

Science *for* citizens or *by* citizens?

Exploring grassroots monitoring after Fukushima

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Exploring grassroots monitoring after Fukushima

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Citizen science



- Bottom-up and top-down
- Different levels of participation



- Citizen radiation monitoring
- Chernobyl and Fukushima



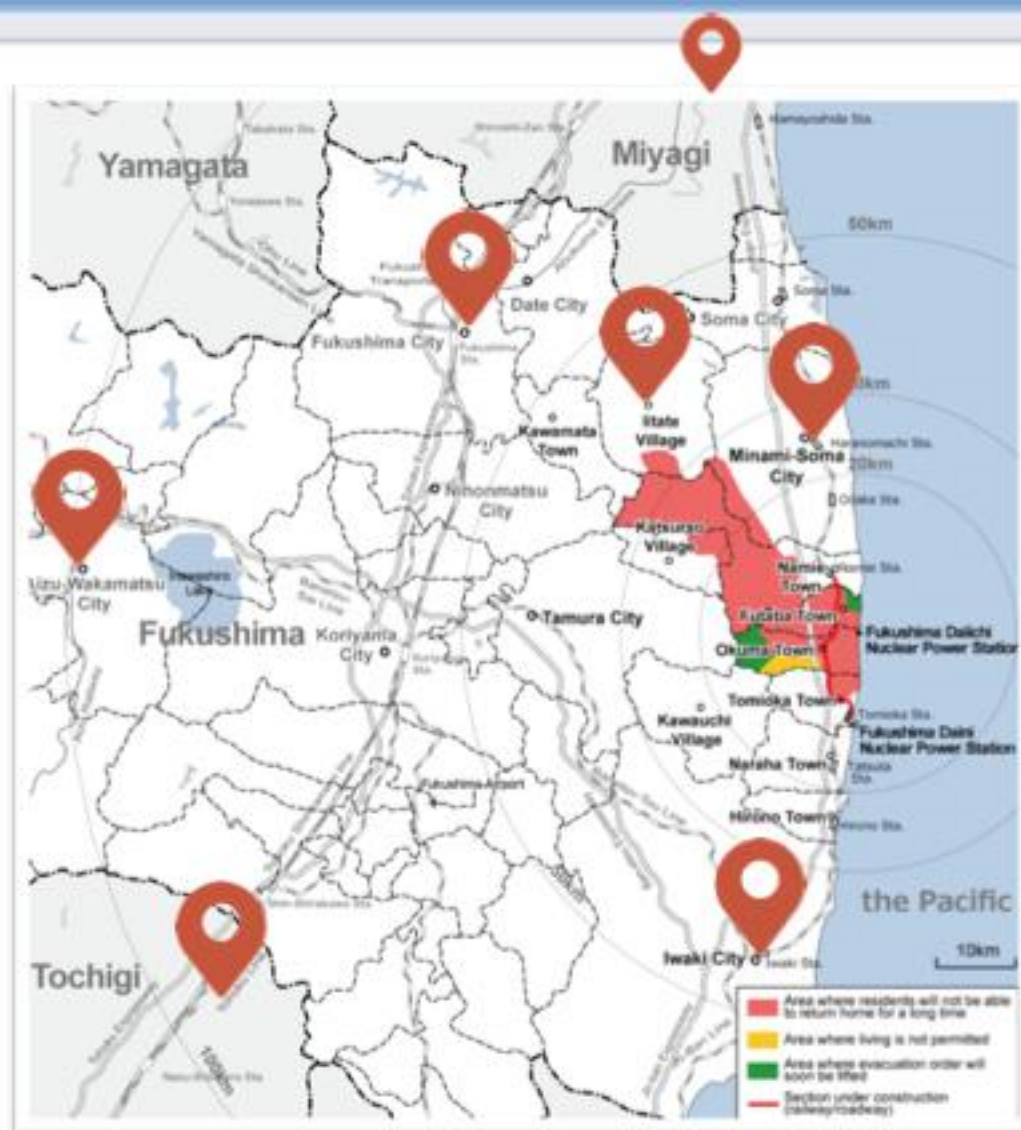
- 市民放射能測定室 (*shimin hōshanō sokutei shitsu*) = citizen radiation measuring center

Shalom Disaster
Support Center
(Fukushima city)

litate Farm
(litate)

Aizu Radiation
Information Center
(Aizu Wakamatsu)

The Fortress of
Hope in Nasu
(Nasu)



Small Flower
Independent
Radiation
Measurement Lab
(Sendai)

Radiation Measuring
Center, Todokedori
(Minimi-Soma)

Iwaki Radiation
Measuring Center,
Tarachine
(Iwaki)

Learn from citizen radiation measuring centers:

- ✓ Evolution of citizen measuring centers?
- ✓ Opportunities and challenges?
- ✓ Concept of citizen science?



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In the direct aftermath: response to ...



Lack of information



Non-measurement by
government (Mizushima &
Ueda, 2018)



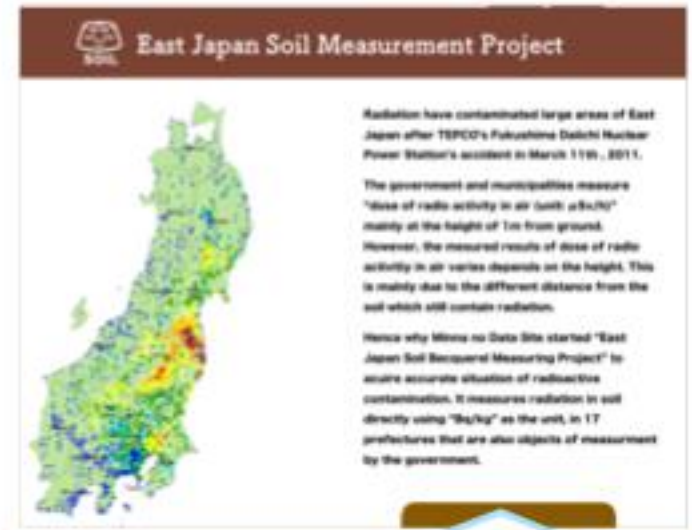
Citizen empowerment

Citizen measuring centers 7 years after...



Monitoring

Adapting to
community's needs



Creating records

Learn from citizen radiation measuring centers:

- ✓ Evolution of citizen measuring centers?
- ✓ Opportunities and challenges?
- ✓ Concept of citizen science?



↑
Opportunities



Open data



Citizen network



Social disruption



Funding

↓
Challenges

Learn from citizen radiation measuring centers:

- ✓ Evolution of citizen measuring centers?
- ✓ Opportunities and challenges?
- ✓ **Concept of citizen science?**



Science *for* citizens or science *by* citizens?

「市民のための科学っていう目的性があるからこそ、必要に応じて市民による科学をやった [...]」

“As the need arised we practiced science by citizens, precisely because it's purpose is to be science for citizens [...].”

(Interview with the founder of *Kodomo Mirai Sokutei jo*, Tokyo, 2018)





List of citizen radiation measuring centers

- 会津放射能情報センター (Aizu Radiation Information Center), <https://www.aizu-center.org/>
- いいたてファーム (Iitate Farm), <https://twitter.com/nobuitou8869>
- 認定NPO法人 いわき放射能市民測定室 たらちね (Iwaki Radiation Measuring Center, Tarachine), <https://tarachineiwaki.org/>
- 放射能測定センター・南相馬 とどけ鳥 (Radiation Measuring Center, Todokedori), <http://todokedori.blogspot.be/>
- NPO法人シャローム 災害支援センター (Shalom disaster support center), <http://nposhalom.sakura.ne.jp/hsf/>
- 小さき花市民の放射能測定室 仙台 (Small Flower Independent Radiation Measurement Lab), <https://ameblo.jp/foreston39/>
- 那須希望の砦 (The Fortress of hope in Nasu), <http://nasutoride.jp/>