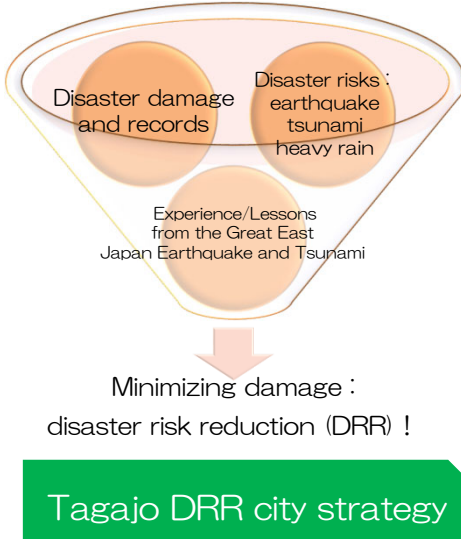
 Tagajo, Miyagi

Towards disaster risk reduction city



Disaster damage and records

Disaster risks : earthquake tsunami heavy rain

Experience/Lessons from the Great East Japan Earthquake and Tsunami

Minimizing damage : disaster risk reduction (DRR) !

Tagajo DRR city strategy

Declaration of DRR City

Tagajo city, which has a long history and tradition, was suffered from many natural disasters such as Jogan Earthquake in ancient times and 8.5 / 9.22 Heavy Rains in recent years.

The Great East Japan Earthquake caused devastating damage to the northeast region of Japan, making us feel how powerless we are in the face of Nature.


We cannot rule out the possibility of suffering from terrible disasters again like flood, typhoon, landslide, earthquake, tsunami and so on.

Therefore, in order to prepare for future disasters, we have to pass on to the next generation our experience and lessons obtained by surviving natural disasters.

We need to understand that each of us is an agent of town/city development, and to learn from the history based on the roles of self-help, mutual assistance, and support by public bodies, and the mutual collaboration. From such point of view, we will promote "Disaster Risk Reduction" to minimize damage not only as responsible individuals but also as cooperative citizens.

We will also make efforts to protect human lives as top priority, to prepare for disasters, to minimize damage, and to recover rapidly. Aiming to realize such city, we hereby declare "DRR city - Tagajo."


Nov. 28, 2013



減災シンポジウム

Disaster-resilient City

「Disaster risk reduction city - Tagajo」


 Tagajo, Miyagi

Tagajo DRR city strategy ①

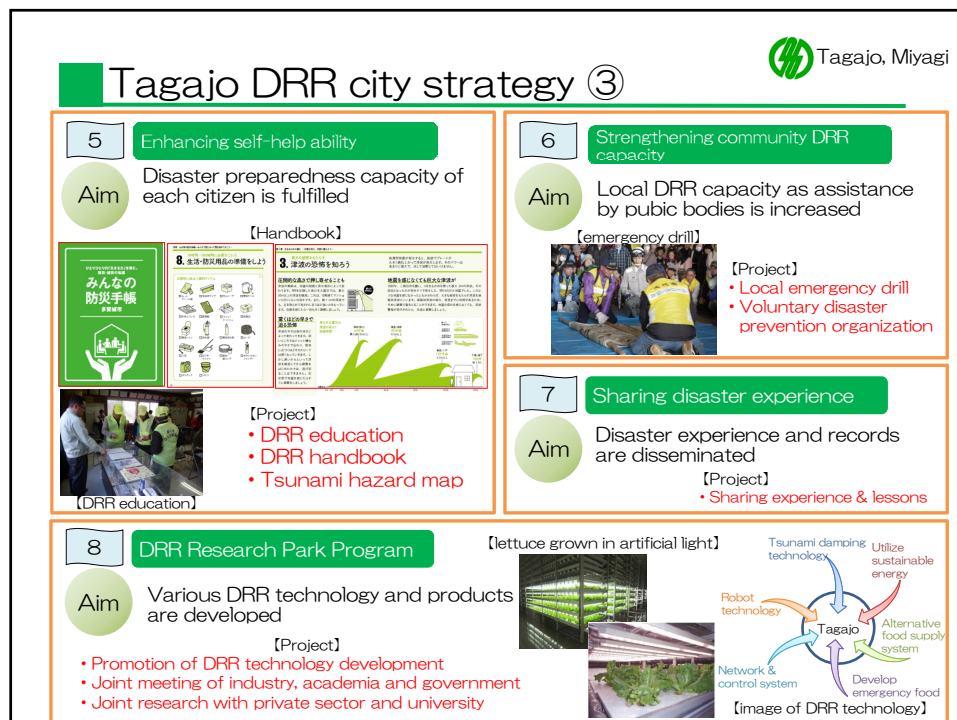
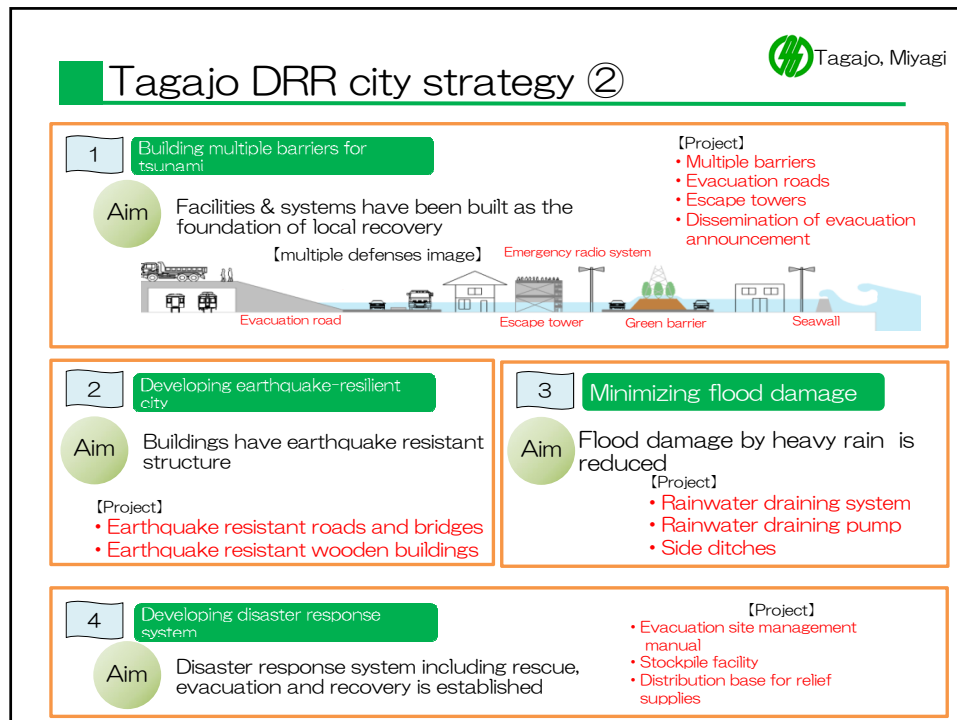
Strategy for DRR city Mechanism

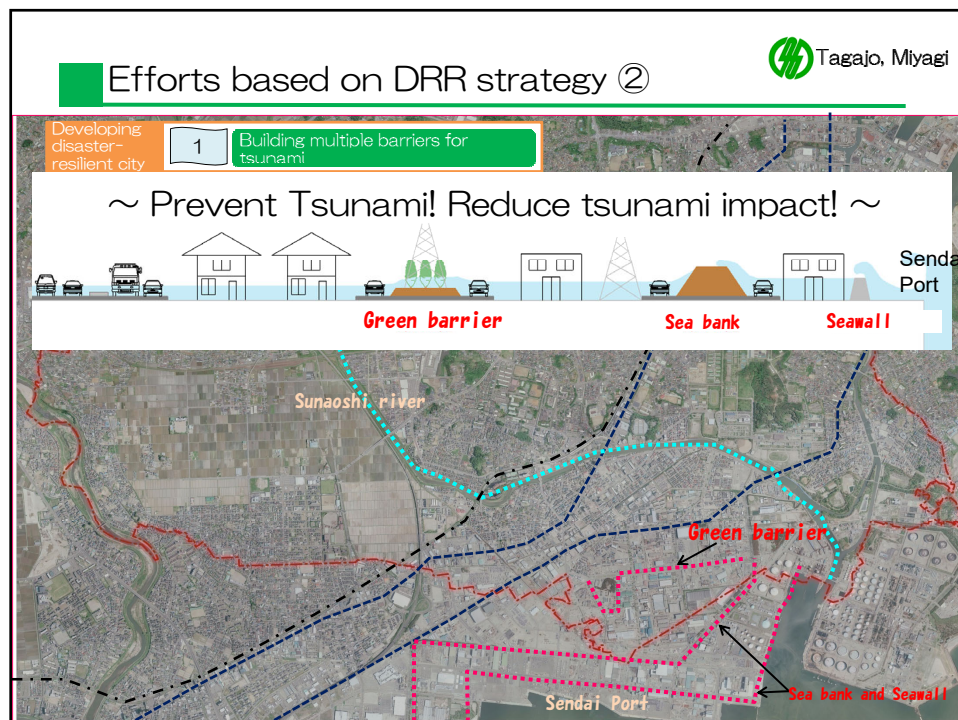
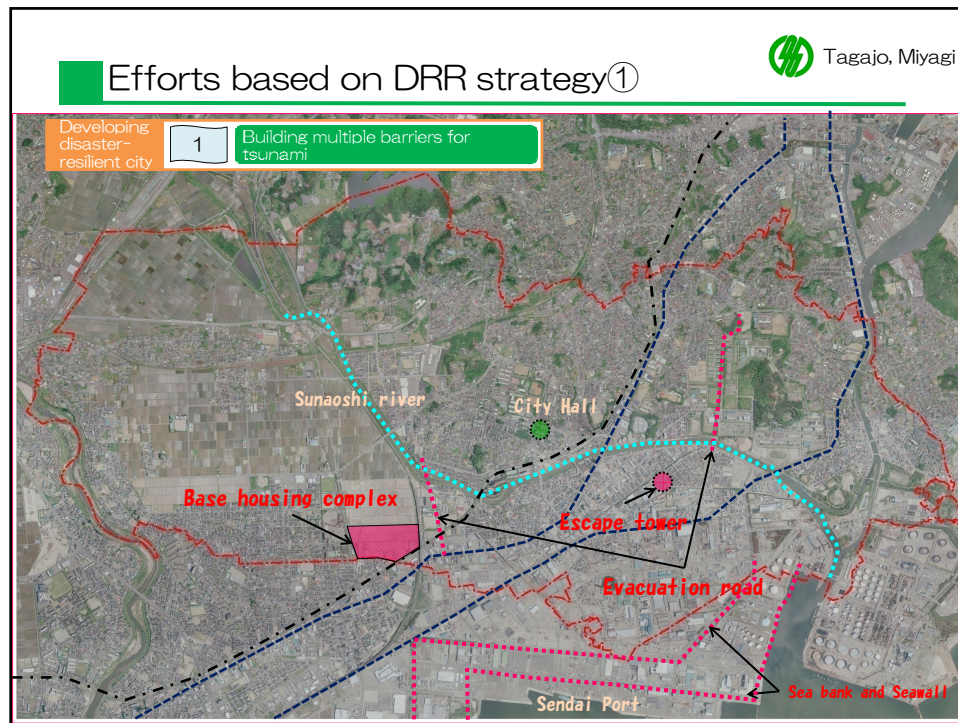
Developing disaster-resilient city	1	Building multiple barriers for tsunami
	2	Developing earthquake-resilient city
	3	Minimizing flood damage
	4	Developing disaster response system
Increasing DRR capacity based on self and mutual help	5	Enhancing self-help ability
	6	Strengthening community DRR capacity
Sharing disaster experience	7	Sharing disaster experience
DRR technology	8	DRR Research Park Program

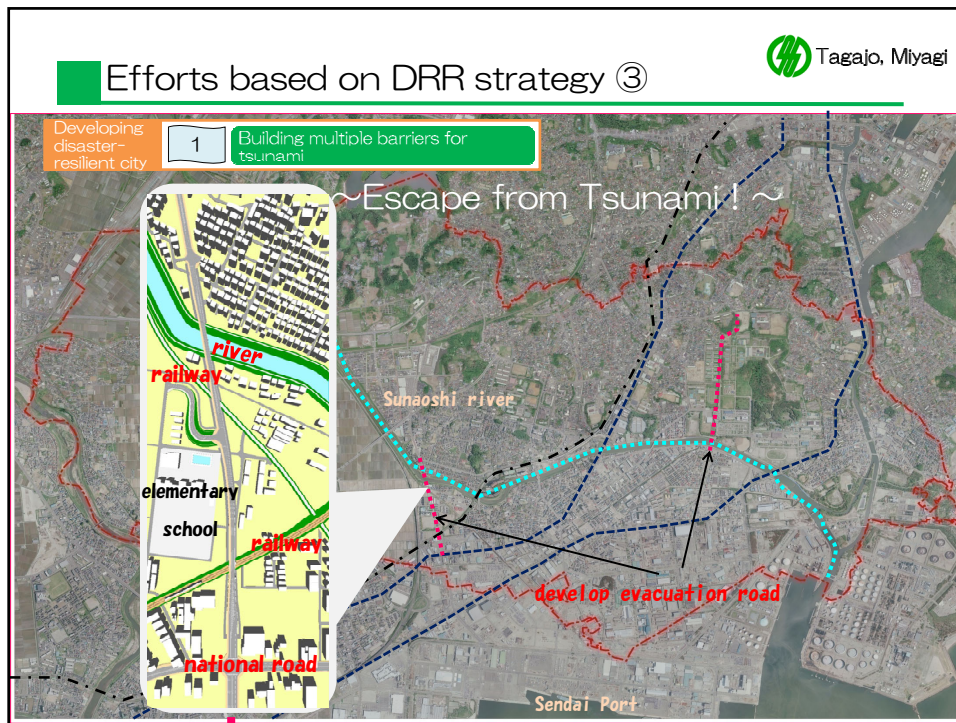
Strategy for DRR city Future plan



DRR city - Tagajo







Tagajo, Miyagi

【Disaster public housing in Sakuragi area Before construction】



【Disaster public housing in Sakuragi area Oct. 20, 2014】



【Features of Sakuragi area】

- Pilotis structure on the first floor
- Evacuation site & stockpile facility on the rooftop
- Support facility for the elderly & child care facility (also used as meeting places)
- Each second floor is connected by passageways to make meeting space

Tagajo, Miyagi

【Facilities in disaster public housing in Sakuragi area】



Sakuragi childcare center



Facility for the elderly

【Facility in disaster public housing in Sakuragi area】



Meeting space

Meeting place



【Facility in disaster public housing in Sakuragi area】

Passageways to connect each second floor



Tsunami evacuation stairs(east and west end of each building)



Public Housing

①Areas:

4 districts (Sakuragi, Tsurugaya, Niida, Miyauchi)

②Number of Houses:

532 houses

district	houses	Operational Situation (expenses)
1. Sakuragi	160	Completed (5.2 billion yen)
2. Tsurugaya	274	Completed (8.5 billion yen)
3. Niida	48	Completed (2 billion yen)
4. Miyauchi	50	Completed (1.9 billion yen)
Total	532	



【The commencement of construction work】

100%

※rate: $\frac{532 \text{ houses}}{532 \text{ houses}}$

【The completion of construction work】

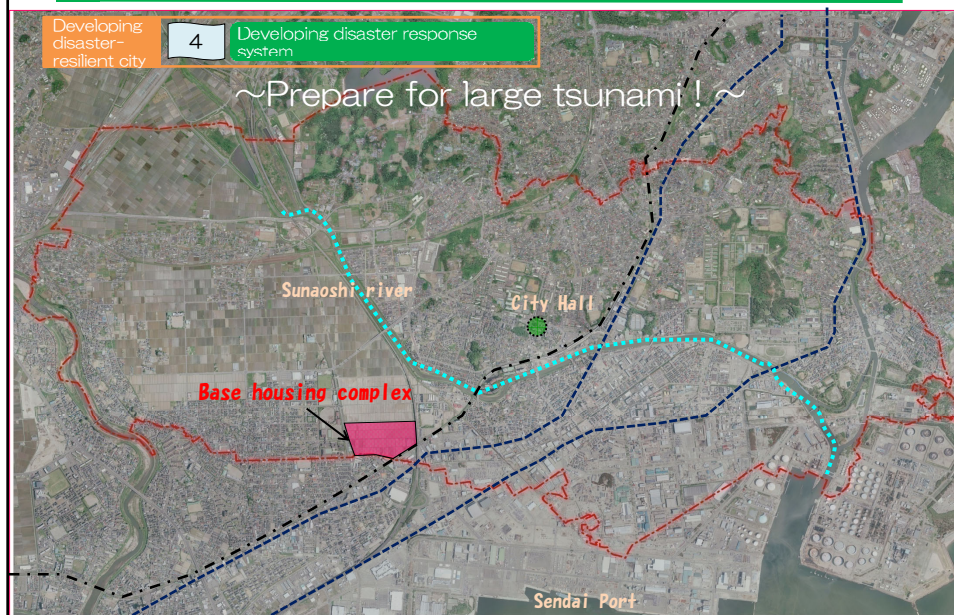
100%

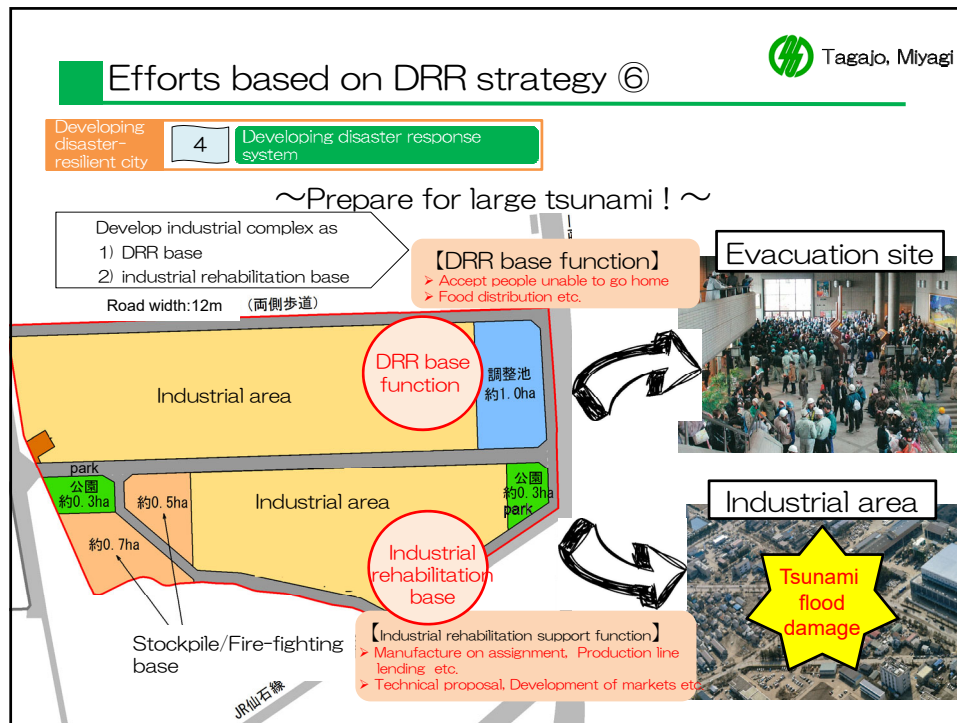
※rate: $\frac{532 \text{ houses}}{532 \text{ houses}}$



The Completion Ceremony
(December, 2016)

Efforts based on DRR strategy ⑤





Tagajo, Miyagi

Efforts based on DRR strategy ⑦

Increasing DRR capacity based on self and mutual help

5 Enhancing self-help ability

6 Strengthening community DRR capacity

～DRR Handbook : to prepare for disasters individually ! ～

Tagajo, Miyagi

Efforts based on DRR strategy ⑧

Increasing DRR capacity based on self and mutual help

5 Enhancing self-help ability

6 Strengthening community DRR capacity

～DRR Handbook : to prepare for disasters individually ! ～

Ch.1 Preparation to live

Ch.2 To save lives

Ch.3 To survive

Ch.4 To live through

Ch.5 To live better

To prepare for disasters in advance

To recover from disasters rapidly

disaster occur 10 hours 100 hours (4 days) 1000 hours (1.5-2 months) 10000 hours (1 year)

Efforts based on DRR strategy ⑨



Increasing
DRR capacity
based on self
and mutual
help

5

Enhancing self-help ability

6

Strengthening community DRR
capacity

~DRR Handbook : to prepare for disasters individually ! ~

Learn natural disaster threats and disaster preparedness in advance

[Chapter 1. Preparation to live](#) DRR life manual for daily life

~Know disasters and prepare for disasters~

[Chapter 2. To save lives](#) from disaster occurrence to 10 hours

~Save lives from disasters~

[Chapter 3. To survive](#) from 10 hours to 100 hours

~Survive severe living condition after a disaster strikes~

[Chapter 4. To Live through](#) from 100 hours to 1000 hours

~Live through severe condition better~

[Chapter 5. To live better](#) from 1000 hours to 10,000 hours

~Livelihood rehabilitation~

Efforts based on DRR strategy ⑩



Increasing
DRR capacity
based on self
and mutual
help

5

Enhancing self-help ability

6

Strengthening community DRR
capacity

~DRR Handbook : to prepare for disasters individually ! ~

Residents meeting with the Handbook



Effort based on DRR strategy^⑪

Increasing DRR capacity based on self and mutual help

5

Enhancing self-help ability

6

Strengthening community DRR capacity

Sharing disaster experience

7

Sharing disaster experience

Placing “tsunami indication board” by students of Tagajo High School



Efforts based on DRR strategy ^⑫

Tagajo, Miyagi

Increasing DRR capacity based on self and mutual help

5

Enhancing self-help ability

6

Strengthening community DRR capacity

Sharing disaster experience

7

Sharing disaster experience

Tagajo “ken-bun-oku” ~ utilize, disseminate and pass on ! ~

史都・多賀城 防災・減災アーカイブス

たがじょう 見聞 憶

伝えよう千年後の未来へ。

- Digital database: collect and reserve the records from the Tsunami and organize them systematically
- It is disclosed on the internet.
- Aiming to passing on records, experience and knowledge “to the next generation” without being forgotten.

Tagajo, Miyagi

Efforts based on DRR strategy ⑬

Increasing DRR capacity based on self and mutual help	5	Enhancing self-help ability
	6	Strengthening community DRR capacity
Sharing disaster experience	7	Sharing disaster experience

Tagajo “*ken-bun-oku*” ~ utilize, disseminate and pass on ! ~

見 ➤ *Ken*: What you saw and wrote down
digital image, video, document

聞 ➤ *Bun*: What you heard and want to talk
experience story, opinion, knowledge

憶 ➤ *Oku*: what you want to share and value
pass lessons on to the next generation

↓

Disaster risk reduction city - Tagajo

Tagajo, Miyagi

Efforts based on DRR strategy ⑭

Increasing DRR capacity based on self and mutual help	5	Enhancing self-help ability
	6	Strengthening community DRR capacity
Sharing disaster experience	7	Sharing disaster experience

Tagajo “*ken-bun-oku*” ~ utilize, disseminate and pass on ! ~



たがじょう 見聞憶

災害・復興 防災・減災アーカイブス

たがじょう 見聞憶

災害・復興 防災・減災アーカイブス

たがじょう 見聞憶

災害・復興 防災・減災アーカイブス

【Contents】

- Damage overview & emergency response
- Recovery and reconstruction from the disaster
- One story per person
- Damage caused by urban-type tsunami
- Reconstruction plan & project
- Efforts towards DRR city etc.

【Features】

- Video & photos over 20,000
- Experience stories, opinions & messages over 180
- Keywords, time information retrieval system

~ DRR measures ~ Comprehensive site with lots of guidance, hints, and ideas for DRR.

Efforts based on DRR strategy ⑮



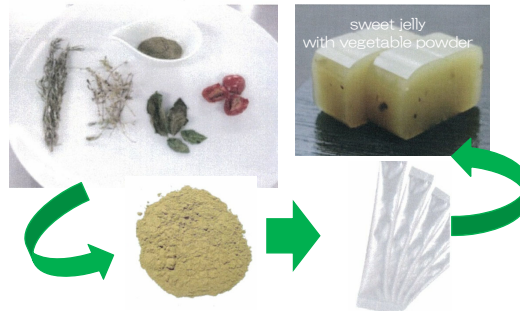
DRR
technology

8

DRR Research Park Program

~ New technology introduced after the Tsunami disaster ~

Most distributed foods were those with lots of carbohydrates...
→ concern about nutritional imbalance of children, pregnant women, etc



DRR measures

○ Develop & produce emergency foods with high nutrition value & stockpiles for emergency

Creation of the best cultural hub in the Tohoku region

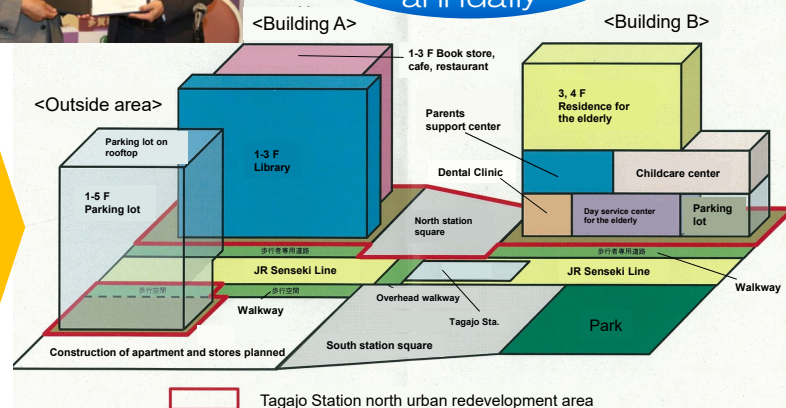


Collaboration between the city and Culture Convenience Club Co., Ltd. to create a "Place for people to come together"

1.2 million
people gather
annually

Combination
of public
services and
commercial
facilities

Creation of a
new cultural
hub



Creation of the best cultural hub in the 宮城県 多賀城市 Tohoku region



Features of Building B (4 floors)

- (1st floor) Dental clinic
Day service center for the elderly
- (2nd floor) Childcare center
Parents support center
- (3rd and 4th floor) Residence for the elderly



Features of Building A (3 floors)

- City library
- Tsutaya Books
- Restaurant
- Cafe
- Convenience store



多賀城市 市花アヤメ



Thank you for your attention
We are steadily moving forward thanks to your support and cooperation

We will be built back better as “DRR City-Tagajo”!

We appreciate your continuous support