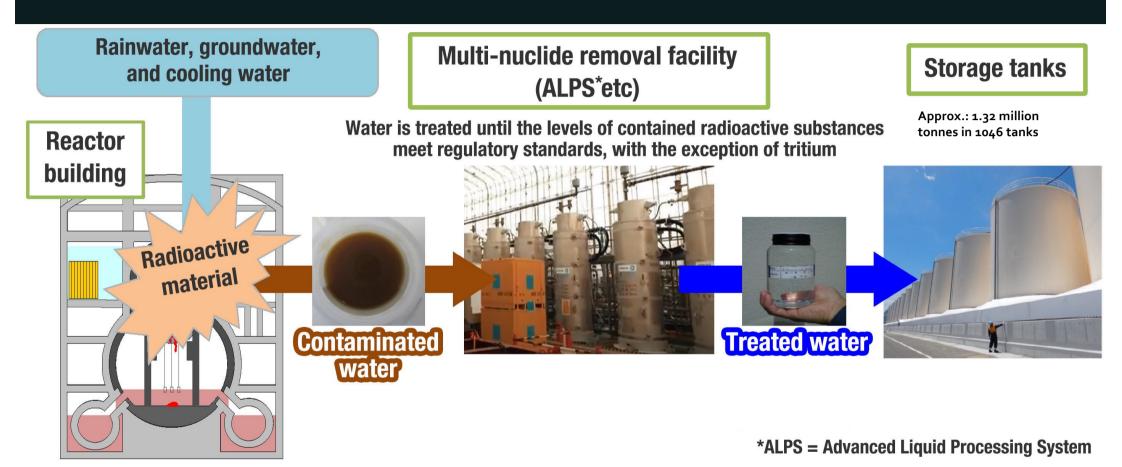
Costal Residents' Views on Fukushima Daiichi Nuclear Power Plant's ALPS-treated Water Release into the Pacific Ocean

Varsha Hande

Background



Xiao X, Matsunaga H, Orita M, Kashiwazaki Y, Taira Y, Win TZ, Lochard J, Schneider T, Takamura N. Assessment of radiation risk perception and interest in tritiated water among returnees to and evacuees from Tomioka Town within 20 km of the Fukushima Daiichi Nuclear Power Plant. International Journal of Environmental Research and Public Health. 2023 Feb 2;20(3):2690.



https://fukushima-updates.reconstruction.go.jp/en/faq/fk_240.html

Tank types (Standerd)

Immediately following the earthquake



Blue tank Pre-fabricated tanks were used. Tank capacity: 100㎡ class



Flanged tank Tanks that are bolted together thereby enabling quick construction. Tank capacity: 1,000m class Currently in use

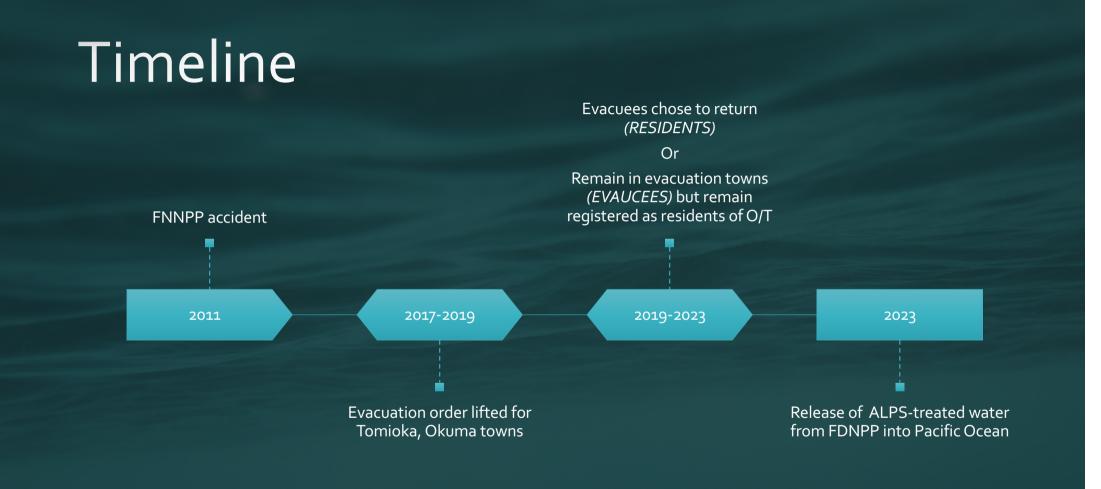


Welded tank The risk of leakage is reduced. Tank capacity: 1,000m class

https://www.tepco.co.jp/en/decommission/progress/watertreatment/alpso1/index-e.html

<u>Approved</u> National government TEPCO IAEA

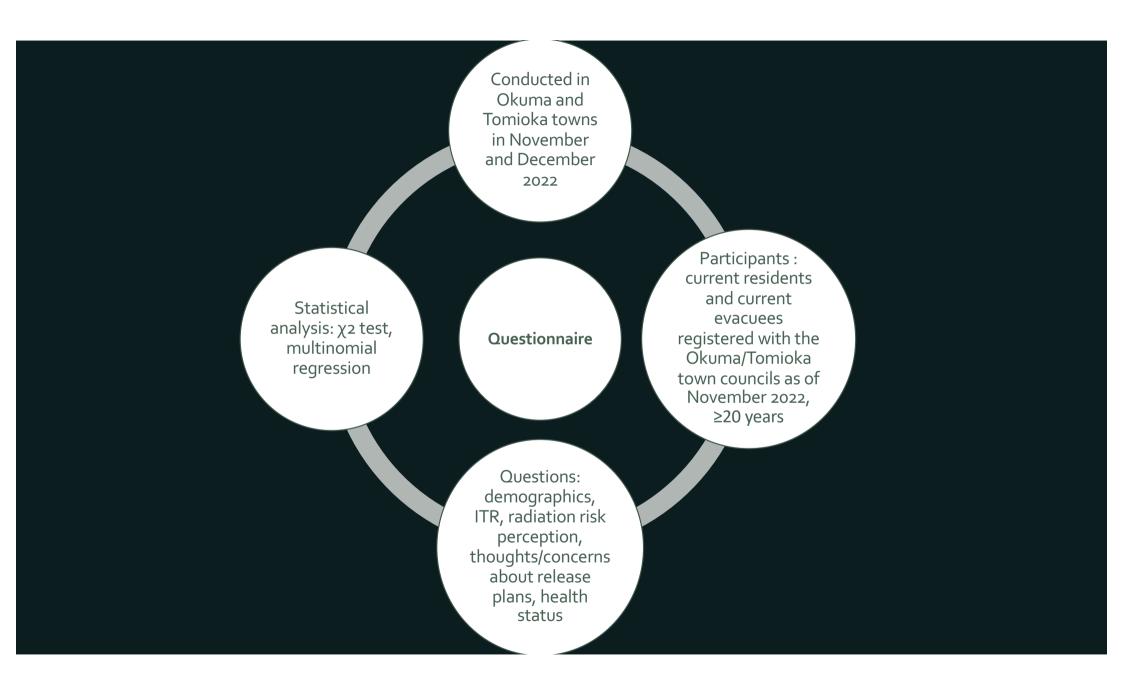
Opposed Local residents Local fisheries Neighbouring countries Environmental non-governmental organisation



Aims of study

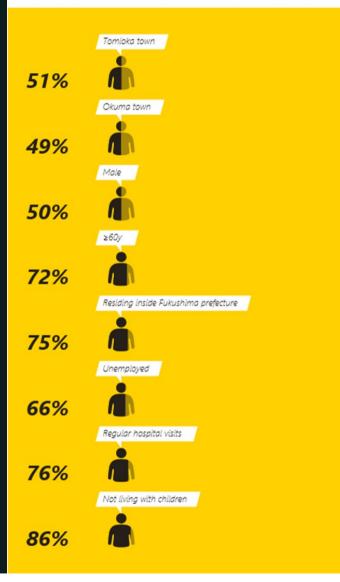
- Highlight thoughts of Tomioka, Okuma residents regarding release
 - Key challenges
- Inclusive decision-making
- "Culture of radiological protection"

Methods



Results

RESPONDER CHARACTERISTICS



ITR

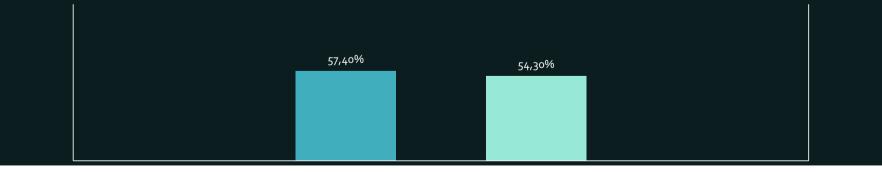


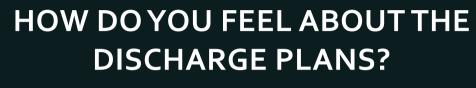
60.5% Do not want to return

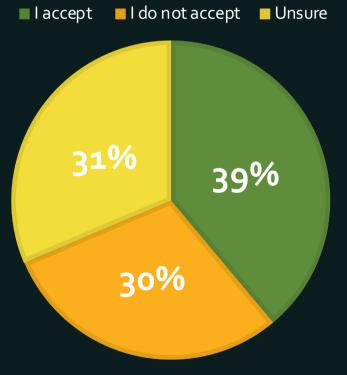


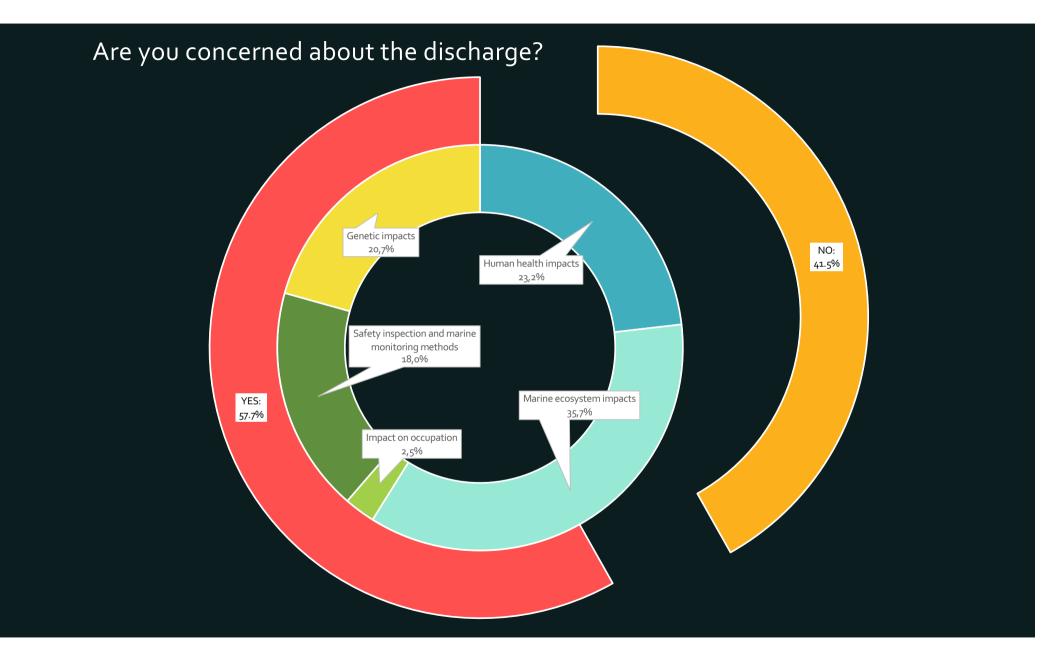
POOR HEALTH

■ PCS < 50 ■ MCS < 50









Multinomial regression analysis

Group ¹	Variable	Reference	Odds Ratio	Lower 95% Cl	Upper 95% Cl	p-value
Not accepting	Sex	Female	<mark>1.693</mark>	1.253	2.289	<mark><0.001</mark>
	Occupation	Unemployed	<mark>1.507</mark>	1.089	2.085	<mark>0.013</mark>
	Risk perception	Yes	7.277	5-333	9.928	<0.001
	(genetic effects)					
	PCS	<50	1.125	0.823	1.537	0.460
	MCS	<50	<mark>1.751</mark>	1.291	2.373	<mark><0.001</mark>
Unsure	Sex	Female	<mark>2.324</mark>	1.757	3.074	<mark><0.001</mark>
	Occupation	Unemployed	1.184	0.882	1.589	0.260
	Risk perception (genetic effects)	Yes	<mark>1.919</mark>	1.433	2.570	<0.001
	PCS	<50	1.172	0.879	1.563	0.279
	MCS	<50	1.704	1.287	2.256	<mark><0.001</mark>

¹ Reference group: Acceptance

Discussion

- Acceptance tied to risk perception and mental health
- Setback in town recovery
- Need for 2-way dialogue

Conclusion

Thank you for your time! bb55b21006@ms.nagasaki-u.ac.jp