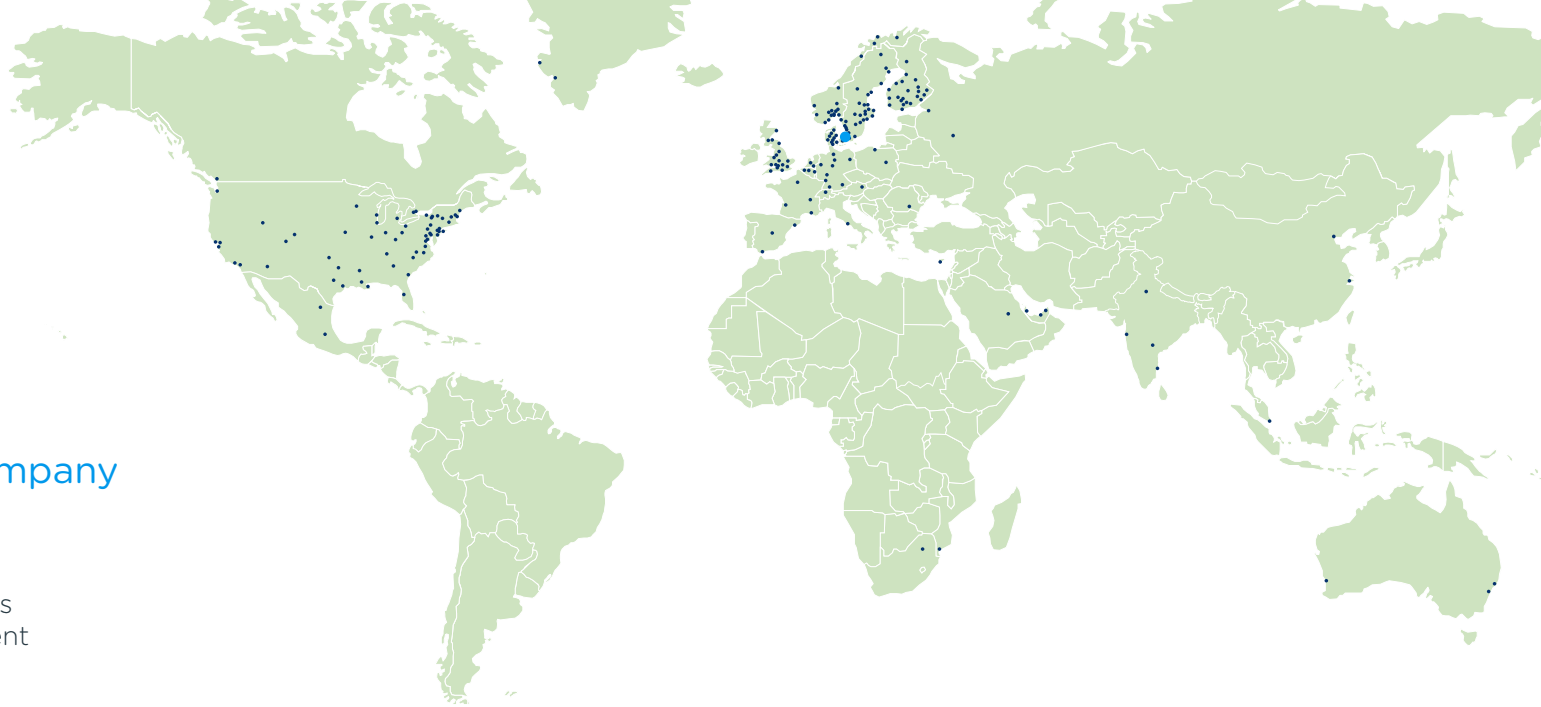
RAMBØLL

Bright ideas.
Sustainable change.

Stations and depots

Introducing Ramboll



Ramboll is a global engineering, architecture, and consultancy company founded in Denmark in 1945.

Our 18,000 experts create sustainable solutions across Buildings, Transport, Energy, Environment & Health, Water, Management Consulting, and Architecture & Landscape.

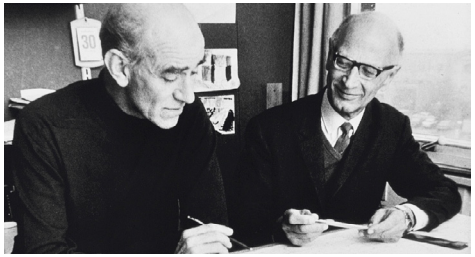
Across the world, Ramboll combines local experience with a global knowledge base to create sustainable cities and societies. We combine insights with the power to drive positive change for our clients, in the form of ideas that can be realized and implemented.

We call it:

Bright ideas.
Sustainable change.

Foundation ownership
The Ramboll Foundation is the majority shareholder in the Ramboll Group A/S and owns 96.9% of the company's shares. The remainder are owned by Ramboll employees and Ramboll Group A/S. The Ramboll Foundation is an independent Danish enterprise foundation established in 1972 to safeguard the long-term financial viability and development of Ramboll for the benefit of employees.

A responsible company
We are committed to acting responsibly towards clients, employees, society, and our company, as set out in the Ramboll legacy. We seek to provide services that contribute to sustainable development, while avoiding projects with a destructive or suppressive purpose towards nature or people. Our vision, mission, values, and commitments permeate our efforts on sustainable development and guide how we act.



Founded in 1945

In October 1945, Børge Ramboll and Johan Hannemann, looked out over Copenhagen. They had witnessed destruction and distress during the Second World War, and felt a strong urge to help rebuild society and shape a better future.

89% repeat business

The majority of our work comes from clients who choose to partner with us again—a reflection we deeply appreciate and never take for granted. We are in business to contribute to the positive development of societies by fulfilling our clients long-term visions and finding solutions to their most pressing challenges.

300 offices

We combine local experience with a global knowledge base. Headquartered in Copenhagen, we bring our Nordic design heritage to every project.

Shaping depots for tomorrow's mobility

Ramboll views depots as the beating heart of reliable transportation, where efficiency, safety, and sustainability must work in unison. Our expertise spans the full spectrum of depot planning and design, ensuring every project meets today's needs while providing future-ready mobility.

Ramboll's experience in depot projects
For decades, Ramboll has helped transport authorities and operators realize complex depot projects, transforming initial ideas into fully operational facilities. Our expertise spans everything from shaping early strategies and evaluating potential sites to coordinating detailed design and overseeing delivery.

We bring together specialists in architecture, structural and railway engineering, HVAC, power supply, and digital tools such as BIM and digital twins to create depots that function seamlessly in daily operations. Our work also extends to environmental permitting, sustainability strategies, traffic logistics, and depot layouts that optimize fleet performance.

By uniting technical depth with local insight and international best practices, Ramboll ensures depots are delivered on time, operate efficiently, and support the next generation of public transportation.

20 years of delivering depots

We have delivered rail, metro and bus depots for over 20 years, making us one of the leading design and engineering firms in this sector.

Photo credit: Railway Pro

Depot for driverless trains
Ramboll has been selected to design the new Älvsjö Depot for Region Stockholm's expansion of the Metro. The Älvsjö Depot will be built to service the driverless trains that will operate on the metro's Yellow Line.

Key drivers in design for high-performing depots

Early stakeholder engagement
Successful depots are built on collaboration. By engaging client leadership, operations staff and maintenance teams early in the design process, we capture valuable insights from those who know the facility and its purpose best.

Operational efficiency by design
Every depot must handle complex flows of people, vehicles, and equipment. Our planning approach maps these flows in detail to optimize layouts, minimize bottlenecks, and ensure smooth daily operations.

Future-proof infrastructure
Transport technologies are evolving rapidly. We design depots with flexibility in mind, allowing for future expansions, new vehicle types, and emerging technologies such as automation and alternative fuels. This ensures our clients' investments remain resilient and relevant for decades to come.

Safety and working environment
A depot is also a workplace. We prioritize safety, ergonomics, and the wellbeing of staff by integrating best practices in occupational health and safety into the design. Clear sightlines, safe access routes, and thoughtful facilities support both productivity and employee satisfaction.

Sustainability at the core
From energy-efficient buildings to water management and green materials, sustainability is embedded in our planning. We help clients reduce environmental impact and operating costs while supporting their broader climate and ESG goals.

Physical security and resilience
Physical security is a core design principle for railway workshops and depots classified as critical infrastructure under the CER Directive. These facilities house assets vital to local and national transport continuity, making them high-value targets. Ramboll embeds physical security early in the design to mitigate the risks of intrusion, sabotage, and theft while ensuring compliance with EU resilience standards. Strong physical protection is not an accessory—it's the backbone of safe, reliable, and resilient rail operations.

Digital tools and smart solutions
We use advanced digital modeling and simulation tools to test design options before construction begins. This allows clients to make informed decisions, foresee operational challenges, and create smarter depots that are easier to manage and maintain.

Cost and time certainty
By combining engineering expertise with deep sector knowledge, we deliver designs that are buildable, practical, and cost-effective. Our structured planning reduces risks, avoids rework, and ensures smooth implementation—saving time and resources across the project lifecycle.

Rail systems integration
A modern depot is more than buildings and workshops—it depends on reliable track, power, signaling, and telecom systems to function safely and efficiently. Our specialists in these rail system disciplines ensure seamless integration with the wider rail network, secure operations within the depot, and readiness for future technologies.

Select portfolio

Client Förvaltning för utbyggd tunnelbana (FUT)
Location Stockholm, Sweden
Partners BBH Architects
Completion 2024-ongoing
Services Design development

Älvsjö new depot


Photo credit: Region Stockholm

Depot for the Stockholm metro Yellow Line

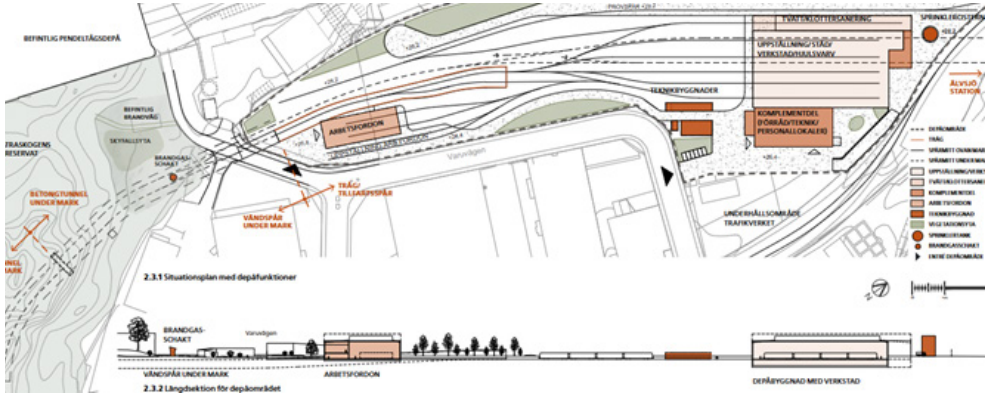
Stockholm is growing rapidly, with 40,000 new residents every year. To meet the increasing demand for housing and transport, the metro will be expanded with the new Yellow Line, which will connect Fridhemsplan and Älvsjö. Ramboll is delivering the design development phase for the Älvsjö depot, a facility dedicated to servicing and maintaining Yellow Line metro trains, with capacity for six trains. The depot site will include, among other facilities, a workshop building as well as stabling and washing halls.

The Yellow Line is being built with modern technology and will feature **a completely new traffic system with driverless trains.** These are the first driverless trains in Sweden, and Ramboll brings valuable experience from similar projects with driverless trains in Copenhagen, Denmark.

We are defining a facility layout and configuration that is cost-effective throughout both planning and execution, while meeting all relevant legislation, regulations, and authority requirements.

Key focus areas include:
- Function, capacity, and performance of the operational facility
- Fire safety and passenger safety
- Traffic safety
- Occupational health and work environment
- Reliable operations and constructability
- Low climate impact and sustainable solutions
- Efficient production methods
- Compliance with current and planned railway and zoning regulations
- Cost-efficient implementation

The project encompass the following technical disciplines:
- Project management
- Occupational health & safety
- Sustainability
- Rock engineering
- Geotechnical engineering
- Hydrology
- Structural engineering, civil works
- Structural engineering, buildings
- Architecture
- Fire safety and human safety
- Track engineering
- Road and earthworks
- Water and wastewater engineering
- Utility coordination
- HVAC (Heating, Ventilation, and Air Conditioning)
- Railway signaling
- Control and monitoring (SCADA/automation)
- Electrical engineering and ducting/cable routing
- IT and telecommunications
- Acoustics
- Constructability
- Cost planning/estimation
- BIM coordination
- Data coordination/information management
- Requirements management



Client Stockholms läns landsting/Trafikförvaltningen

Location Vallentuna, Stockholm, Sweden

Partners BBH Architects and Atkins

Completion 2014-2020

Services Preliminary design/programming, detailed design, and construction documents for a depot extension, including architecture, structural engineering, HVAC, track substructure and superstructure, electrical systems, overhead contact line, signaling, telecommunications, civil works, water and sewage, rock engineering, roads, landscaping, geotechnical and environmental engineering.

Vallentuna train depot

New depot for Roslagsbanan

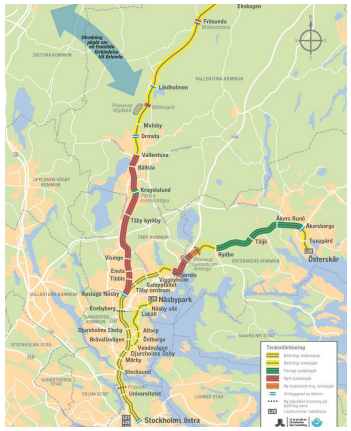
North of Molnby station lies the Vallentuna Depot, home to Roslagsbanan's new trains. In its current size, the depot has the capacity to service 22 vehicles, but the facility is designed to house 46 trains and provide maintenance for 70 trains in a future expansion.

The depot consists of two main buildings: a stabling hall located along the traffic track, and a workshop and administration building set into the slope to the northwest. The architecture is inspired by the large-scale farm buildings of the agricultural landscape, and the facade materials are a modern interpretation of existing materials in the area.

The site of the depot is of archaeological interest, and prior to as well as in parallel with the construction work, the County Administrative Board (Länsstyrelsen) carried out an archaeological preliminary investigation. Construction of phase 1 began in the spring of 2016 with rock excavation work.

The project included:

- Combined stabling and vehicle cleaning hall.
- Wheel lathe for servicing both old and new trains as well as loose bogies.
- Workshop with three tracks for the new vehicles.
- Fan of stabling track and connection to the traffic track to the north.
- Office building for administration, staff facilities, and storage.
- Distribution station for power supply to the depot and the line.
- Rectifier station for power supply to the depot's track installations.
- Access road from the north and pedestrian/cycle path from the south, from Molnby station.
- Area for waste management.
- Parking.



Client Danske Statsbaner (DSB)

Location Aarhus, Denmark

Partners Gottlieb Paludan Architects (GPA), Mott MacDonald

Completion 2021-2026

Services Lead consultant, delivering full multidisciplinary services covering architecture, engineering, rail infrastructure, and safety disciplines.

Aarhus new depot

New RMF for Denmark's national railway company

As part of DSB's transition from diesel to electric trains by 2030, the company is constructing and upgrading a series of new Repair and Maintenance Facilities (RMFs) to support the new electric fleet.

The Aarhus facility is one of three major new workshops, designed to deliver state-of-the-art, sustainable rail maintenance operations. The new Aarhus depot includes a main workshop building and a wheel reprofiling (wheel lathe) facility, featuring integrated rail infrastructure across the 19,000 m² site.

The facility is designed to DGNB Platinum certification, reflecting DSB's commitment to sustainability and climate-friendly operations.

Ramboll's services included:

- Total consultancy across all disciplines (building, infrastructure, rail, and safety)
- Project and design management
- ICT management
- Health and safety coordination (design and construction phases)
- Architectural and landscape design (via GPA)
- Structural, mechanical (HVAC/plumbing), and electrical engineering
- Civil works and site design (drainage, roads, and external areas)
- Fire safety consultancy
- Sustainability management and DGNB Platinum certification
- Commissioning participation, project follow-up, and site supervision
- Construction management support at the contractor's request

Technical scope:
The project involves extensive interaction between the building and the railway infrastructure, designed in close coordination with the train supplier's requirements. Key infrastructure components include:

- 8-track "Hand Over Zone" with boarding and alighting stairs at both ends
- 5 stabling tracks (3 × 350 m) with platform grids and cleaning stations
- 2 sanitation tracks with supply posts and access stairs
- Approx. 9 km of ballasted track and 1 km of slab track inside buildings
- 33 switches, 1 diamond crossing, and multiple level crossings
- Overhead line system designed by Siemens, with Ramboll providing structural and foundation calculations and full collision coordination
- Lighting, power supply, point heating, drainage, and geotechnical works
- Cable routing, signaling and electrification program interfaces, and connections to Banedanmark's network
- Pathways and lighting throughout the depot for safe access

Ramboll also delivered railway safety and CSM management, including documentation, potential equipotential bonding, and compliance with national railway safety standards.

Client Bane NOR
Location Moss, Norge
Partners None
Completion 2020-2025
Services Design engineering and zoning plans

New maintenance depot

Depot and siding area for the Østfoldbanen railway

As part of the InterCity development on the Østfold Line, Bane NOR planned to complete a continuous double track on the Sandbukta–Moss–Såstad section by 2024. To make use of the new double track, a new maintenance depot siding area was planned south of Moss. On behalf of Bane NOR, Ramboll is designing the facility at Gon, near Rygge Station. The facility will accommodate up to 16 trains, each 110 meters long.

Ramboll previously prepared the technical master plan and the municipal sub-plan for the project. Among five thoroughly studied alternatives, Gon was selected as the recommended option to proceed with.

In this phase, the assignment includes early-stage planning for the maintenance depot siding area, covering technical and service buildings, water and sewerage systems, road layouts, and traffic hub solutions at the station. It also includes converting Rygge Station from the current two-track layout to a three-track station. Considerations related to topsoil management and public health are key parameters in the planning process. The project benefits from Ramboll's strong expertise in sustainability and social values, supported by a CEEQUAL-certified environmental manager within Ramboll's project team.

Services provided:
Ramboll delivered services across all relevant disciplines. The work included preparing a stakeholder engagement plan, handling comments on the planning program and the central government zoning plan, and developing both the detailed technical plan and the government zoning plan. The project has a tight schedule and is a high-priority initiative for Bane NOR. Ramboll applies model-based design and VDC (Virtual Design and Construction) methodology, ensuring client involvement throughout the design process to maintain both progress and quality.

Client Transport for London (TfL)

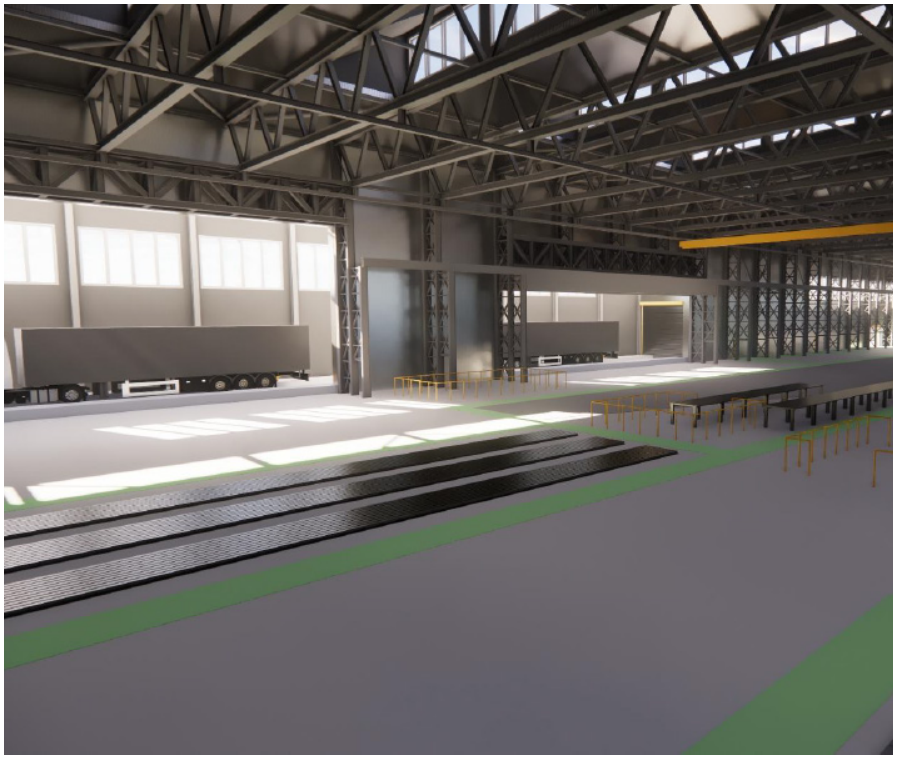
Location London, United Kingdom

Partners Pascall & Watson, Morgan Sindall

Completion 2024-2025

Services Lead consultant and principal designer delivering full multi-disciplinary services including architecture, engineering and design, construction planning and cost estimation.

Lillie Bridge depot vacant possession



New depot and train stabling facilities at five London sites

TfL is seeking to vacate all operations from the existing Lillie Bridge Depot to enable the redevelopment and regeneration of the local area as part of the Earls Court Masterplan. To facilitate vacant possession, new depot, workshop, and train stabling facilities will be completed across five receiver sites.

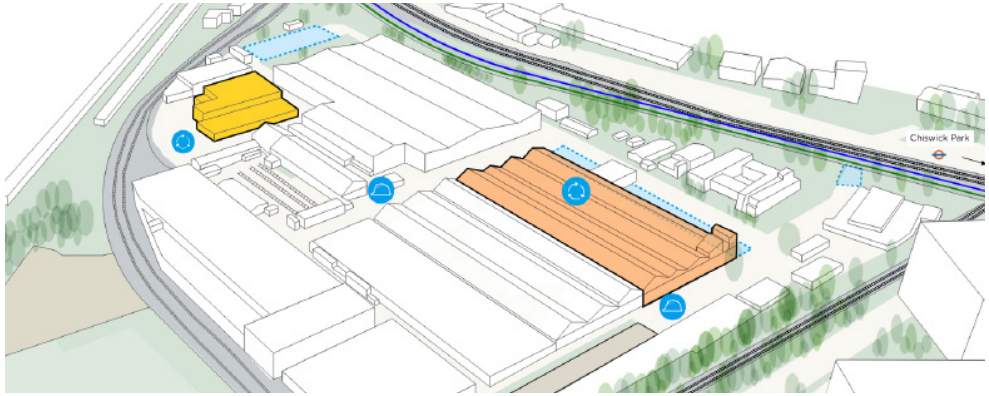
Ramboll has worked closely with TfL to develop proposals that enable the transition of facilities and operations while minimising disruption to services. At the concept stage, process engineering and logistics strategies were developed for the manufacturing operations to deliver a state-of-the-art facility.

Ramboll services include:

- Lead design organisation across building, infrastructure, rail and safety
- Principal designer
- Project and design management
- Process engineering
- Architectural and landscape design
- Structural engineering
- Building services (MEPH)
- Telecoms
- Civil engineering
- Geotechnical engineering
- Fire engineering
- Railway track and signaling
- Sustainability
- Constructibility
- Cost estimation

Technical scope:
The project involves relocating and modernising all operations at the Lillie Bridge Depot, incorporating business change, optimisation, and migration planning. Assets across the five sites include:

- Points and crossing track manufacturing and storage facility with direct road and rail connection
- Relocation of displaced assets on site
- Warehousing hub facility
- Workshop hub facilities
- Carpentry building for network general repairs
- Stabling for six train berths with crossover interfacing with National Rail operator Network Rail
- Associated civil infrastructure works, lineside buildings and welfare
- Stabling for a further six train berths with new scissors crossover
- Reconfiguration of existing train-crew accommodation
- New staff footbridges to maintain and improve access across the site
- New buffer stop, track realignment and provision of a road to rail access point



Client Metropolitan Area Transport Ltd

Location Helsinki, Finland

Partners The project was delivered through an alliance involving the client, designers, and contractors. The design consultants were Ramboll Finland Oy, Sitowise Oy, and Sweco Oy, and the contractors were NRC Group Finland Oy and YIT Suomi Oy.ha

Completion 2017-2022

Services Structural, HVAC, electrical, acoustics, fire safety, foundation design, BIM coordination, and moisture management coordination.

Jokeri light rail depot

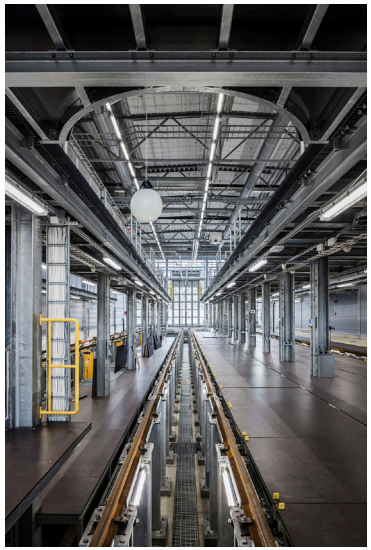
Photo credit: Anders Portman / Kuvatoimisto Kuvio Oy

New light rail depot building serving Raide-Jokeri

The Raide-Jokeri light rail line runs from Itäkeskus in Helsinki to Keilaniemi in Espoo. The depot serves as the storage and maintenance facility for the line's trams. The main hall accommodates all 29 trams, each 35 meters long, and can be expanded to fit longer trains if needed. The hectare-sized depot building also includes office and social facilities for mechanics and drivers.

The project was delivered through the alliance model, which fosters close collaboration between the client, designers, and contractors. A shared workspace, the "Big Room," enabled efficient information flow and strengthened teamwork throughout the design and construction phases.

Our multidisciplinary team provided structural, HVAC, electrical, acoustics, fire safety, and foundation design, along with BIM and moisture management coordination. The gross floor area of the depot is 9,573 m^2.



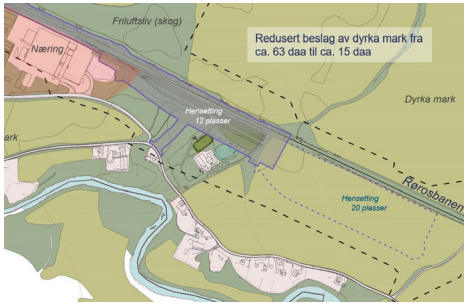
Additional depot experience

Below, we highlight a selection of our depot design and engineering projects delivered across different regions.

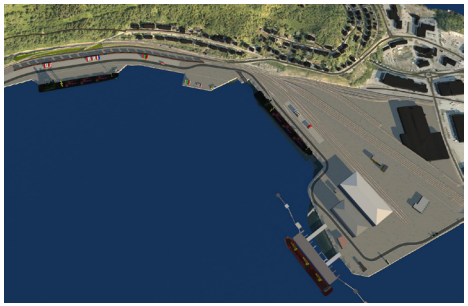
Agadedepån
Lidingö, Sweden

Norsborgsdepån
Botkyrka, Sweden

Tomtebodadepån
Stockholm, Sweden



Bane NOR, maintenance siding depot
Hamar, Norway



Narvik havn, Narvik terminal area zoning plan
Narvik, Norway

DSB, train maintenance facilities
multiple locations, Denmark

DSB, train maintenance facilities
multiple locations, Denmark

Metropolitan area transport, koskela depot
Helsinki, Finland

Turku tramway alliance, Turku tramline depot
Turku, Finland

Depot wheel lathe
Reading, United Kingdom

Network rail, operating centre, York Engineers Triangle
York, United Kingdom

Network rail, route operating centre, Basingstoke Rail Campus
Basingstoke, United Kingdom

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