Agenda for Urban Farmland Conservation and Green Infrastructure Development in a Sprawled Suburban City in Tokyo, Japan

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Nishitokyo City Land Use | Residential and Agricultural Mix

Farmlands remain as a result of scattered urban developments on former agricultural area
Most of the farmlands are cultivated by professional farmers

Farmlands are gradually transformed to residential area by "mini-developments"
High inheritance tax forces property owners to sell a part of their properties

Farmlands are transformed to other land uses when farmers die and properties are inherited to younger generations.
Nishitokyo City Land Use Zoning and Farmlands

Re-Evaluation of Scattered Urban Farmlands

- Urban planners used consider the scattered urban farmlands as a failure of modern urban planning
- Recently, there are views to re-evaluate the situation in a positive way
- Farmlands close in residential areas offer various benefits to urban dwellers
- Intensive discussion in Nishitokyo City Planning Committee

Nishitokyo City Planning Committee

- Advisory committee to the city mayor on urban planning issues
- Zoning change, district vision and plan, designation and removal of Productive Green Zones (PGZ)
- Usually procedural and not innovative
- Protection of PGZ and other farmlands is a big issue
  - Working group to propose innovative ideas to balance farmland conservation and housing development
  - Murayama as chair of the working group
  - Almost no budget! > collaboration with university studio works

Nishitokyo Studio 2017

Shaping Ecdistricts in the Tokyo Suburbs

Urban Farmland and Green Space Conservation in the Regeneration of Sprawled Urban Areas

Nishitokyo Studio 2017

Shaping Ecdistricts in the Tokyo Suburbs

Urban Farmland and Green Space Conservation in the Regeneration of Sprawled Urban Areas

City Planning Committee

- Academics (Urban Planning)
- Agricultural Industry
- Retailers
- Police / Fire Departments
- Community Leaders
- Volunteer Citizens
- City Council Members

Productive Green Zones (PGZ): Urban farmlands mostly protected by 2022
Proposal to the City Mayor on Urban Farmland Conservation and Value Creation

1. Current conditions of urban farmland and urban farming
   - Decrease of urban farmlands and progress of land use transformation
   - Release of Productive Green Zones (PGZs) and “2022 problem” when the 30 years designation of PGZs will expire
   - Condition of farming and real estate management of the farming families: they rely on real estate businesses (sale or rental of their lands/buildings) for their income
   - Communications (including conflicts) between urban farmers and dwellers
   - Collaboration with park and green space measures in the city government

2. Benefits of urban farmlands
   - Conservation of cultural landscape
   - Promotion of citizens' health through fresh foods and recreational/educational opportunities
   - Enhancement of ecosystem services such as climate mitigation, flood prevention and disaster risk reduction
   - Development of alternative food system

3. Measures for urban farmland conservation
   - Connecting housing development and urban farmland conservation
   - Visioning of a new residential and agricultural mixed urban space
   - Promoting communication between farmers and non-farmers
   - Creating a business model for farmers and farmland owners

4. Model projects and programs
   - Construction of various model housing with private farmlands (detached houses, townhouses and apartments)
   - Introduction of rental farmlands to residents of local communities and remote urban areas
   - Renovation of factories and warehouses with rooftop farmlands and organic restaurants
   - Promotion of agri-lifestyle
   - Support for young entrepreneurs
   - Establishment of district-scale management organizations

Publicizing the Proposal on Urban Farmland Conservation

The proposed agenda was formalized as a proposal to Nishitokyo City mayor from the city’s urban planning committee and is expected to change the existing planning policies and introduce new projects and programs associated with urban farmland conservation and green infrastructure development.

Claudia Cassatella and Akito Murayama eds (2018): http://hdl.handle.net/11583/2712031