

東京大学 + トリノ工科大学
演習成果発表

Shaping Ecodistricts in
Nishi-Tokyo

東京大学大学院 工学系研究科 都市工学専攻 修士課程2年

栗本 開

1. 現状分析
2. 提案（市スケール）
3. 詳細設計 住吉町
4. 詳細設計 向台町



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1. 現状分析

2. 提案 (市スケール)

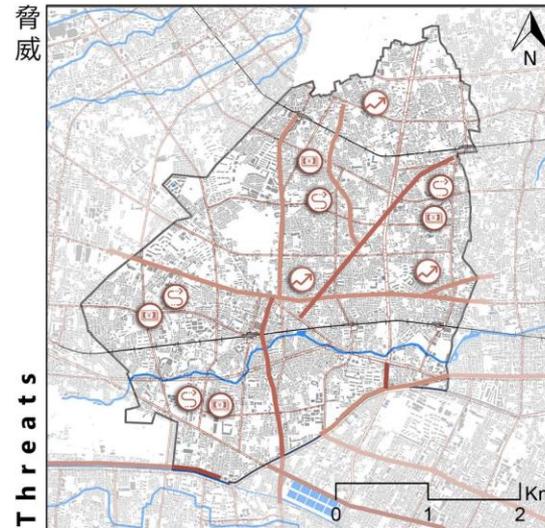
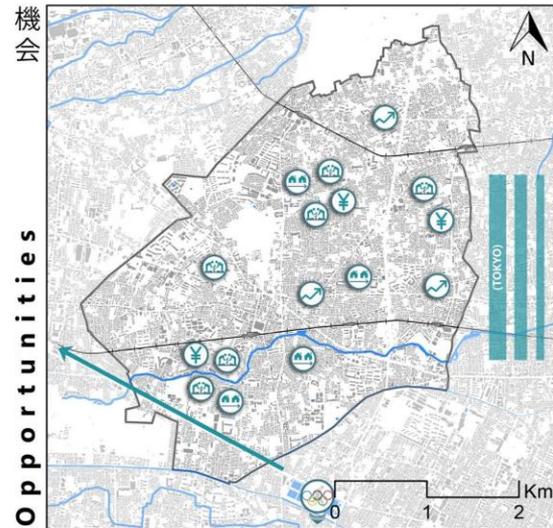
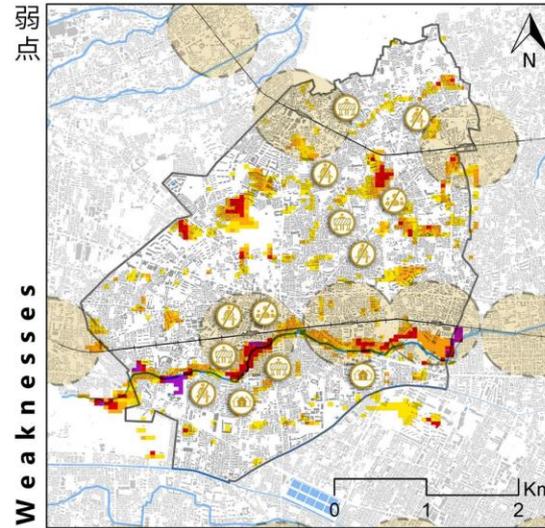
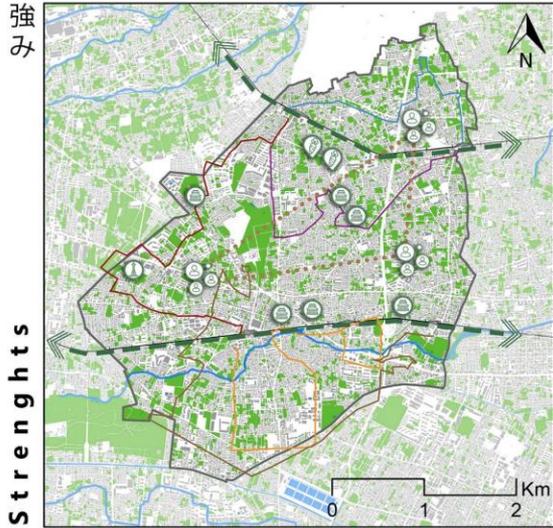
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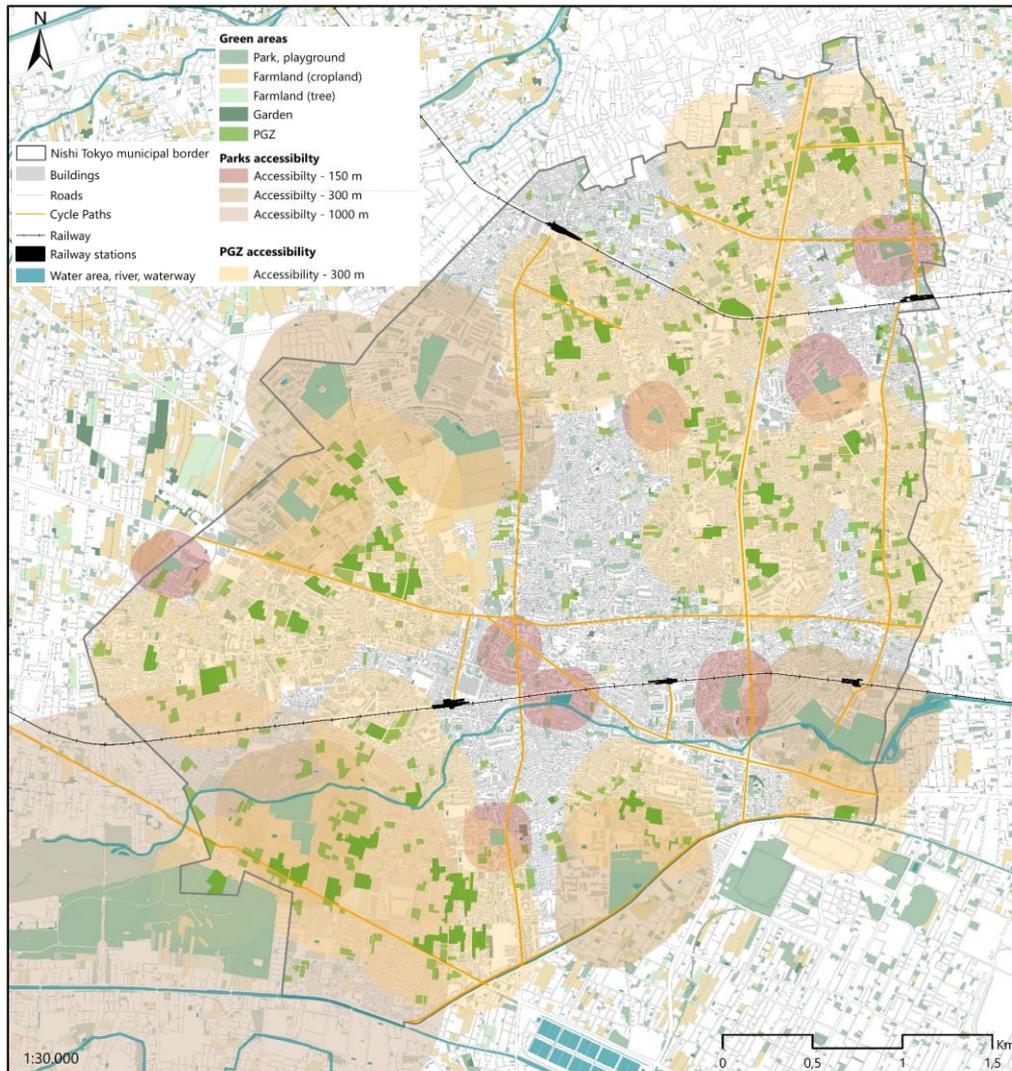


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現状分析



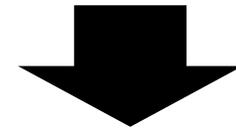
現状分析：西東京市のみどり



西東京市に公園が少ない...
(1.28m²/人)

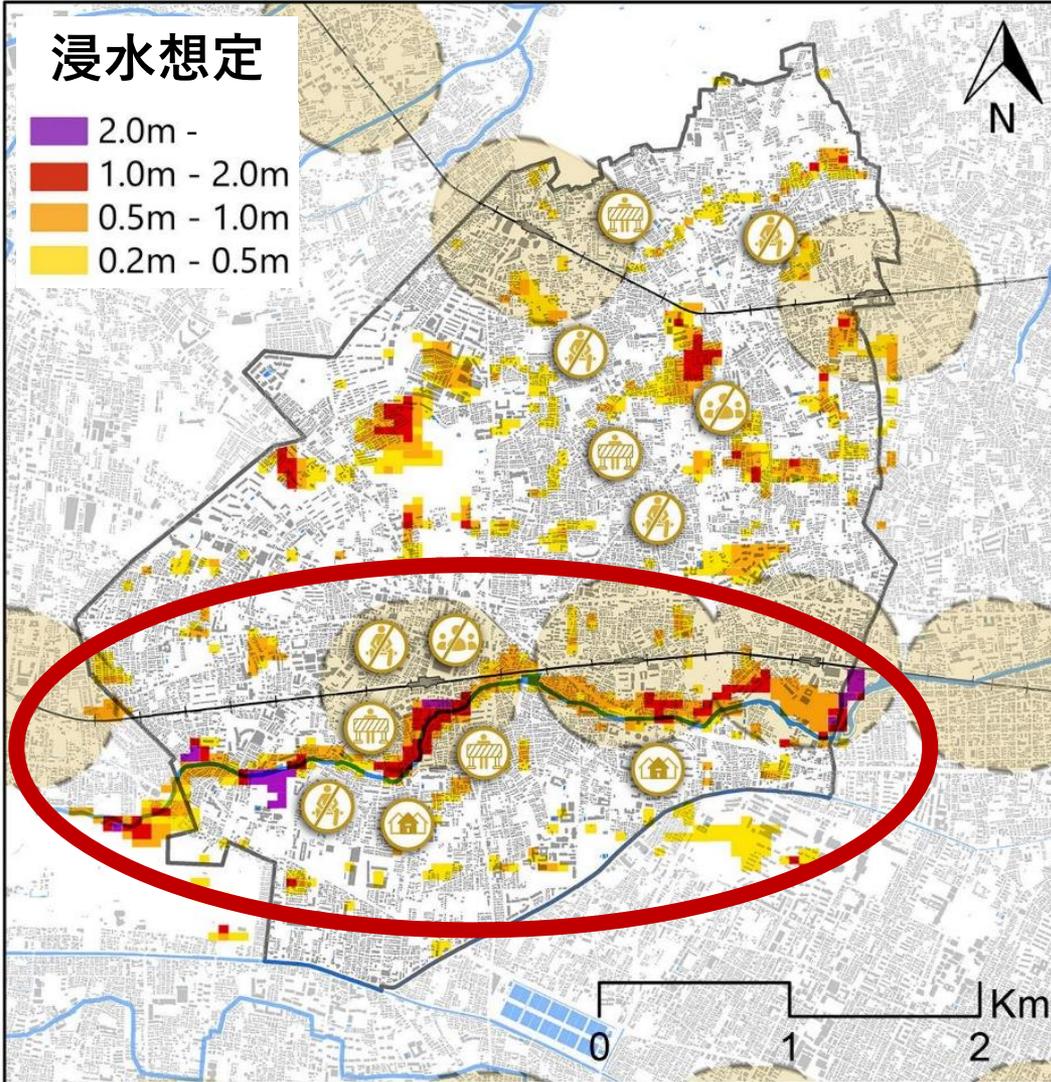
しかし

西東京市には農地が多い！
(7.97m²/人)



農地を活かした
まちづくりを！

現状分析：西東京市の災害脆弱性



石神井川沿いに
浸水危険区域 (東京都推定)



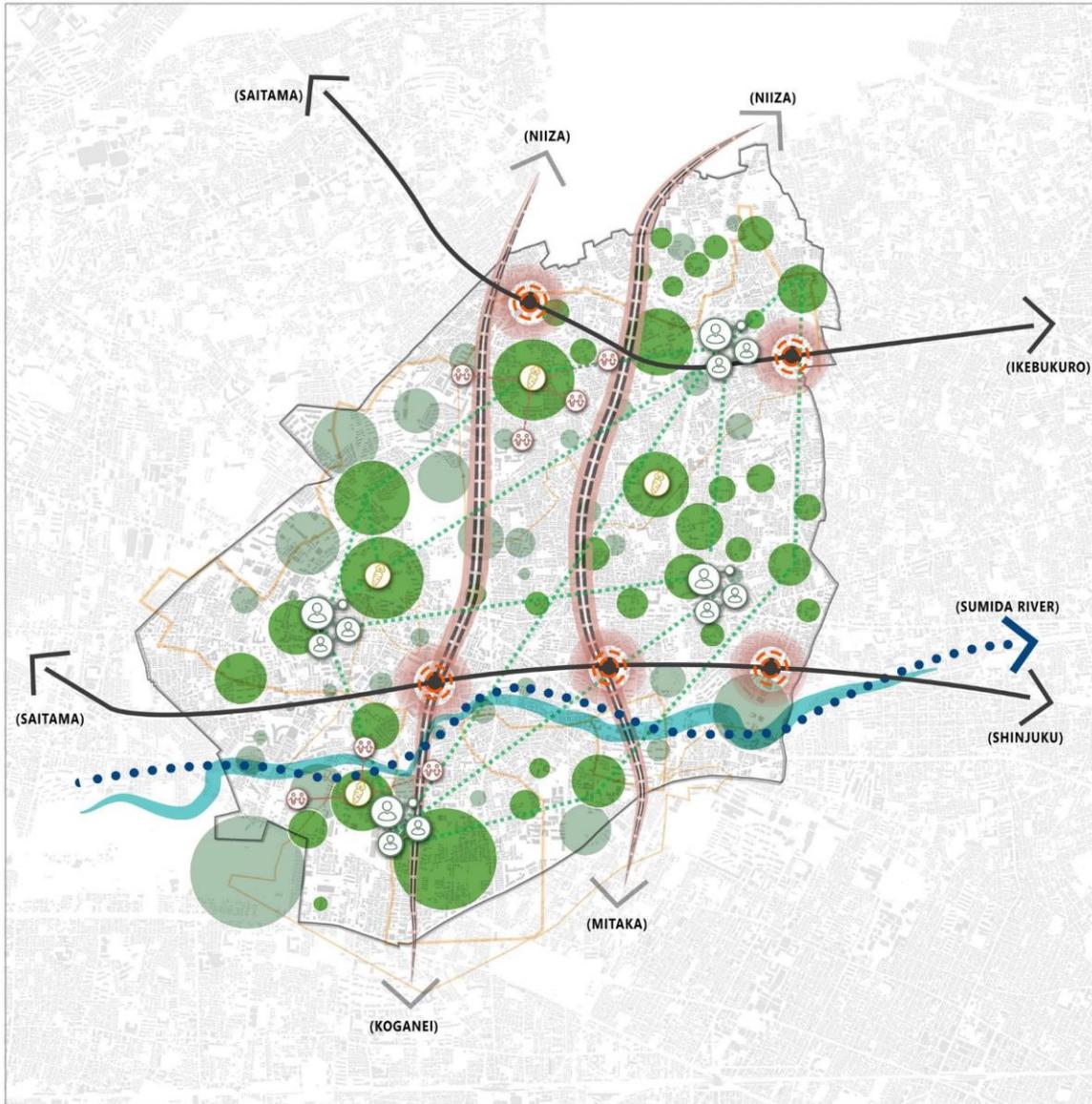
気候変動に対応した
災害に強い
まちづくりを！

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提案：7つの重点戦略



- 1. IMPROVE THE REGIONAL TRANSPORTATION INFRASTRUCTURE:**
交通環境の改善
 - 1.1 Prioritize regional expressways
 - 1.2 Improve regional road network
 - 1.3 Promote intermodal transportation
 - 1.4 Improve road safety with pedestrian paths
 - 1.5 Expand and integrate bicycle network
- 2. ESTABLISH CENTERS THAT INCREASE ECONOMIC VITALITY:**
地域商業核の形成
 - 2.1 Promote local commercial centers
 - 2.2 Save and promote productive green zones using TDR bank
 - 2.3 Densify developed zones using TDR bank
- 3. A LOW-CARBON SOCIETY:**
低炭素社会の実現
 - 3.1 Promote energy efficiency
 - 3.2 Promote sustainable, dense, low-energy housing
- 4. BLUE AND GREEN INFRASTRUCTURE:**
みどり・水との共生
 - 4.1 Promote and diversify ecological technologies
 - 4.2 Re-organize new network between green areas
- 5. CREATE ATTRACTIVE URBAN SPACES:**
魅力的な都市空間の形成
 - 5.1 Promote development of services, housing, and facilities
 - 5.2 Improve urban environment
 - 5.3 Promote local residential
- 6. CREATE A HIGHLY SAFE, DISASTER-RESILIENT CITY:**
災害に強いまちの実現
 - 6.1 Increase land capable of rainwater infiltration and acquire a water storage facility
 - 6.2 Reclaim land as green space and return river to natural flow
 - 6.3 Rebuild structures for earthquake resilience
 - 6.4 Promote of housing stock renewal to fireproof buildings
- 7. SOCIALLY INTEGRATED URBAN SPACES:**
多主体が共生する社会の実現
 - 7.1 Foster community and social integration
 - 7.2 Promote social integration of green zones and housing
 - 7.3 Create inclusive spaces (ex: community farming)

提案：7つの重点戦略とその達成のための連携

1. IMPROVE THE REGIONAL TRANSPORTATION INFRASTRUCTURE:

- ⇒ 1.1 Prioritize intermodal connections
- 1.2 Improve regional transportation infrastructure
- 1.3 Promote intermodal transportation
- 1.4 Improve road safety with pedestrian paths
- ← 1.5 Expand and integrate bicycle network

交通環境の改善



Transportation & Green Spaces

2. ESTABLISH CENTERS THAT INCREASE ECONOMIC VITALITY:

- ② 2.1 Promote economic vitality
- 2.2 Save and promote productive green zones using TDR bank
- ② 2.3 Density developed zones using TDR bank

地域商業核の形成



Land Use, Agriculture & Green Spaces

3. A LOW-CARBON SOCIETY:

- ② 3.1 Promote sustainable, dense, low-energy housing
- ② 3.2 Promote sustainable, dense, low-energy housing

低炭素社会の実現



Transportation & Green Spaces

4. BLUE AND GREEN INFRASTRUCTURE:

- 4.1 Re-organize and diversify economic activities
- 4.2 Re-organize new network between green areas

みどり・水との共生



Transportation & Green Spaces

5. CREATE ATTRACTIVE URBAN SPACES:

- 5.1 Promote development of office space, housing, and facilities
- ⇒ 5.2 Improve urban spaces
- ② 5.3 Promote local fresh food

魅力的な 都市空間の形成



Transport, Land Use, Agriculture, Green Spaces

6. CREATE A HIGHLY SAFE, DISASTER-RESILIENT CITY:

- 6.1 Increase land capable of rainwater infiltration and acquire a green roof
- 6.2 Use flood lands as green space and return river to natural flow
- 6.3 Rebuild structures for earthquake resilience
- 6.4 Promote of housing stock renewal to fireproof buildings

災害に強いまちの実現



Land Use, Agriculture & Green Spaces

7. SOCIALLY INTEGRATIVE URBAN SPACES:

- ② 7.1 Foster social integration between agriculture and housing
- ② 7.2 Promote social integration of green zones and housing
- ② 7.3 Create inclusive urban spaces (ex: community farming)

多主体が共生する 社会の実現



Education, Agriculture & Green Spaces

市政における
「ヨコのつながり」
+
多様な主体の連携
の必要性

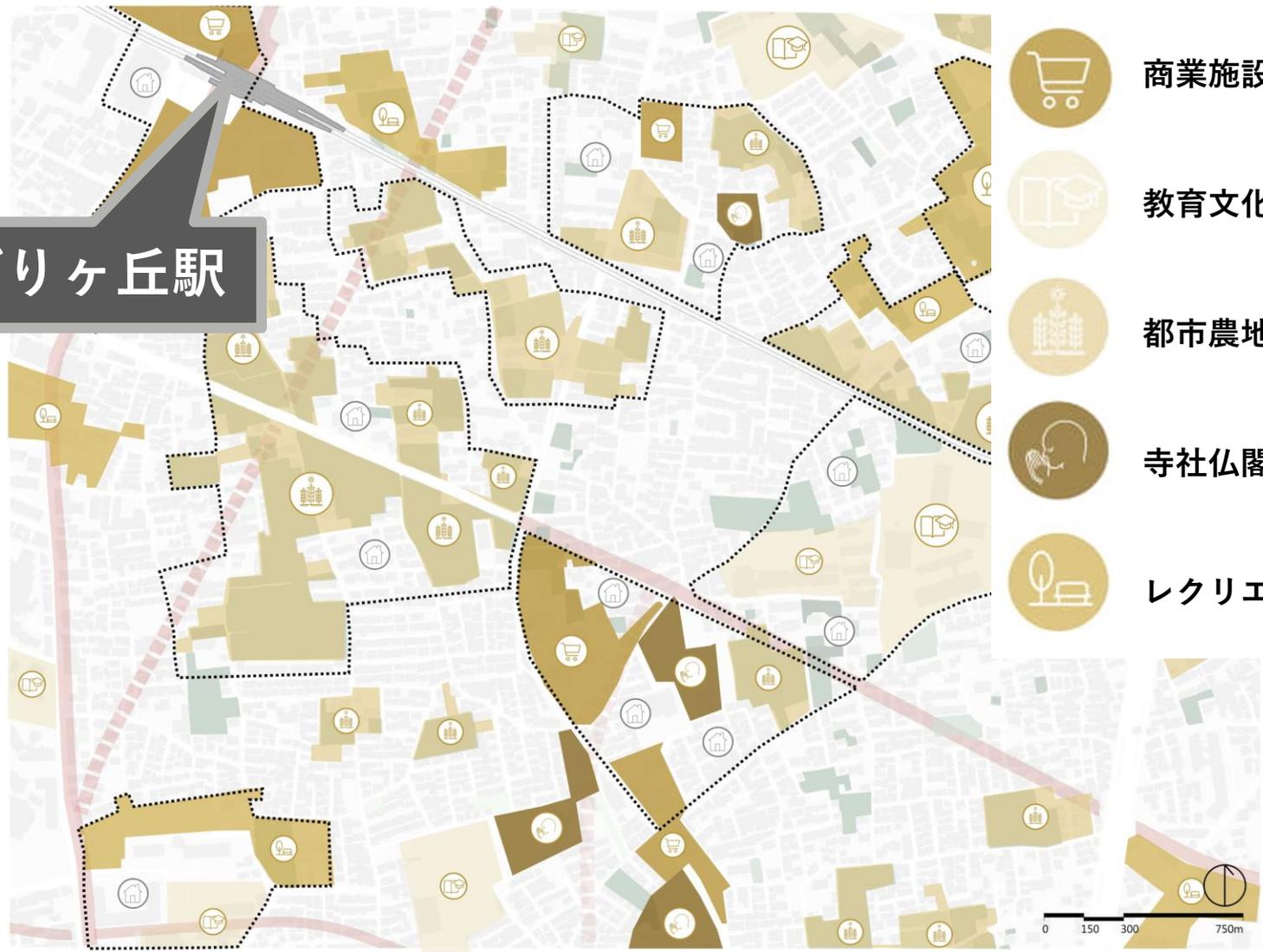
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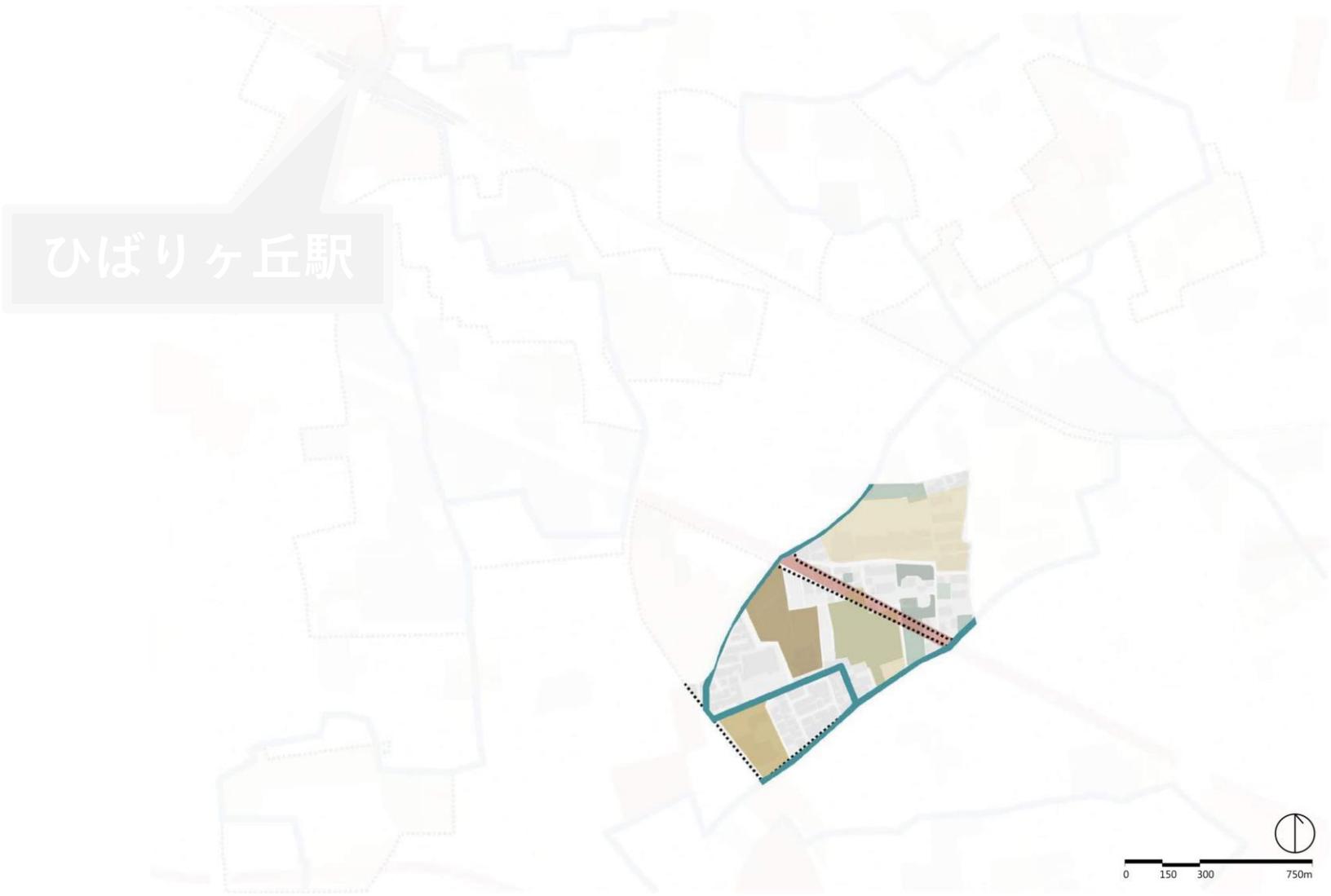
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住吉町 設計：地域の核となりうる施設

ひばりヶ丘駅



住吉町 設計：設計対象地（住吉町5丁目・6丁目）



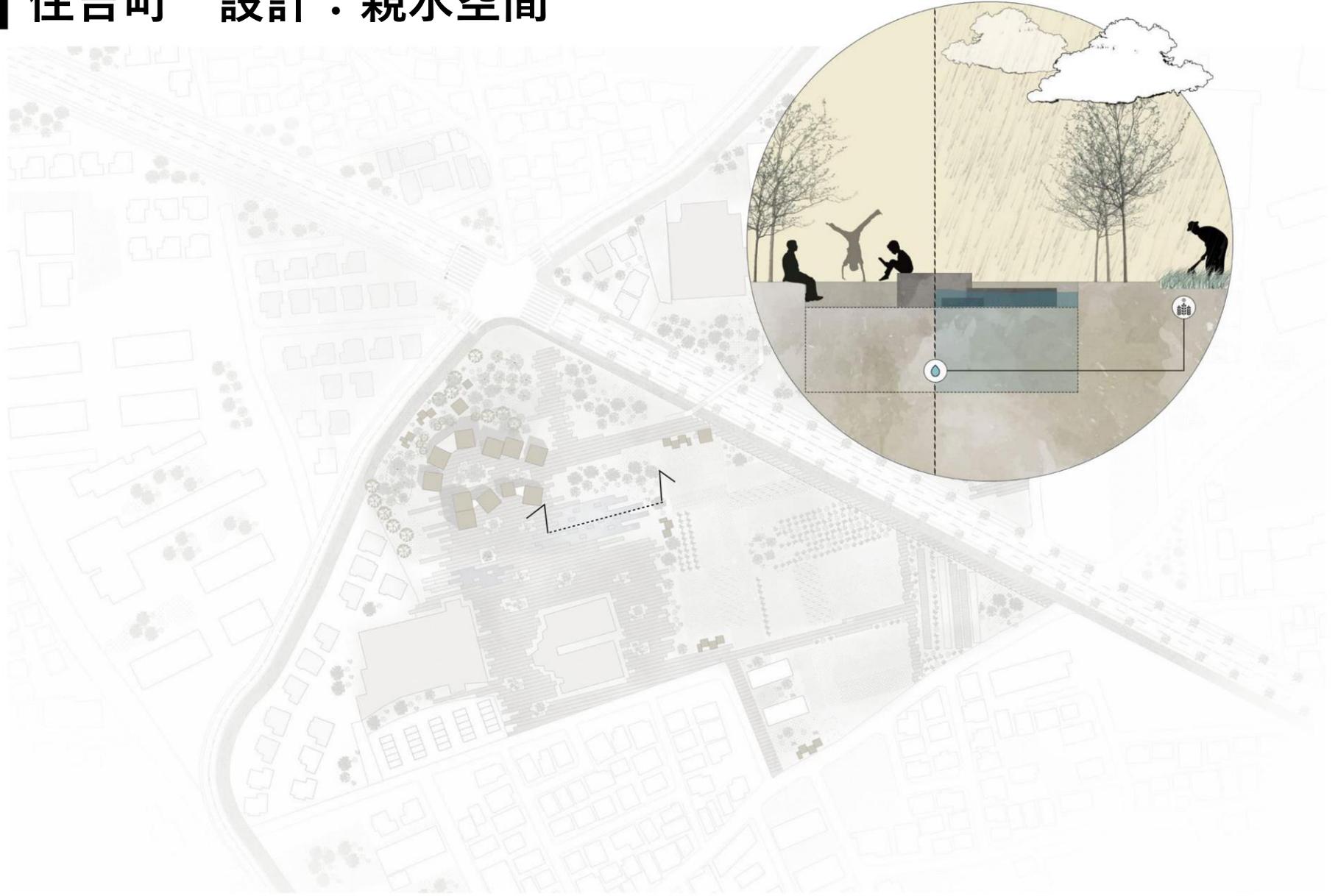
住吉町 設計：設計対象地（住吉町5丁目・6丁目）

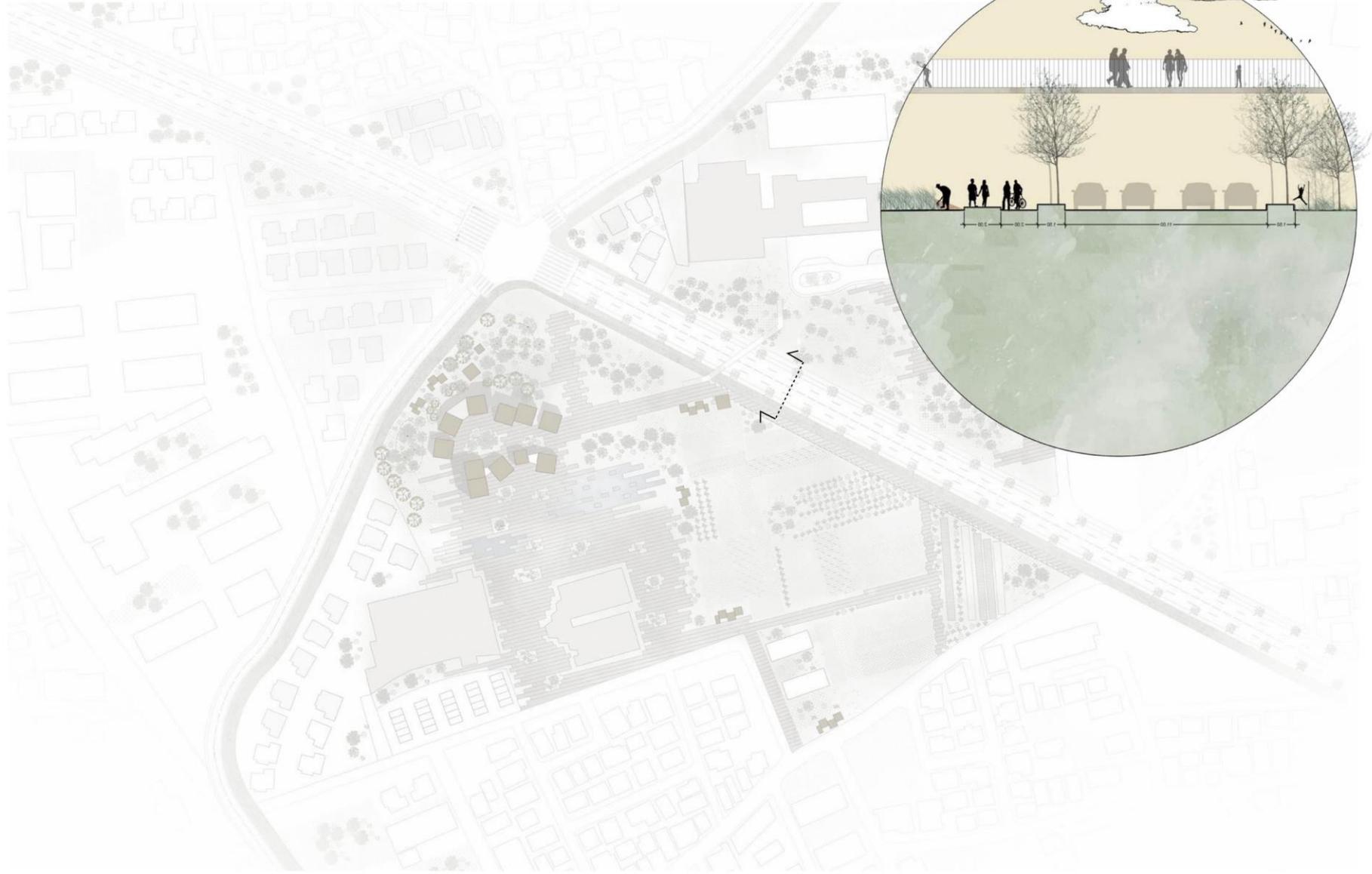
広幅員都市計画道路
(建設予定)

小学校

都市農地

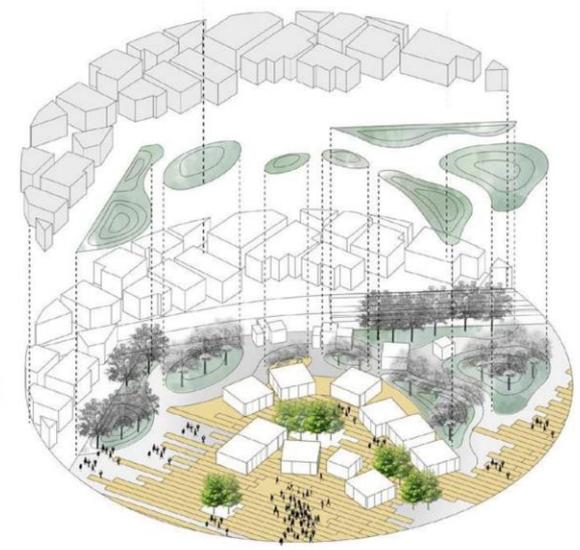
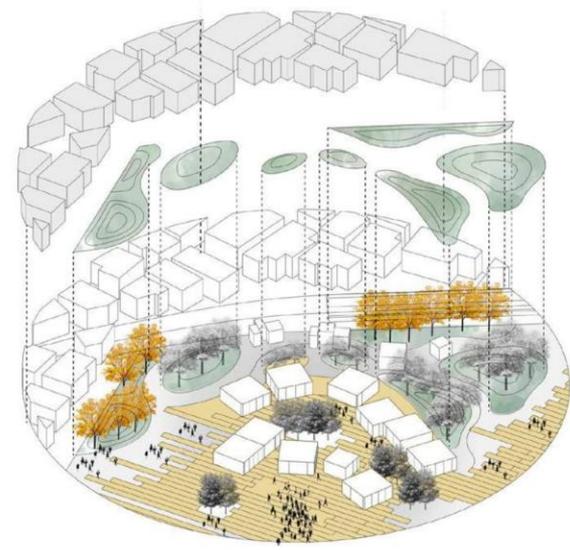
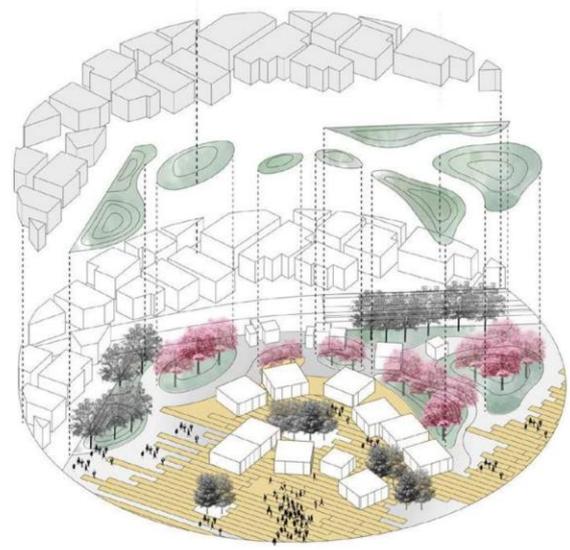








住吉町 設計：季節ごとの花



Prunus × yedoensis
SP



Pet. hyb.
AU WN SP



Ginkgo biloba
AU WN



Cel. plu.
SP SU AU



Ilex rotunda
ALL



Matsu (pine tree)
ALL



Ger. jam.
WN SP



Cel. plu.
SP SU AU



Pel. hor.
AU WN



Pet. hyb.
AU WN SP



Carmona microphylla
ALL



Melaleuca bracteata
ALL



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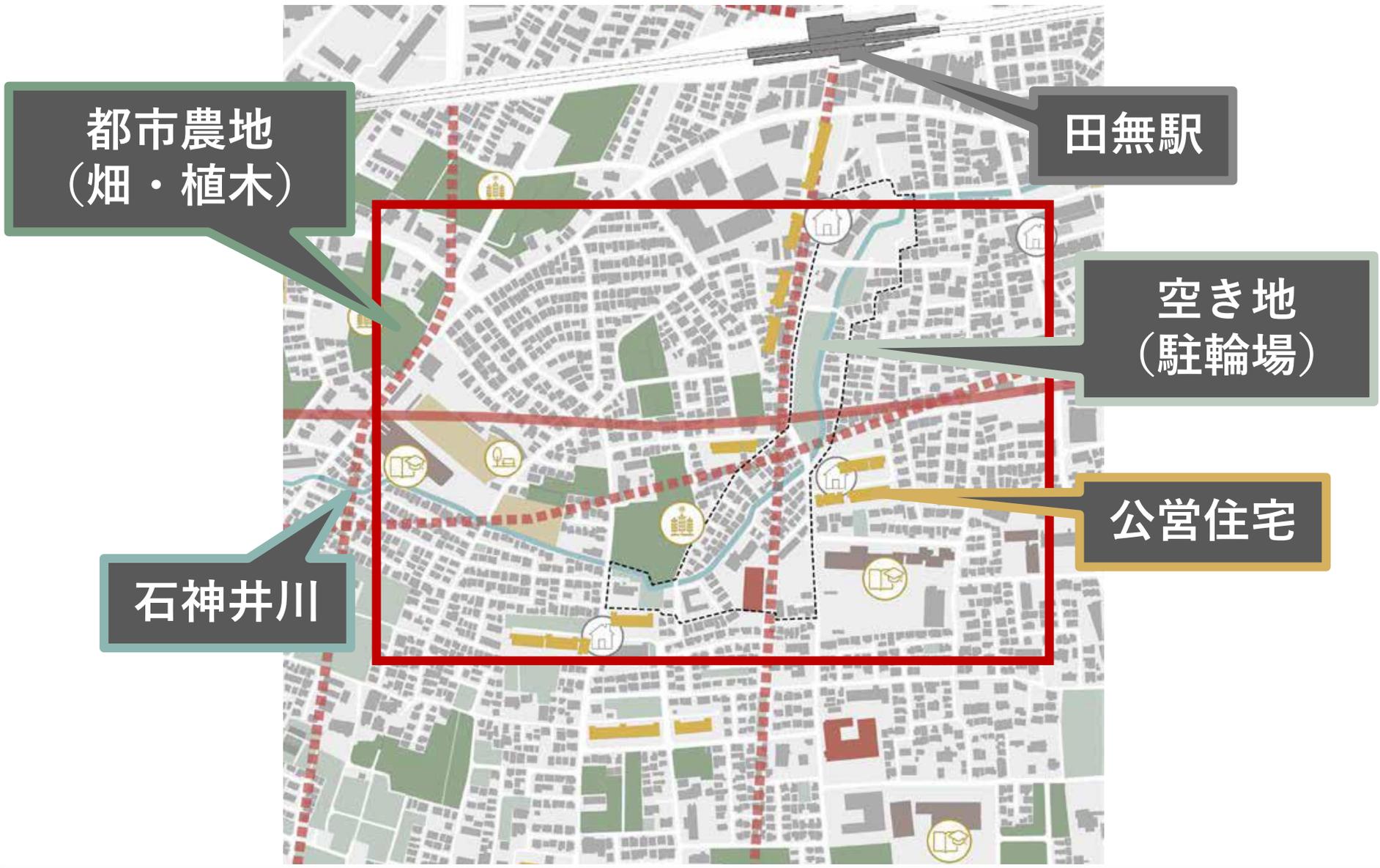


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■ 向台町 設計：現在の石神井川



向台町 設計：設計対象地（向台町3・4丁目・南町4・5丁目）



向台町 設計：平面図と狙い

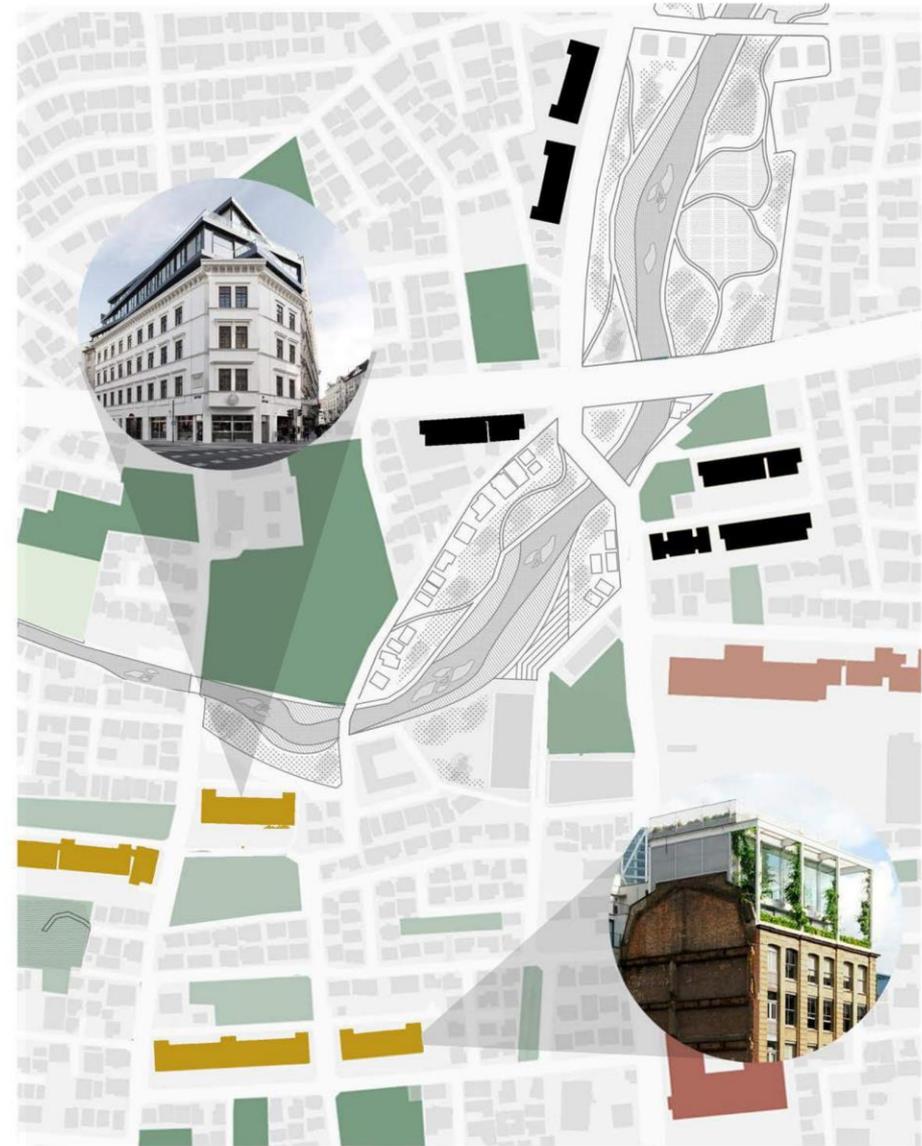
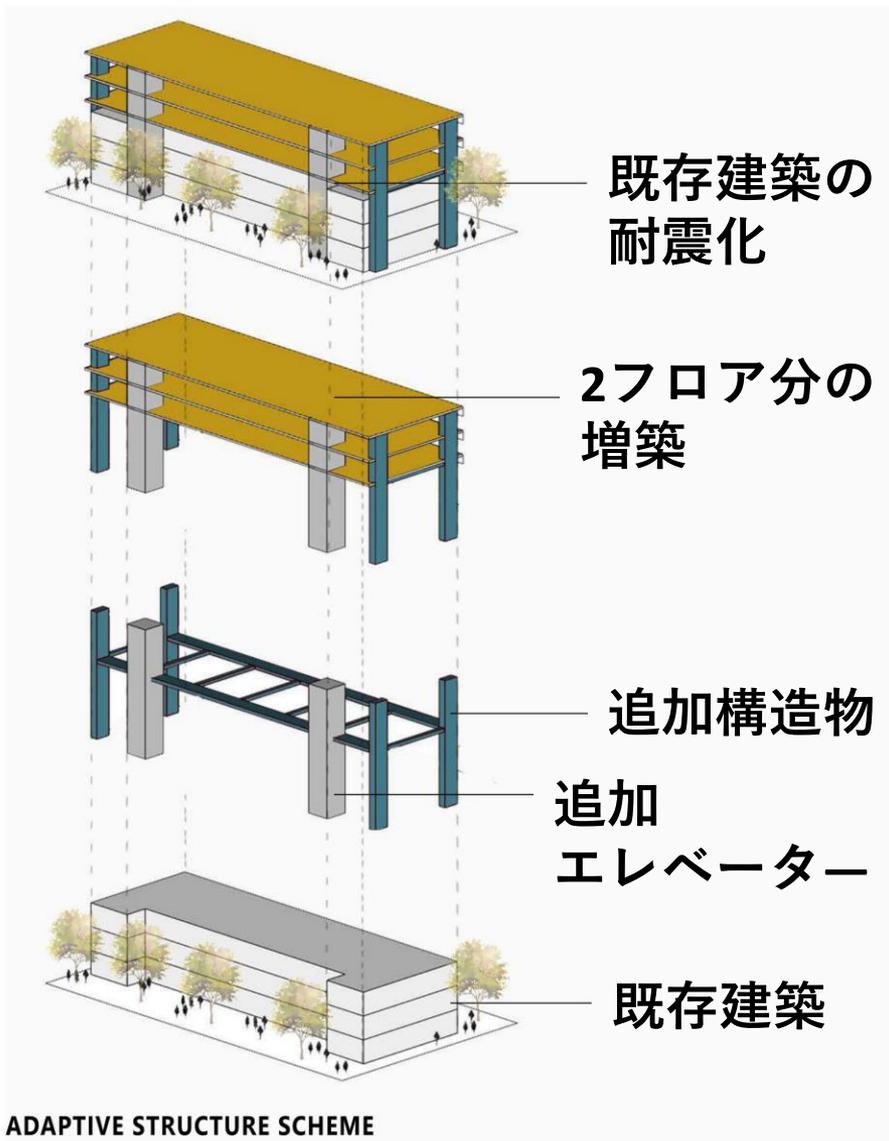
- ▶ 河川沿いに「農」をテーマとした親水空間を整備し，豪雨時の洪水リスク軽減
- ▶ 既存建築を活用した公営住宅の建て替えによる耐震化



■ 向台町 設計：リバーフロントのイメージ図

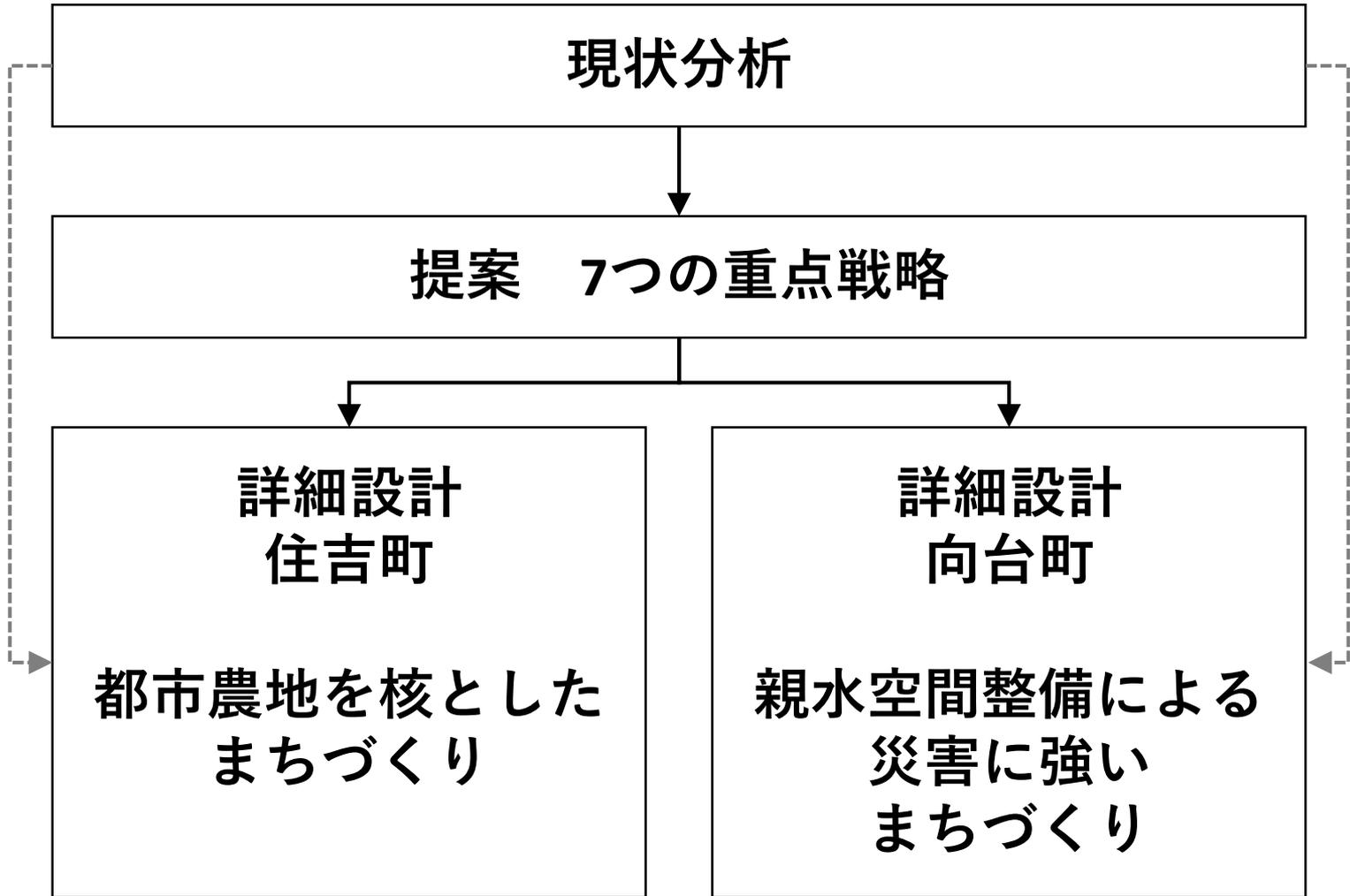


向台町 設計：既存建築の活用と耐震補強



公園少ないが農地多い

石神井川が危ない



T
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TOrino TOkyo

ご清聴ありがとうございました