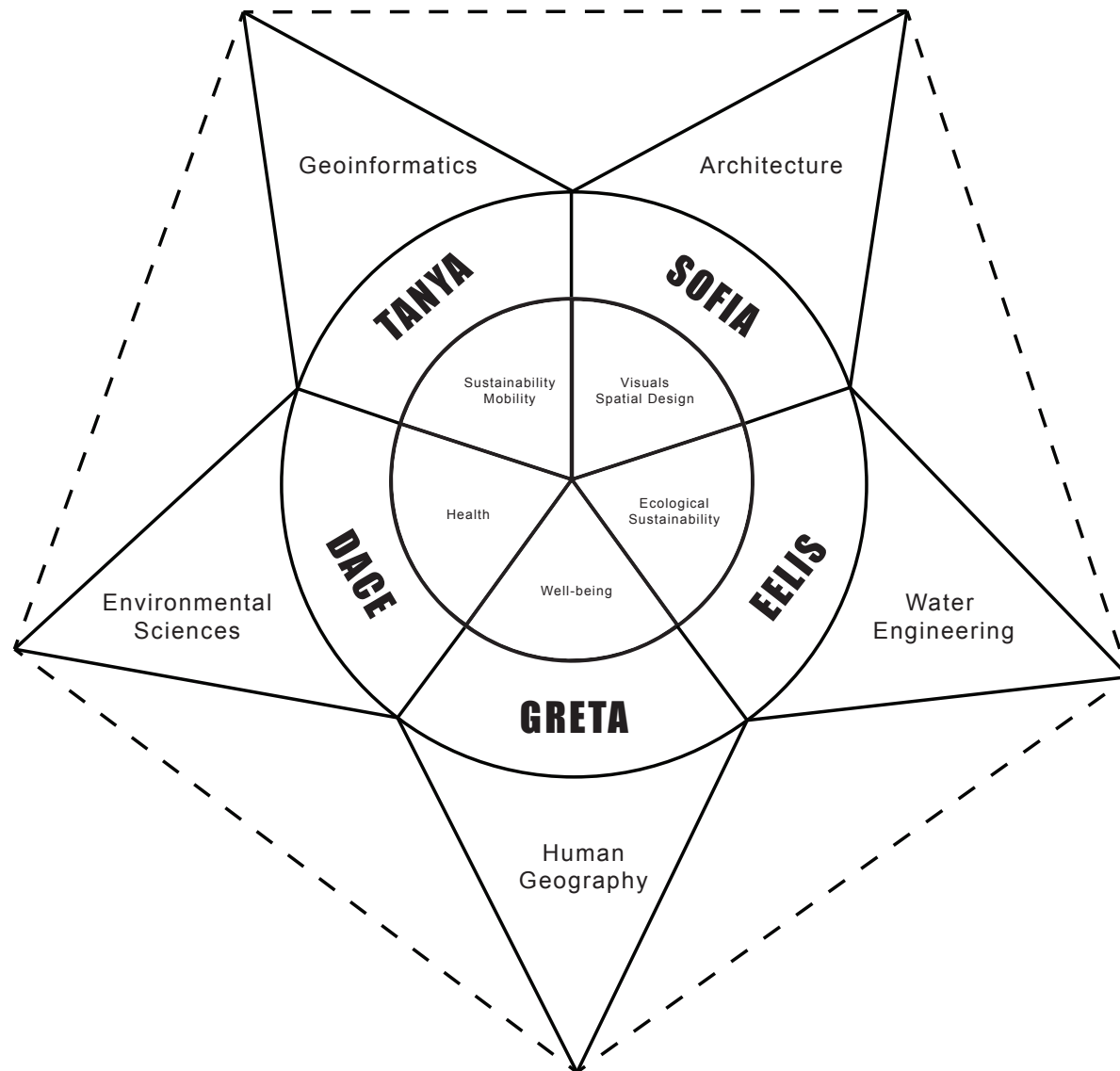


PIECE



CAKE

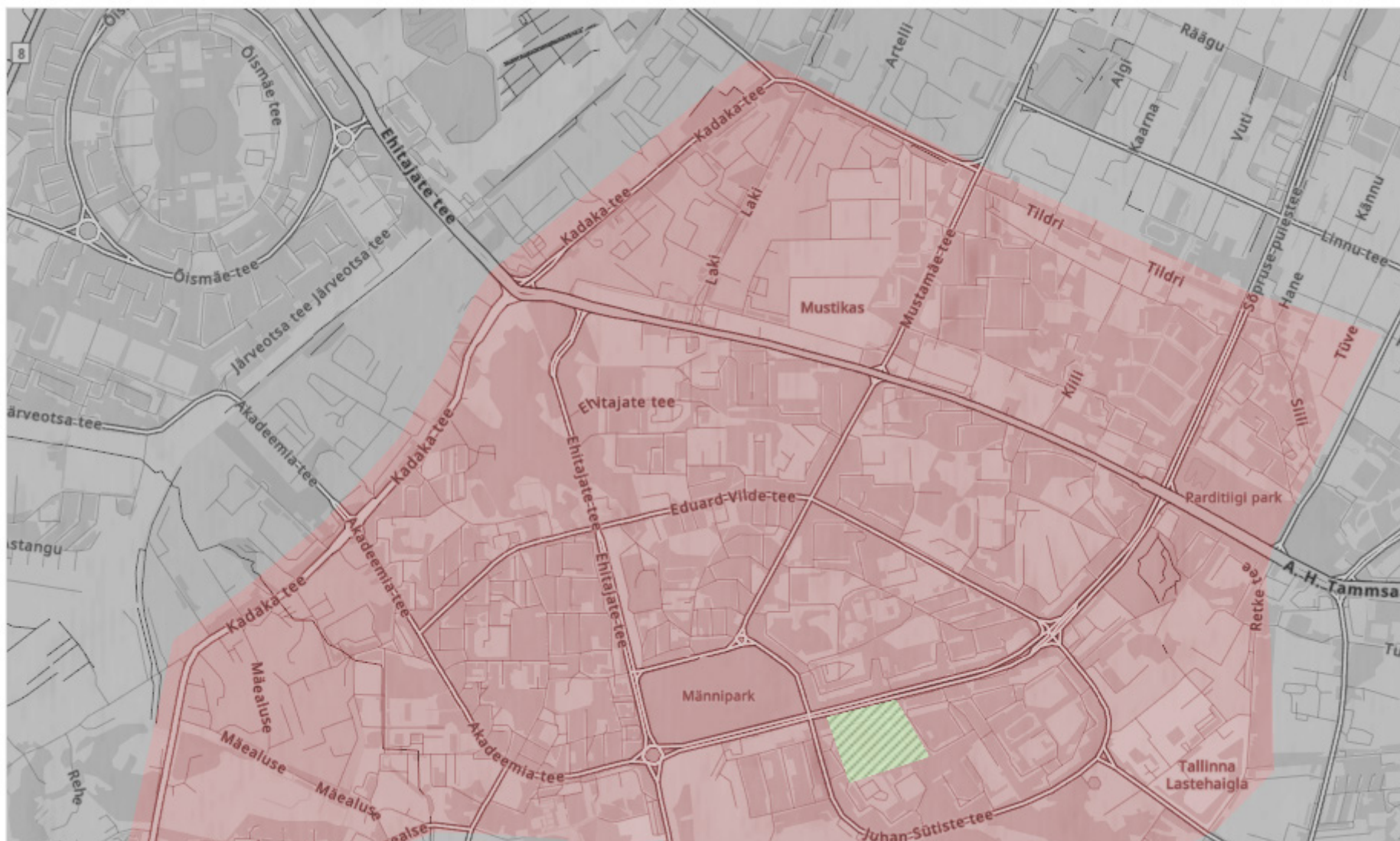
Concept for Sustainable Nodes Mustamäe Courtyards



What type of end result did we want to achieve?

- Courtyard level
- Example courtyard selected south of Sõpruse puistee in the Southern part of Mustamäe
- Emphasis on social transformation of the courtyards
- Flexible, participatory, modular solution
- Improved quality of the services and amenities available to citizens, long-term sustainability agenda
- Helping residents understand the potential value of their courtyards

Mustamäe



Example of Courtyard



Mustanmäe

CORE PROBLEMS

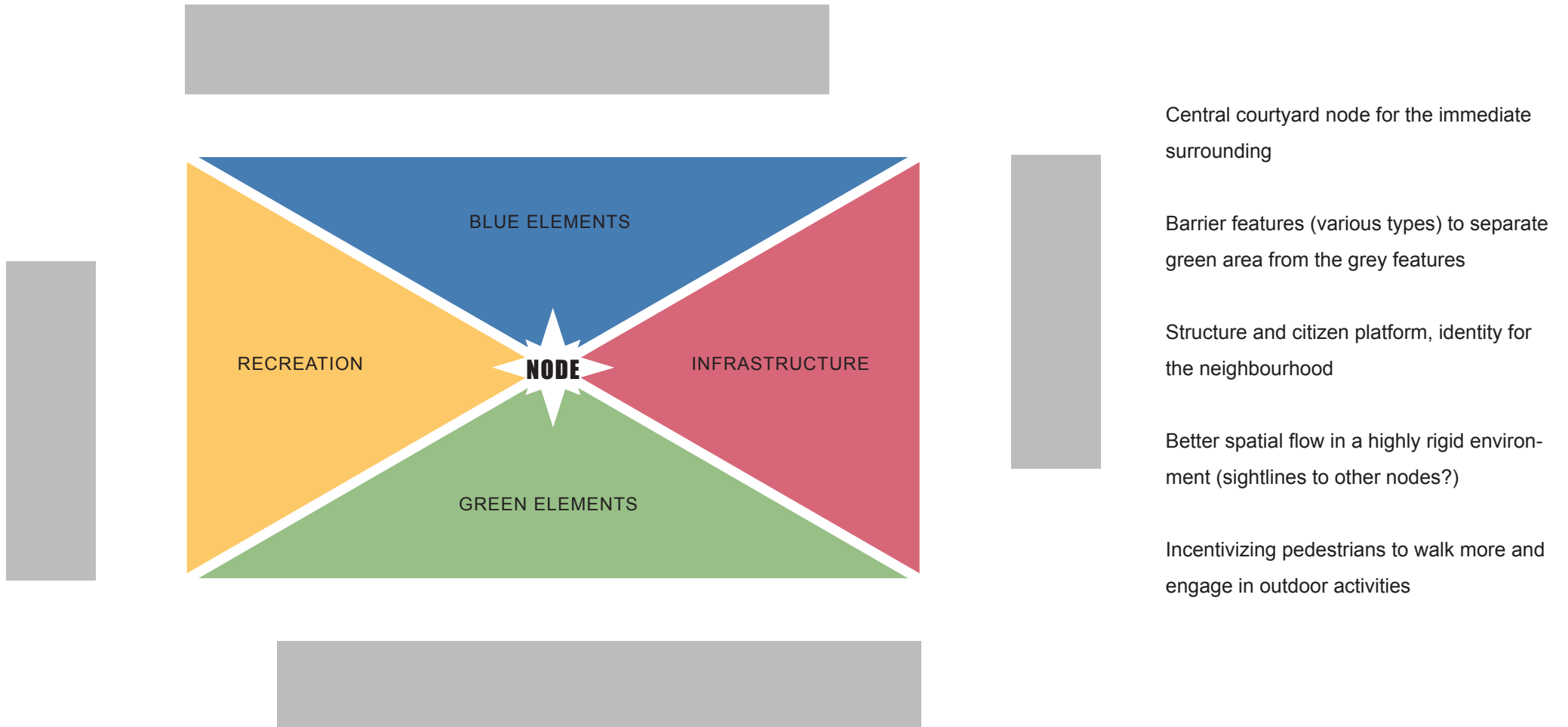
Unsustainable mobility / parking
No self expression / identity
Monofunctional public space
Lack of seasonal activities
Barriers from buildings, no flow
Lack of citizen engagement and self-expression

**CENTRAL
COURTYARD
NODE**

POSSIBLE SOLUTIONS

Central meeting point
Improved facilities
Sports
Specific identity for the area
Leisure opportunities
Education and awareness
Circular economy thinking

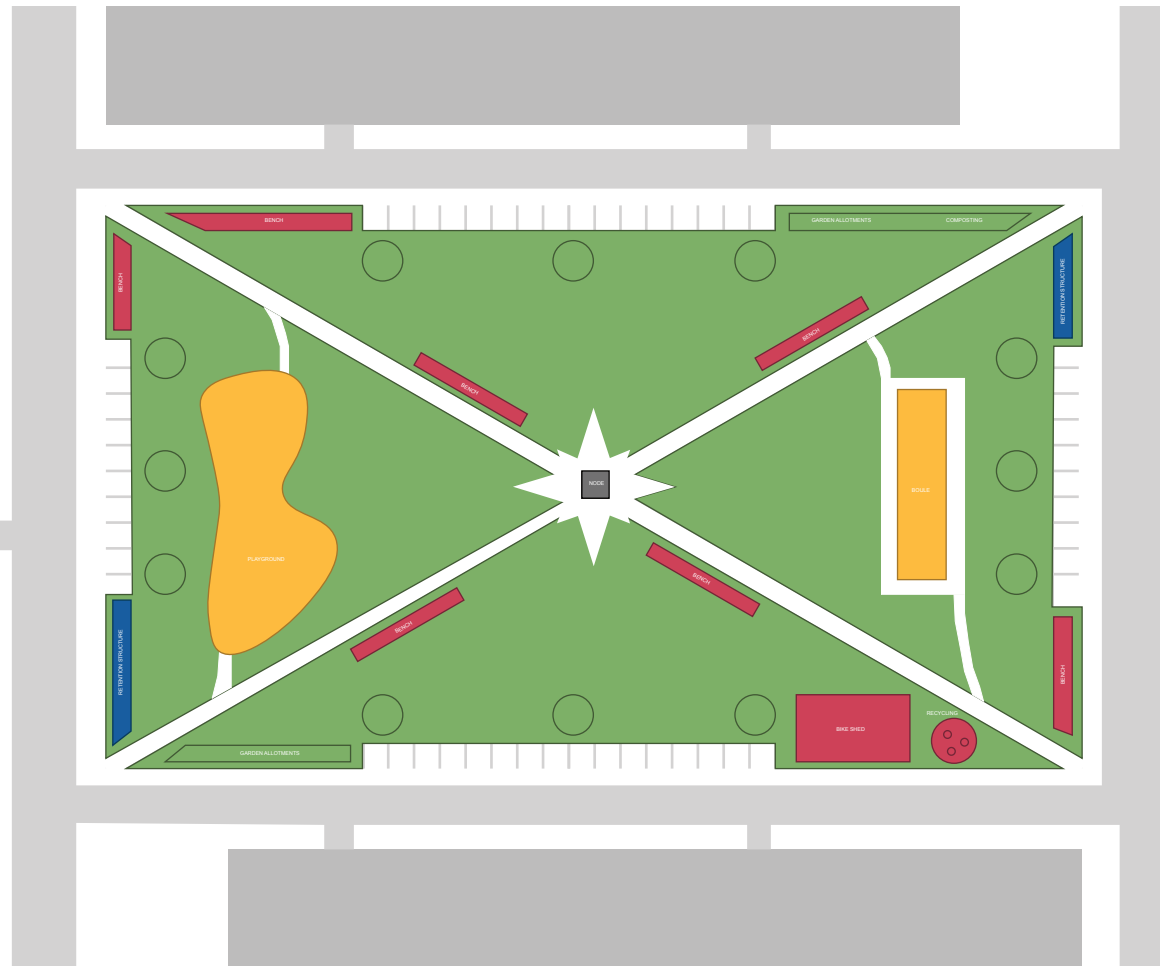
Courtyard Concept



Programme Concept

Community book exchange
Place to cook / grill outside
Exercise equipment, outdoor gym
Dog park
Public Art
Playground
Minigolf or other approachable sport

Solar panel
Lighting solution
Bicycle shed
Benches

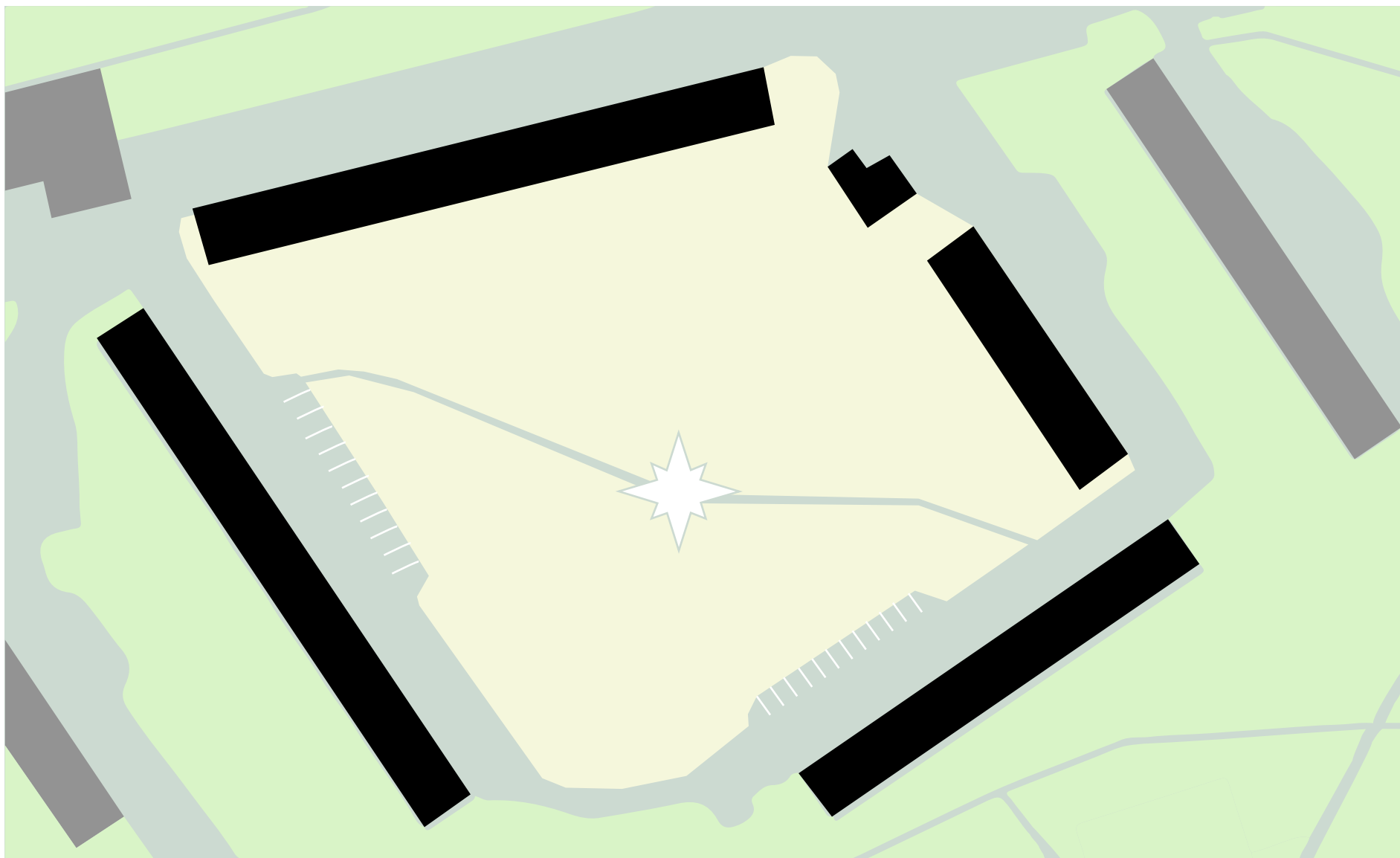


Rainwater Collection Pool
Water Retention Structures /
Bioswales
Flowing Water

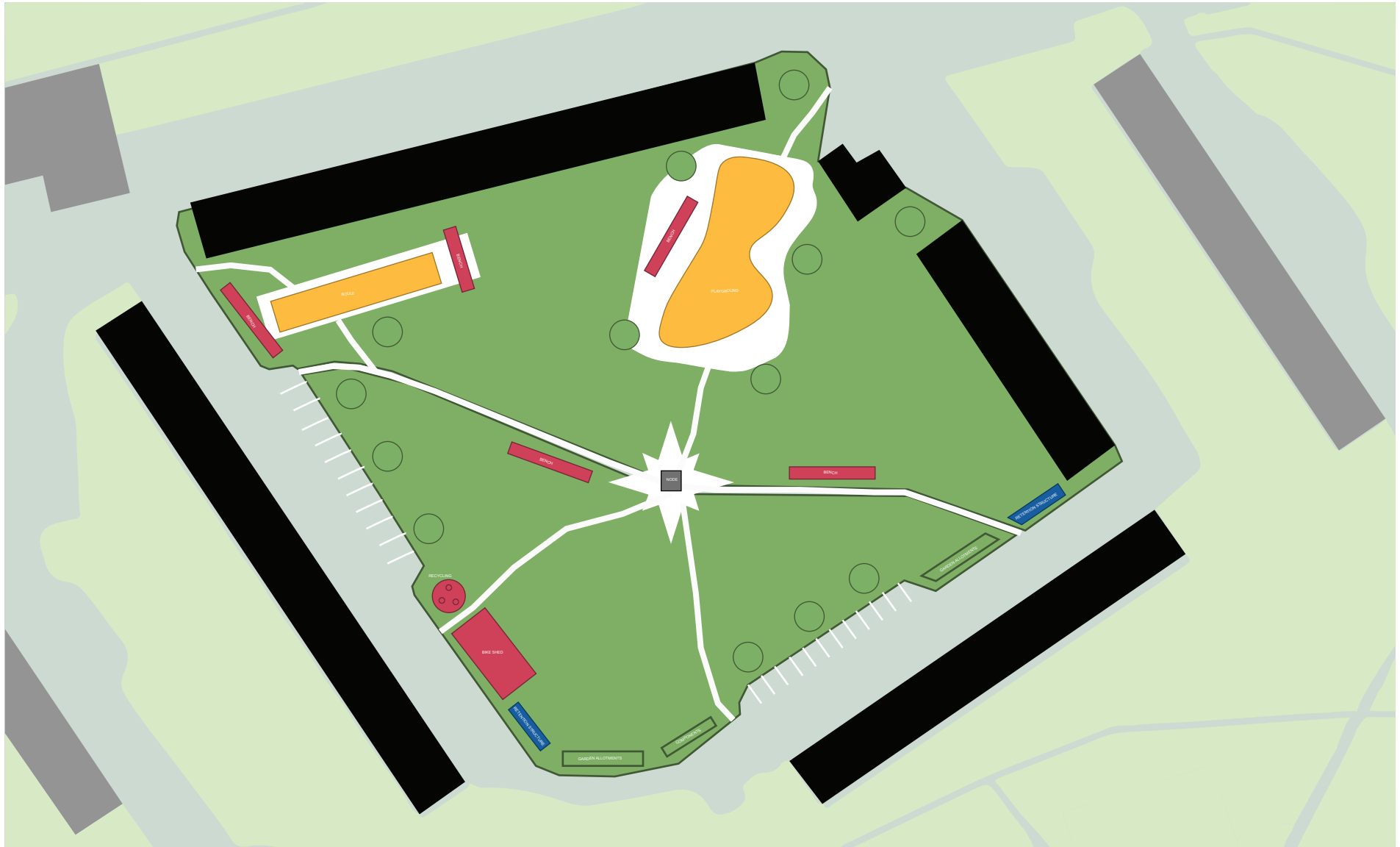
Recycling bins
Compost
Community gardening
Trees and bushes (with berries?)
Soil improving vegetation (phytore-mediation)

Blue elements Green elements Infrastructure Recreation

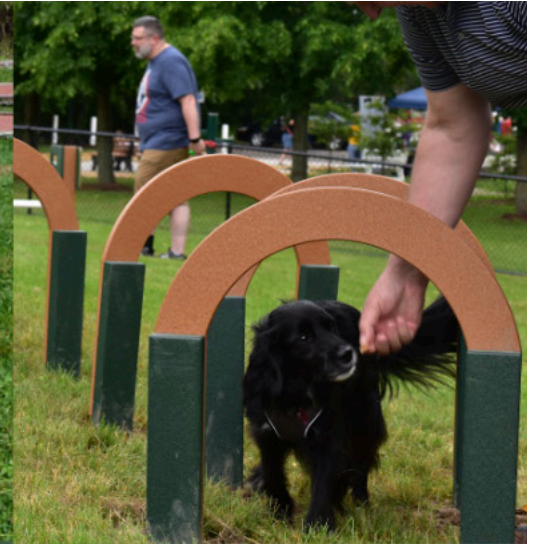
Pilot Courtyard



Pilot Courtyard Example



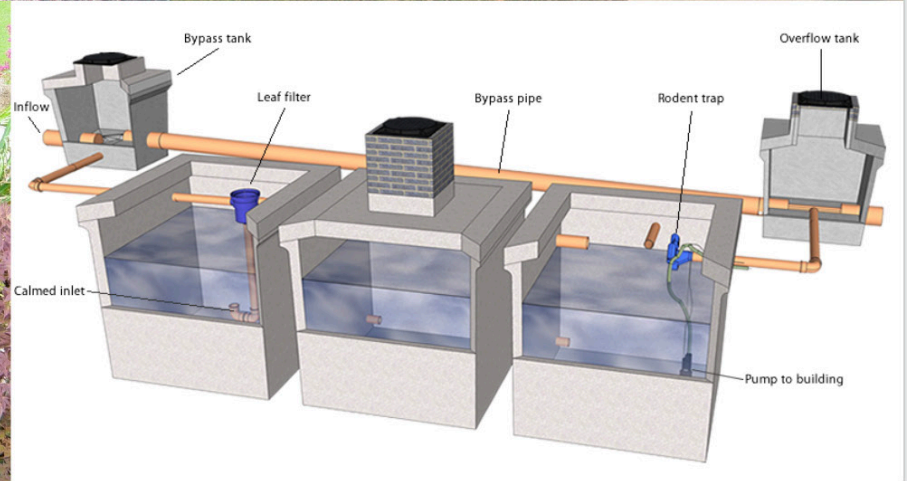
Recreational Areas



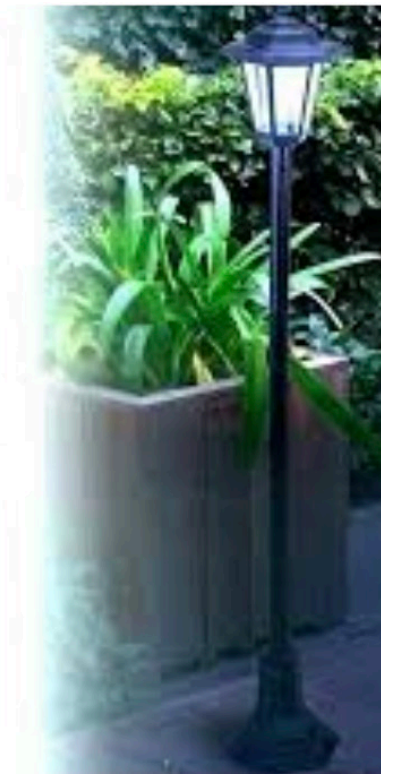
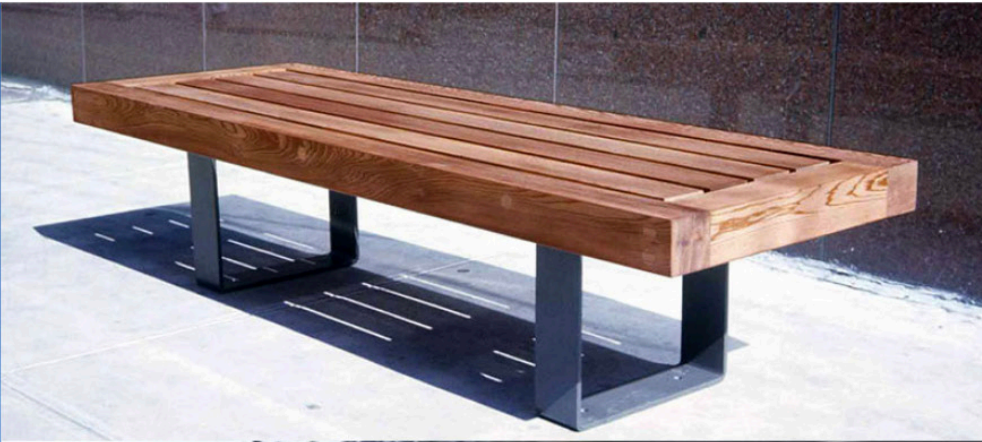
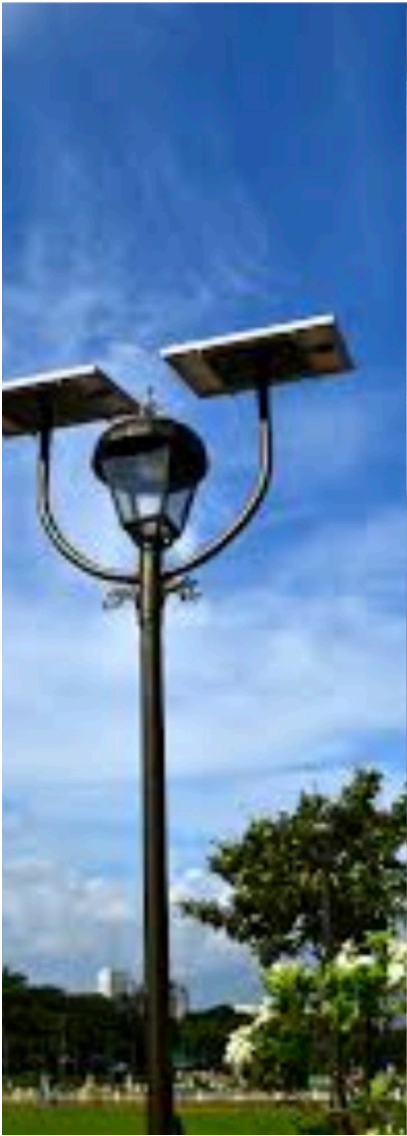
Green Features



Blue Features



Infrastructure



The proposed barriers in courtyards can be combined with solutions on a larger, city-wide or national scale, such as:

- Tax incentives for investing in public spaces? For using garages further away?
- Fees for parking, invest the revenue into public spaces?
- Awareness-raising campaign (“horror film” of parking-filled courtyards)?
- Upkeep fee for public spaces, reduce fee for peoples not using the parking?
- Remove/reduce minimum car parking requirement for buildings?

Conclusions and First Steps

Multifunctionality, modularity and balance between human needs and nature should be the focus in Mustamäe. Citizens should be the decision-makers in the courtyards. Solving mobility problem, we aspire to increase awareness through culture and information campaign rather than top-down restrictive rules, so one will understand the benefits and choose healthier means of transportation rather than be pressed to do it.

First steps to implement the project:

- Find people from apartment owners' associations and municipal government
- Starting with one pilot area, expanding based on the experiences
- Technical methods that could be employed to verify the concept:
 - * Feasibility study, Environmental Impact Assessment
 - * Hydrological modeling (storm water management)
 - * Life Cycle Analysis to improve urban metabolism thinking of the concept
 - * Pollution studies (what types of pollutants) on soil/air
- Qualitative methods that could be used:
 - * Interviews with the authorities on different levels
 - * Citizen consultations and municipal authorities