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Galan Vivas, Juanjo; Tähtinen, Sari; Staffans, Aija; Mladenovic, Milos **Otaniemi : Towards and integrative Vision**

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OTANIEMI: Towards and integrative Vision **1.INITIAL DIAGNOSIS**

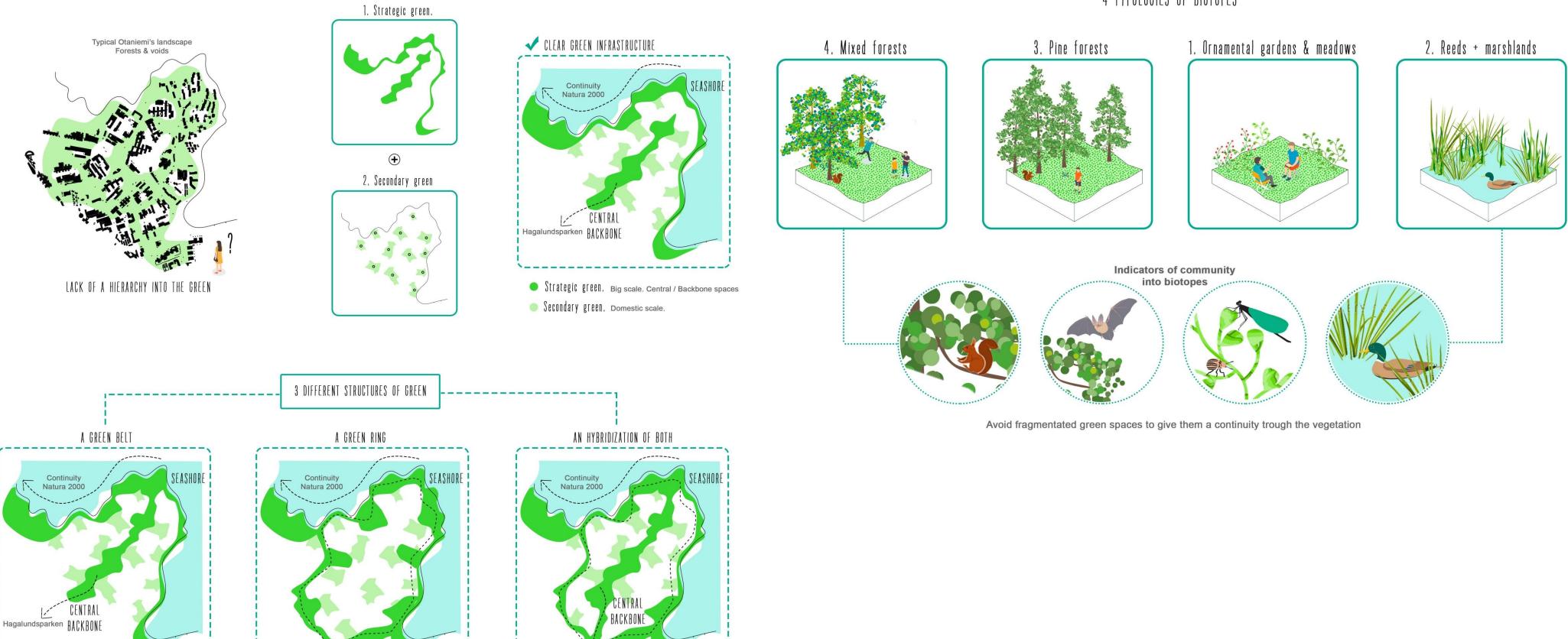
L-Campus Group, Aalto University 2015

Planning Team: Juanjo Galan (coordination & author of drawings), Sari Tahtinen, Aija Staffan, Milos Mladenovic Digitalization and improvement of drawings: Pilar Llop and Alberto Zaragoza



1.1. INITIAL DIAGNOSIS_Green Infrastructure

Towards a continuous Green Infrastructure



A Biodiverse Green Infrastructure

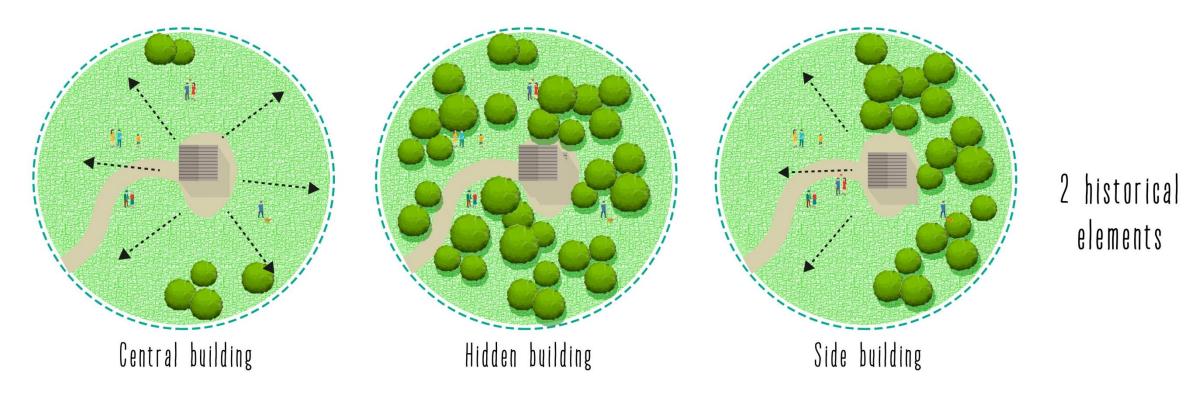




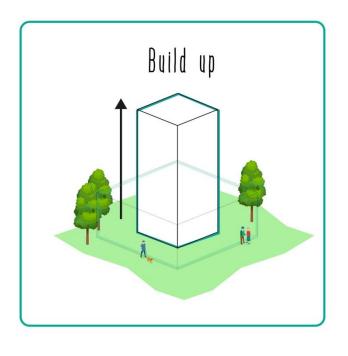
1.2. INITIAL DIAGNOSIS_Buildings network and spatial qualities

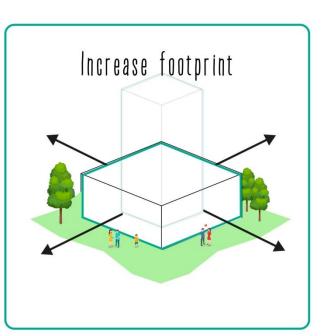
Buildings in the landscape and How to densify

BUILDING DISPOSITIONS

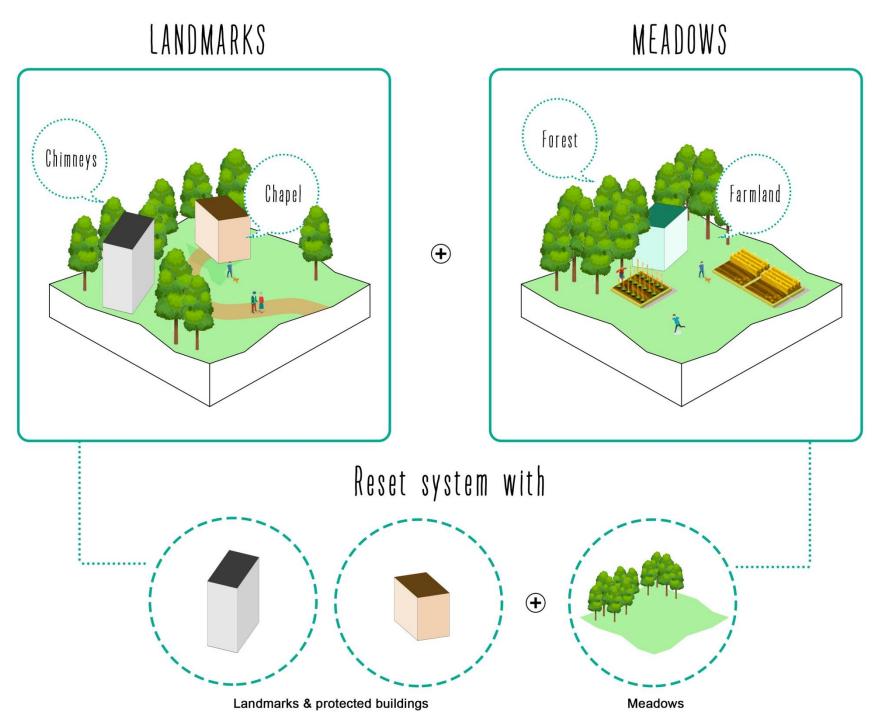


BUILDING DENSITY





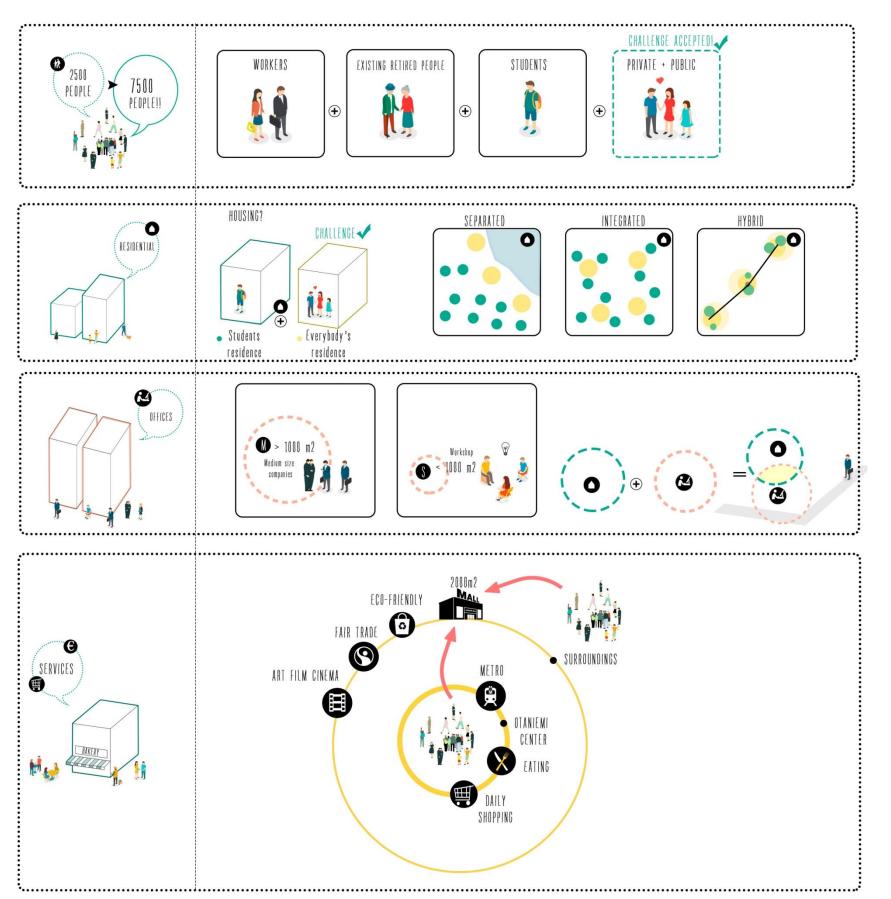
Some compositional elements in Otaniemi



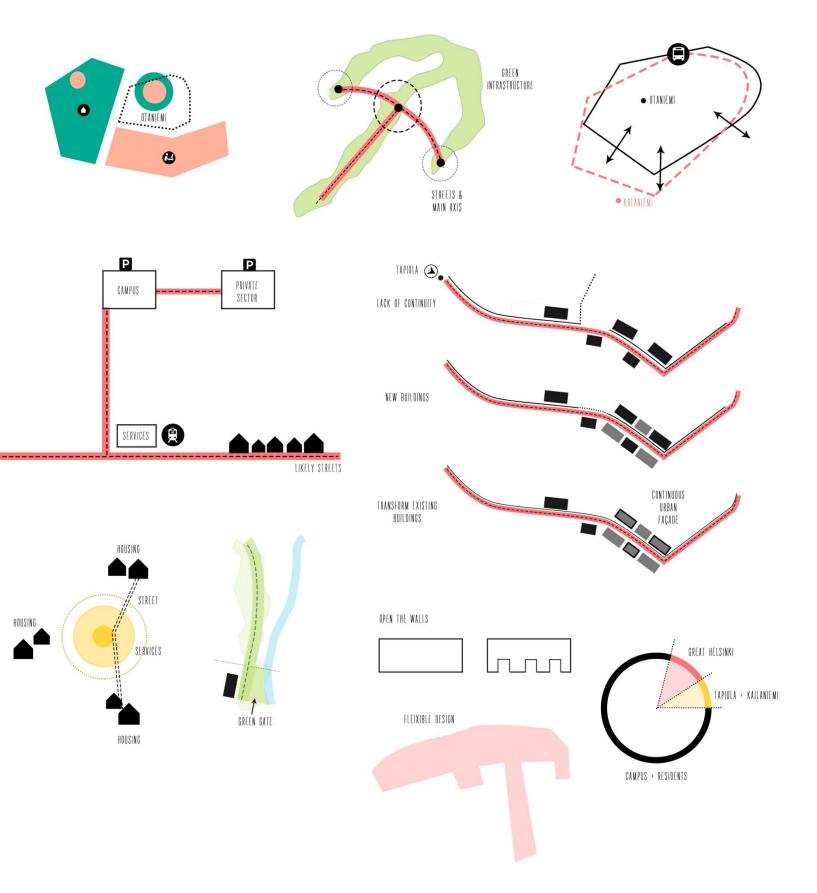


LAND USE

Interactions between land uses and people in a denser and more diverse Otaniemi?

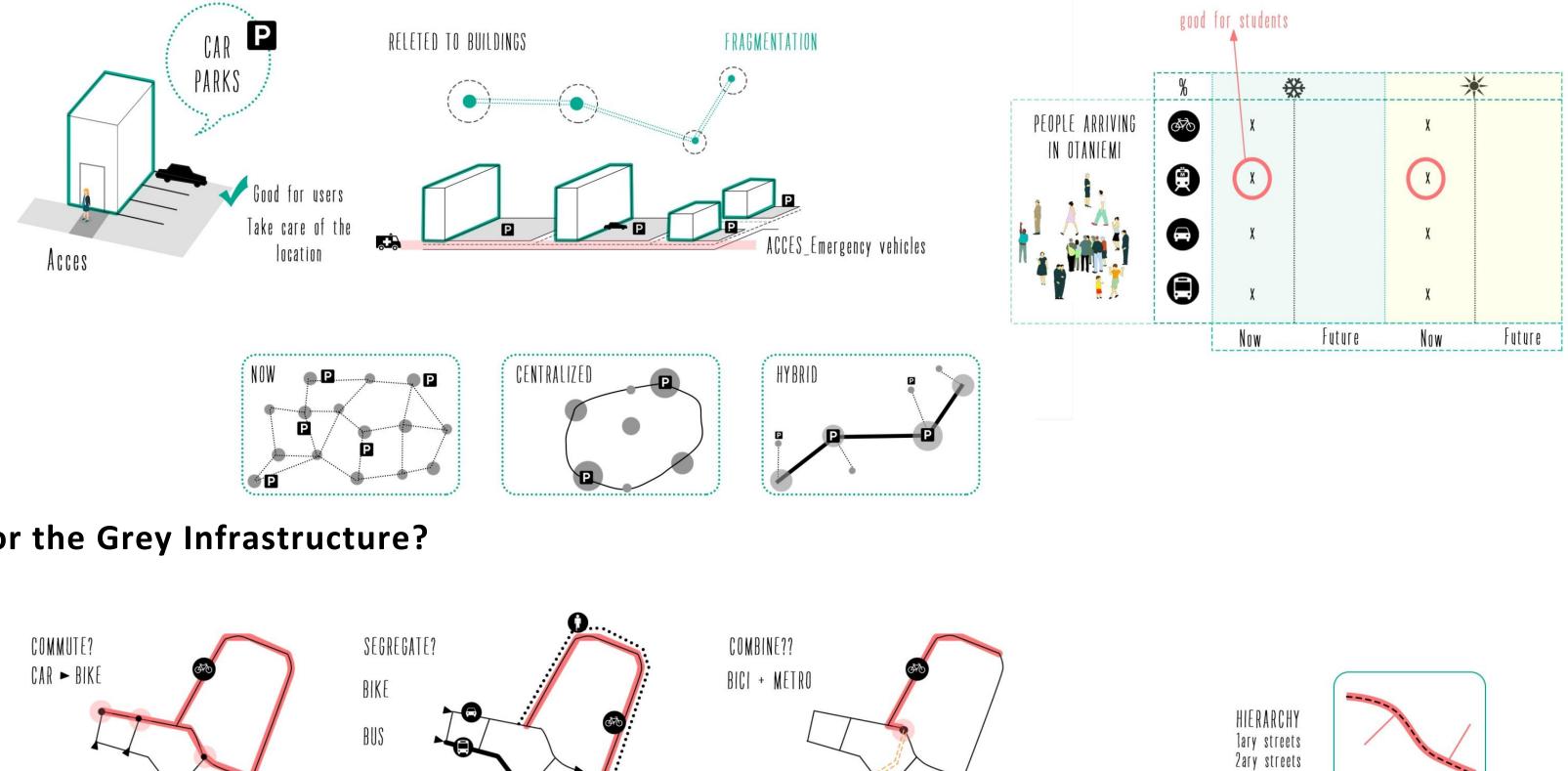


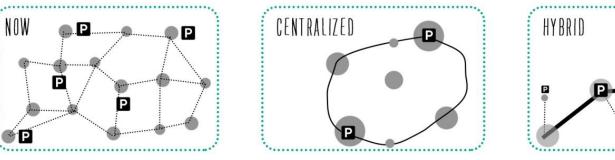
Otaniemi in the Metropolitan & Local context and some extra questions in Otaniemi: Filling in?, Opening buildings? Cars?



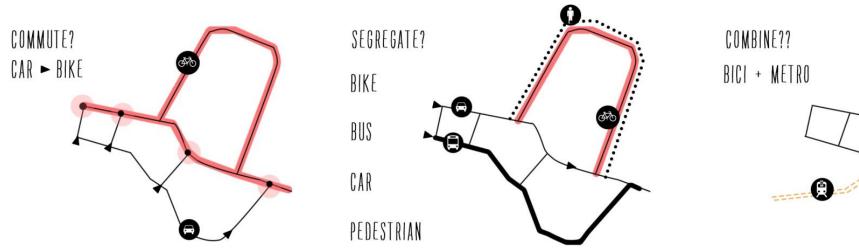


The current Car-Park Logic... Options for Car-Parks... Seasonal patterns in the use of means of transport (Now and After?)



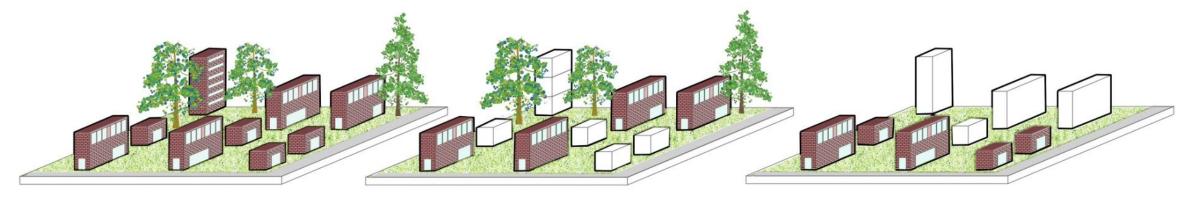


Alternatives for the Grey Infrastructure?





Red brick architecture?

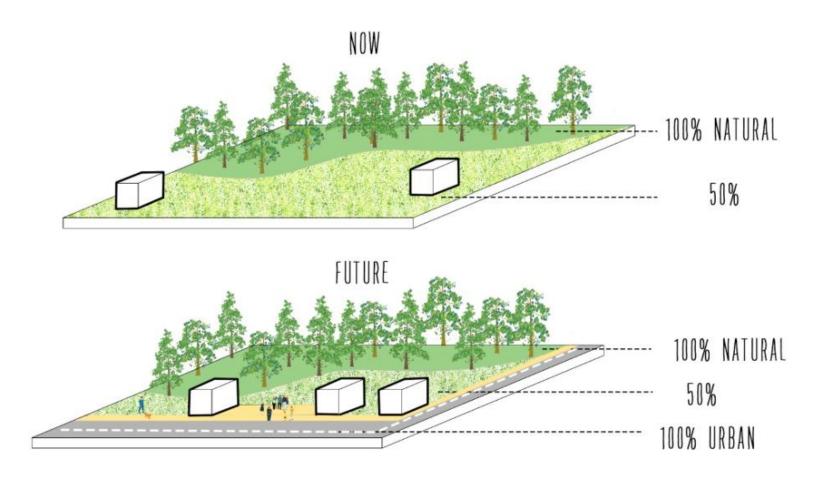


RED BRICK CAMPUS?

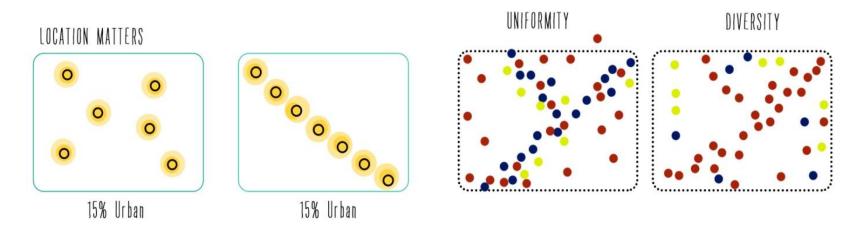
RED BRICK IN SPECIFIC USES?

RED BRICK IN SPECIFIC AREAS?

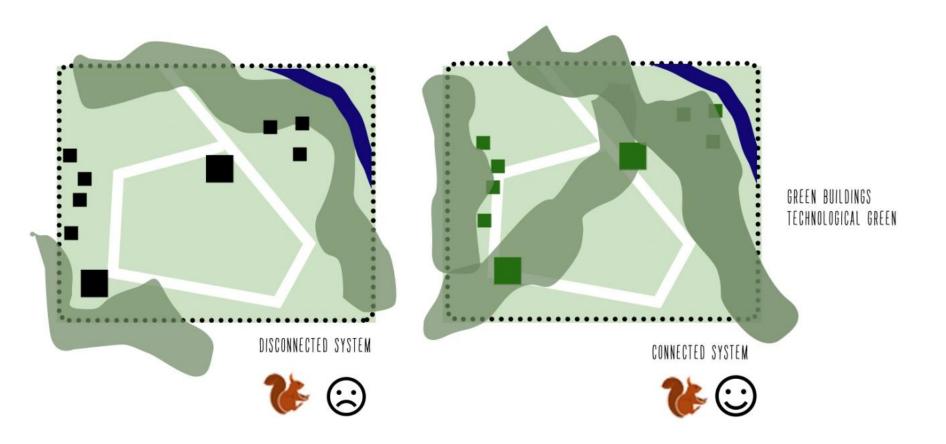
Densification and Land covers?



Grouping and Mixing?

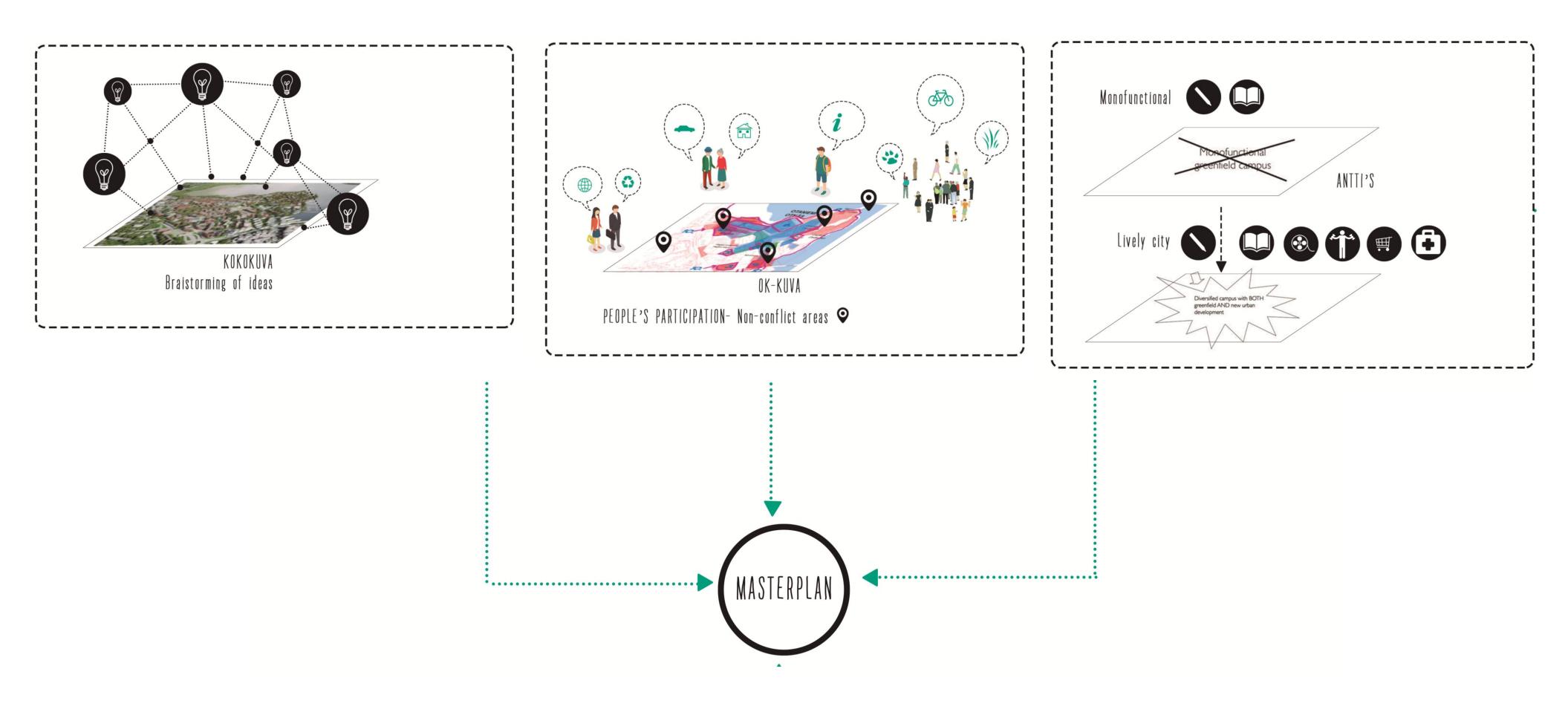


Just human centered?



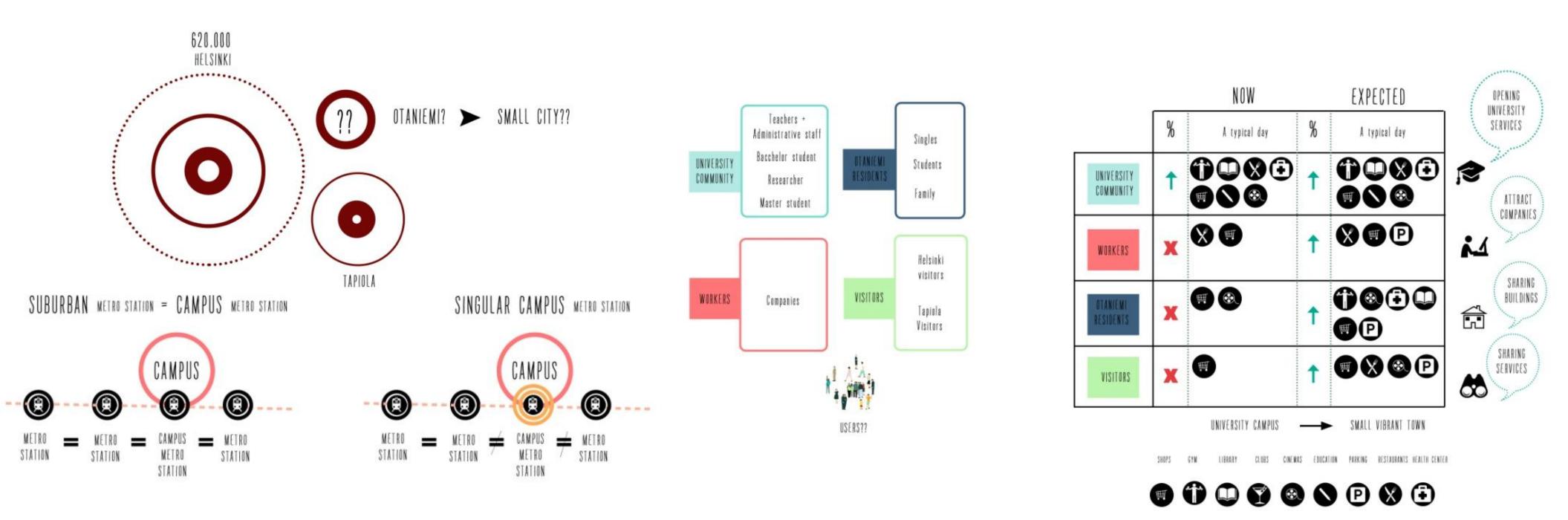


OTANIEMI: Towards and integrative Vision (L-Campus Group, Aalto University 2015: Juanjo Galan, Sari Tahtinen, Aija Staffans, Milos Mladenovic, Collaborations in drawings: Pilar Llop, Alberto Zaragoza) **1.6 Coordination of planning scales and planning systems**

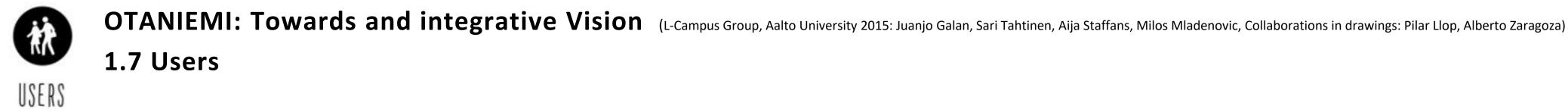




Otaniemi: a modellic small town



New people, new needs, new services

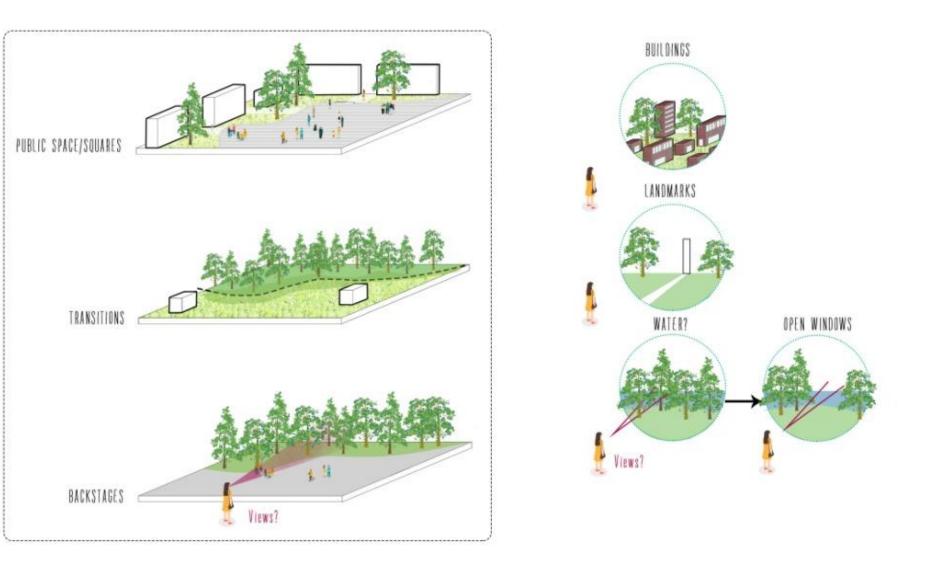


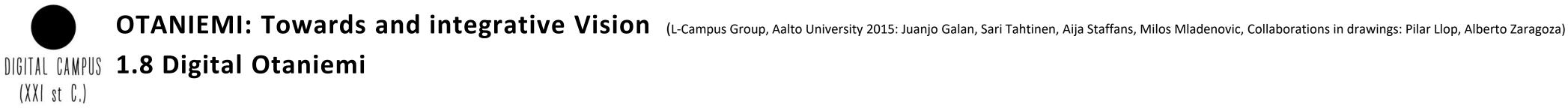
N

Otaniemi: new social interactions, more shared services

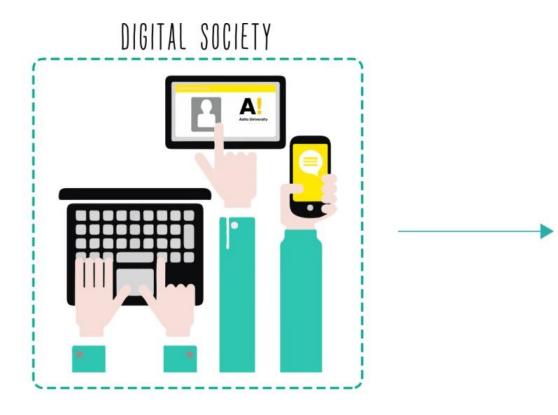
UNIVERSITY SMALL TOWN **BIG INTERACTION** SMALL INTERACTION TRANSPORT METRO STATION UNIVERSITY METRO STATION (OPEN SERVICES) (IMPROVE EXISTING SEVICES) SPORT SHOPS EATING Θ HEALTH CENTERS LIBRAR CULTURE EVENTS MULTIFUNCTIONAL COMMUNITY CAMPUS COMMUNITY (INTERNAL INTERACTIONS) THEATRE INTERACTION?

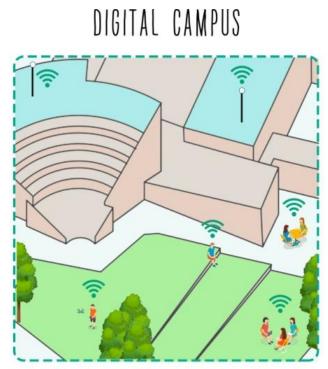
New uses of the open space for a new social collage



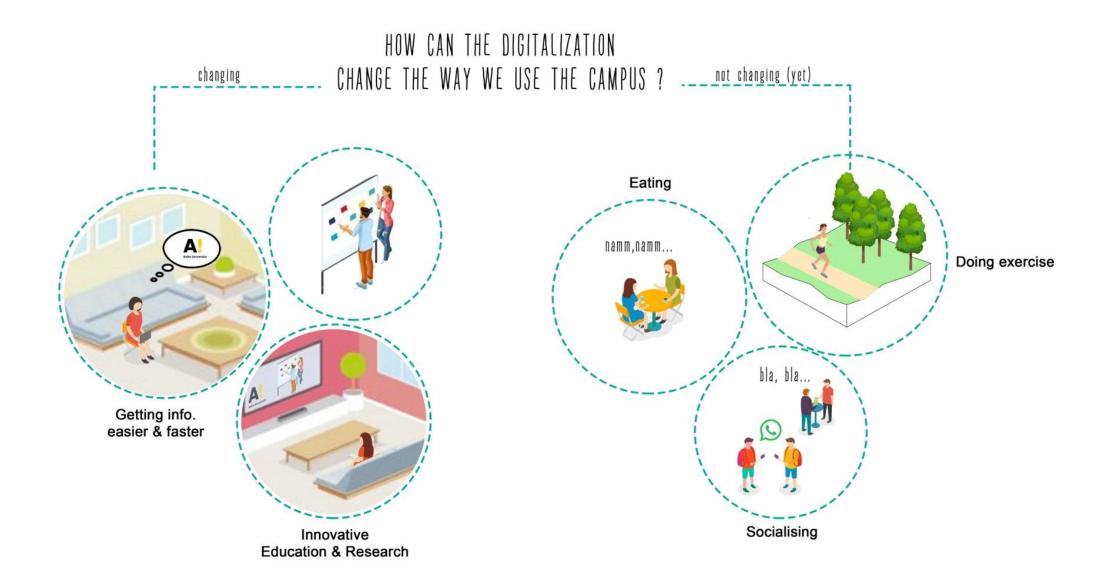


Otaniemi: a digital infrastructure





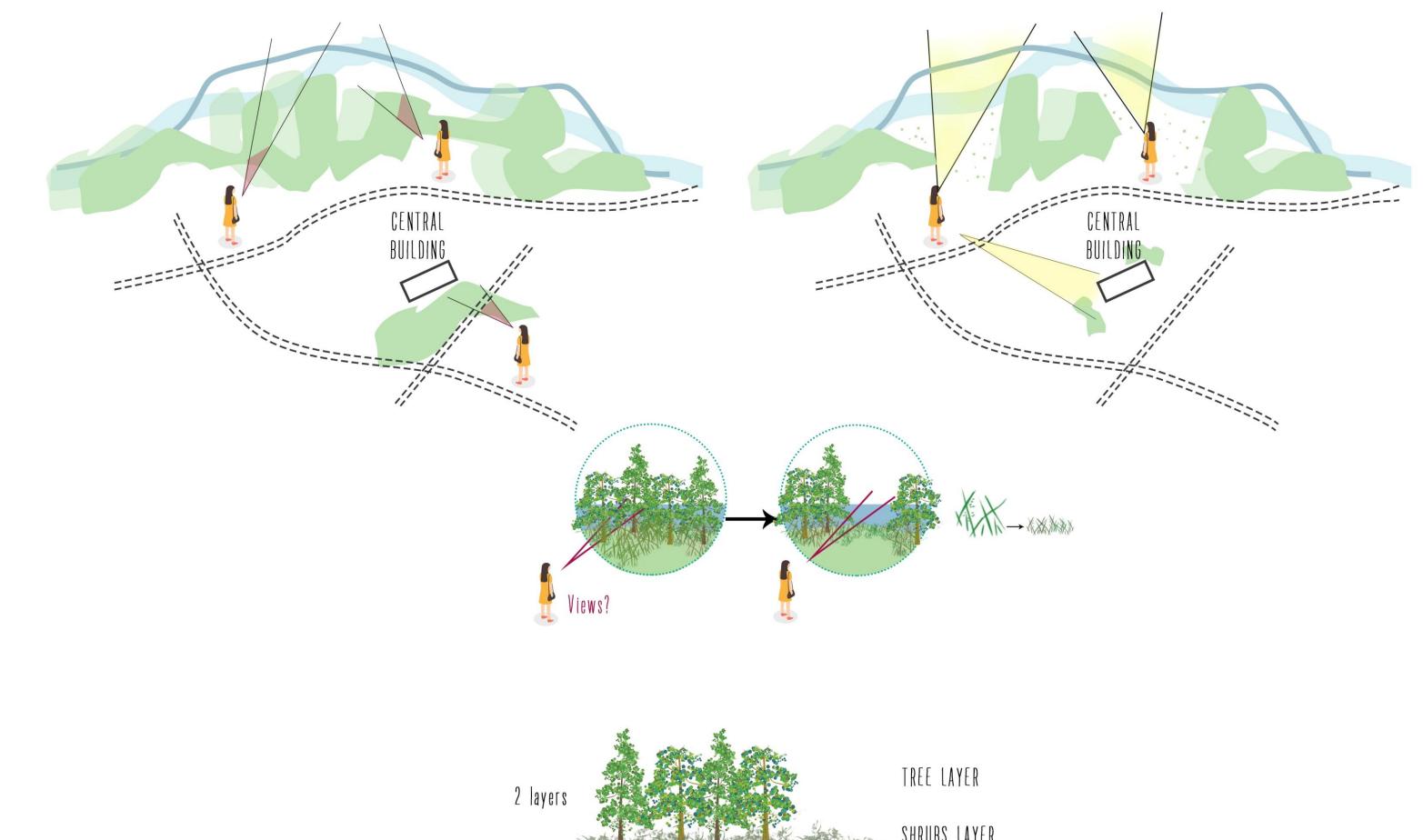
Clearer digitalizated Campus



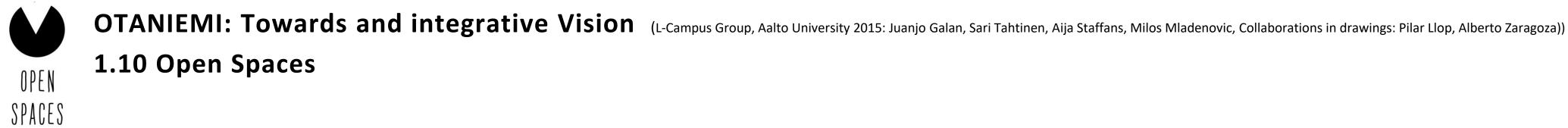
Otaniemi: digitalization and changes in ways of living?



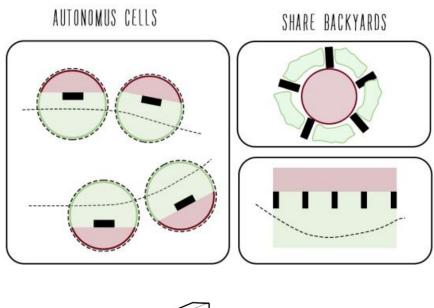
1.9 Visual Otaniemi

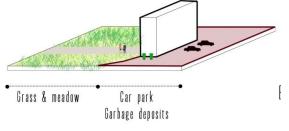


SHRUBS LAYER

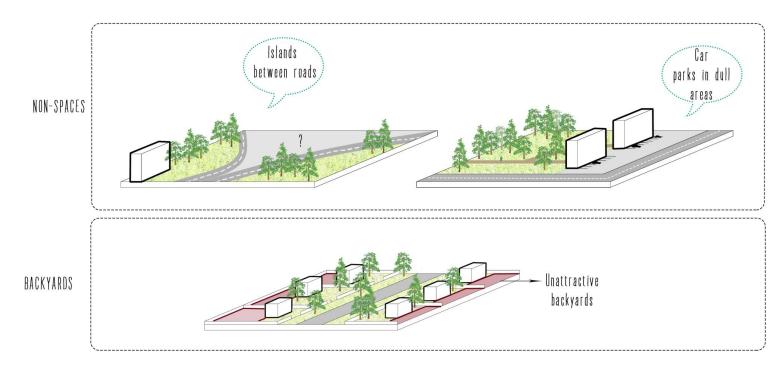


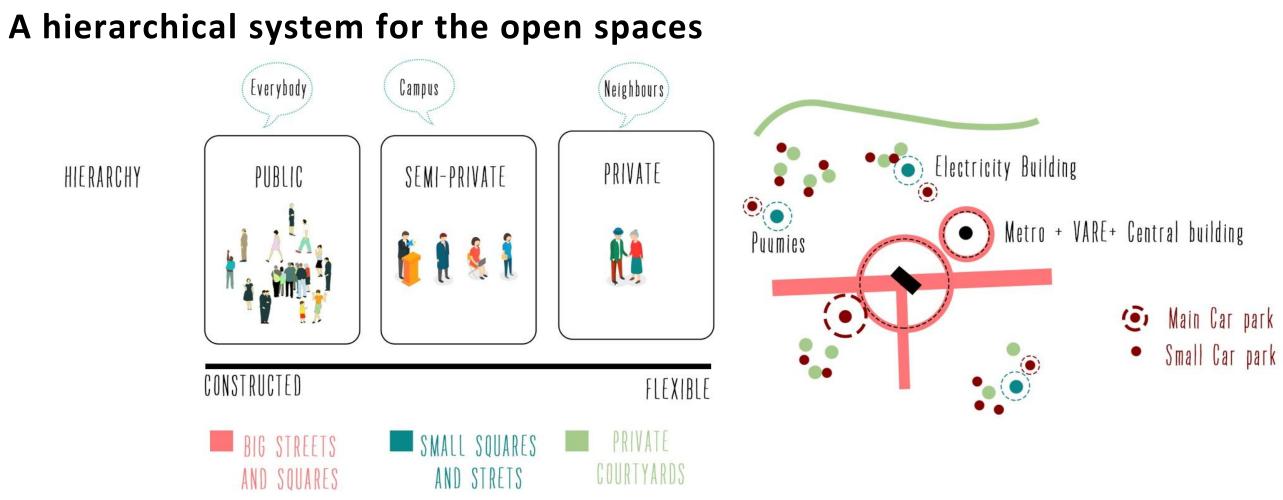
Buildings / Car-parks / Green



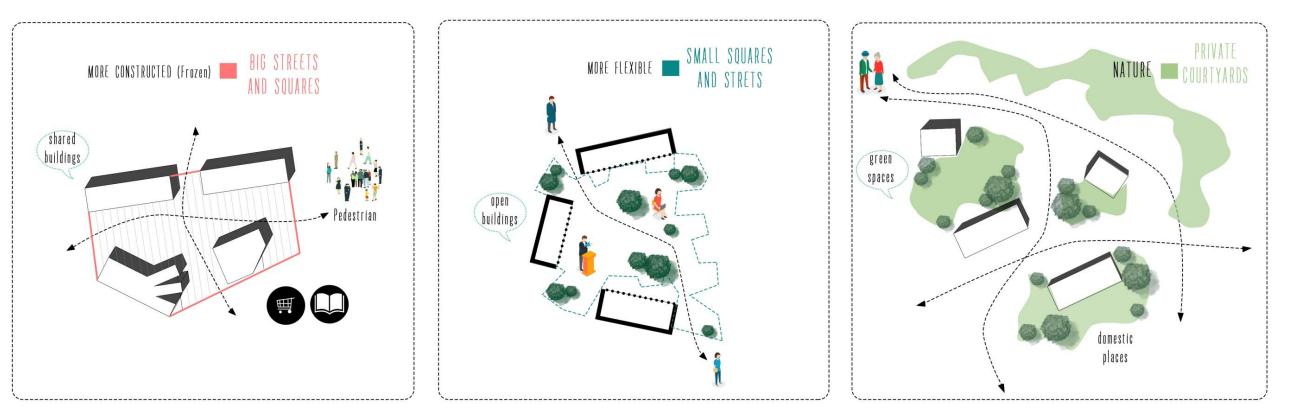


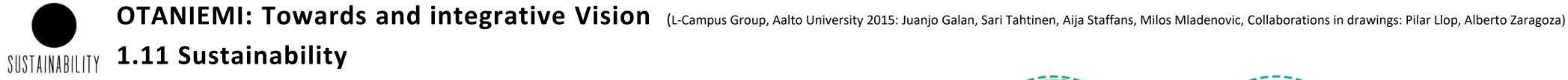
Non-spaces and Backyards

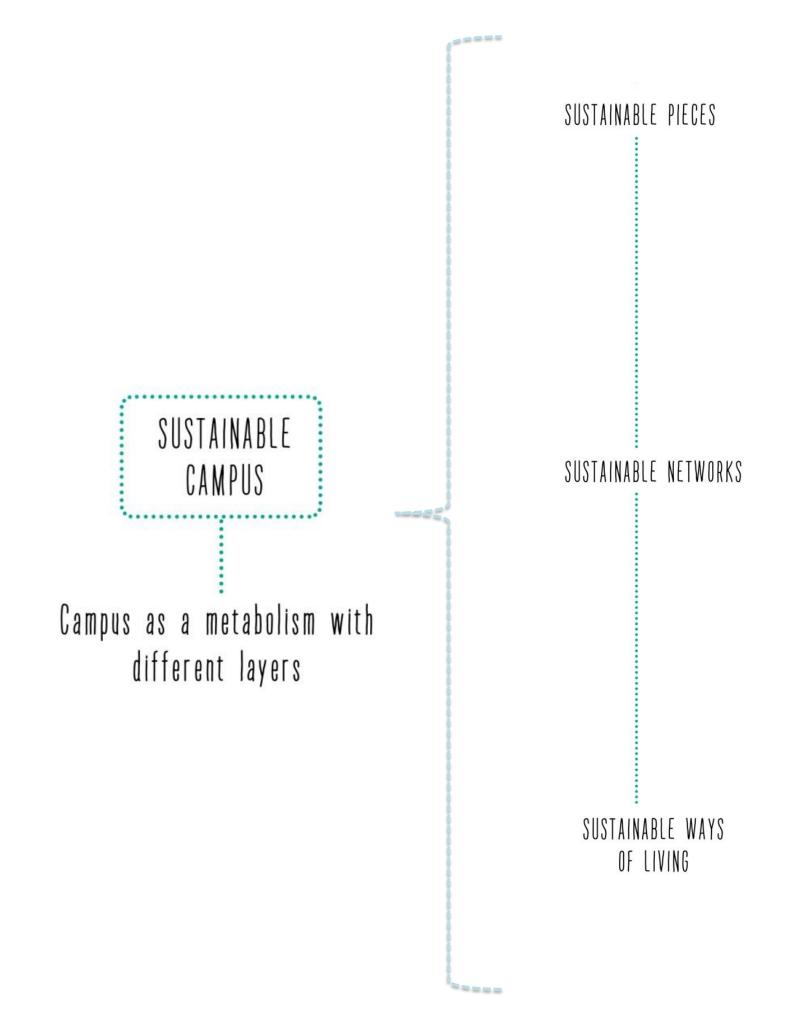




A gradient of urbanity











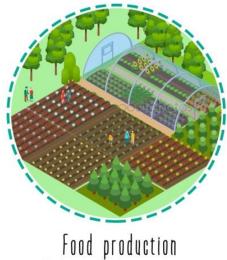
Rainwater management



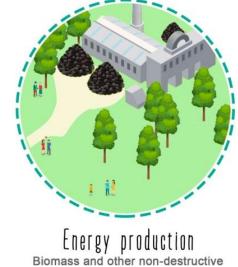
Sustainable transport Efficient public transport



biodiversity



Orchards, kitchen gardens..

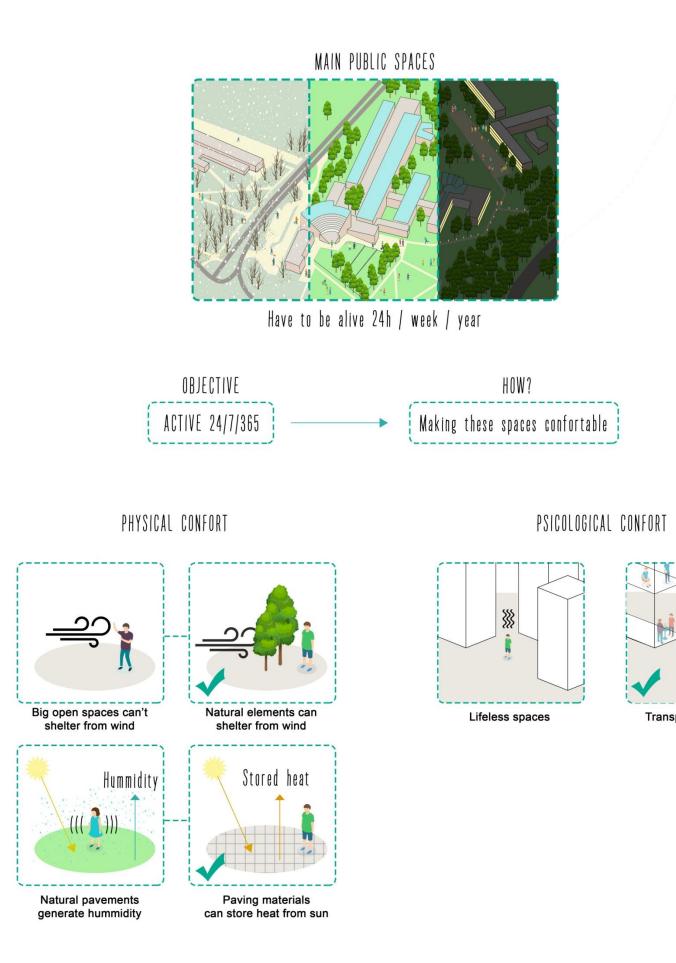


processes



1.12 Hierarchies & Navigation / Seasonal changes / Ecotones and transitions

ACTIVE ECOTONE: TRANSITIONS AND ORIENTATION

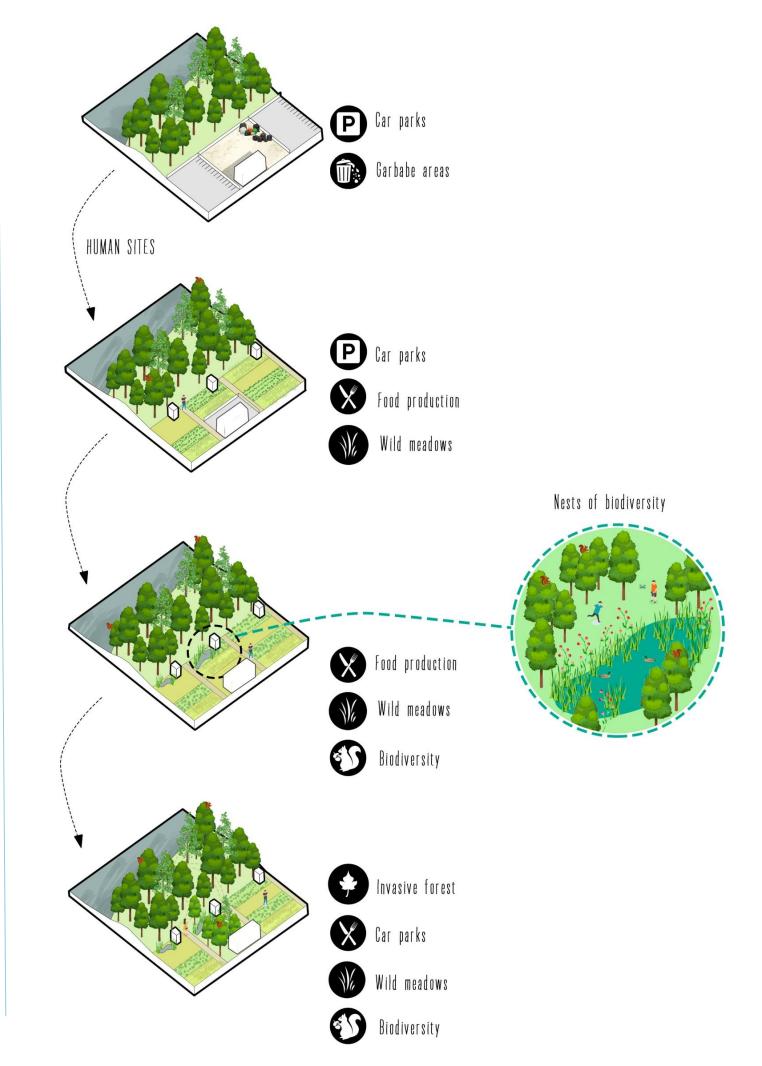


HIERARCHY

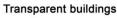
WIDTH ROADS /MATERIALS

LIGHTING/SIGNAGE

MATERIALS AND HIERARCHY IN OPEN SPACES







OTANIEMI: Towards and integrative Vision 2. INITIAL DIAGNOSIS

L-Campus Group, Aalto University 2015

Planning Team: Juanjo Galan (coordination & author of drawings), Sari Tahtinen, Aija Staffan, Milos Mladenovic Digitalization and improvement of drawings: Pilar Llop and Alberto Zaragoza

2. STRATEGIES FOR PLANNING



2. PROGRAMME ABOUT USERS & LAND USES ABOUT COMMUNITY & INTERACTIONS ABOUT TIME & USE ABOUT MARKET APROACHES 3. NETWORKS



& SPACES

GREEN/BLUE NETWORK

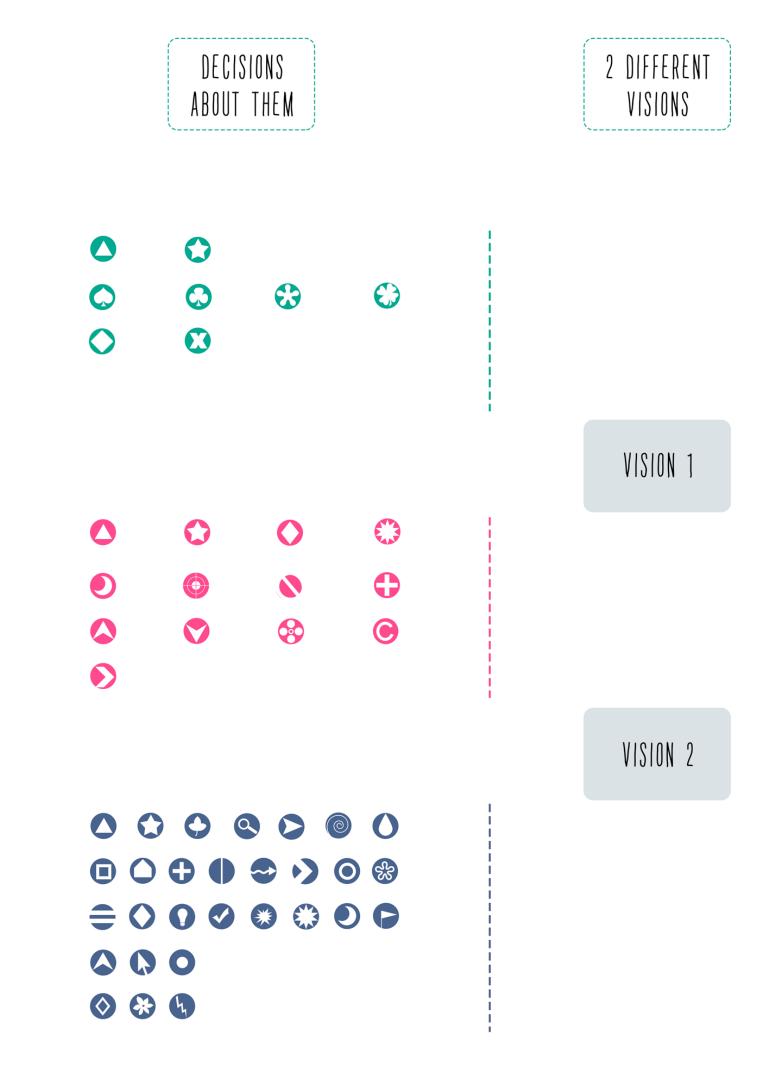
BUILDINGS NETWORK

GREY NETWORK

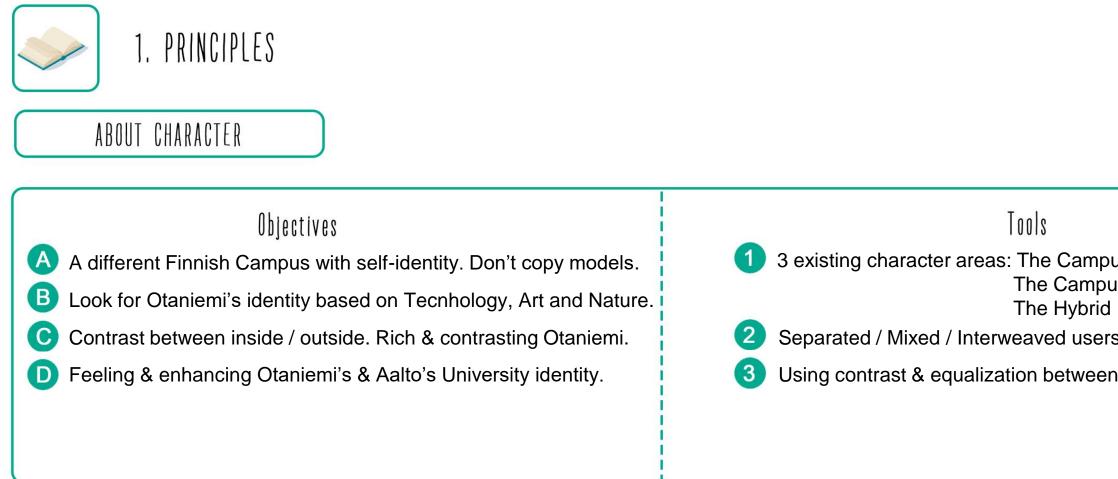
CULTURAL NETWORK

INTERFACE

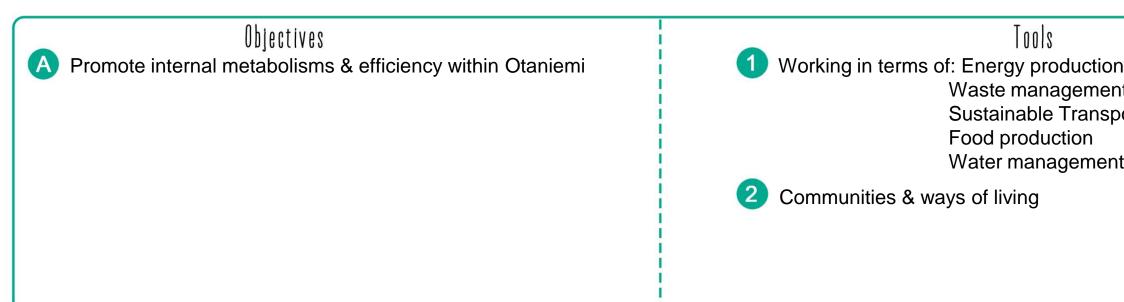
DRAFTPLAN



2. STRATEGIES FOR PLANNING



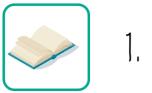
ABOUT SUSTAINABILITY



| | Our decissions |
|--|---|
| us in the forest us in the farmland (cultivated nature) | Enhance & preserve character areas lacked to cultural or environmental values. |
| s & networks. n indoors / outdoors. | Plan & design considering always the whole Otaniemi. Promoting positive & fruitful interactions between users / networks / elements / sensations |

| | Our decissions |
|--------------------|---|
| on ent sport | Enhance & preserve character areas lacked to cultural or environmental values. |
| nt | Promote sustainability principles through smart use of land & other resources. |
| | Implement & explore internal metabolisms & sustainable communities |
| | Promote sustainable ways of living using an ecological footprint app in Aalto. |

2. STRATEGIES FOR PLANNING



1. PRINCIPLES

ABOUT THE PARADOX CITY

Objectives Tools Densification to create a more lively multifunctional Otaniemi. **A** For densification: urban systems. Buildings & urban open spaces. Wildification to enhance Otaniemi's identity and to promote an B For wildification: Biotopes & ecological diversity. Water & forests... 2 interaction between human & natural systems. For flexibility, adaptability & resilience: Hybridization & sinergetic (3) C Enrich character experience in Otaniemi. combination of human / natural systems. Create a more flexible, adaptable & resilient Otaniemi.

Our decissions

Plan & design the Campus to achieve a positive & synergetic relationship between urban and natural systems. Networks as central backbones. Hybrids as resilience enablers.

Concretize the Strategic Vision

2. STRATEGIES FOR PLANNING



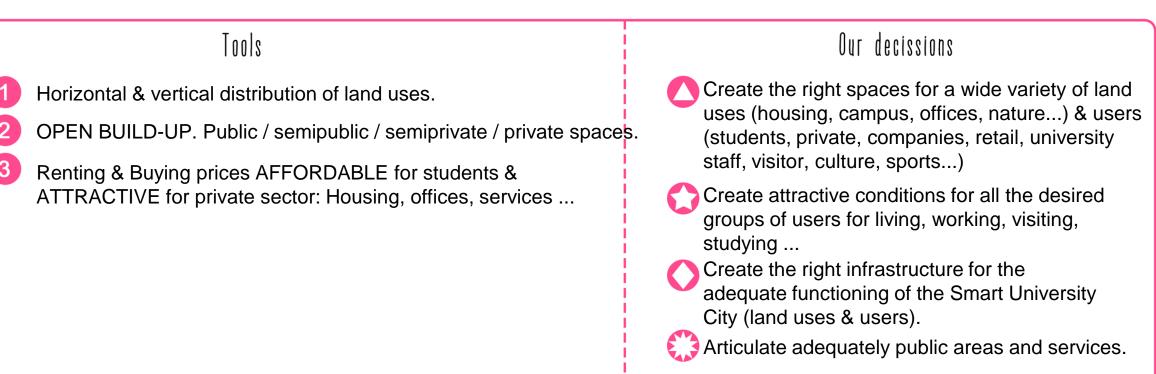
В

2. PROGRAMME

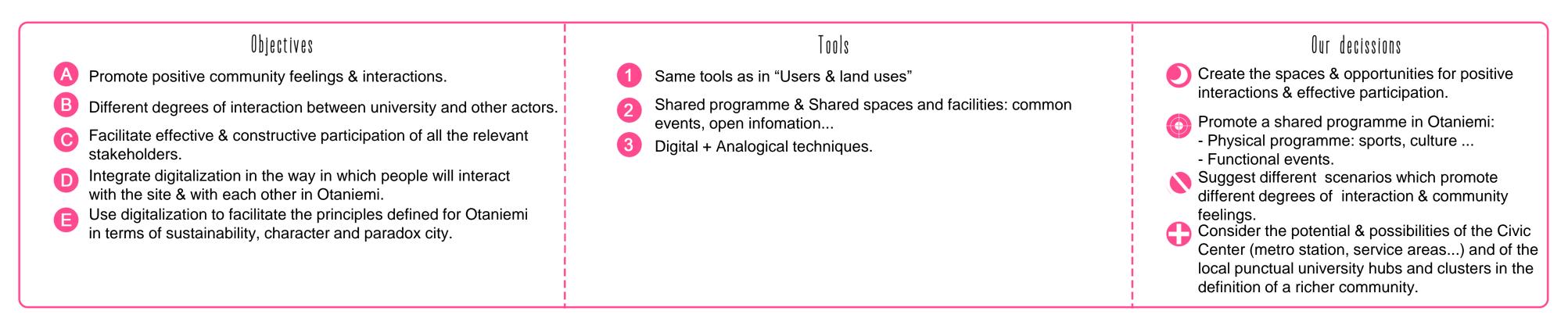
ABOUT USERS & LAND USES

Objectives

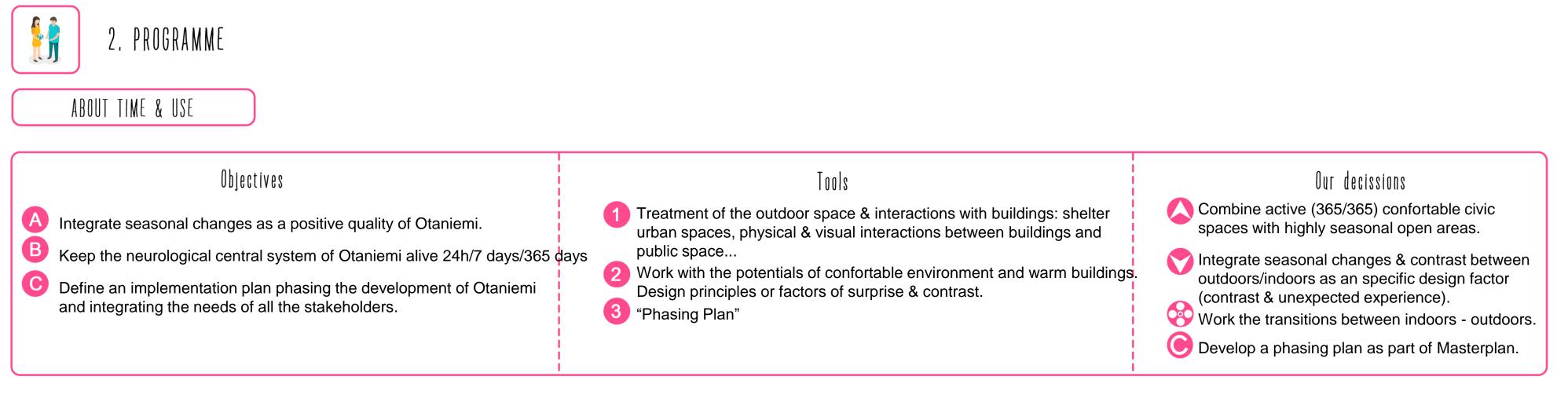
- From a University Campus to a Smart University City.
- Diversify land uses & users in Otaniemi.
- Promote positive interactions between different users & land uses.



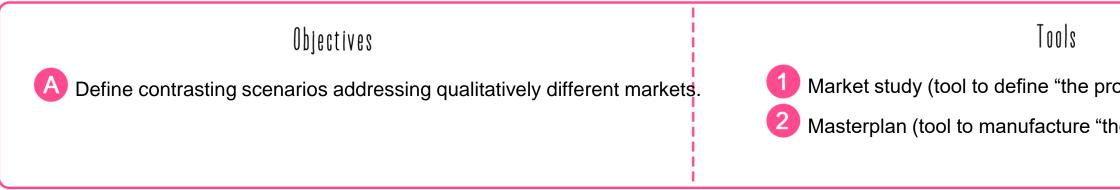
ABOUT COMMUNITY & INTERACTIONS



2. STRATEGIES FOR PLANNING



ABOUT MARKET APROACHES



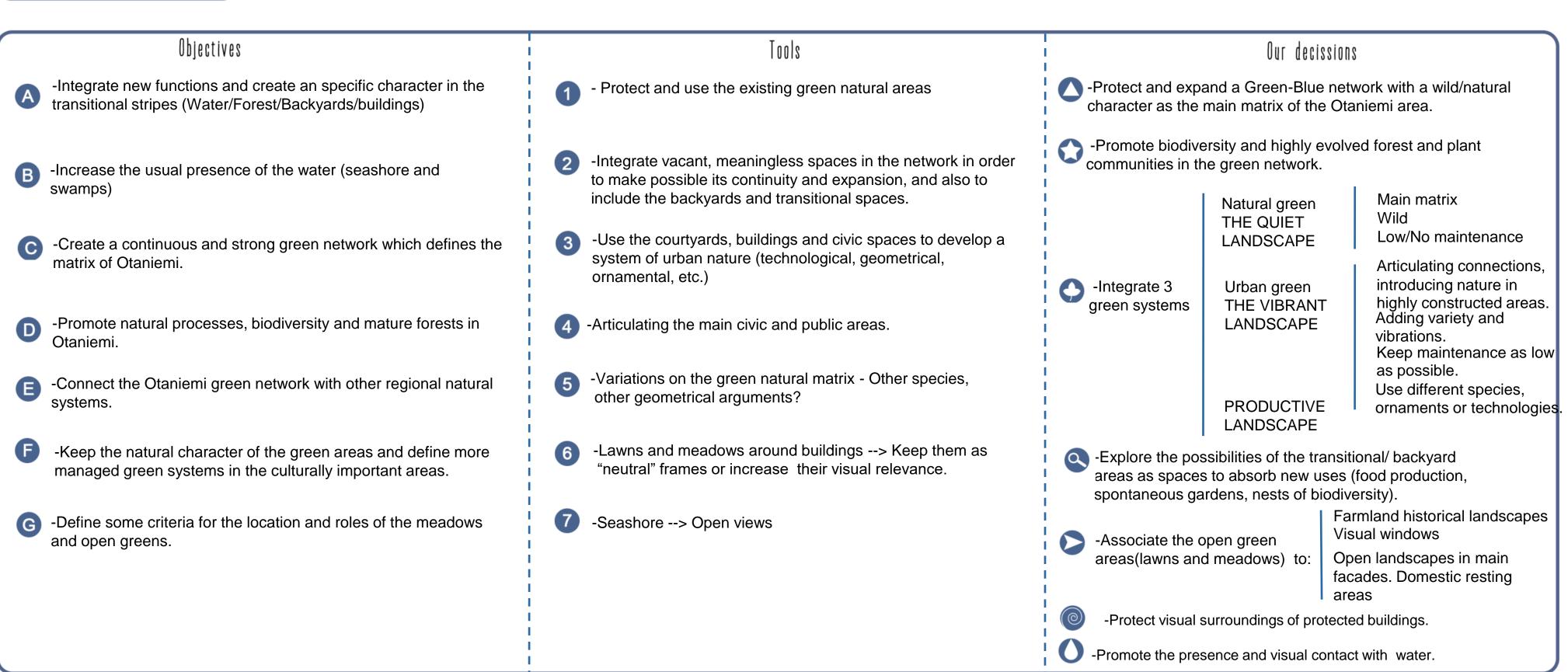
| | Our decissions |
|--------------|---|
| roduct") | Develop 2 contrasting draftplans based in qualitatively different market aproaches and |
| he product") | founded in the general strategic vision principles |
| | |

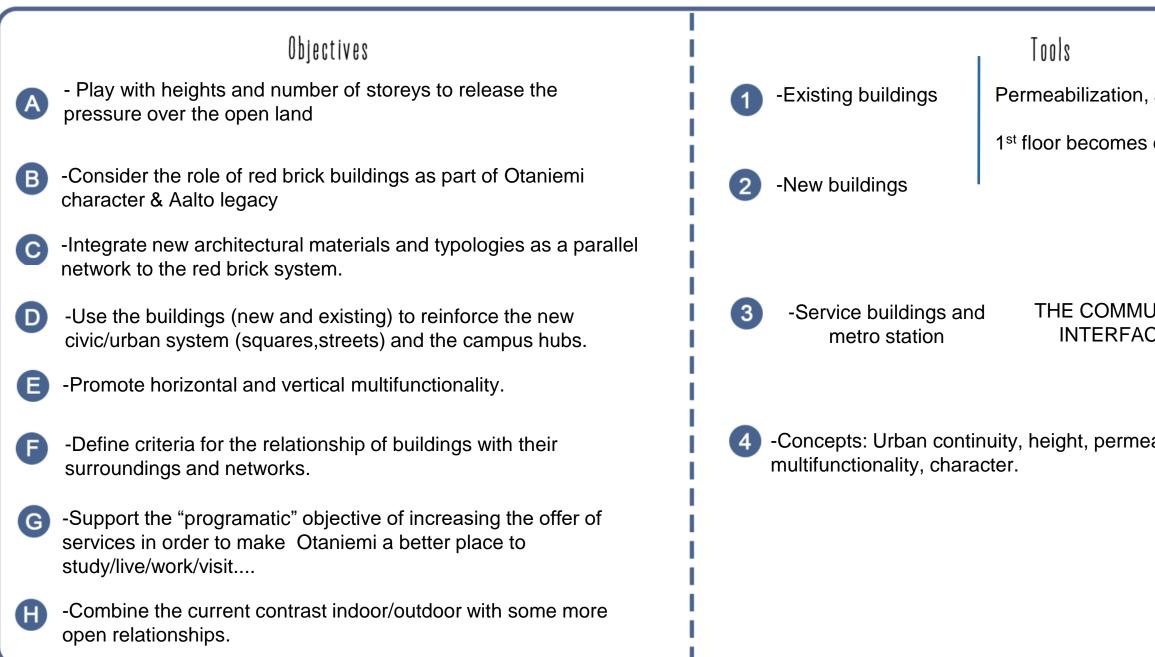
2. STRATEGIES FOR PLANNING

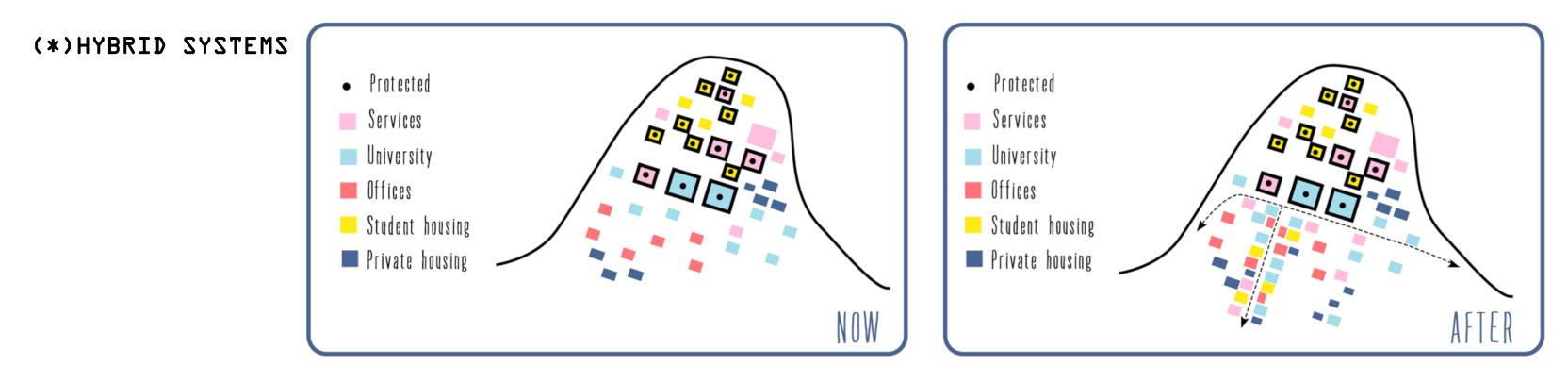


3. NETWORK & SPACES

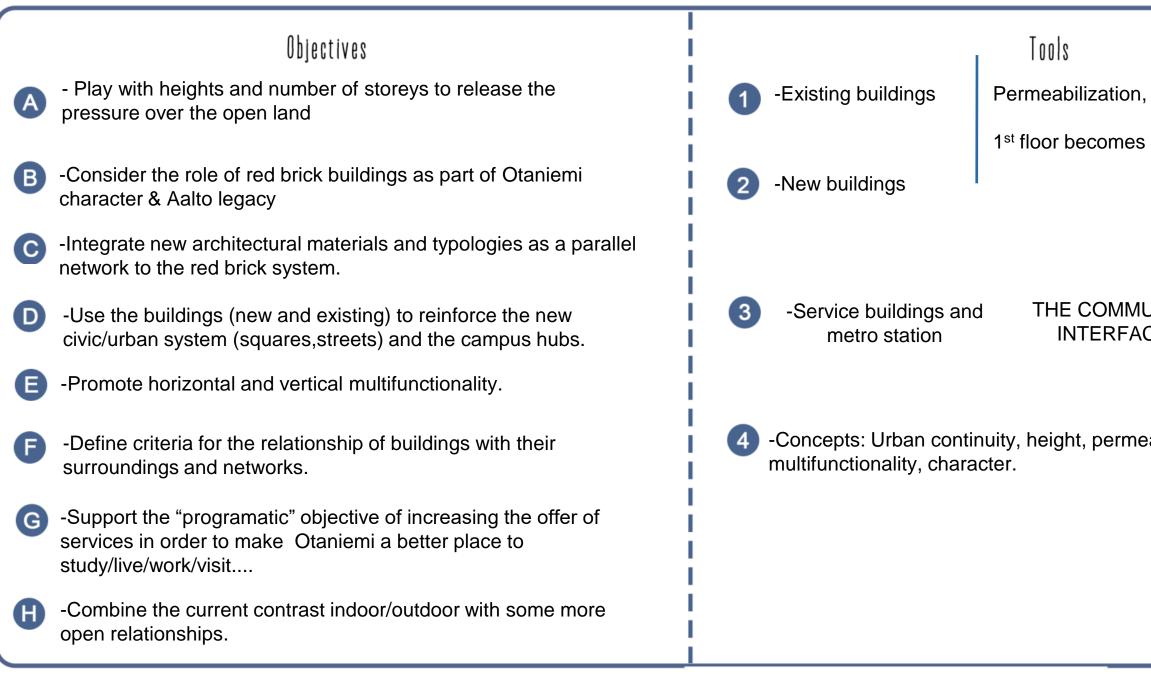
GREEN & BLUE NETWORK







| | | Our decissions | | |
|------------------------|--|--|---|---|
| n, addition of annexes | | archite | rate the red brick ecture with a ble new | In new buildings. Annexed to existing buildings. |
| | | archite | ectural system | EVOLVING BUILDINGS |
| | | -Explore ways to combine 2 types of architecture. | | |
| | University | | ase permeability along es, streets). | g civic places |
| | Dwellers | Promo | ote vertical multifuncti | onality. HYBRID |
| ACE Offices | Increase the program of shared services and reinforce the connections. | | | |
| | Services | Explore different transitional options between indoor and outdoor. | | |
| neability, | | Combine a continuous and dense built up systems along streets and a discontinuous systems of pheripheral areas around squares, streets | | |
| | | ↔ -HYBR (*) | makes possible a private housing a Reinforce the role culturaland visua Flexible and adap | y in a hybrid system which and feasible the combination of and affordable student housing e of protected buildings as I landmarks. otable design, specially in treets and main civic areas. |

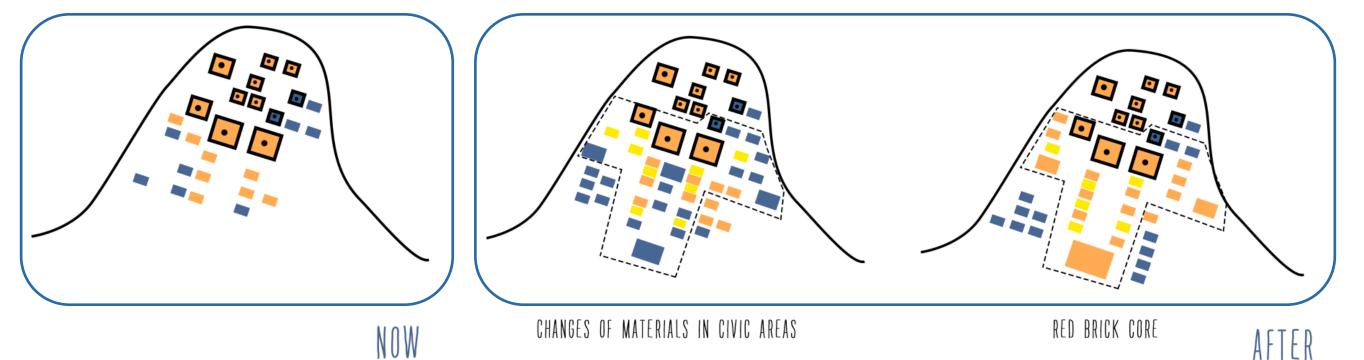


📕 Hybrid

(*)HYBRID SYSTEMS

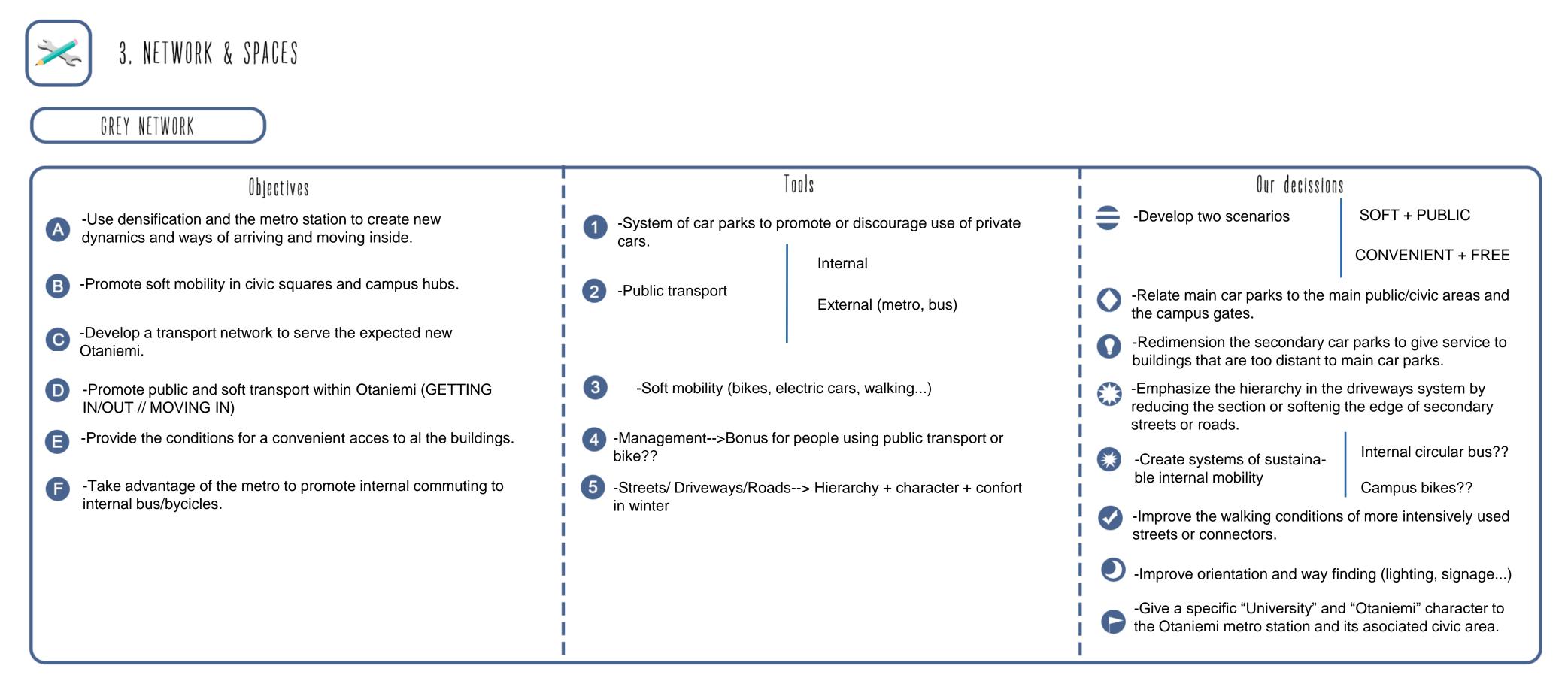
Protected

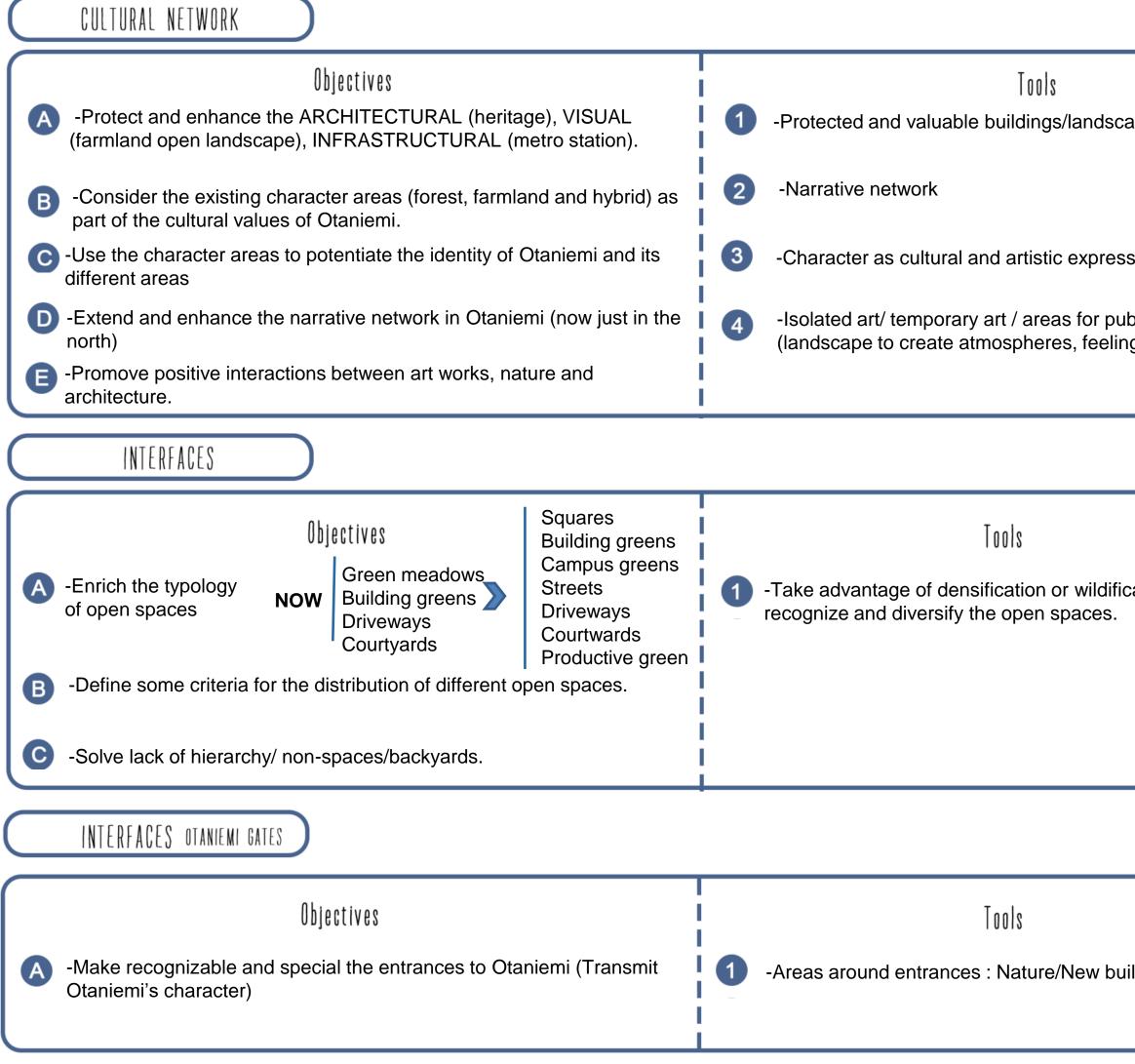
📕 Red brick building 📰 Other materials



| | | Our decissions | | |
|--|------------|--|---|---|
| n, addition of annexes es essential | | | ate the red brick cture with a | In new buildings. |
| | | possible r architectu | e new ctural system | Annexed to existing buildings. EVOLVING BUILDINGS |
| | | C -Explor | -Explore ways to combine 2 types of architecture. | |
| | University | Increase permeability along civic places (squares, streets). | | |
| | Dwellers | Promote vertical multifunctionality. HYBRID | | |
| IUNAL ACE | Offices | -Increase the program of shared services and reinforce their connections. | | |
| | Services | Explore different transitional options between indoor and outdoor. | | |
| eability, | | Combine a continuous and dense built up systems along streets and a discontinuous systems of pheripheral areas around squares, streets | | |
| | | 🛞 -HYBRI (*) | possible and fea housing and affo Reinforce the ro cultural and visu Flexible and ada | ig in a hybrid system which makes asible the combination of private ordable student housing. le of protected buildings as ual landmarks. aptable design, specially in streets and main civic areas. |

2. STRATEGIES FOR PLANNING





| apes | Our decissions -Enhance and redefine (if needed) character as cultural and artistic expression (atmospheres) | |
|---------------------------------|--|--|
| ssion. | Facilitate individual / collective artistic expression in some areas (transitional zones, metro station, communal buildings) | |
| Iblic expression of art ngs) | • Enhance, extend and balance the narrative network. | |

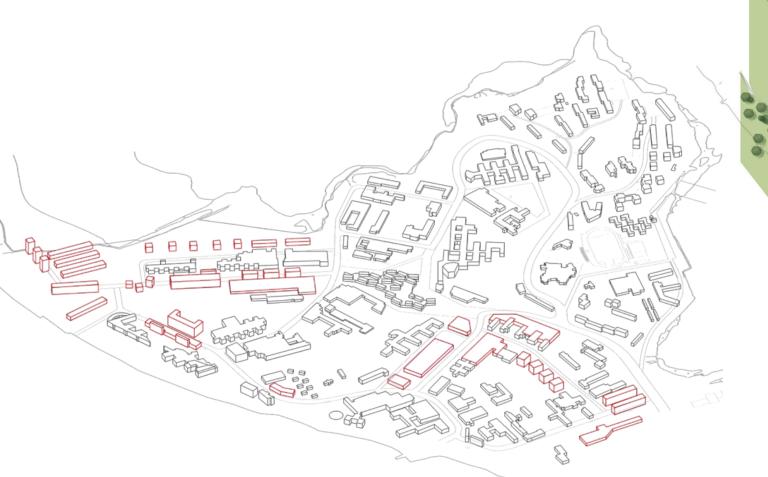
| | Our decissions | |
|----------------------------|-----------------------------|------------------------------------|
| cation (+metro station) to | Hierarchy + more typologies | CIVIC CENTER (More constructed) |
| | | DOMESTIC OUTDOORS |
| | | CAMPUS HUBS (More flexible) |

| | Our decissions | |
|-----------|--|---|
| uildings? | -Green gates to Otaniemi?? : forest/water | |
| | -Contrasting gates (forest, technology ,arts, city?) | |
| | | / |

OTANIEMI: Towards and integrative Vision 3. Two Alternative Visions

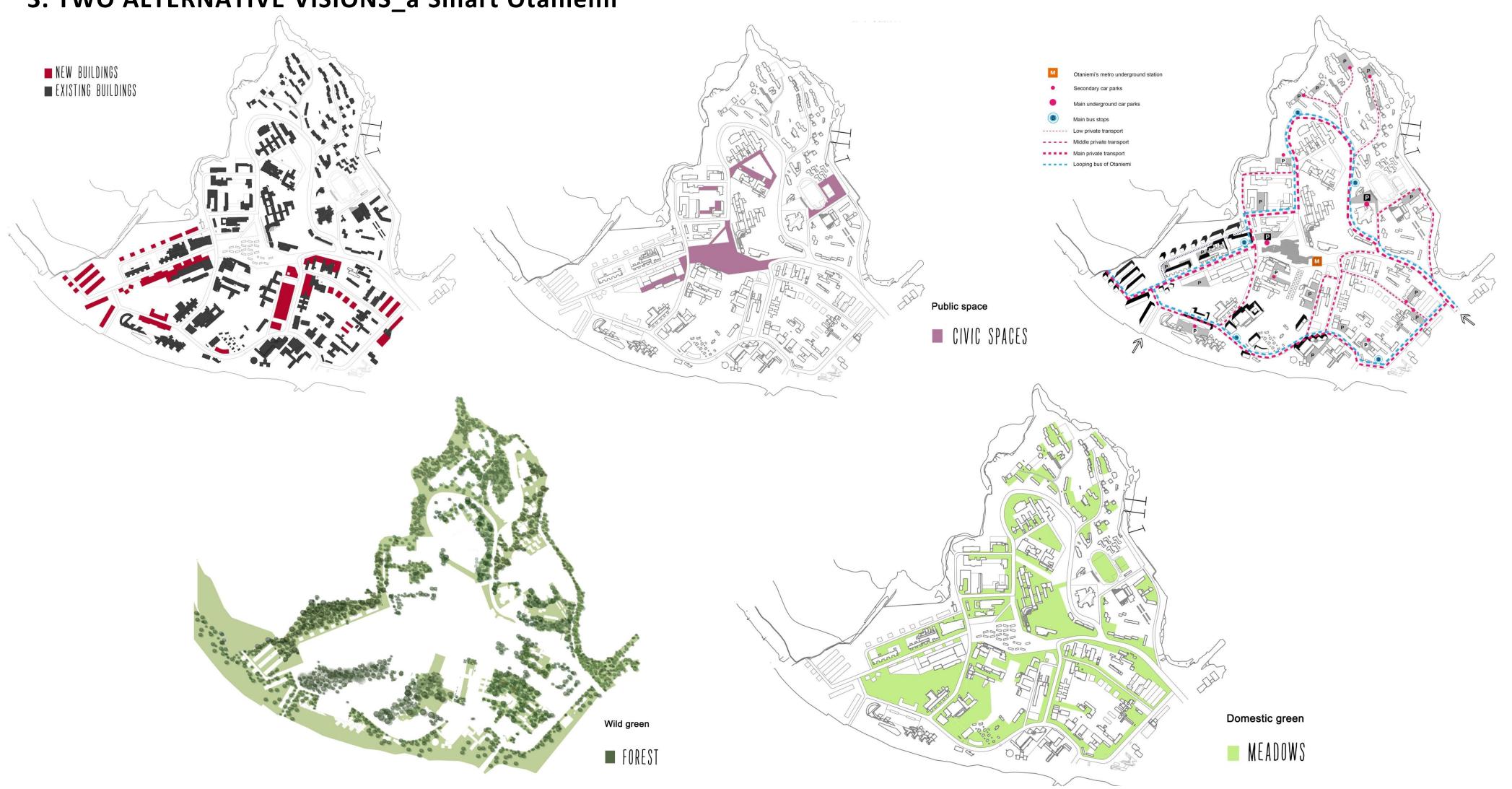
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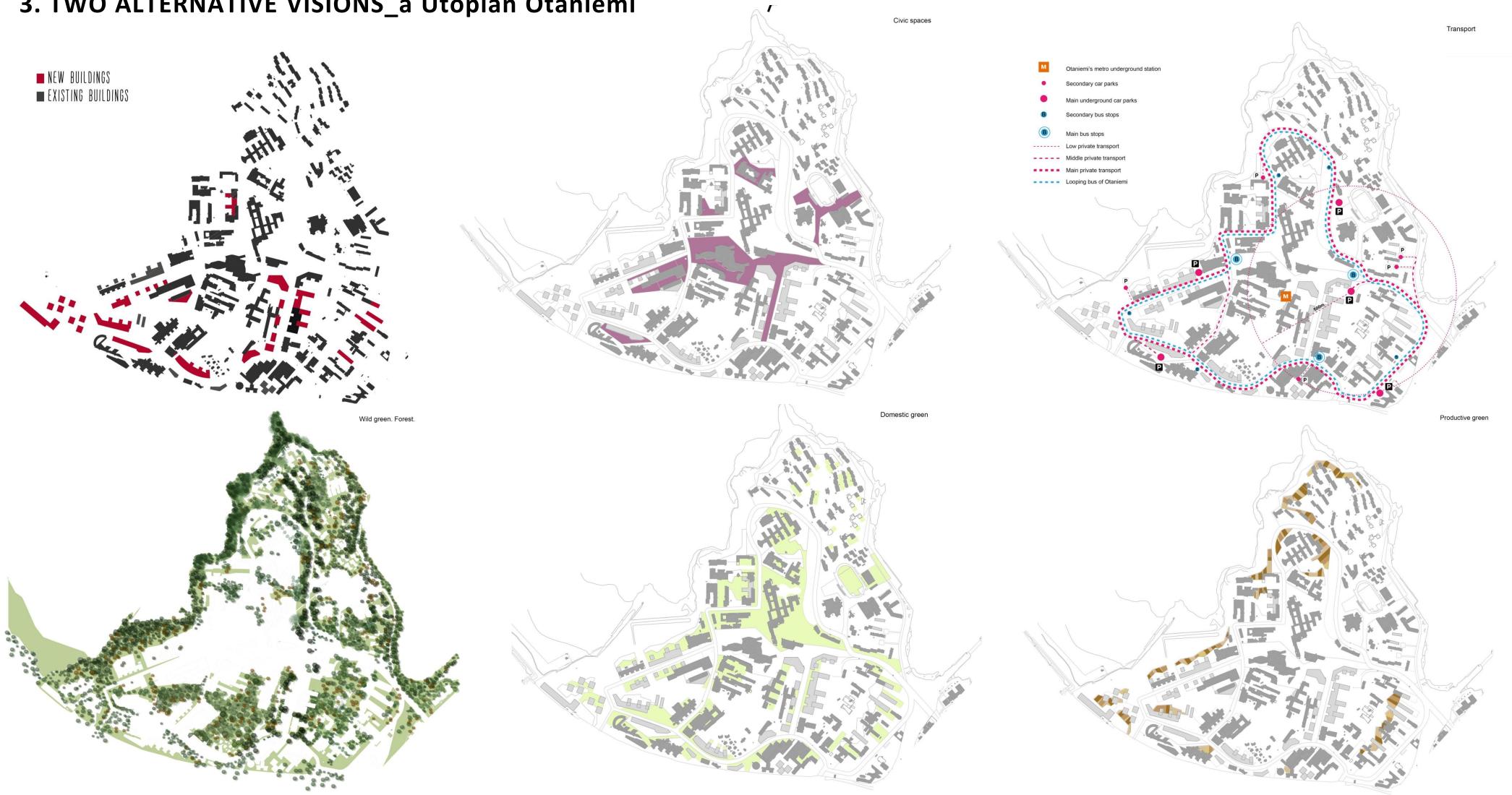
OTANIEMI: Towards and integrative Vision (L-Campus Group, Aalto University 2015: Juanjo Galan, Sari Tahtinen, Aija Staffans, Milos Mladenovic, Collaborations in drawings: Pilar Llop, Alberto Zaragoza) 3. TWO ALTERNATIVE VISIONS_a Utopian Otaniemi







OTANIEMI: Towards and integrative Vision (L-Campus Group, Aalto University 2015: Juanjo Galan, Sari Tahtinen, Aija Staffans, Milos Mladenovic, Collaborations in drawings: Pilar Llop, Alberto Zaragoza) 3. TWO ALTERNATIVE VISIONS_a Utopian Otaniemi



3. TWO ALTERNATIVE VISIONS



3. TWO ALTERNATIVE VISIONS

