

8th East Asia Summit High-Level Seminar ON SUSTAINABLE CITIES

Sustainable Transportation and Metropolitan Regions

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RESILIENT CITY TOYAMA

Toyama City

- Toyama is the capital city of Toyama Prefecture. Located at the center of the prefecture, it has been designated one of Japan's "Core Cities" and is a leading city on the Sea of Japan.
- Toyama's topography varies from 0m at sea level to 3,000m at the crest of the Japan Alps.
- The population is about 420,000. The total area is about 1,240 km² (479 sq miles).
- Major industries include High Tech, Pharmaceuticals, Robotics, Banking and Hydroelectric Power.
- The National Government has designated Toyama an "Environmental Future City" and "Environmental Model City" and it is the only Japanese city selected for the United Nations SE4ALL initiative and the only Japanese city selected by the Rockefeller 100 Resilient Cities program.

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Toyama: Shocks and Stresses

Shocks

- Flooding
- Land slides
- Earthquakes
- Infrastructure Failure

Stresses

- Aging & Declining Population
- Aging Infrastructure
- Lack of Economic Resilience
- Environmental Degradation
- Education deficiencies

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Aging Demographics, Increasing Costs, Decreasing Revenue

Declining Young and Increasing Elderly: Changes in Population Percentage

Year	0-14 years old (%)	15-64 years old (%)	65 years old and above (%)
1995	15	68	16
2000	14	67	19
2005	14	65	21
2010	13	62	25
2015	12	59	29
2020	11	58	31
2025	10	58	32
2030	9	58	33
2035	9	56	35
2040	9	53	38
2045	9	51	40

Expenditures for Long-Term Care (100 million yen)

Year	Expenditure (100 million yen)
2006	245
2007	257
2008	270
2009	287
2010	300
2011	313
2012	331

Projected National Government Tax Allocations (100 million yen)

Year	Allocation (100 million yen)
2013	184
2014	176
2015	170
2016	164
2017	158
2018	152
2019	146
2020	140
2021	135

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Steps to Creating a Compact City of the Future

Our goal, first announced in 2007, is to create a sustainable, compact future city which addresses the needs of our decreasing and aging society.

Three Pillars of Toyama's Compact City Strategy

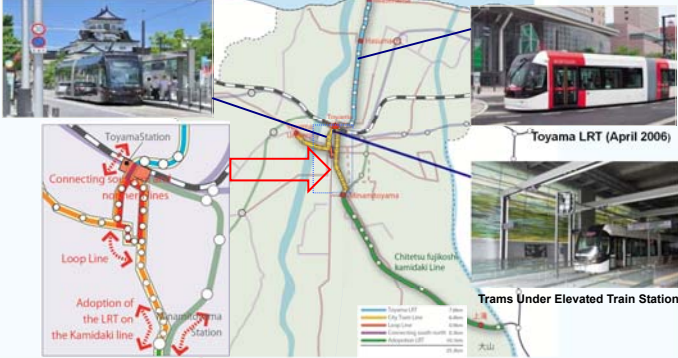
1. Revitalizing public transport
2. Encouraging residents and business to relocate to zones along public transport lines and building city cultural facilities along these lines.
3. Revitalizing the city center

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Revitalizing Public Transport – Japan’s First LRT Network

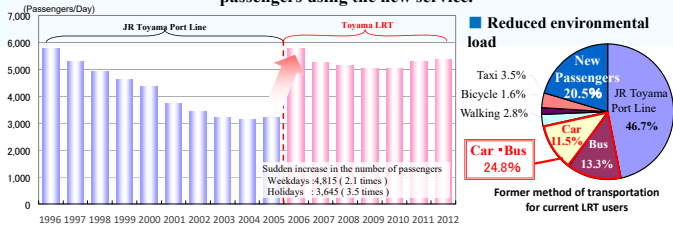
Beginning with Japan’s first complete LRT network, we are modifying the current life style of over dependence on automobiles to create a town with **every city amenity within walking distance.**

Loop Line (Dec. 2009)



Passenger Use Results for Toyama LRT

Weekdays: 2.1 times as many passengers as before; **Weekends: 3.5 times** as many passengers using the new service.



Increase in daytime use by senior citizens – A lifestyle change



Connecting the Bullet Train with North & South Loop Trams

The new shinkansen “bullet train” station was elevated so tram lines can connect below the trains.



City Center and Public Transportation Residence Zones

Residence Encouragement Zones

- City Center Zone**
 - 436 hectares in the urban core of the city
- Public Transportation Line Zones**
 - 3,387 hectares
 - Rail and tram line zones are within a 500 meter radius of rail and tram lines
 - Bus stop zones are within a 300 meter radius of bus stops

In 2015, 32% of the population is living in the residence encouragement zones, a 4% increase over 2005.

