



東日本大震災後のコミュニティ中心の  
**Green Place Making**  
(グリーンプレースメイキング)

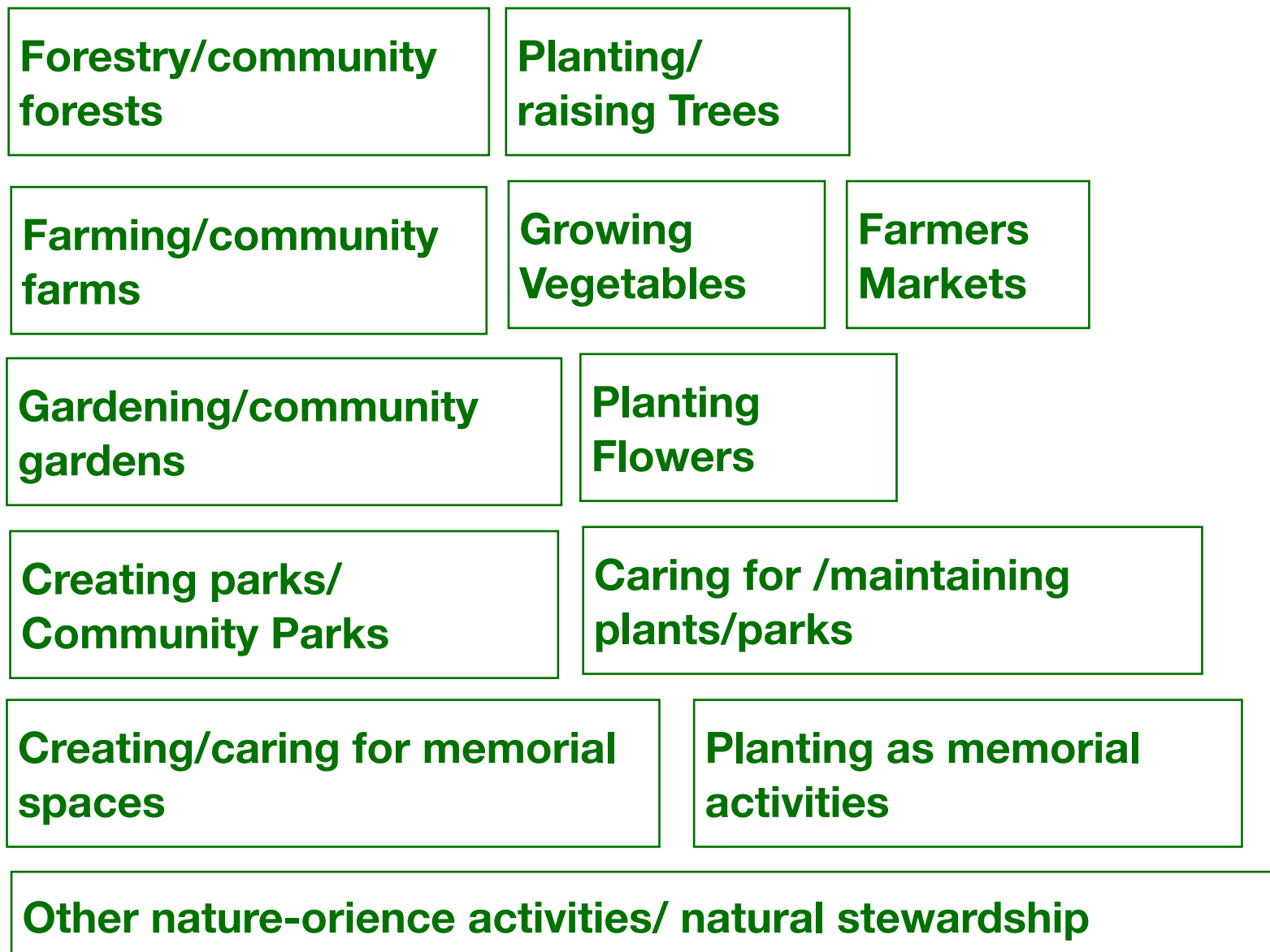
土木学会TC21研究討論会  
東北大学災害科学国際研究所  
マリ・リズ  
2024.9.03



# Community-based ecological restoration/ green placemaking activities

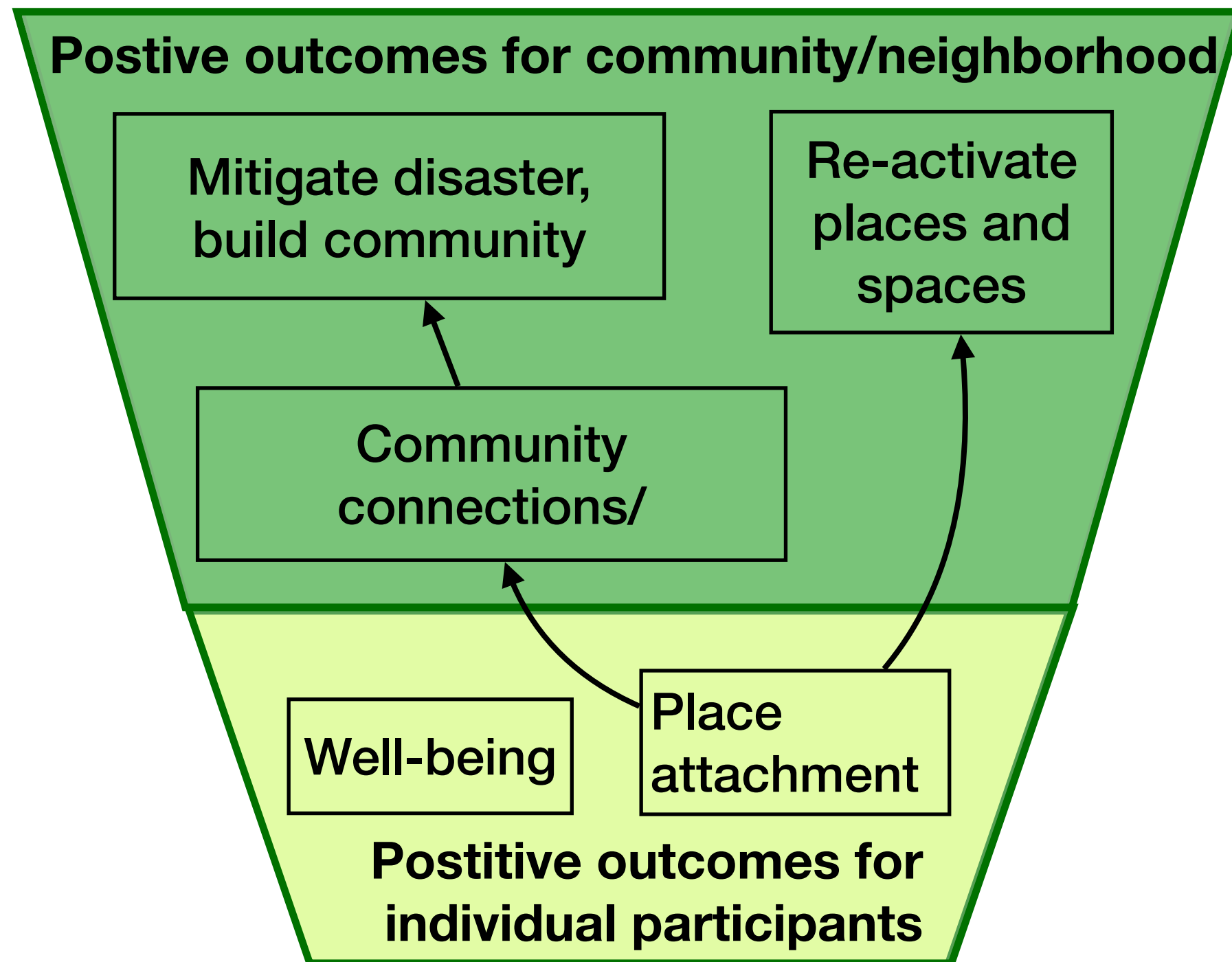
地域密着型の生態系再生・

グリーンプレイスメイキング活動



# Multi-scale impacts of green placemaking activities

グリーンプレイスメイキング活動のマルチスケールな影響



# Green Placemaking Typologies, Examples from U.S. and Japan, by Scale/Organization

Project Scale/Organizational Support

Supported by larger organization  
 Small/medium size group, NPO  
 Supported by larger organization

## US cases

2006 Hurricane Katrina New Orleans	2012 Super Storm Sandy, New York
Lafitte Greenway	NYC Farmers' Markets
Farmers Markets: Hollygrove Market and Farm CDC	Community Gardens: Seagirt Boulevard Community Garden, Rockaway
The Lower Ninth Ward Food Access Coalition (LNWFAC) (CSED)	Campos Community Garden, Lower East Side,  Boardwalk Community Garden, Coney Island;

### U.S. area of focus: Puna and Maui, Hawaii

2018 Kilauea Volcano Eruption, Hawaii	2023 Lahaina Maui Fires, Hawaii
Puna Placemaking	Tree-covery
Maka'a u Farmer's Market	Lahaina Land Trust
Orchidland Agri- Cultural Community Center	Community Farms: Napili Farm Maoli Farm Noho'ana Farm Health Hana Mahi Pono La Kahea Living Earth Systems
Community Gardens: Asanté Gardens LAFS Black Sands Beach	

M9  
Cascadia  
Earthquake,  
Seattle/  
Washington

Community Gardens

Planting flowers:  
Gareki ni Hana Project

Matsumoto Neighborhood  
Stream

Minato no Mori  
Park, Kobe

1995  
Great Hanshin Awaji  
Earthquake

## Japan cases

### Japan focus area Tohoku after GEJE

Growing indigo, Minami Soma
Community Forestry: Heicho no mori
Camelia levee, Keseunnuma
Tohoku Cotton Project
Community Farms: Arahama Kitchen Tonari no Hatake
Kokoro no Mori, in Minamihama Tsunami Memorial Park, Ishinomaki
2011 Great East Japan Earthquake and Tsunami

Noto Taka Farm

Living with Nature  
Kobe, flower planning  
in temporary housing  
in Suzu City

2024  
Noto Earthquake

Community  
Gardens

Future disaster  
Tokyo Area  
Earthquake

Time



# Looking at past Japanese precedents 日本の前例

## Green Placemaking after the 1995 Kobe Earthquake 阪神淡路大震災後

Growing flowers in the rubble, project of Yoshimi Amakawa  
photos: Ikuo Kobayashi





# Looking at past Japanese precedents 日本の前例

## Green Placemaking after the 1995 Kobe Earthquake

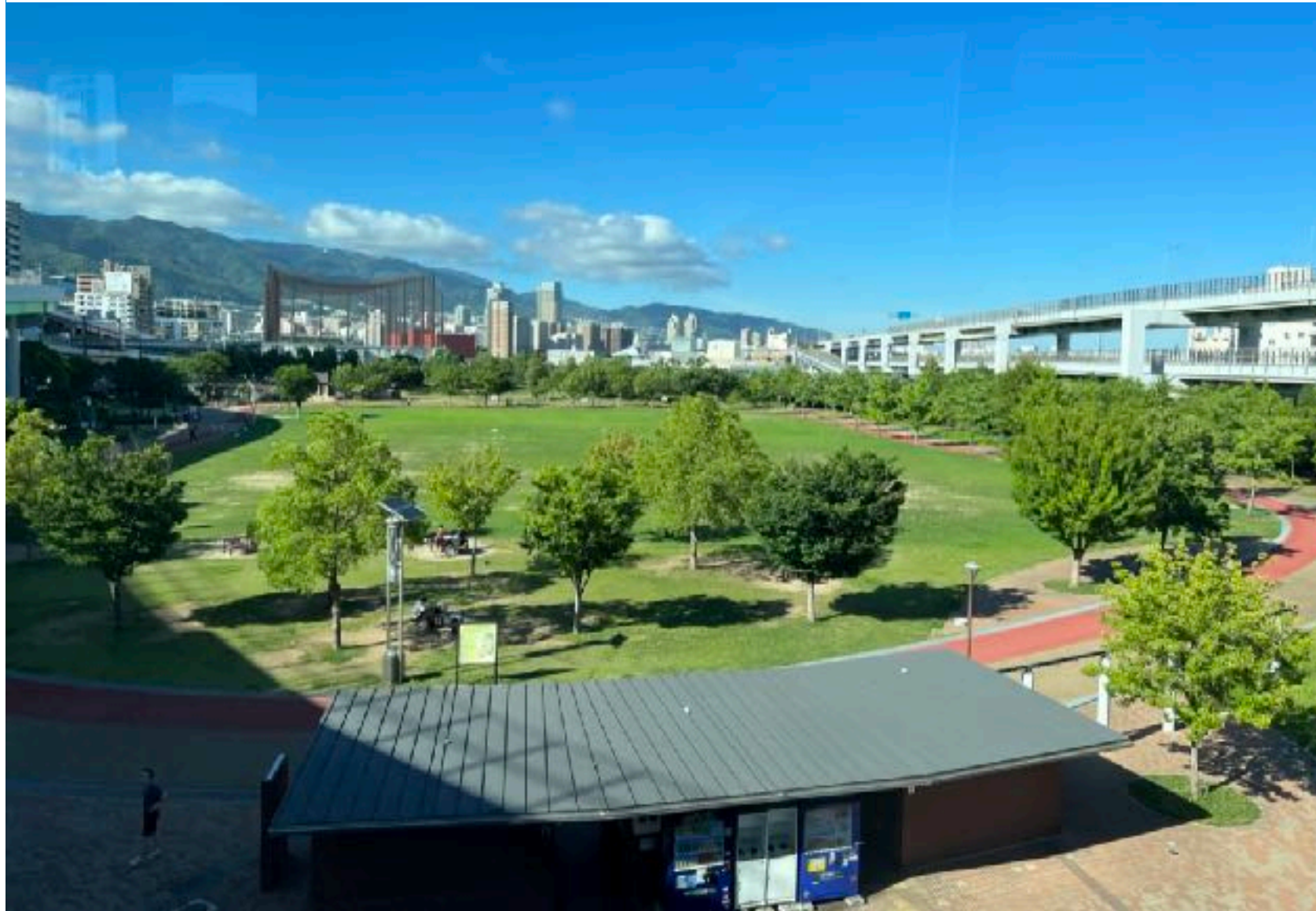
### 阪神淡路大震災後

松本せせらぎ通り



Stream managed by the local community in Matsumoto area

みなとのもり公園 (神戸震災復興記念公園)



Recovery park created in Kobe many years after the earthquake, with citizen involvement in growing trees



# Background 背景：東日本大震災、復興事業後

## Emptied space created by the disaster and policy

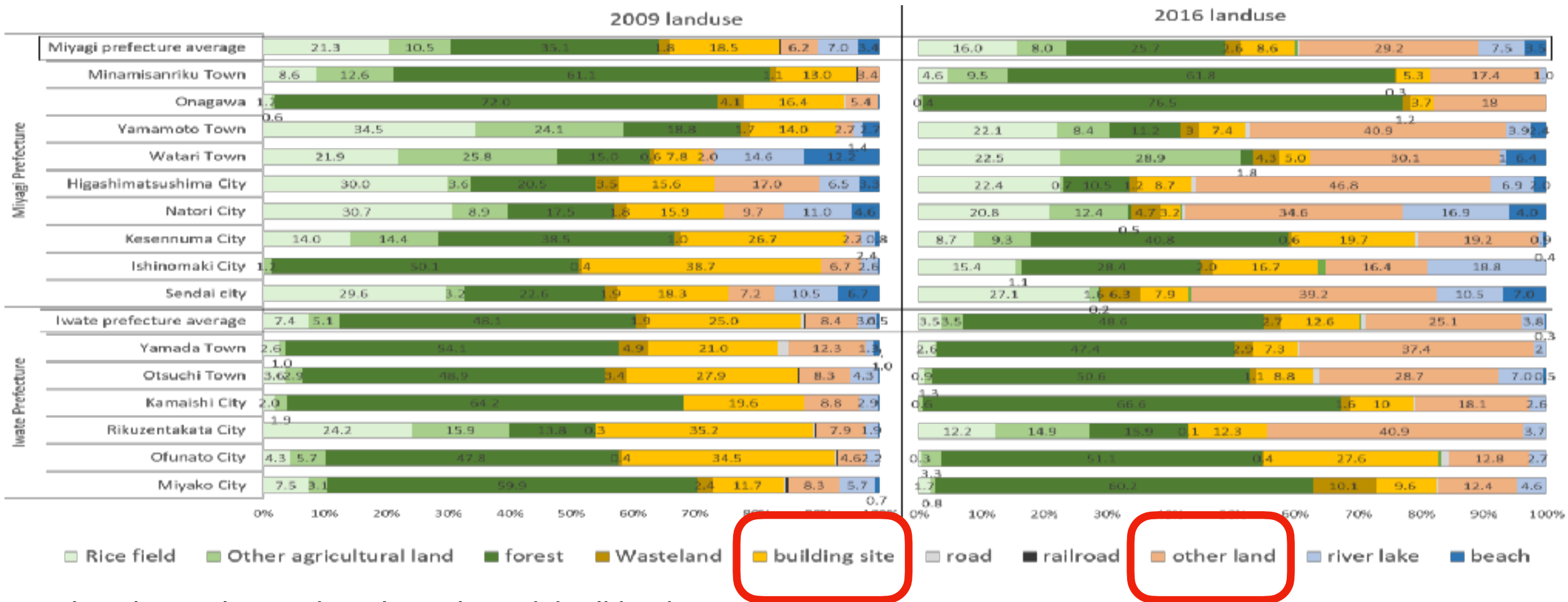
Growing from collaborative research investigation with Prof. Tamiyo Kondo and team:  
Human-Centered Data for Resilience Research the SDGs and the Sendai Framework jointly





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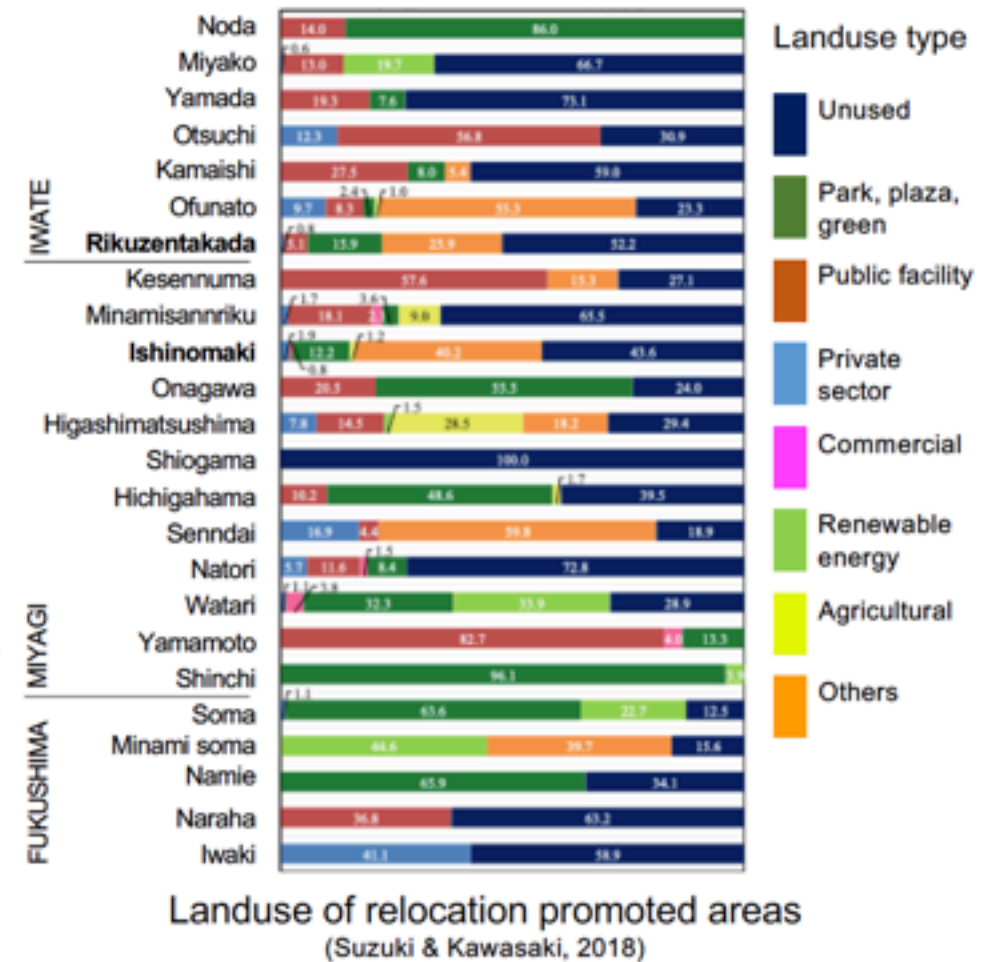
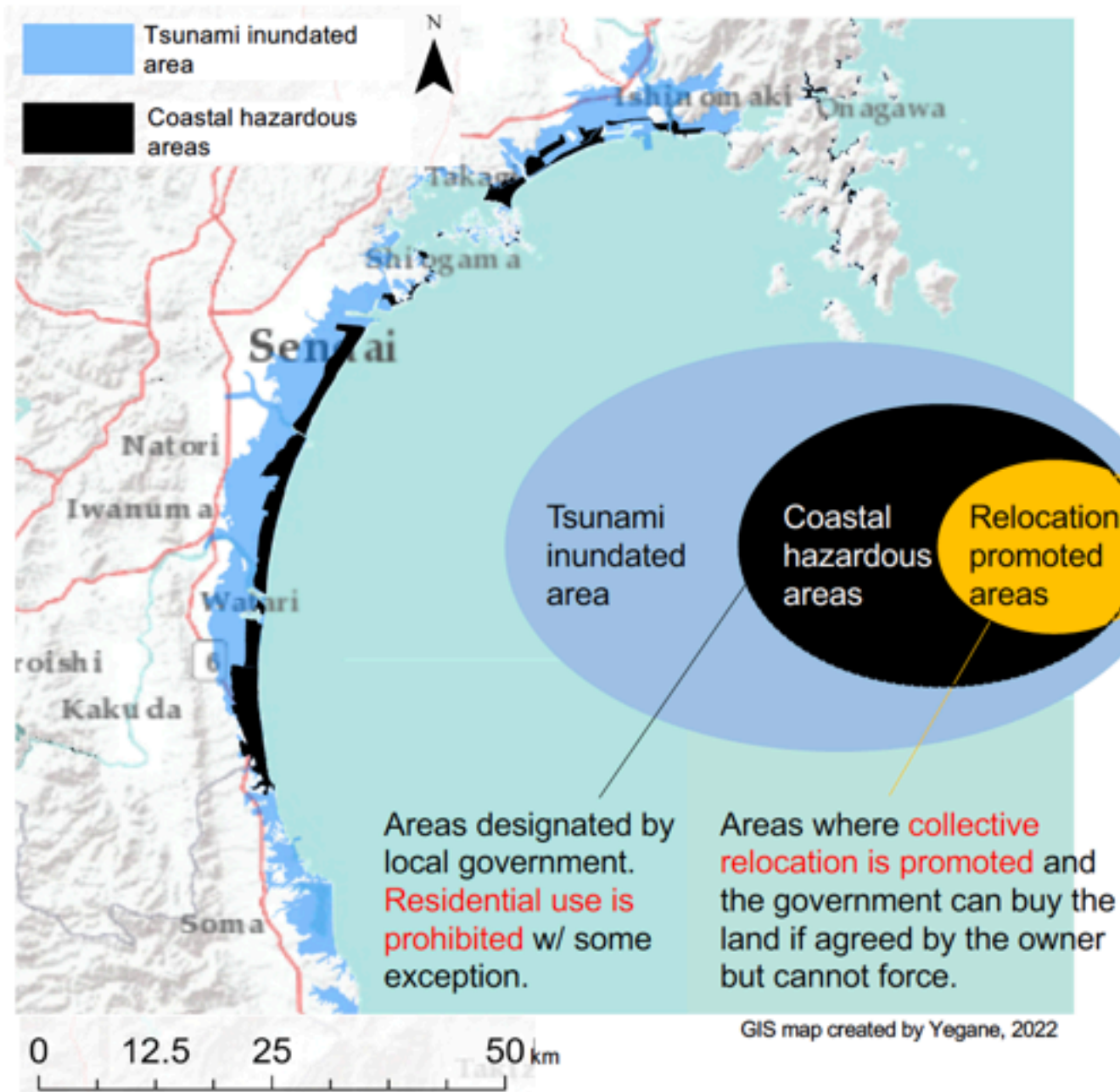


- Land use change in selected municipalities in Iwate and Miyagi, based on GIS data issued by Geospatial Information Authority of Japan (Yegane, Hara and Kondo, 2022).
- “Other land” includes parks, sports field, airport, horse racetrack, baseball field, school, port, artificial land.

Prominent change of land use comparing before & after the 3.11 earthquake/tsunami disaster can be seen in the decrease in “building site” and increase in “other land” - as vast areas were washed away by the tsunami and they are designated as “disaster hazardous zone” which prohibits residential use. Hence they are left as “other land”.

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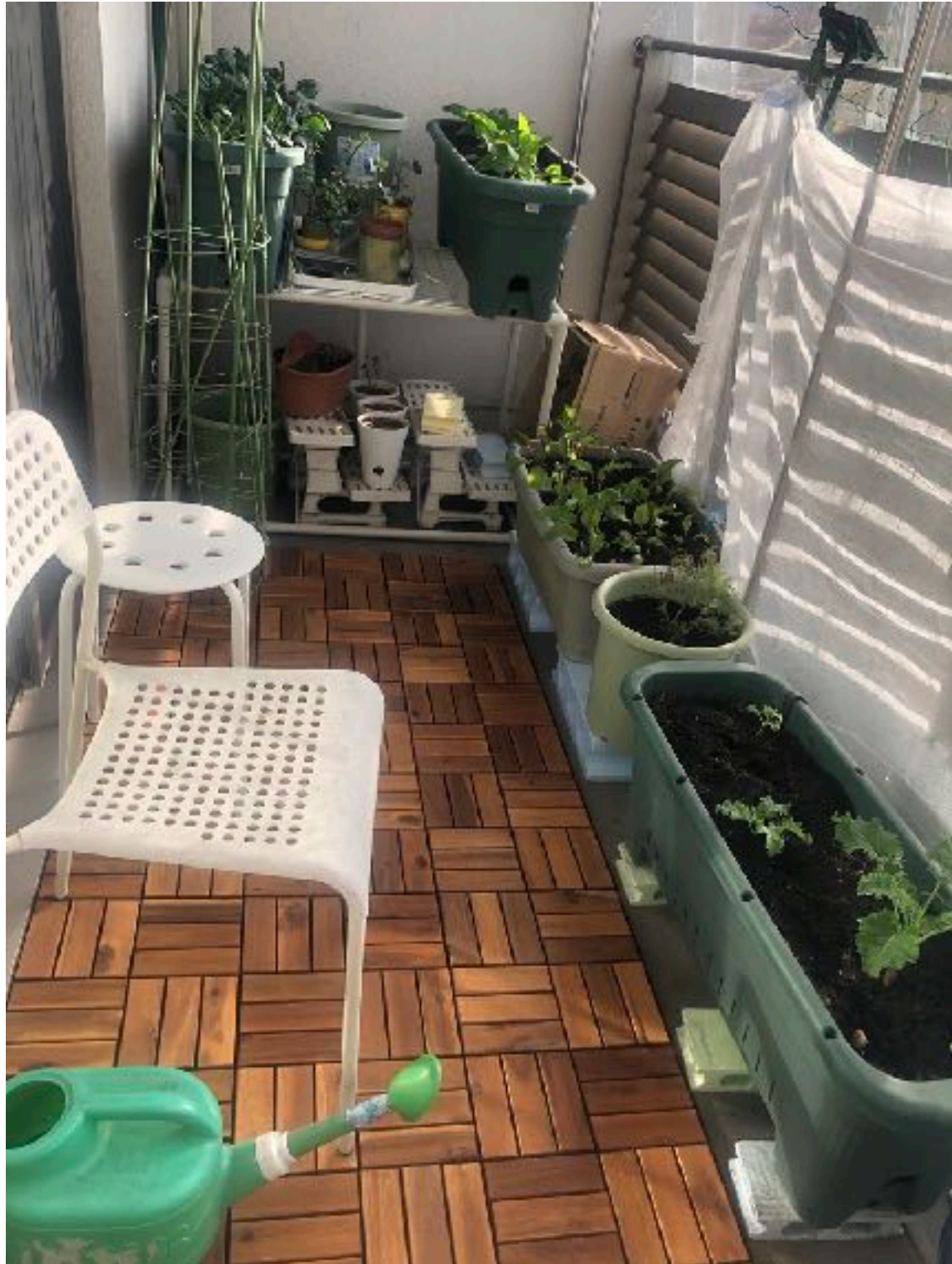
- In 9 out of 24 municipalities, more than 50% of the relocation promoted land were **unused**.
- 73% of municipalities said they face **difficulty in reuse of the emptied land**, as they already faced low demand since before the disaster. (Suzuki & Kawasaki, 2018)

From: Matsushita, T. Et al. (Re)making Emptied Places in Post-tsunami Japan, presented at APRU APRU Sustainable Cities & Landscapes 5th Conference



# Gardening during Covid19

Oct/Nov 2020





# Citizen-based activity 市民活動

Minamihama, Ishinomaki 南浜、石巻

<https://ishinomakiminamihama-park.jp/activity/>

Within the large memorial park created by government project

復興公園の中、市民活動拠点

(2) Large-scale park construction: Ishinomaki Minamihama Tsunami Memorial Park, Miyagi

**Citizen Activity Base: Participatory Management Council** has been formed in order to carry out various activities such as memorial events, disaster prevention education, farming/planting.



Memorial museum



Prayer place



Signboard "Hang in there! Ishinomaki" put up by the residents at a site of former residential area after the disaster became a place of praying & gathering

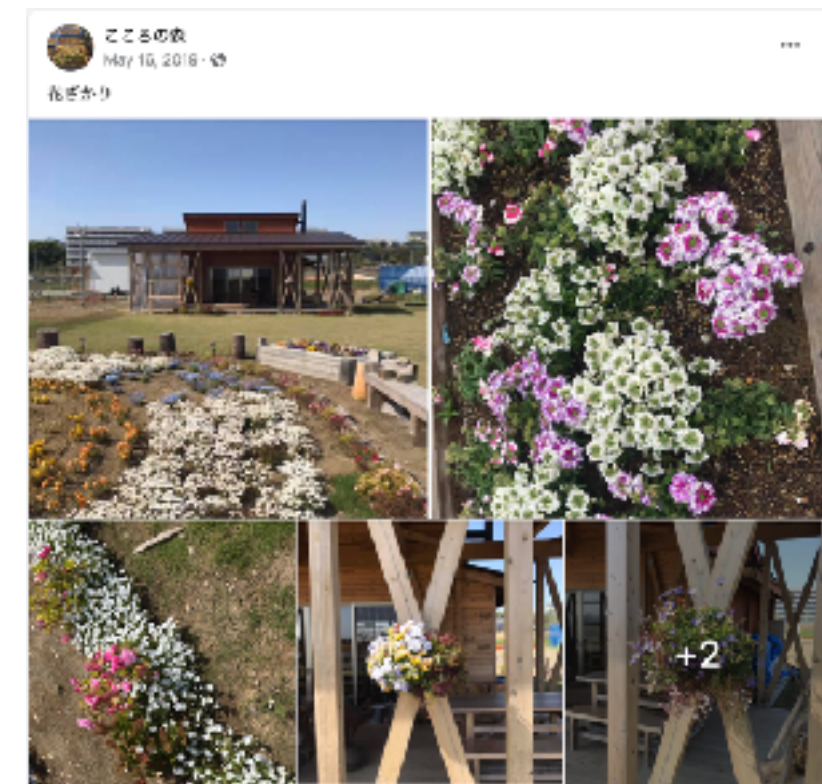


Signboard right after tsunami



**Kokoro no Mori (heartful forest) Garden**

One of the citizen-led organizations created 8 types of gardens in 800 sqm. site within the park



Many citizen-led groups are actively involved in the activities inside the park.

From: Matsushita, T. Et al. (Re)making Emptied Places in Post-tsunami Japan, presented at APRU APRU Sustainable Cities & Landscapes 5th Conference



# OGATU ROSE FACTORY GARDEN

雄勝ローズファクトリーガーデン

Ogatsu, Ishinomaki City

雄勝地区、石巻市

Flower power

<https://ogatsu-flowerstory.com/>





# Citizen-participation in Flower planting

## 市民参加型花を植える

Matsunami Park, Ishinomaki City

松並公園、石巻市

Flower power

河北新報 ONLINE

仙台

宮城

東北

経済

暮らし

スポーツ

[トップ](#) > [石巻が良くメディア関係科](#) > [記事](#) > [関連コンテンツ](#) > [写真](#)



花植栽し復興交流 地区住民や支援者協力 石巻・松並公園

2021年05月15日 11:47





# Garden Day

Odaka, Minami-Soma, Fukushima 小高地区、南相馬、福島

Gardening as machi-zukuri (community-building)





# Sakura Line 3.11

国土交通省大臣表彰 手づくり郷土賞受賞



Planting cherry blossom trees along the line of tsunami inundation in 2011

Tree planting + disaster message





# Hanamizuki Road ハナミズキのみち

Rikuzentakata City 陸前高田市、岩手県

Tree planting + disaster message



# Tohoku Cotton Project

<http://www.tohokucotton.com/en/about/>

New use of fields and soil



Reusing fields damaged by Salt



# Growing and using natural indigo 自然の藍染

Kashima area, Minami Soma, Fukushima 鹿島地区、南相馬、福島県

New use of fields and soil

## 藍染め体験 藍染め作業工程

このサークルでは、種から藍を育て、葉を採取して先ず生葉で（～10月まで）をし、その後乾燥葉で藍染めをします。



抗菌作用、防虫、防腐、防臭、保湿、保温、遮熱など、様々な効用があります。

も藍染めをしてみませんか。

料

体験は予約制です。

電話またはファックスでお問い合わせ下さい。

ハンカチ 1,000円  
その他、材料により別料金になります。  
汚れてもよい服装でお越しください。



発芽後 40日

1. 苗を畑に移植する



2. 育ったアイ畑での除草作業



3. 藍染めのデザインをする



4. 針と糸を使い絞りを施す



5. 藍染めをする



6. 乾燥させれば出来上がり



かサークル 〒979-2302 福島県南相馬市鹿島区南柏木字宮前  
Tel. Fax. 0244-46-3613 (森)

協力団体：東京農工大学 科学博物館友の会藍染めサークル

かサークル 〒979-2302 福島県南相馬市鹿島区南柏木字宮前

Trying indigo dyeing experience and staying in local *minshuku*



# Forest-building 森づくり

Heichi no Mori, Kitakami Area, Ishinomaki City  
平地の杜、北上地区、石巻市

<https://www.heichinomori.com/>

- Participatory activities to make a future forest, starting from building up the soil.





# Shinhama, Sendai City 新浜地区、仙台市沿岸部

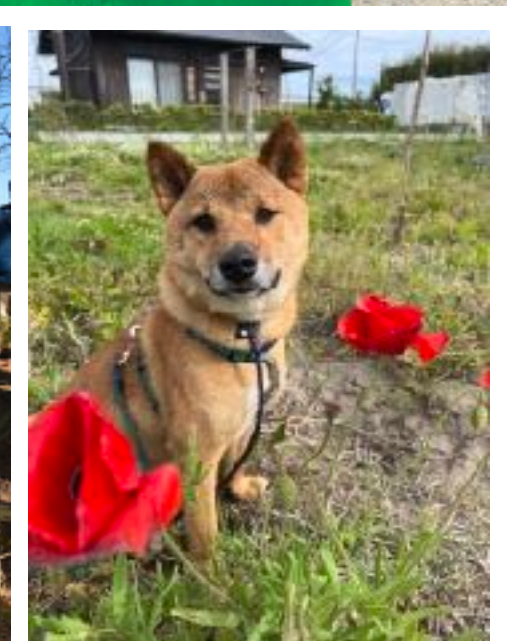
Combine: natural and cultural history, art, event, growing



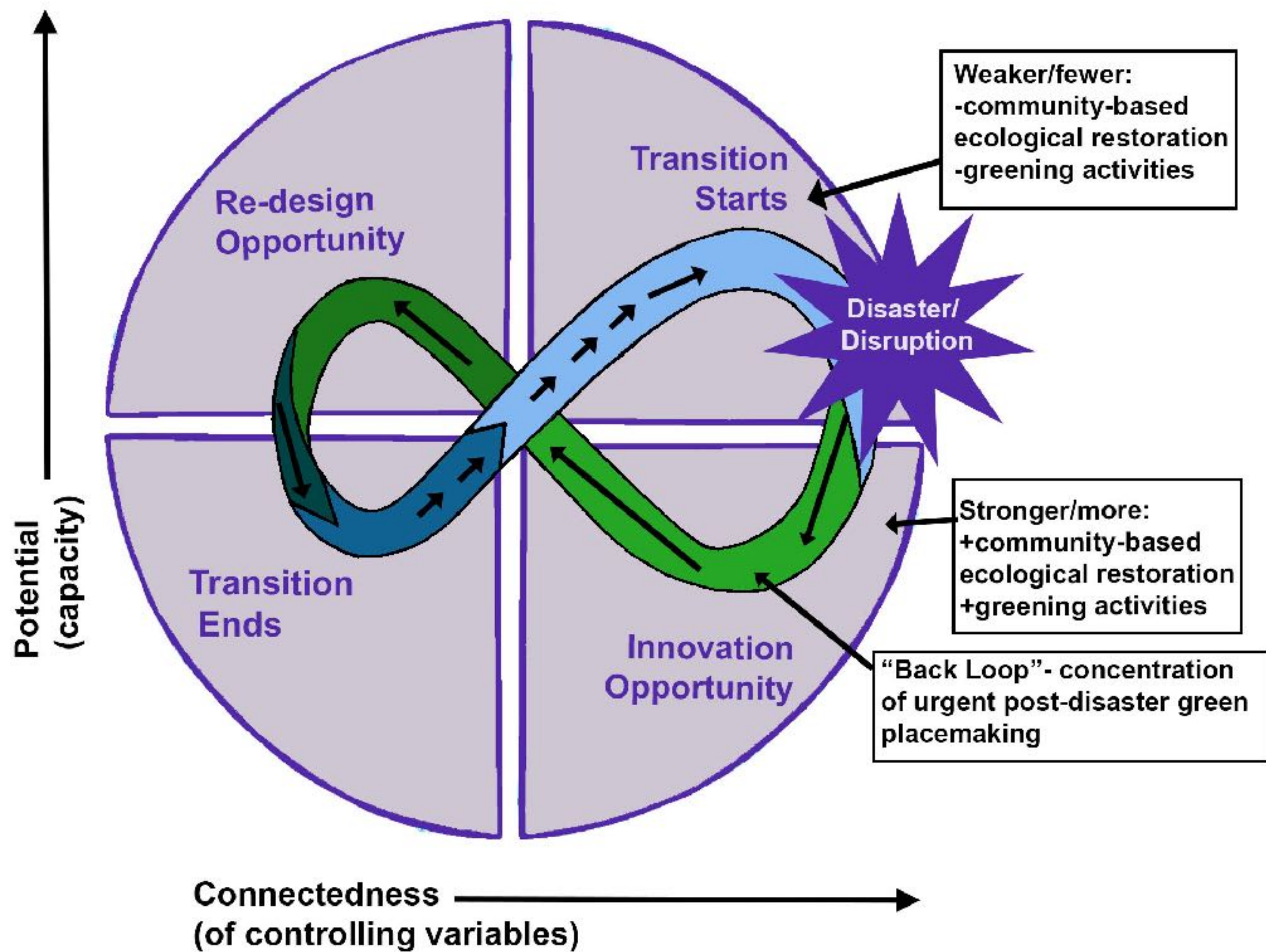
土曜、日曜両日  
貞山川の  
渡し舟と  
新浜フットパス2022  
8.7(sun) 10:00-12:30  
定員 40名

集合 9時55分 新浜みんなの家 (仙台市宮城野区新浜町1-1-1)  
また10時 貞山川の駅(新浜町) 新式舟の渡し見物コース  
舟を渡って海まで行くよ  
お楽しみプログラム ①舟を渡って海まで行くよ  
②新浜の歴史を学ぶ  
③お楽しみプログラム ④お楽しみプログラム ⑤お楽しみプログラム

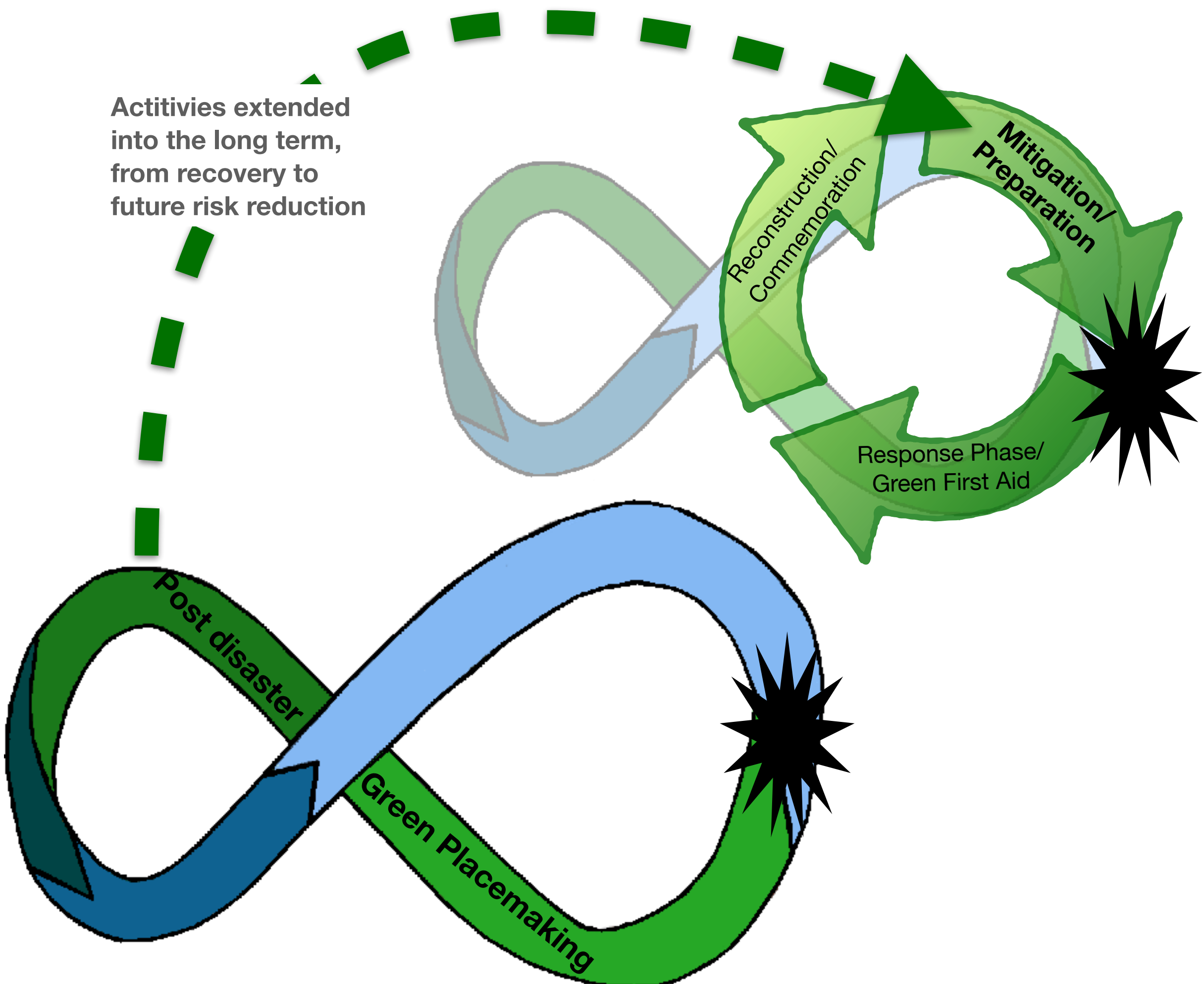
お問い合わせ先  
新浜町民会  
TEL 022-860-8644 (288)







Activities extended into the long term, from recovery to future risk reduction



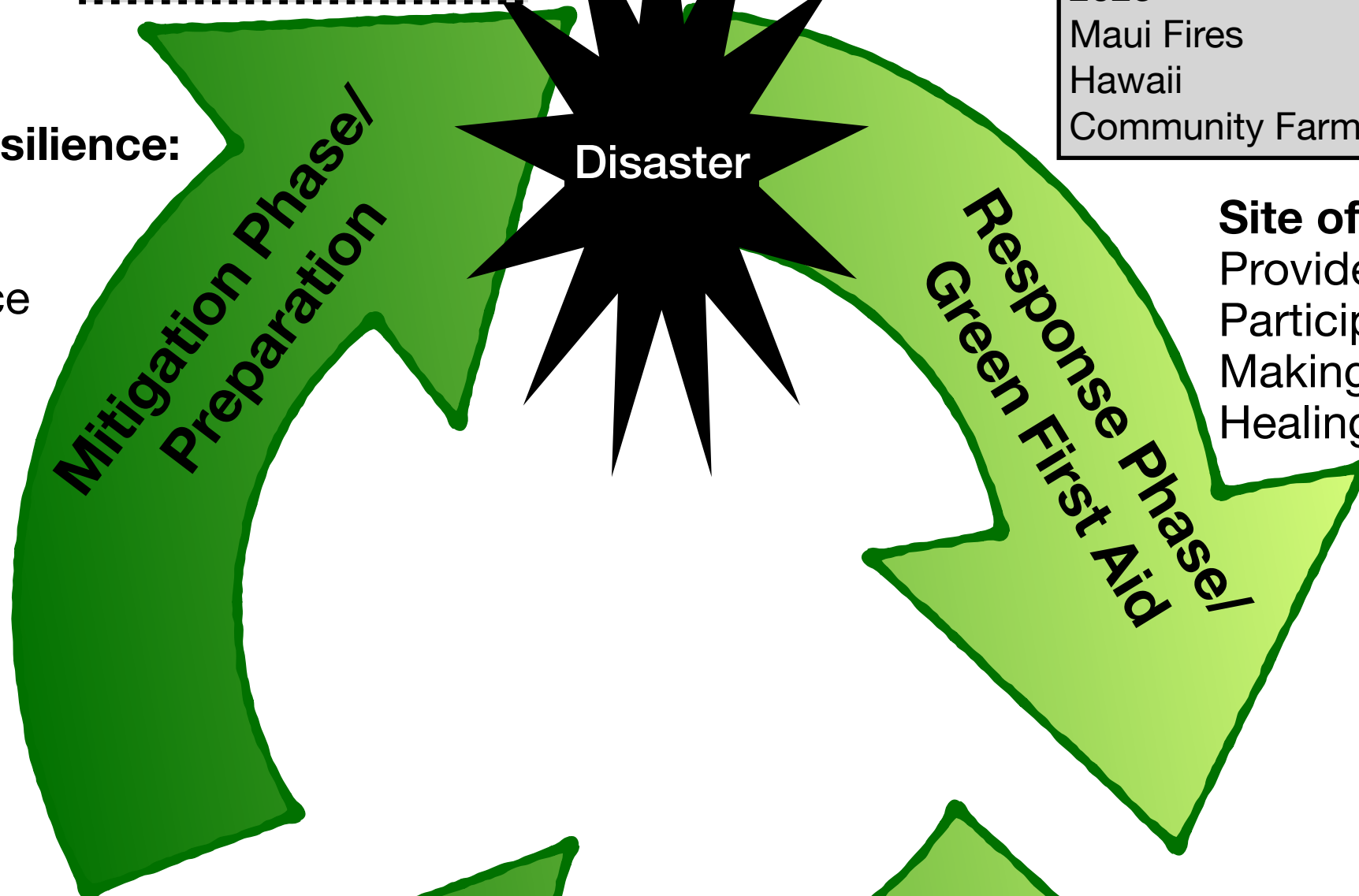
M9  
Cascadia Earthquake  
Seattle/Washington  
Community Gardens

2023  
Maui Fires  
Hawaii  
Community Farms

**Site of Growing Resilience:**

Food security  
Democratic action  
Stronger ties to place  
and community

2006  
Hurricane Katrina  
New Orleans  
Resilience District  
Farmers Markets  
Community Gardens



**Site of Repair:**

Provide Food  
Participation  
Making connections  
Healing trauma

2012  
Super Storm Sandy  
New York  
Rebuild by Design  
Community Gardens

2018  
Kilauea Volcano Eruption  
Hawaii  
Placemaking in Puna  
Gardens/Markets

**Site of Deepening Connections:**

Strengthening Place Attachment,  
Place Identity, Community