

Hundipea

Naabruskond mida vormivad inimesed, loodus ja
võimalused



Location

3,5 kilometers from Tallinn's center

Industrial zone, closed off to the public

Company

Hundipea OÜ owners = Existing landowners

Hundipea OÜ owner of future commercial spaces

Strong motivation to ensure quality in the area



**“Terviklik, pehme ja
kliimaneutraalne linnaruum 2024”**

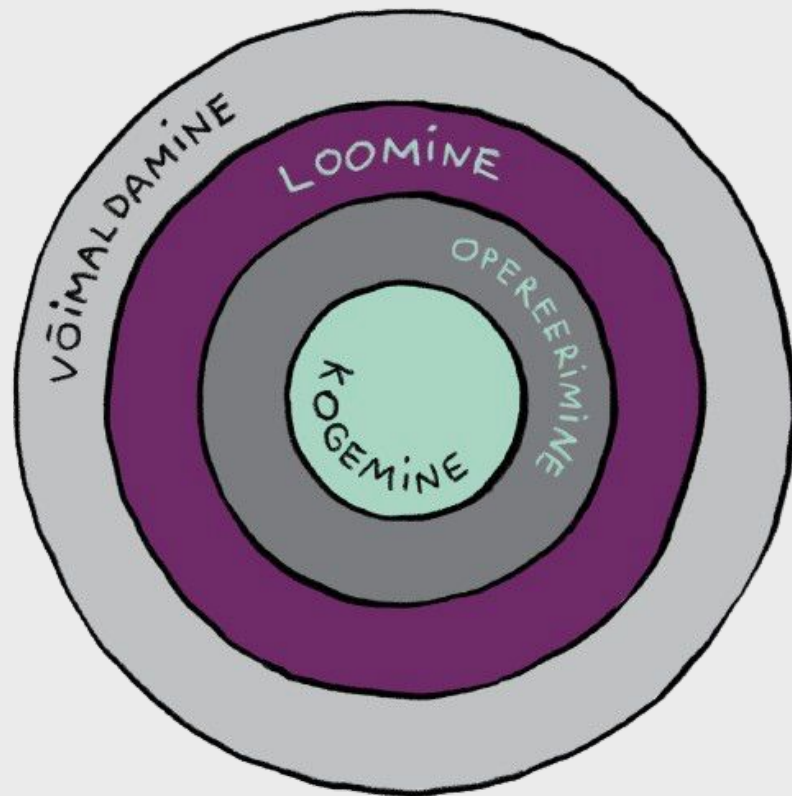




Hundiþea laob endale tugevat põhja

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Hundipea fookused



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Uuringud ja teadustööd

Mittenõutavaid uurimustöid ja uuringuid: 30+
Uurimustööde investeeringud:

- üle 15 000 töötunni
- Ca 1'5M €

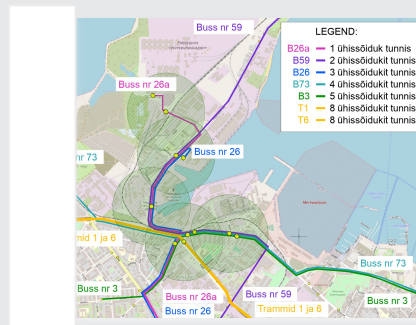
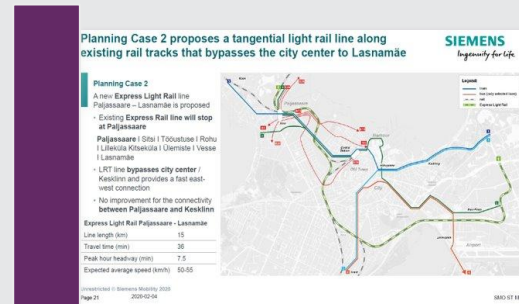
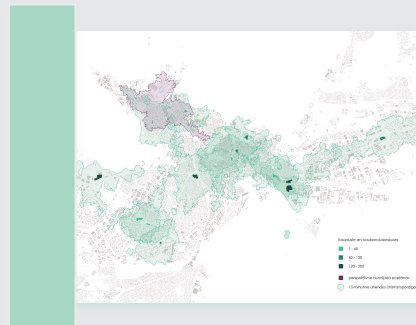
Skoop: Antropoloogiast kuni tehniliste hoonete sõlmahendusteni

Näiteid uuringutest:

- Siemens mobility, Põhja- Tallinna liikuvuse uuring
- Rakendusuuring TalTech - Digikaksik
- Rakenduslik antropoloogia keskus
- KU Lueven University - Towards Resource Circularity in the Built Environment

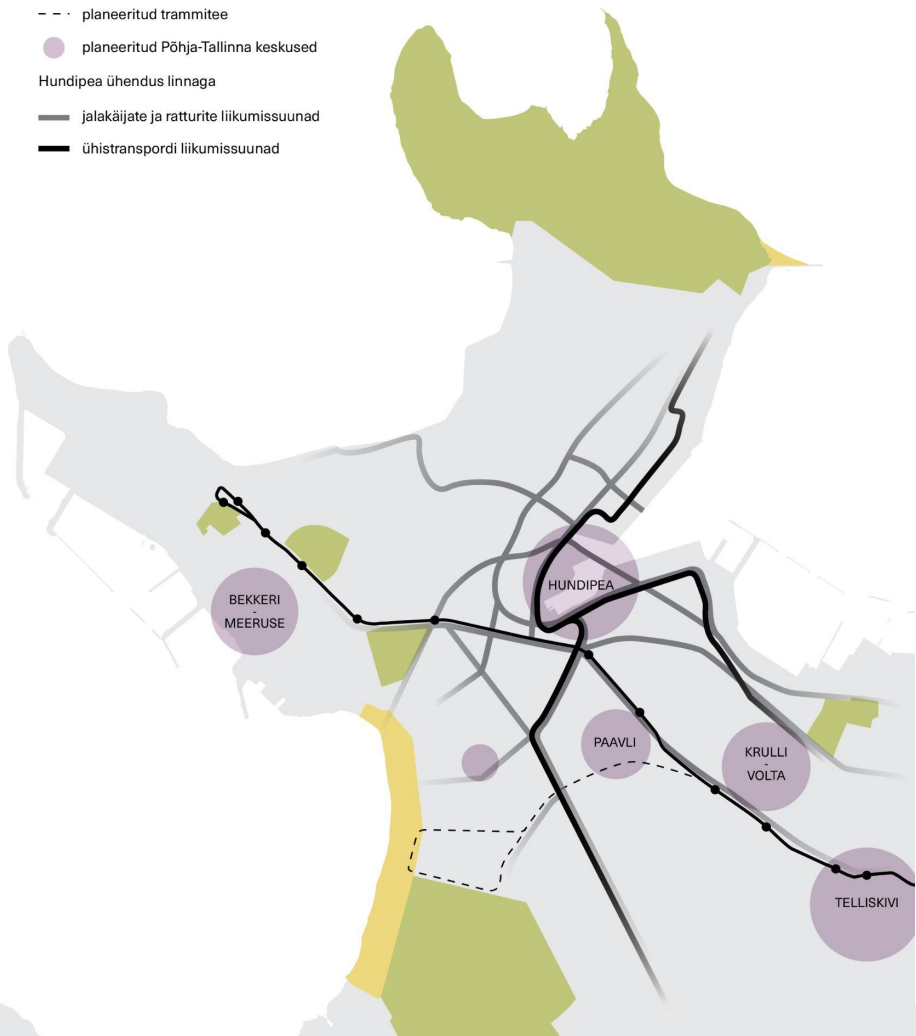
Toetume parimatele praktikatele ja soovitudele. Näiteid:

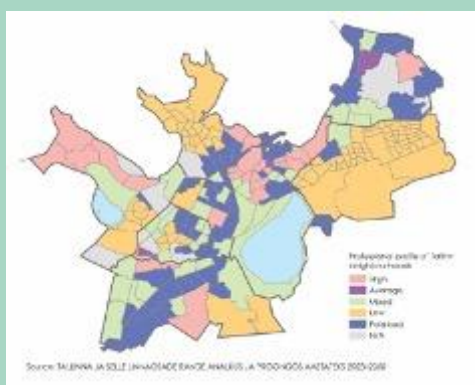
- EU suunised;
- Strateegia "Eesti 2035";
- Üleriigilise planeeringu „Eesti 2030+“;
- Üleriigiline planeering „Eesti 2050“;
- Rohetiigri ehituse teekaart 2024;
- ÜRO keskkonna programm;
- UN-Habitat (2014);
- WHO, jne.



Perspektiivsed Põhja-Tallinna pargid ja rohekoridorid

- olemasolev trammitee
 - - - planeeritud trammitee
 - planeeritud Põhja-Tallinna keskused
- Hundiäpe ühendus linnaga
- jalakäijate ja ratturite liikumissuunad
 - ühistranspordi liikumissuunad







Bringing tech industry approach to urban design

UX (User Experience) and **UI** (User Interface) **design** for who, why, how are we designing?

Starting with the user — people, nature, and wildlife

Decisions guided by **real data and research**

Neighbourhood needs to actually work for **those who live, move, and grow within it**

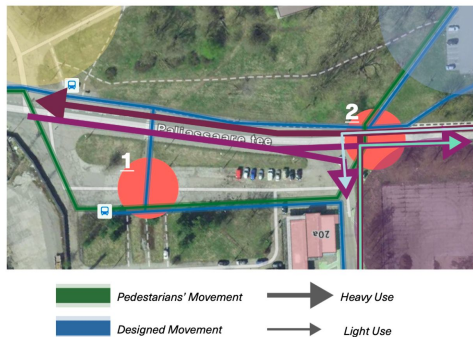


Projects for the community with the help of Tallinn city

Community garden as a place to spend free time, funded by Tallinn city

Critical Area 1: Decisions to use the existing crossing are made here, creating a key point of interaction.

Critical Area 2: Pedestrians heading to the social housing area often avoid the designated crossing, opting instead to cross at a location with multi-layered vehicle traffic. This lack of a proper crossing increases risks for both drivers and pedestrians.

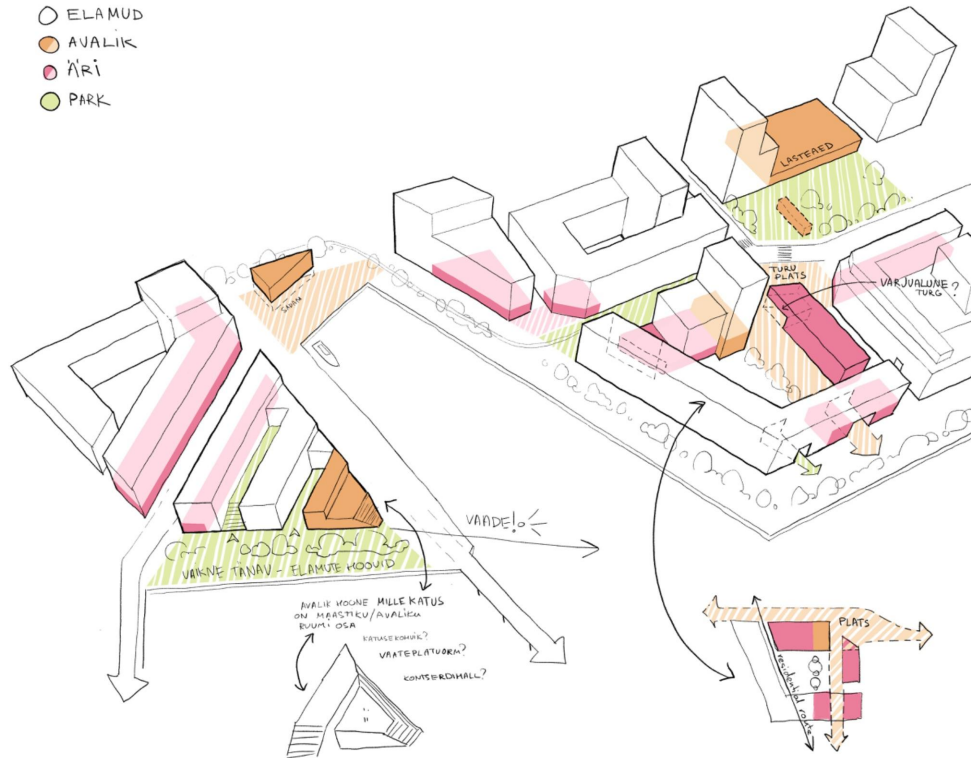


Safety around local bus stop

- Pedestrian movement analysis
- 70% of pedestrian don't use the designated walking path

Suurest pildist kuni aina detailsemaks

- ELAMUD
- AVALIK
- ÄRI
- PARK

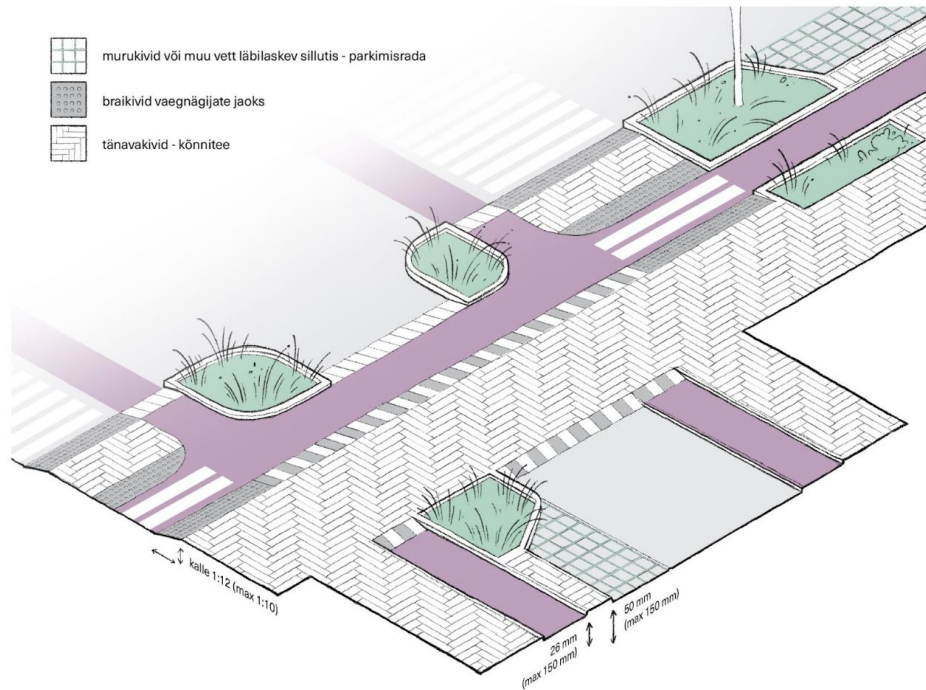


Mida detailsemaks lähme seda keerukam on pusle



Ülekäigud

-  murukivid või muu vett läbilaskev sillutis - parkimisrada
-  braikivid vaegnägiljate jaoks
-  tänavakivid - kõnnitee



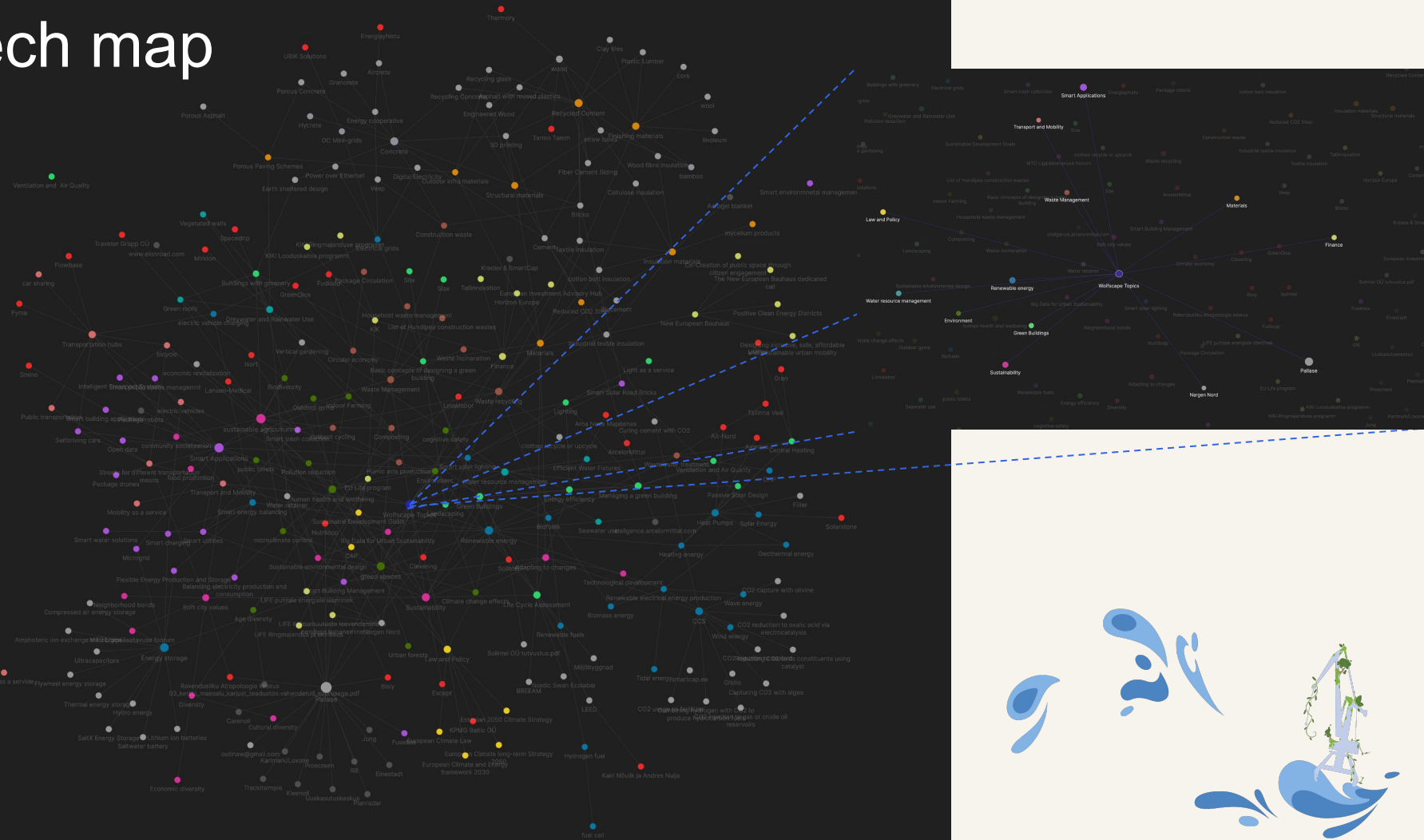
Kvartalisese tänav ja peatänav ristumise näidis.

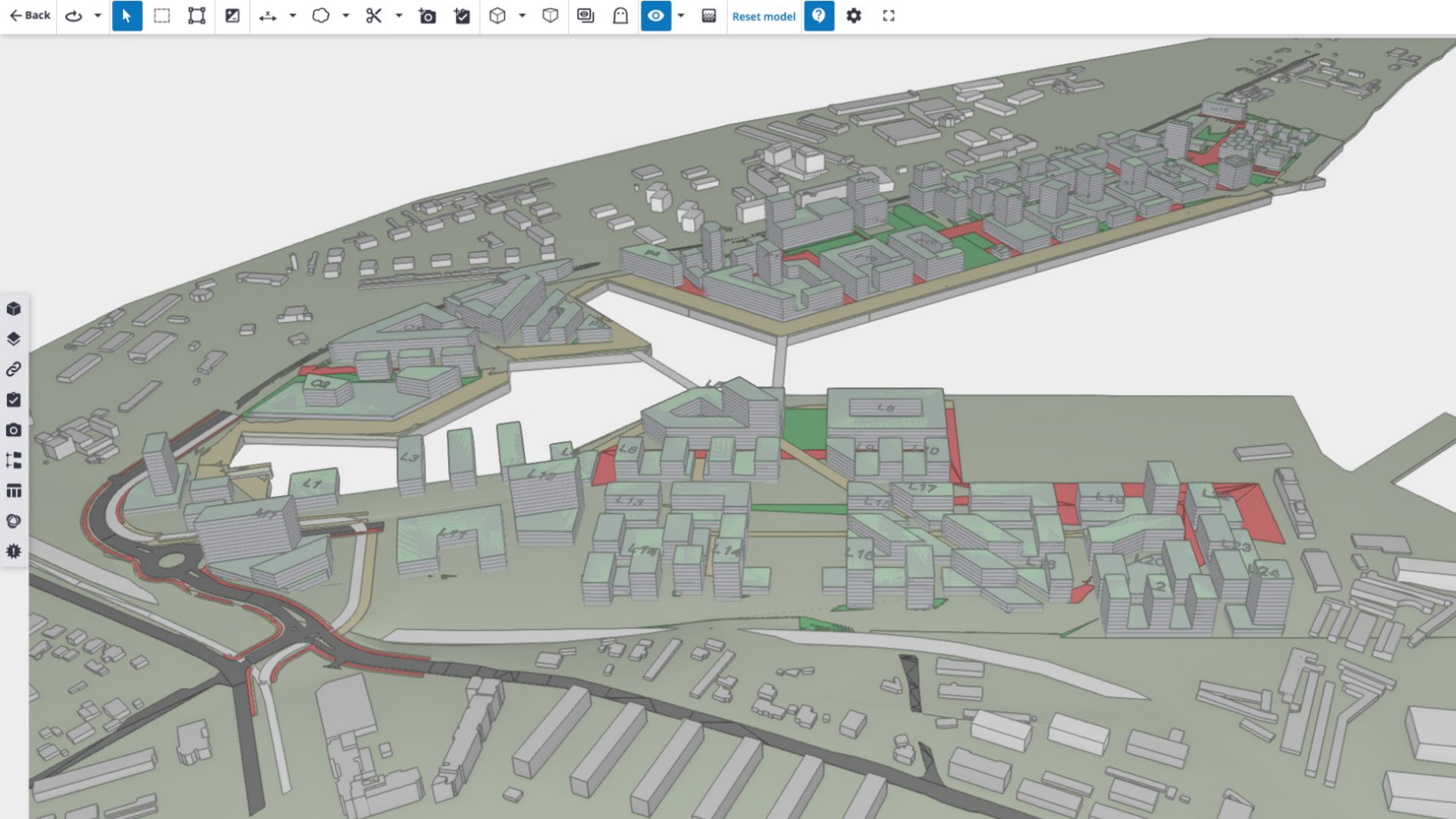


Me teeme eeltöö, et olla tark tellija ja
teaksime mida me küsime

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Tech map



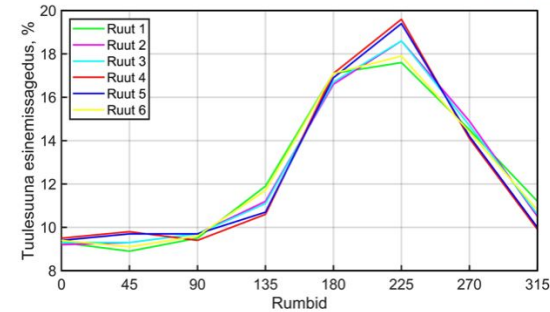


Wind and waves analysis

Current and future climate analysis

- **Water levels** behave as usual in Tallinn Bay
- Only **northern storms** bring high waves to Hundipea (not very frequent but can be strong)
- Extremely **high waves** and **water levels** do not occur at the same time
- Wave crest hazards are modest
- Overtopping threat moderate

Tuuleroos: tavaline

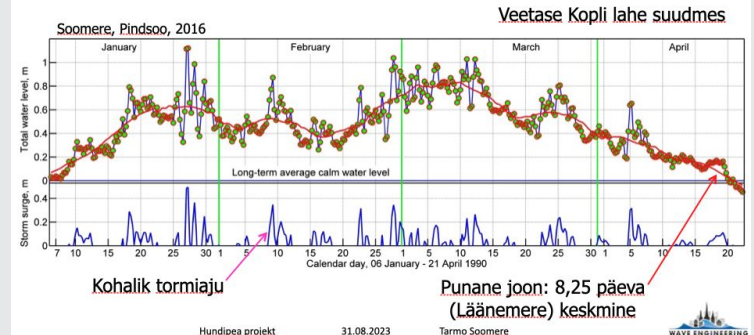


Sagedased edelatuuled, harvad ida-, kirde- ja põhjatuuled

Hundipea projekt 31.08.2023 Tarmo Soomere



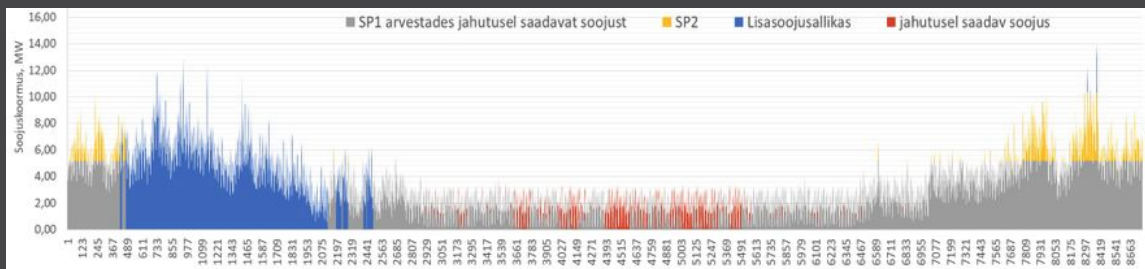
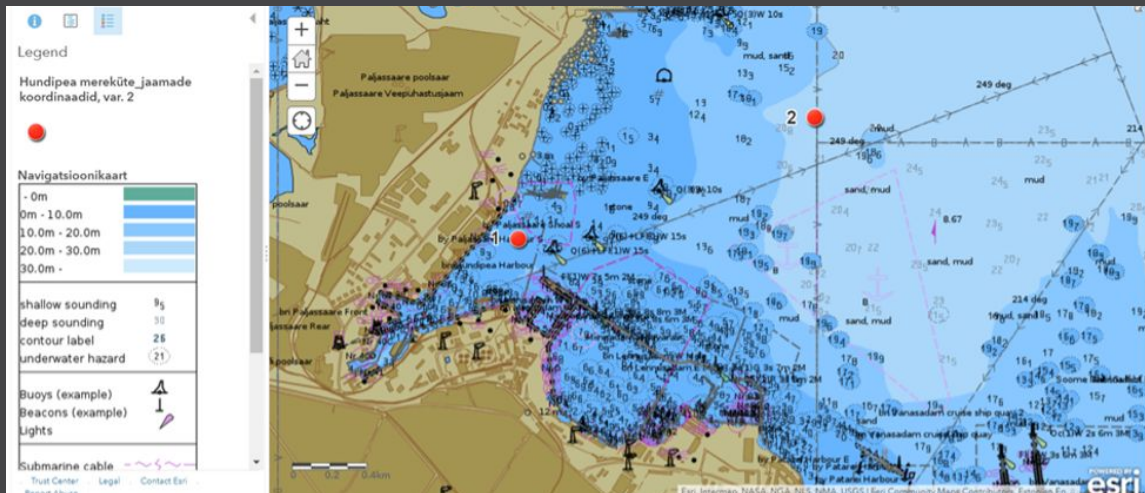
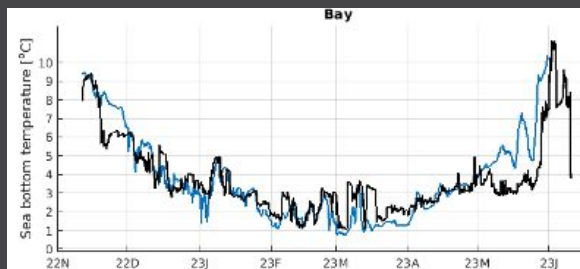
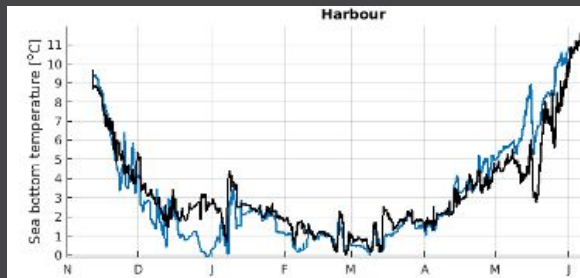
Läänemere veetase: võib tõusta kõrgele pikaks ajaks



Hundipea projekt 31.08.2023 Tarmo Soomere

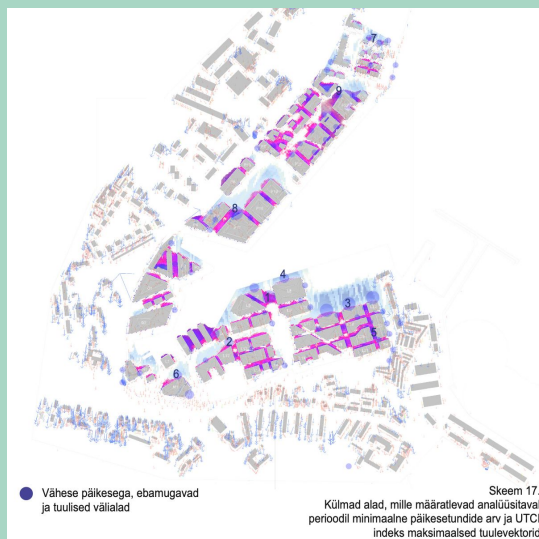
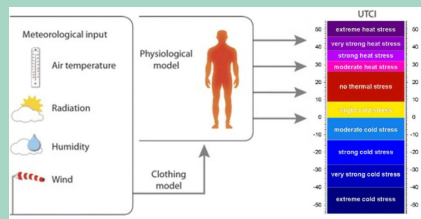


Marine heating



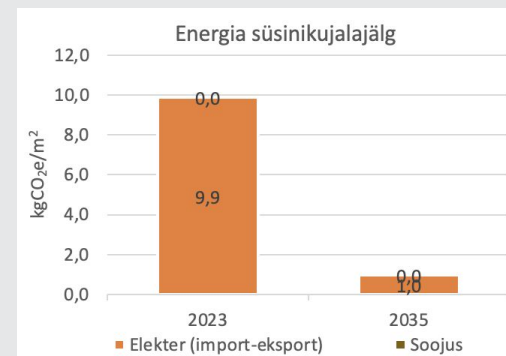
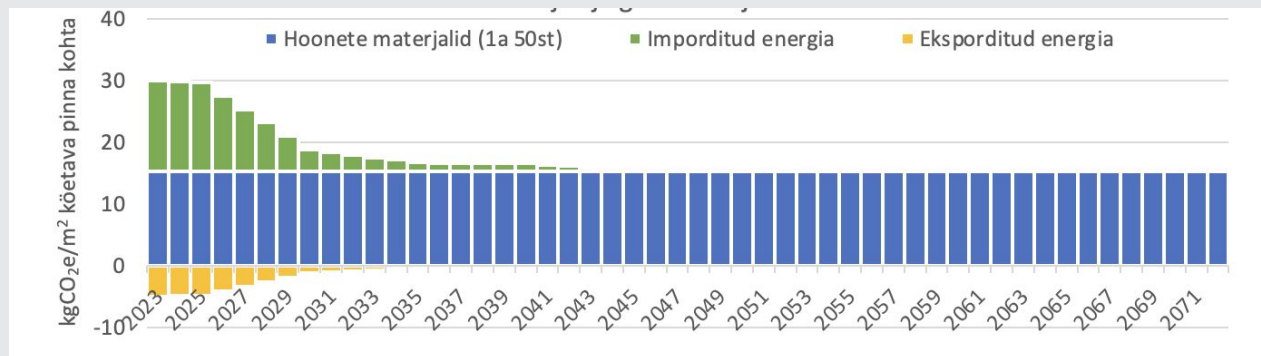
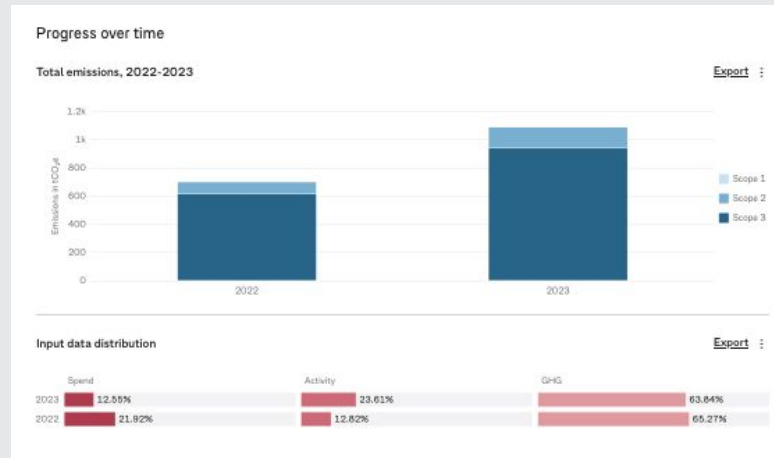
Microclimate analysis

- Sun analysis
- Wind analysis
- Outdoor comfort analysis



Aiming for climate neutrality

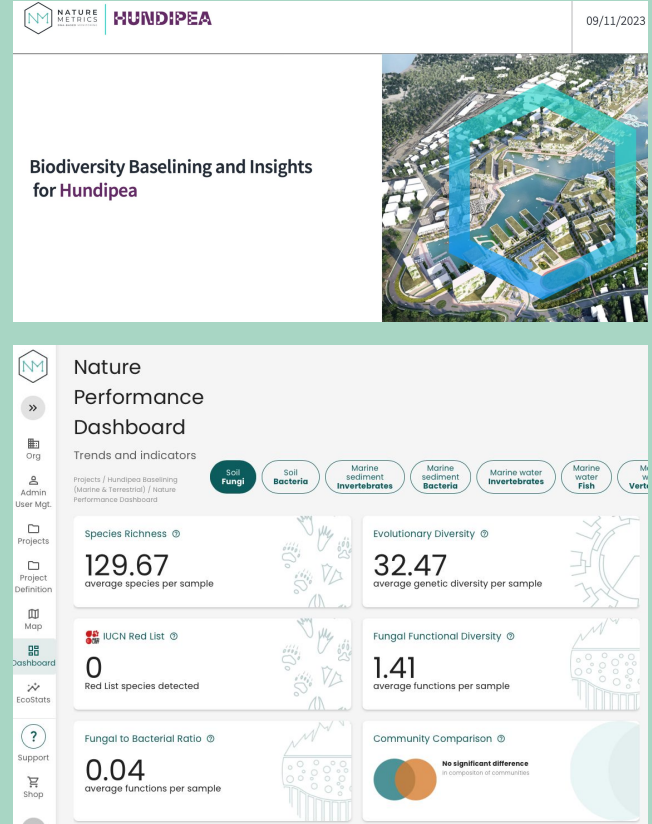
CO2 footprint **baselining** with Normative and **modelling** with Taltech and Pluss Architects



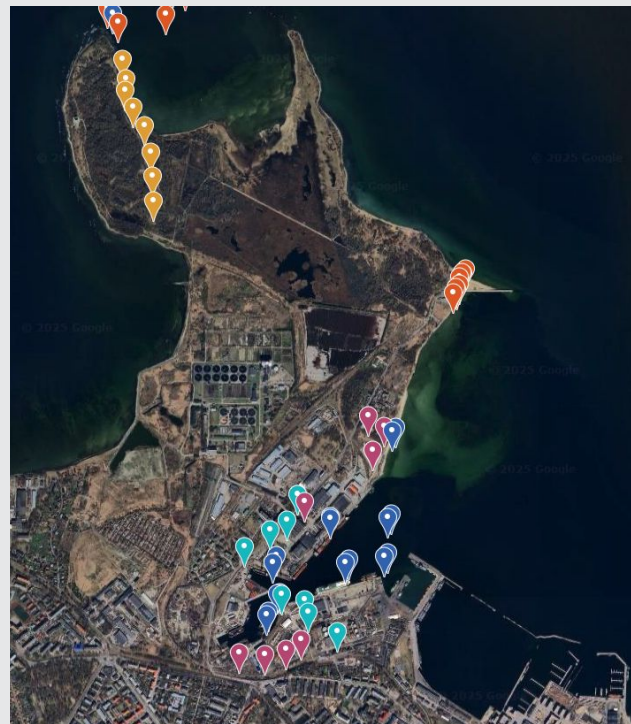
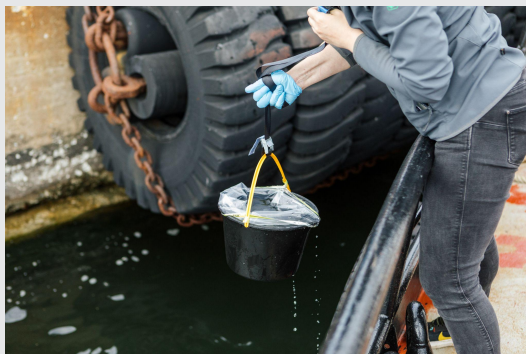
Biodiversity baselining with eDNA

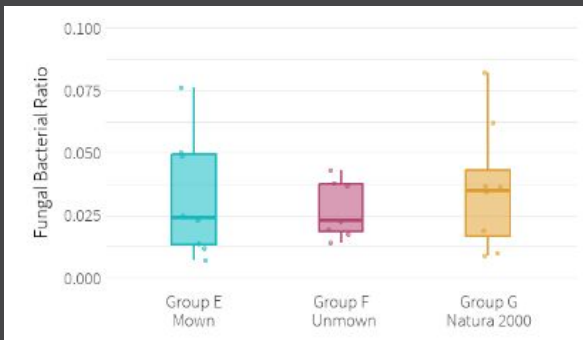
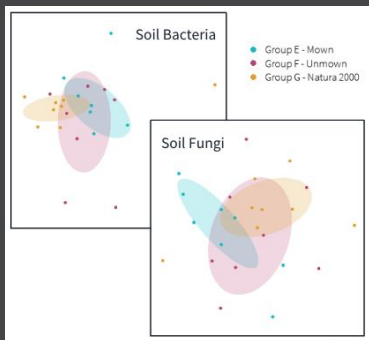
Environmental DNA (eDNA) is genetic material obtained directly from environmental samples such . This genetic material is **shed by organisms** through various means, including mucus, feces, tissue particles, skin cells, and other biological residues.

eDNA is a powerful and non-invasive tool for studying biodiversity and monitoring ecosystems.



eDNA sampling





Insight to the initial biological diversity

Examples of CHEGD Fungi Detections



One sample detection in
Group G - Natura 2000

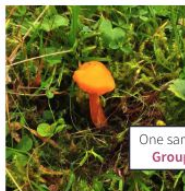


Clavaria amoenoides (Clubs, corals and spindles fungi)



One sample detection in
Group E - Mown

Clavaria californica (Clubs, corals and spindles fungi)



One sample detection in
Group F - Unmown

Persistent waxcap,
Hygrocybe acutoconica
(Waxcap fungi)

Two sample detections in
Group F - Unmown



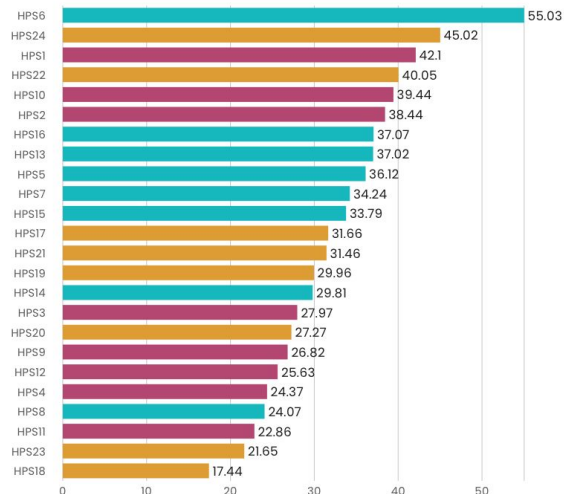
Geoglossum cookeanum
(Earthtongue fungi)



One sample detection in
Group G - Natura 2000

Snowy waxcap, *Cuphophyllus virgineus*
(Waxcap fungi)

Sample ID Evolutionary Diversity

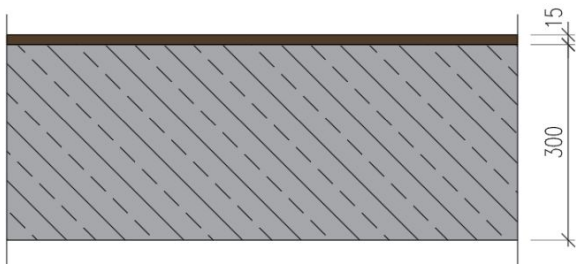




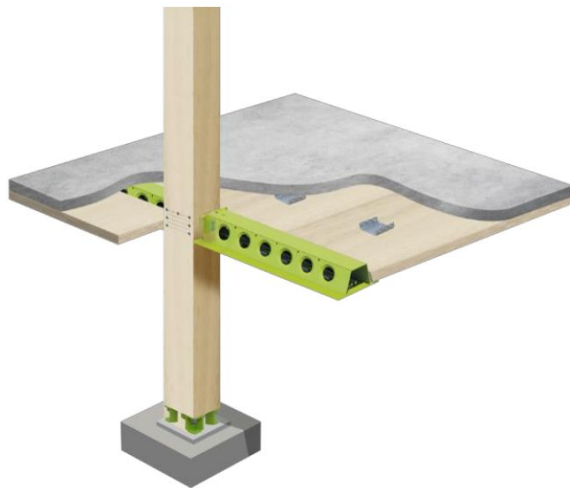
Kuni materjalideni välja

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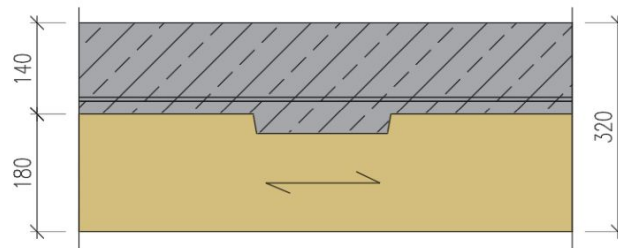
ORIGINAALNE LAHENDUS



Monoliitbetoonist plaat 750kg/m^2



ALTERNATIIVNE LAHENDUS



Puit-betoon komposiit 440kg/m^2

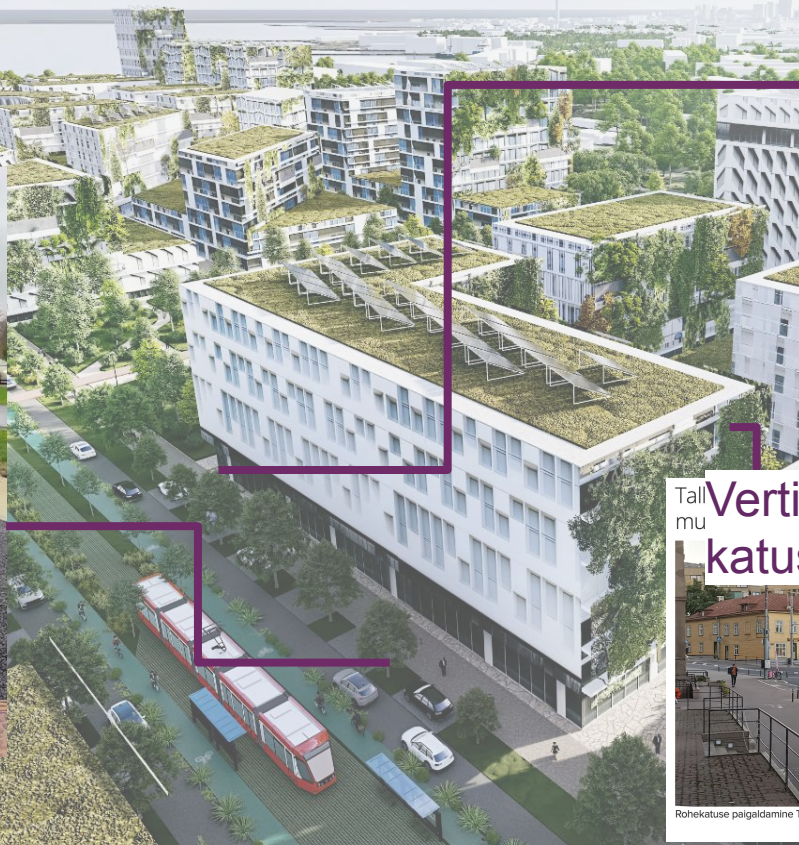


Looduse kasutamine tänavatel

Poorne asfalt



MUNDIPEA



Säästlikud sademevee lahendused



Tallinn mu
Vertikaal ja
katuse haljastus



Rohekatuse paigaldamine Tallinn bussiootepeavijonile. Autor/alkikas: Allan Aksim/ERR

Uued ja vanad materjalid



isolatsioonimaterjalid



termotöödeldud
puit / CLT / LVL

Biobetoon



voodrilauad



Koht, mida
kujundavad
inimesed, loodus ja
julged katsetused

