Urban policies for aging cities

Kengo Ochi

Director, City Planning Survey And Information Office, City Planning Division, City Bureau, Ministry of Land, Infrastructure, Transport and Tourism



Ministry of Land, Infrastructure, Transport and Tourism

Working Toward "Network-based Compact City"



Based on the Act on Special Measures concerning Urban Reconstruction and Act on Revitalization and Rehabilitation of Local Public Transportation Systems amended in 2014, the local municipalities are expected to guide houses and community amenities into key areas and to develop a sustainable local public transportation network which connects these areas, while taking the entire city structure into account.
 In order to encourage the municipalities to guide community amenities into designated districts, the Japanese Government provides incentives such as budgetary support for creating and implementing such plans.



Coordination with welfare and medical policies and measures



Integrated community care system

Re-examination of medical and care structure in the region Aims to provide a **integrated community care system** that integrates medical, care, preventative, residential, and life support, by 2025 (Necessary services will be provided within a range of 30 minutes in spheres of everyday life)

Healthy Japan 21 (Phase 2) 2013-

Comprehensive promotion of improvement of citizens' health

Through <u>improved</u> daily life habits and <u>social environment</u>, development of a society where citizens from all walks of life can support one another and live healthy.



Compact City development, where <u>daily life services such as medical and care facilities are easily accessible</u>, is critical.

In May 2013, MLIT established the "Health, medical, welfare, and urban development research group" consisting of academia, local governments, the Cabinet, and the Ministry of Health, Labor, and Welfare, and developed the "The guideline for promoting urban development integrated with Health, medical and welfare"

Guidelines to promote integrated urban renewal with health, medical and welfare services



O"Guidelines to promote integrated urban renewal with health, medical and welfare services" was developed to promote an urban policy that reflects the health, medical and welfare perspectives in the future, including the integrated development of a regional comprehensive care system and urban renewal (August, 2014).

Outline of "Guidelines to promote integrated urban renewal with health, medical and welfare Services" (August, 2014, The Ministry of Land, Infrastructure, Transport and Tourism city bureau)

Direction to aim for

- Urban renewal for most citizens to live more actively and independently while receiving community support when necessary
- Promote compact city policy to plan comprehensively to improve the public transportation network and pedestrian space, and ensure the necessary functions of daily life
- Shifting the direction towards necessary projects and policies from the health, medical and welfare fields' point of view is important in urban policy development.

O Promotion measures

- Cross-sectional development of organizational structure centered around a leader
- Cooperation among road management, traffic management, transportation service providers, NPOs. and new communities

Nelfar Dep. Leader Dep.

O Necessary 5 actions

- 1. Raise health awareness of exercising regularly among citizens
- 2. Increase the number of participants to community activities to stimulate community activities that support the local community
- 3. Systematically install urban functions in urban and walking-distant areas

- Install pedestrian areas that encourage walking 4.
- 5. Improve the public transportation environment

O Assessment

Self-analysis/evaluation
(assessment) by a city is
effective to develop
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immediate attention, and
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relevant parties
-

Assessment index of integrated urban renewal with health, medical and welfare service (example)

Self-analysis/evaluation (assessment) by a city is effective to develop policies that require immediate attention, and raise awareness among relevant parties	Index example	Assessment point	Index	Data	National average
	Index to assess basic conditions of a city	Current conditions and geometry of urban area	Scale of downsizing of urban area	DID area ratio DID population ratio	3.4% 67.3%
		Life and health conditions of the elderly	Level of aging in an area	Proportion of the population aged 65 and over	22.8%
			Healthy life expectancy	Healthy life expectancy	Male 70.4 old Female 73.6 old
	Index to assess measures taken	Health awareness among citizens, Exercise habit	Health awareness	Proportion of the population with healthy habits	39.4%
Prioritize and combine		Pedestrian areas that encourage walking	Pedestrian area ratio	Proportion of roads with sidewalks Proportion of roads with greenery	14.3% 9.7%
among 5 actions based on the assessment		Public transportation environment	Public transportation service standards	Proportion of residential areas with convenient public transportation	67.0%

O Assess the effects of and improve the actions

Check the status regularly and				
<u>continuously</u> to improve				
necessary actions taken in				
cooperation with citizen and local				
community				
[Example of effective action]				
(Reducing annual healthcare cost)				
= The number of residents whose walking				
× Increase of the number of steps a day				
× 0.061 yen/step × 365 days				
(Reference: Tsukuba University, Kuno Laboratory)				

Effects of compact city policy ... Improvement of health



- OThe more centralized a city is, and the shorter the distance from residential areas to the city center is, the more residents go out on foot or using public transportation to enjoy their lives.
- ⇒Compact city policy is expected to increase the opportunities for the elderly to go out and for the residents to walk a longer distance; therefore, increase healthier citizens and reduce healthcare costs.







 $\binom{(\%)}{85}$ Proportion of the elderly who goes outside (%)



 Walking distance per person per day when traveling from point A to point B (step per person per day)



Reference: Created by the MLIT based on "2010 National Travel Survey", "Walking distance survey for health improvement and application to the analysis of characteristics of each group (Taniguchi PhD. of Tsukuba University, etc.)" * Of the cities under the National Travel Survey in 2010, travel data of the population aged 20 and over in 69 cities containing DID was used for the analysis.

Comparison of the number of steps in large cities and small cities



OAs a benchmark for urban renewal, "<u>Guidelines for walking distance (number of steps) survey</u>" was developed to understand the health improving effects. (Released on March 2017)

OThe intensity of effects on healthcare cost-saving by walking was calculated based on previous researches. (<u>Healthcare cost-saving effects per step per day: 0.065-0.072 yen</u>) 4

Compact city project in Komoro City



Komoro City's issues

Decrease/Aging of population, Decrease of working population

- In 2000: approx. 46,000 pp.⇒In 2025: approx. 36,000 pp. (Estimate) (approx. 22% decrease)
- Population in DID also keeps declining.



Decline of the city center

ONagano Shinkansen line opened. (1997)

- ⇒Shin'etsu Main Line became a third sector company. Express train to Toyo was canceled.
- ⇒Komoro station users declined by approx. 500K. [approx. 2.2 million (2000)⇒approx. 1.7 million (2012)]
- OCommercial facilities (Shinshu Jusco, Komoro Tokyu, etc.) closed or moved to suburbs.
- OVacant stores increased.



▲Komoro Station front Closing of Nagano Shinkansen line drastically decreased the number of users.

Susco, Komoro Tokyu, etc.) No. of vacant stores on Komoro Station shopping street: 8 (2002)⇒19(2015)



▲ Current city center

Aging of General Hospital/City Hall

- OKomoro General Hospital has deteriorated and is planned to be merged into an advanced medical hospital in the neighboring city.
- ⇒The residents want it to remain open as the healthcare base of the region.
- OCity Hall has deteriorated (Collapse under intensity 6 and higher)
- ⇒Immediate need for maintenance of the buildings to be used as the disaster prevention base.





Komoro City Hall (built in 1964)

Komoro General Hospital (built in 1960)

Declines in public transportation

ODecrease in the number of community bus users [100K pp. (2009)⇒ 84K pp. (2013)] OInefficient operation not suited to the user needs OIncrease of subsidy (to cover deficit) to the operating companies



Build a new public transportation network in the region and a compact city

Centralizing urban functions in the city center General Hospital is relocated City Hall **Completed in** General from the suburb to next to City July 2015 Hospital Hall/Library in the city center, 246 beds Chamber of creating a base for the City. general hospital Commerce \Rightarrow Vitalize the city center and Library **Community Space** Parking the community Sharing energy among other Park facilities Parking Komoro City Hall and General Hospital: Solely receive power; Komor Share surplus energy Station 2)



Background behind the shift to the downsizing policy

OVarious issues stemming from the rapid decline and aging of the population have become visible. OTo tackle these issues, Japan's urban policies have been shifted drastically to the "Centralized Urban Structure" which ensures sustainability of cities by downsizing decentralized urban areas, and is centered around the regulatory measures imposed on development projects in suburbs.				
 1997.6 "How to develop future urban policies" (Interim report by the Central City Planning Council, Basic Policy Subcommittee) OShift from "urbanized society" to "urban life society" OShift from "measures against urban expansion" to "urban reconstruction" focusing on city centers 	Take population decline into account and review the premise that cities will expand Clue to shift the focus from outside-of-city to inside-of-city			
2003.12 "Urban redevelopment vision" (Report by the Panel on Infrastructure Development) OShift from "decentralized urban structure" to "centralized/renovated urban life structure" OImprove the use density of old factory sites and other lands that were divided during the bubble years, and centralize urban functions to downsize urban areas	 Immediate need to tackle the imminent population decline Positioning "compact city" as the basic direction in urban policy 			
 2006.2 "How to develop urban planning in a new era (1st report)" (Report by the Panel on Infrastructure Development) ODecentralized urban functions and hollowing of city centers ⇒Decrease service efficiency, increase car use, increase environmental impact, etc. OBy creating "centralized urban life structure", ensure sustainable development of cities 	 <u>3 regulations to be reviewed in urban</u> renewal [2006] Location restrictions for commercial facilities attracting large number of users Extending development permit to public/ public interest facilities such as hospitals 			
 2007.7 "How to develop urban planning in a new era (2nd report)" (Report by the Panel on Infrastructure Development) OStrategic actions towards centralized urban life structure Comprehensive actions in cooperation with various bodies and policies Coordinated actions with urban transportation policies and urban development projects The importance of public transportation to realize centralized urban life structure 2012.9 "Future development of systems relating to urban planning" 	The idea of "centralized urban life structure" emerged as a desirable urban area			
(Interim report by the Urban Planning System Subcommittee) OEnergy restriction, etc. to meet the change in energy demand and supply following the 2011 Tōhoku earthquake and tsunami ⇒Important issue: Building low carbon/recycling society through "centralized urban life structure" 2013.7 Interim report by the Urban Renewal Strategy Review Panel	Regulations that promote low carbon city (Eco-machi regulation) Established [2012] • Support municipal government's effort to decrease CO2 in city			
 ORenovation of urban structures is necessary for comfortable life and energetic economic activities. > Local cities: Concentrate residential areas and Relocate urban functions that support life and economy. > Metropolis: Provide efficient medical/welfare service; urban renewal which allows the elderly to live healthy lives 	The Act on Special Measures ConcerningUrban Regeneration amended [2014]• promote compact cities by creating the location optimization plan			