CASE STUDY 1: YMPYRÄTALO
PLUG-IN ON TOP OF AN OFFICE BUILDING

Ympyrätalo would be an interesting case study for increasing housing density in a central and lively neighborhood. The building's location would allow for using the volume without building any closer by building's view. Moreover, the new floors would have majestic views of Toikovarsi, Hakaniemen tori and Kallio.

The building's existing office's stairwells. In this way the new housing blocks have quick and independent vertical connections (staircases, elevators, new HVAC shafts) that do not alter the existing circulation system and respect the current fire regulations.

Four new floors are added on top of the existing volume. The existing top floor is a service tower vertical circulation is hosted in the central core, which would be made of concrete in order to provide the needed structural stability and safe fire escape routes.

The ROOF will have three independent entryways set in the arcade in front of the existing office. A glazed roof circular arcade connects the different entrances to the rooftop, provided that the HVAC units are relocated in a more compact layout.

Apartments are combined using the prefab modular elements A and B, made out of CLT panels and MetsäWood products.

CASE STUDY 2: KESKO FORMER HQ
PLUG-IN ON TOP OF A 1940’S BUILDING

Kesko headquarters in Katajanokka is a former office and storage building. The southern wing has a concrete structure with mushroom columns that can withstand much higher loads than the actual use. Hence the Plug-in model could be easily located on the rooftop, provided that the HVAC units are relocated in a more compact layout.

In this case no new vertical connections are needed, since the existing staircases have space for new elevators and are enough from a fire safety point of view.

The new housing units would benefit from open views towards the sea, bays and a prime location in Helsinki downtown.

The apartment units and balconies are set on a continuous ring and multiple combinations (student units, studios, family apartments, assisted living facilities, etc.) are designed using the prefab modular elements A and B, made out of CLT panels and MetsäWood products.

CASE STUDY 3: LARS SONCK’S L2
PLUG-IN ON TOP OF A WAREHOUSE

Lars Sonck’s warehouse L2 lies in a preeminent location, by the sea and well connected to the city center. The building’s function is changing slowly, hence the new vertical elements can be added in multiple locations.

Lars Sonck’s warehouse L2 lies in a preeminent location, by the sea and well connected to the city center. The building’s function is changing slowly, hence the new vertical elements can be added in multiple locations.

CASE STUDY 4: KAUPPAKESKUS RUOHOLAHTI
PLUG-IN ON TOP OF A SHOPPING CENTER

The Ruoholahti shopping centre could potentially host a housing tower on its western side. Using the Plug-in model an independent entryway is set on the back facade of the roof. In the lower vertical circulation is hosted in the central core, which would be made of concrete in order to provide the needed structural stability and safe fire escape routes.

The apartment units and balconies are set as continuous ring on the periphery. Apartments are combined using the prefab modular elements A and B, made out of CLT panels and MetsäWood products.