



Creating “FutureCities” to invigorate localities
Masashi Mori, Mayor of Toyama City

<Current state of regional cities and the challenges they face>

Population decline, super aging, increased CO₂ emissions, fiscal austerity, growing administrative costs such as maintenance and management costs, etc.

Toyama presents one vision for the future regional city that will meet these challenges

1. Compact city building centering on public transport

Revitalization of public transport, concentration of urban functions in the city center and along public transport routes

2. An appealing, high quality lifestyle for the community

Creating a walkable city, lifestyles with a high degree of culture, creating opportunities for senior citizens to be active outside the home, fostering social capital

3. Promotion of industries that make use of local assets

Maximum use of Toyama's pharmaceutical industry, use of renewable energy, attraction of enterprises, creation of new industries



***By creating sustainable cities,
achieve cities “where everyone wants to live” and “everyone has vitality”***

Revitalize railways and other public transport networks and concentrate urban functions, such as housing, commerce, work and cultural facilities, along their routes, to **build a compact city centered on public transport hubs**

Conceptual Drawing

Toyoma’s Aim of “Ball-and-Chain” Urban Structure

Chain: Public transportation above a certain service level

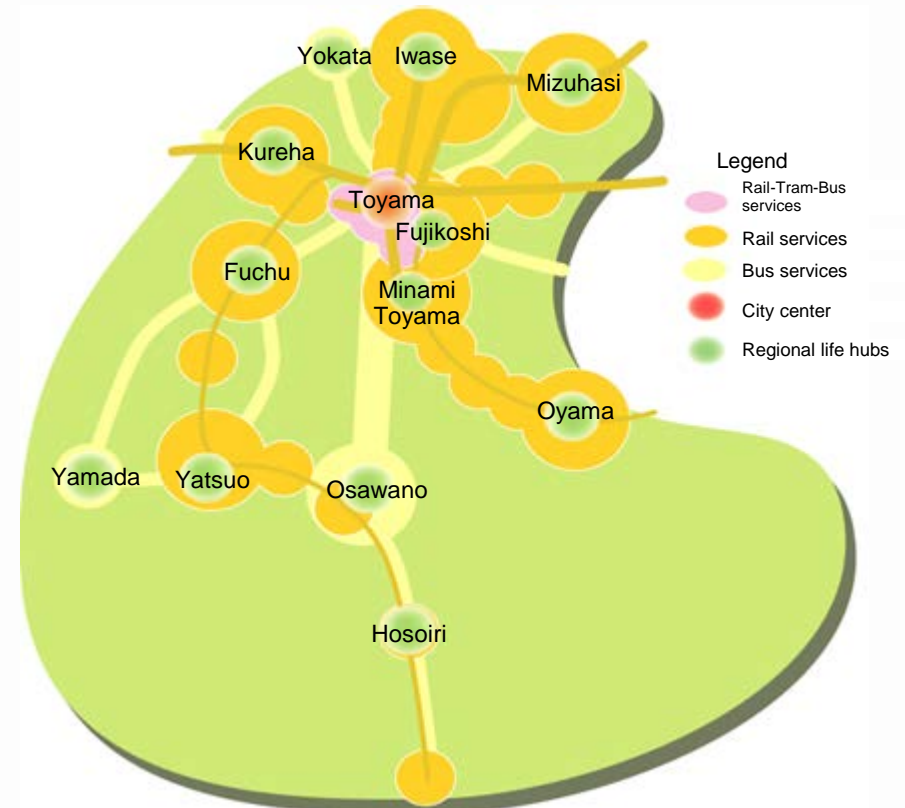
Balls: Walkable areas connected by public transport

Three Pillars Need to Achieve This Aim

(1) Revitalization of public transport

(2) Promotion of housing in areas along public transport routes

(3) Revitalization of city center



Revitalization of Public Transport – Establishment of LRT Network

Through the establishment of a LRT network, effect change to lifestyle patterns that are over-dependent on cars, and create a walkable city.



City tram loop line (opened Dec 2009)



Extension of city tram lines to under elevated Shinkansen tracks (Shinkansen service launched Mar 2015)



Toyama Light Rail (opened Apr 2016)



City Tram



Revitalization of Public Transport – Connection of northern and southern tram services

With the launch of the **Hokuriku Shinkansen**, the northern and southern city tram services will be **connected** under the elevated railway tracks at Toyama Station.

2013

- Rail Transport Advancement Plan approved
- Southern tram tracks built under elevated Shinkansen tracks



2015

- **Hokuriku Shinkansen commences service (3/14/2015)**
- Southern tram starts service from under elevated Shinkansen tracks (new tram stop under Shinkansen tracks)



Scheduled for end of FY2019

- Northern tram to start service from under elevated conventional railway tracks (**North-south connection realized**)

▲ Tram departs from Toyama Station's South Exit

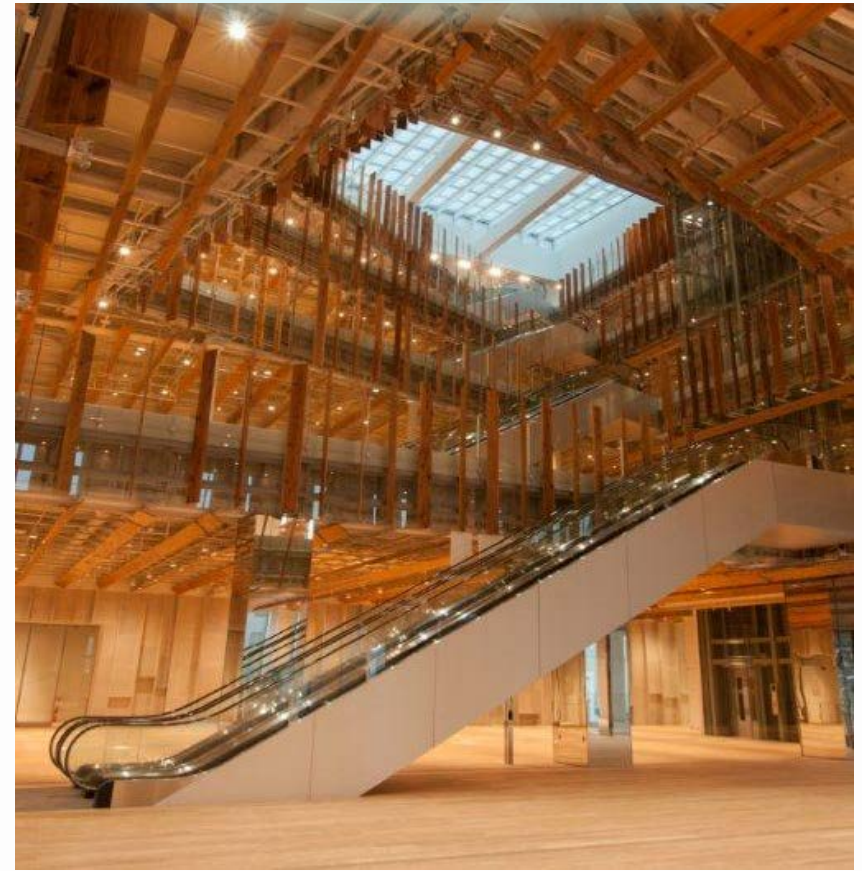
Revitalization of City Center – Toyama Glass Art Museum and Library Complex

Development of a complex in the city center to house the Glass Art Museum, Municipal Library, etc. The Art Museum exhibits the glass art of American National Living Treasure, **Dale Chihuly**.

Façade is open to the town, projecting delicate shadows and a sense of transparency



Spiral passage emanates a sense of warmth through the use of locally grown timbers and other natural materials



Promotion of compact city building and **maintenance and revitalization of farming villages and mountain villages**



(1) Train and secure people to work in agriculture



(2) Promote high value-added agriculture in hilly and mountainous areas

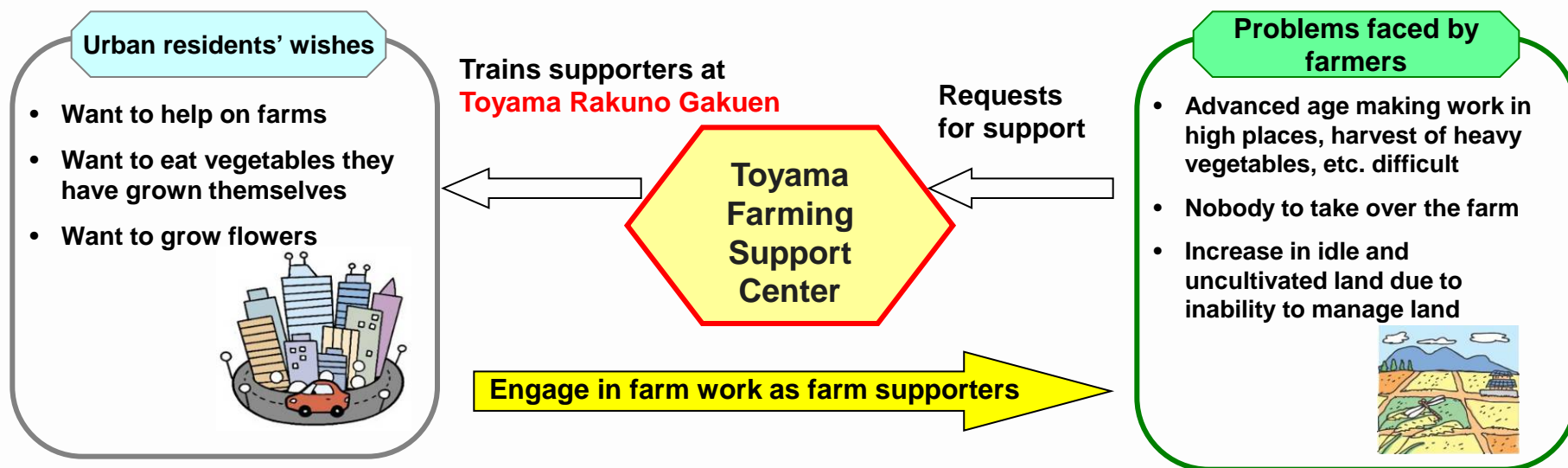


Overview of Toyama Rakuno Gakuen (center for learning agricultural skills)

To increase the sustainability of agriculture, a “farming support” scheme was established as a mechanism to connect farmers, who are getting older and have nobody to take over the farm for them, with non-farmers who wish to be involved in farming as farm supporters.

The **Toyama Farming Support Center** was established as the hub for such activities in 2008. The Center trains farm supporters through lectures and practical training at the **Toyama Rakuno Gakuen**, equipping enthusiastic non-farmers and senior citizens with farming skills.

Role of Farming Support Center



Established **Toyama Rakuno Gakuen** to increase non-farmers' knowledge of cultivation of farm produce through lectures and practical training, and to train people to engage in farming as support for farmers.

<Farming Skills Acquisition Support>

As of April 2015

Farming 101 Course

Builds skills through practical activities for people considering starting a farm or existing farmers planning to introduce different crops.

Lectures for corporates entering agriculture

<Held twice a year>

Assists corporates to acquire the basic knowledge needed to enter the agricultural industry

Farm Supporter Course

<2 year course>

- Vegetables
- Orchards
- Flowers

<1 year course>

- Rice paddies

Home Gardening

<1-year course>

Step-up courses and family courses, with a focus on growing vegetables



616 “graduates”
(as of end of FY2014)

577 registered farm supporters
(as of end of FY2014)

Farm support provided by a total of 2,442 people
(as of end of FY2014)

Promotion of high value-added agriculture in hilly and mountainous areas

– Perilla project

Starting with the production of perilla leaves at a plant factory and production of perilla seeds and oil through open-field cultivation on abandoned fields, etc., the **high value-added farming of perilla** will be promoted in an integrated manner, with the aim of **revitalizing the regional economy and creating jobs**, while also promoting healthier, longer lives through the consumption of perilla.

Perilla leaves

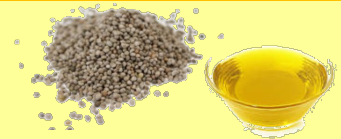


Plant factory using hot spring heat, etc.

- Cultivation using heat from hot springs, solar power generation, LED lighting, etc.
- Use of hydroponics to produce safe and reliable perilla



Perilla seeds and oil



Expansion of open-field cultivation

- Use of abandoned fields, etc. to grow perilla, to expand production of perilla oil



Integrated promotion of high value-added farming
(production, processing, distribution/sales, etc.)



Turn into health supplements at soft capsule factory

School and hospital meals

Cakes, biscuits and sweets containing perilla

Juice with added perilla



Promotion of high value-added agriculture in hilly and mountainous areas

– Effective use of energy from waste products

Make effective use of energy generated from the region's waste for agricultural production

