



# Vaero Group

Architectural Design & Development



World-class Architecture

## Vaero Architects – at Your Service

Our architectural design services range from consulting to design and final realization. Thanks to our extensive experience and inclusive working method, we have an exceptionally good practical understanding of design and construction as a whole.

Our experienced principal designers, functional network model and cost-conscious design culture ensure that the result is very high-quality, functional and genuinely user-centric architecture.



**Metsänneidonkuja 6**

**FI-02130 Espoo**

**FINLAND**

**Tel. +358 40 72 22 305**

**reception@vaerogroup.com**

**www.vaerogroup.com**

## Telia 5G Arena

### **Helsinki, Finland, 2000**

Telia 5G Arena is the home of three Finnish football teams. FIFA World Cup 2003 for under 17-year-old players and European Women's Football Championships 2009 have also been organized in the venue.

In addition to football matches, the arena hosts other big sport events and concerts. Stadium is built for 10,770 spectators and the pitch size is 105 × 68 meters.

The stadium's striking architectural element is the curved 700-tons steel roof supported by V-shaped legs, covering the main grandstand. The other structures of the stadium have been made of reinforced concrete.





## Hartwall Arena

### Helsinki, Finland, 1997

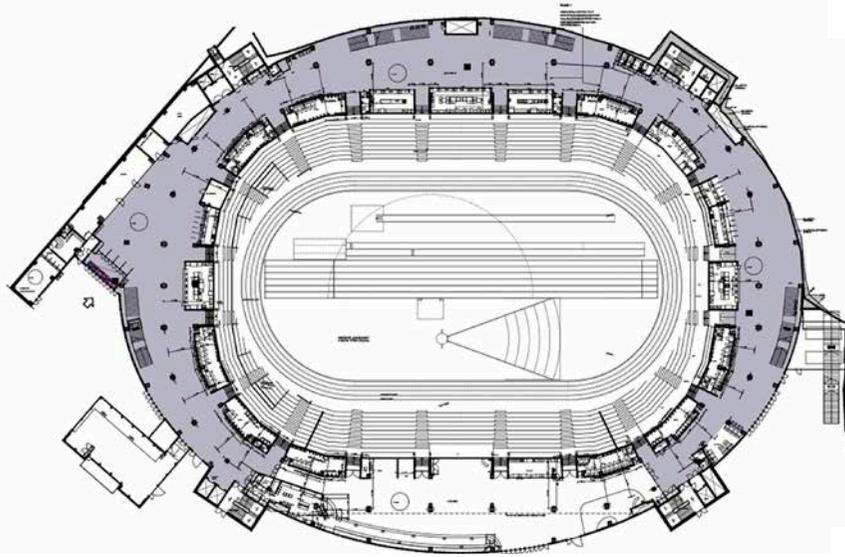
Located in an urban space circulation hub, Hartwall Arena is the biggest multi-purpose indoor arena in Finland, hosting ice hockey games and several other big events every year. The venue provides space for up to 15,000 spectators.

Arena has 1,500 parking places located in the same complex and with direct access in. Together with the nearby fair parking there are altogether 6,100 parking places for visitors.

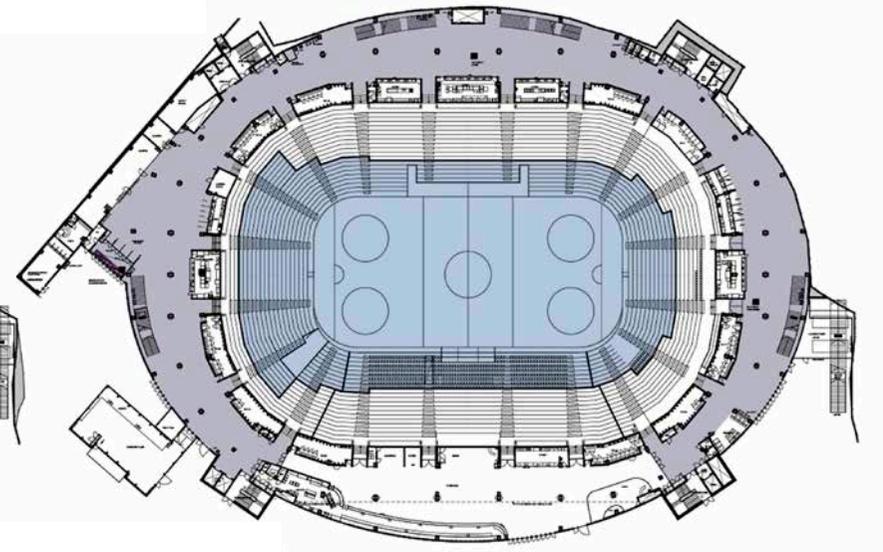
**The arena is designed to be flexible and easily transformable for different venues. Main characteristics of the multipurpose usability are:**

- Easy and direct access to different levels of the arena directly from outside for the quick and safe access of spectators.
- Separated covered vast maintenance court for direct access to the ground floor which is the floor where practically all events are built and performed. If needed a full-size lorry can be driven inside the building and to the arena.

# HARTWALL ARENA



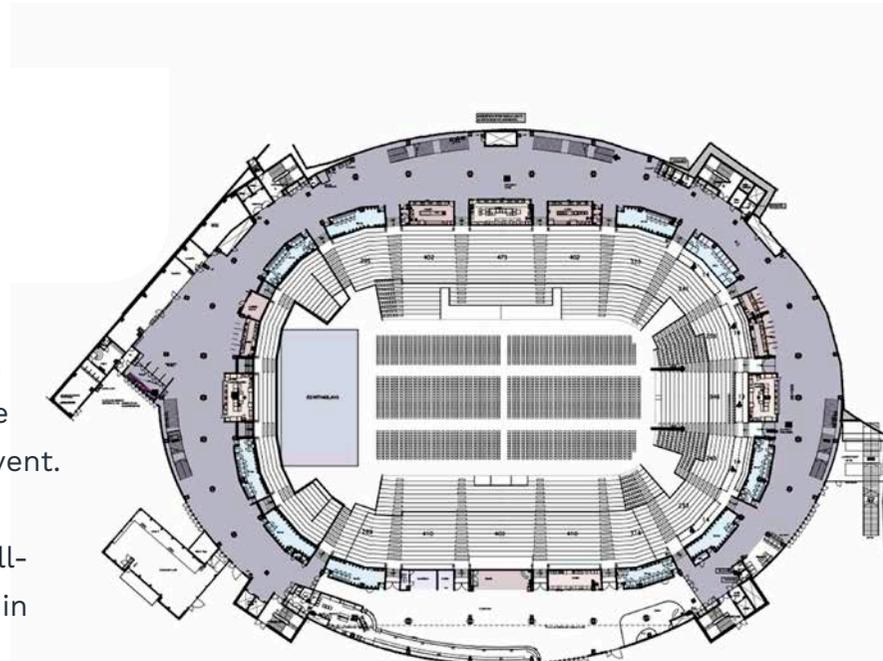
INDOOR ATHLETICS  
(lower stands in retracted position)



ICE HOCKEY  
(13,400 spectators)

- Partly retractable lower seating which makes it possible to make the even area in the ground floor bigger for instance for track and field and horseback riding events.
- Building frame is built so that in addition to the ground floor being able to carry a weight of a lorry the roof trusses also can handle great amount of extra weight that might be needed for suspending sound systems, lights and other features needed for the event.

- All building technical systems (HVAC, electrical, automation) are designed to enable services for 15,000 people and the venue for the whole duration of the event.
- It is common practice that a full-booked concert can take place in the day after a full-booked ice-hockey game and vice a versa.



CONCERT  
(15,000 spectators)

# Mechanical Arena



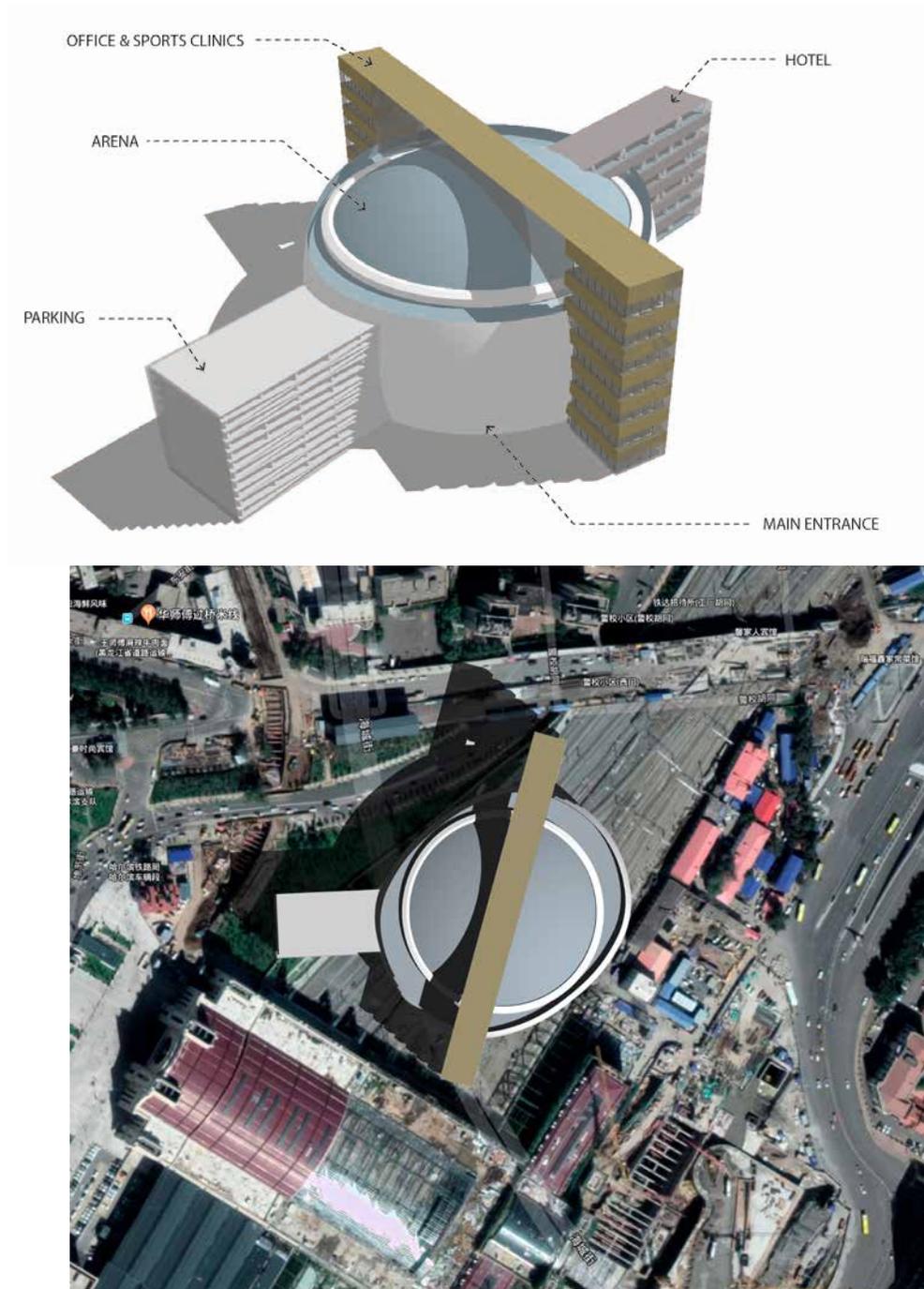
This mechanical type arena is an innovative proposal that suits the future market in China with a huge potential.

The Mechanical arena combines all kinds of events. It could work as an arena, concert hall, exhibition center, commercial space simultaneously in the same spot, according the situation.

With vertically moving activity platform, a 15,000 spectator hockey game can take place on the higher platform and indoors athletics training can take place under with 3,000 spectators. Alternatively, athletics game or concert with 13,000 spectators may take place at the same time on the lower field when training hockey game with 5,000 spectators takes place on top. The device that moves the field in only few hours is based on the widely used jack systems.

Key features of the venue type: central localization, high land price in strategic locations. Being a high usage rate event center, it is wise to combine other commercial services, such as hotels, sport clinics, restaurants, shops and easy parking together in the same site.

Possible site to implement the multi-purpose type arena are cities with over 500,000 inhabitants. Suitable land plot shall be a dense urban area or a circulation hub with a railway station or a big shopping mall that runs 24/7.



Theoretical location on Harbin Railway Station

# Letzigrund Stadium

Zürich, Switzerland, 2006

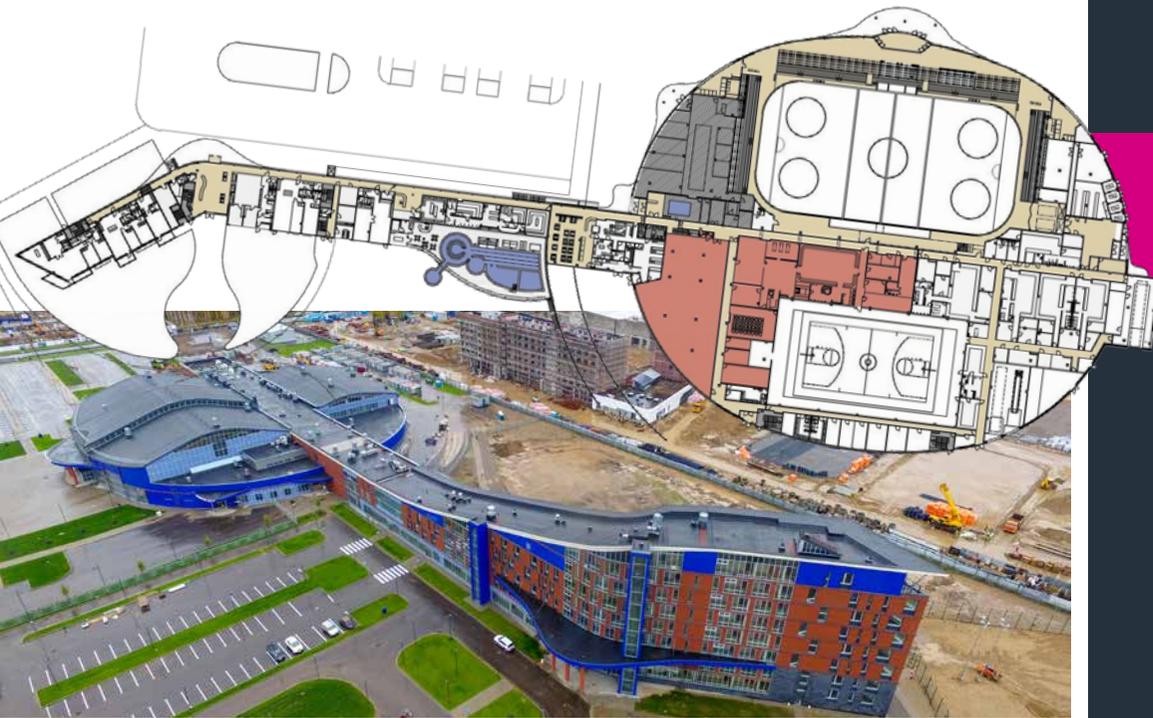


**Ice Palace Cherepovets**  
**Russia, 2004–2007**  
KHL / Multipurpose Arena,  
6,000 spectators

**Prague Arena**  
**Czech Republic, 2000–2001**  
KHL / Multipurpose Arena  
Conceptual design

**Sports Palace St. Petersburg**  
**Russia, 1998–2000**  
KHL / Multipurpose Arena,  
12,000 spectators  
Supervising of architectural design





## Lokomotiv Yaroslavl Centre

### Yaroslavl, Russia, 2015

KHL Ice hockey team Lokomotiv Yaroslavl's Sports and training centre is formed by three interconnected elements. The first part of the building is an apartment hotel with 43 rooms, the second part is a spa and the third part is a sport building containing a full-size ice rink, a multi-purpose indoor hall for ball games, a multifunctional gym and locker rooms.

At the junction of the sports building and spa/hotel building, there is an à la carte restaurant and a health centre, that is specialized in the diagnosis and treatment of sports traumas with equipment for treatment. (e.g. MRI and therapy pool). The gross size of the complex is 19,800m<sup>2</sup>.

### Arena 2000

#### Yaroslavl, Russia, 1997–2000

KHL / Multipurpose Arena,  
9,000 spectators





## Café Piritta

### Helsinki, Finland, 2010

This 500 m<sup>2</sup> café on the seaside was originally built in 1977 as a summer café. The two-part building consisted of a kitchen and a café and a courtyard between them. Over time the café deteriorated and was eventually shut down.

The entirely renewed Café Piritta was opened in 2010 for year-round use. The courtyard has been covered, ancillary spaces have been added and the maintenance yard has been hidden behind the wall. The “floating” roof takes shape in all directions and continues as a canopy towards the sea.





## Hotel Scandic Airport

**Vantaa, Finland, 2018**

The hotel with 150 rooms was built in Helsinki Airport, on the site of the airport's former operations centre. It provides all modern conveniences both for business travellers as well as holidaymakers. The hotel's speciality is its unique meeting facilities, partly built on restored former police premises. Three small meeting rooms have been created in former cells. The hotel's reception and à la carte restaurant are located in \* a light atrium in the centre of the building.

# Citycenter Shopping Center

Helsinki, Finland, 2013



The shopping center originally built in 1967 was badly decayed. The building was under architectural conservation so only the car ramp structures and the parking level could be deconstructed. These were replaced with glass facades as the adjacent street was converted in to a pedestrian street.

The shopping center expanded to 5 storeys as it was extended a storey up- and downwards. A skylight lights up all storeys all the way down to the station tunnel. Maintenance was relocated underground into the city's maintenance tunnel.

A new 6-storey office building was built within the block and a coherent milieu was built to the second storey for 9 restaurants. Gross area of the project is 70,000m<sup>2</sup>.

## Hotel Paviljonki



### **Jyväskylä, Finland, 2012**

The hotel was built in relation to an exposition and congress center. This 11,500m<sup>2</sup> area has 9 storeys, 170 rooms, a restaurant, a bar, meeting spaces and sauna units. The hotel won 3 categories in the World Luxury Hotel Awards in 2015: Best city hotel in Finland, Best modern luxury hotel in Finland and Best design hotel in Northern Europe.

## Hotel Hilton Helsinki Airport



### **Vantaa, Finland, 2011**

A seven-storey hotel located in the immediate vicinity of the international terminals of the Helsinki Airport. Extremely well-equipped hotel with 330 rooms, executive rooms and suites with soundproofed windows. The hotel also has 12 diverse meeting spaces for up to 500 participants.



## Interior Design

Interior architecture is an important aspect of our diverse design expertise. We design working environments to underpin occupational well-being, as well as a multitude of concepts for premises, most of which include users in the design phase.

Our interior architecture team specializes in inventive designs for premises and functions, as well as managing complete interior architecture projects from needs analysis all the way to implementation plans and supervision. Premises, lighting and furniture design proceed at the same pace during the design phase, keeping precisely to the timetable and budget.



# Housing Construction



**Keinutie 12  
Helsinki, Finland**

Dwelling House, designed 2018, under construction 2019–2020.



**Strömbergintie 4  
Helsinki, Finland**

Dwelling House, designed 2018, under construction 2019–2020.



**Kaarre and Suora  
Vantaa, Finland, 2016**

Two Dwelling Houses.



**Taitaja  
Espoo, Finland, 2016**

Dwelling House



**Halti  
Vantaa, Finland, 2006**

Office Building for a Sportswear and Equipment Company.



**Commercial Centre  
Hämeenlinna, Finland, 2014**

1st prize in architectural competition.

# West Metro



**Espoo and Helsinki, Finland**  
**Project planning 2008/Building phase I 2017/  
Building phase II 2023 (an estimate)**

West Metro extends the existing Helsinki metro line to Espoo. 8 new stations and 14 kilometers of tunnel were built in phase I. Phase II consists of 5 more stations, 7 kilometers of tunnel and a new metro depot.

We created a concept for the new station type and draft designs for 2 stations. We were in charge of coordinating all the architectural planning, guiding the station designers' work and designing all the uniting elements in the project. We acted as the principal designer for the rail line tunnels and the chutes for the aboveground connections.

# City Rail Loop, station Helsinki center



**Helsinki, Finland, 2017**  
**(Construction planning)**

City Rail Loop is an underground loop-shaped track for local trains in Helsinki city center. It has 3 underground stations. When built, the City Rail Loop will free the rail capacity above ground for long-haul traffic. This will improve the conditions of the railway traffic throughout the whole national railway network.

The central station is located almost 50 meters underground. The station will be used daily by over 40,000 passengers and it will have connections to the central attractions in Helsinki city center.