

Pääkaupunkiseudun Junakalusto Oy

junakalusto



PÄÄKAUPUNKISEUDUN JUNAKALUSTO OY KEY TASKS

**MANAGEMENT OF
OWNERSHIP**

**PROCUREMENT, FINANCING
& LEASE OF TRAIN UNITS**

**HEAVY
MAINTENANCE**

**PROVISION OF DEPOT
FACILITIES**

**MANAGEMENT OF
OWNERSHIP**

JUNAKALUSTO OY IS RESPONSIBLE FOR THE MANAGEMENT OF THE OWNERSHIP OF THE FLEET

- Ensuring the designed lifecycle (40 years) of the train units
- Monitoring of the implementation of the maintenance of the train units based on versatile reporting and by inspections, audits and other monitoring
- Development items related to the train units
- Additional works and modifications of the train units resulted in by authority requirements
- Identification of the needs for critical spare parts also in cooperation with the maintainer
- Refurbishments of the train units



PROCUREMENT, FINANCING & LEASE OF TRAIN UNITS

JUNAKALUSTO OY PROCURES, ARRANGES FINANCING AND LEASES OUT TO HSL THE ROLLING STOCK FOR THE COMMUTER RAIL TRAFFIC IN THE HSL AREA

- Junakalusto Oy is a public procurement entity that shall apply EU's regulations concerning public procurements (Act on Public Procurement and Concession Contracts of Water and energy Supplies, Transport and Postal Services)
 - * Junakalusto Oy's first competitive tendering related to train units in 2004 – 2006, awarding the contract in 10/2006 of in total 81 train units from Stadler Bussnang AG (basic procurement and options)
- Junakalusto Oy takes care of financing
 - * In Junakalusto Oy's first procurement of trains the lease financiers are Handelsbanken and Nordea
- Junakalusto Oy leases out the fleet that it has procured in a long-term lease contract to HSL
 - * The lease contract has been renewed lastly on 31.1.2018
 - * The duration of the lease contract is at least 25 years regarding all train units
- Junakalusto Oy's train units are an important part of the competitive tendering of the commuter rail traffic operation of the metropolitan area as HSL's traffic operation is realized using Junakalusto Oy's trains



HEAVY MAINTENANCE

JUNAKALUSTO OY IS RESPONSIBLE FOR ARRANGING HEAVY MAINTENANCE

- Junakalusto Oy has the operational responsibility for heavy maintenance of the fleet that is implemented in close cooperation with the maintainer of the fleet
- The maintenance concept of heavy maintenance is that the maintenances on the responsibility of Junakalusto Oy concern components which can be dismantled, the maintainer of the fleet will dismantle the component to be maintained and assembles the maintained component back to the train
- The maintenances of heavy maintenance are implemented in accordance with the maintenance plan of Sm5 train units
- As the first maintenance related to heavy maintenance Junakalusto Oy started the bogie overhauls in 2017
 - * Based on the competitive tendering, Stadler Magyarország Vasuti Karbantarto Kft is responsible for the bogie overhauls in 2018 – 2022



HEAVY MAINTENANCE

JUNAKALUSTO OY IS RESPONSIBLE FOR ARRANGING HEAVY MAINTENANCE

- Junakalusto Oy is currently preparing the following overhauls included in heavy maintenance
 - * Main circuit breaker, pantograph, disconnecter on the roof
 - * Automatic coupler
 - * Compressors, both Käser and Knorr
 - * Bogies (the next round of competitive tendering)
 - * HVAC equipment of the passenger compartment and driver's cab

**PROVISION OF DEPOT
FACILITIES****JUNAKALUSTO OY PROVIDES DEPOT FACILITIES FOR THE FLEET**

- Sm5 hall leased by Junakalusto Oy from VR by a long-term lease contract at least until 31.12.2030 is used as the maintenance depot for the commuter rail traffic operation in the metropolitan area
- In the traffic operation that is the object of the competitive tendering Junakalusto Oy subleases out the necessary depot facilities to the maintainer and operator (VR)



Lessor

- Management of ownership
- Ensuring the lifecycle
- Authority approvals of the fleet
- Updating of documentation
- Insurances
- Monitoring and quality control of maintenance
- Development and approvals of the maintenance plan of train units
- Heavy maintenance
- Refurbishment



Lessee

- Operational requirements for and objectives to the passenger information system
- Devices of the ticketing system
- Defines the objectives of projects related to the operation concept and passenger service
- Markings related to the guidance of passengers
- Needs and requirements arisen from HSL's brand



Operator

- Operator of the train traffic
- Is responsible for preventive and corrective maintenance as well as daily maintenance
- Is responsible for all repairs
- Entity in Charge of Maintenance (ECM)
- Recording and storing the maintenance data and continuous reporting to JkOy
- Administration of the spare parts and insurances necessary for the operations



Finnish Transport Infrastructure Agency is responsible for the track network of Finland

- VIRVE cab radio network
- Energy consumption meters
- Compensation for damages caused to the fleet by track infrastructure



Traficom is the authority related to the communications and transport concerning permits, registration and control

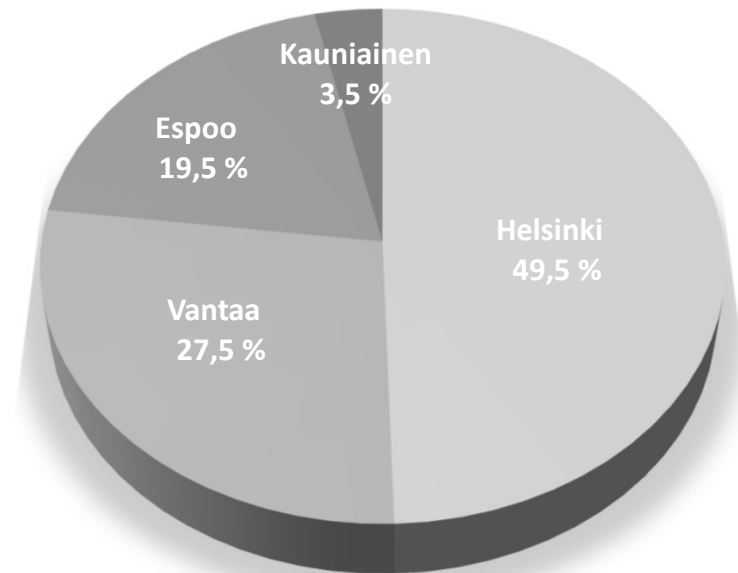
- Authority approvals
- Approval to put in service
- Derogations

INCOME	
Lease charged from HSL in total	24 060 000
Other income invoicing from operator	530 000
INCOME, TOTAL	24 590 000

EXPENCES	
Materials and services	23 410 000
Personnel expenses	370 000
Depreciations	400 000
Other operating expenses	370 000
Financial income, expenses and taxes	40 000
EXPENCES, TOTAL	24 590 000

OWNERSHIP

The owners of Junakalusto Oy are the municipalities in the metropolitan area:



BOARD OF DIRECTORS

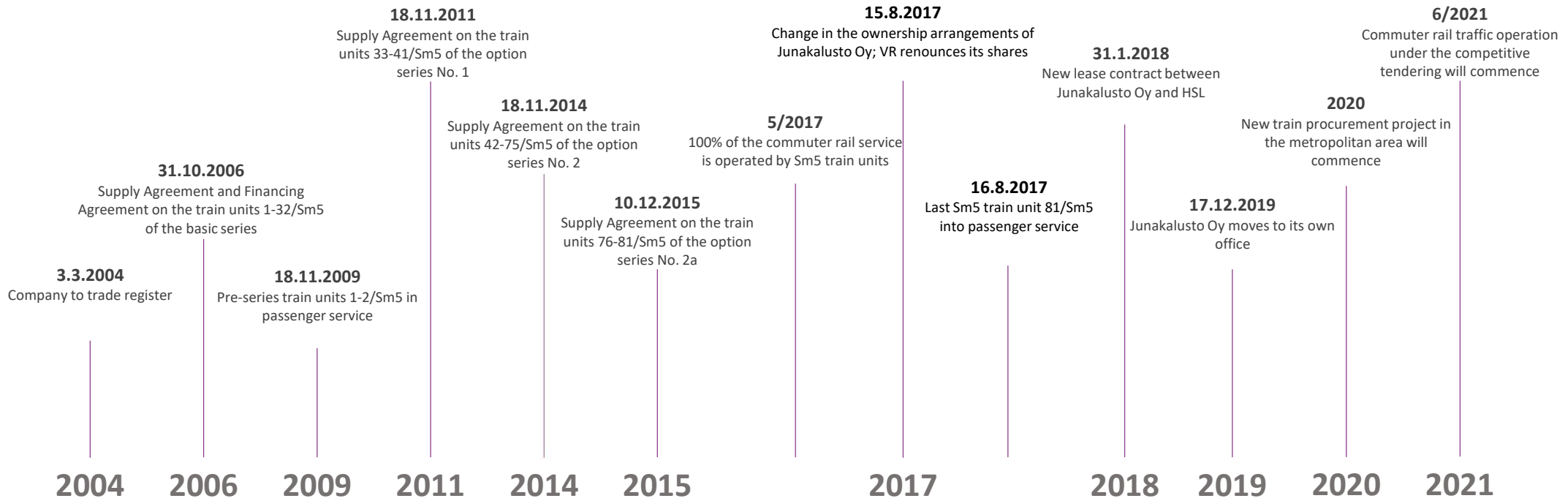
CITY OF HELSINKI
Saxholm Tuula
 Chairwoman

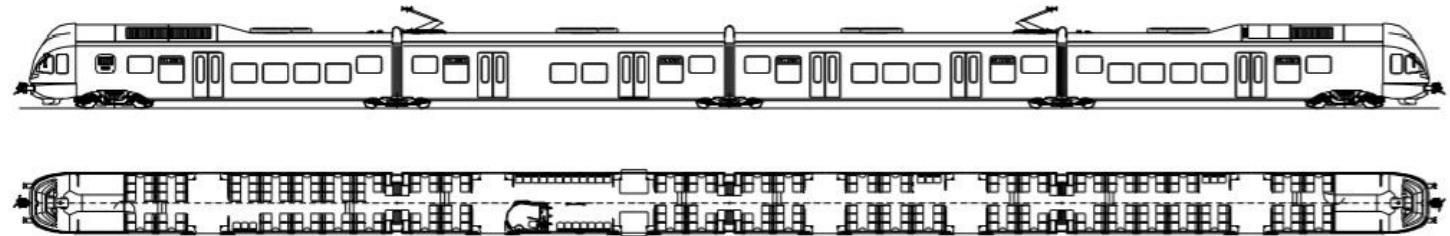
CITY OF VANTAA
Penttilä Hannu
 Deputy Chairman

CITY OF ESPOO
Isotalo Olli
 Member

CITY OF KAUNIAINEN
Harju Marianna
 Member

The members of the board of directors are experts nominated by municipalities that are the owners of the company.





Sm5 train

Supplier: Swiss Stadler Bussnang AG

Gauge: 1'524 mm

Supply voltage: 25 kV, 50 Hz

Axle arrangement: Bo'2'2'2Bo'

Number of train units: 81

Length of train units: 75 metres

Number of seats: 232

Number of folding seats: 28

Places for standees: 323

Floor height: 600 mm (entrance), 1'120 mm

Width of car-body: 3'200 mm

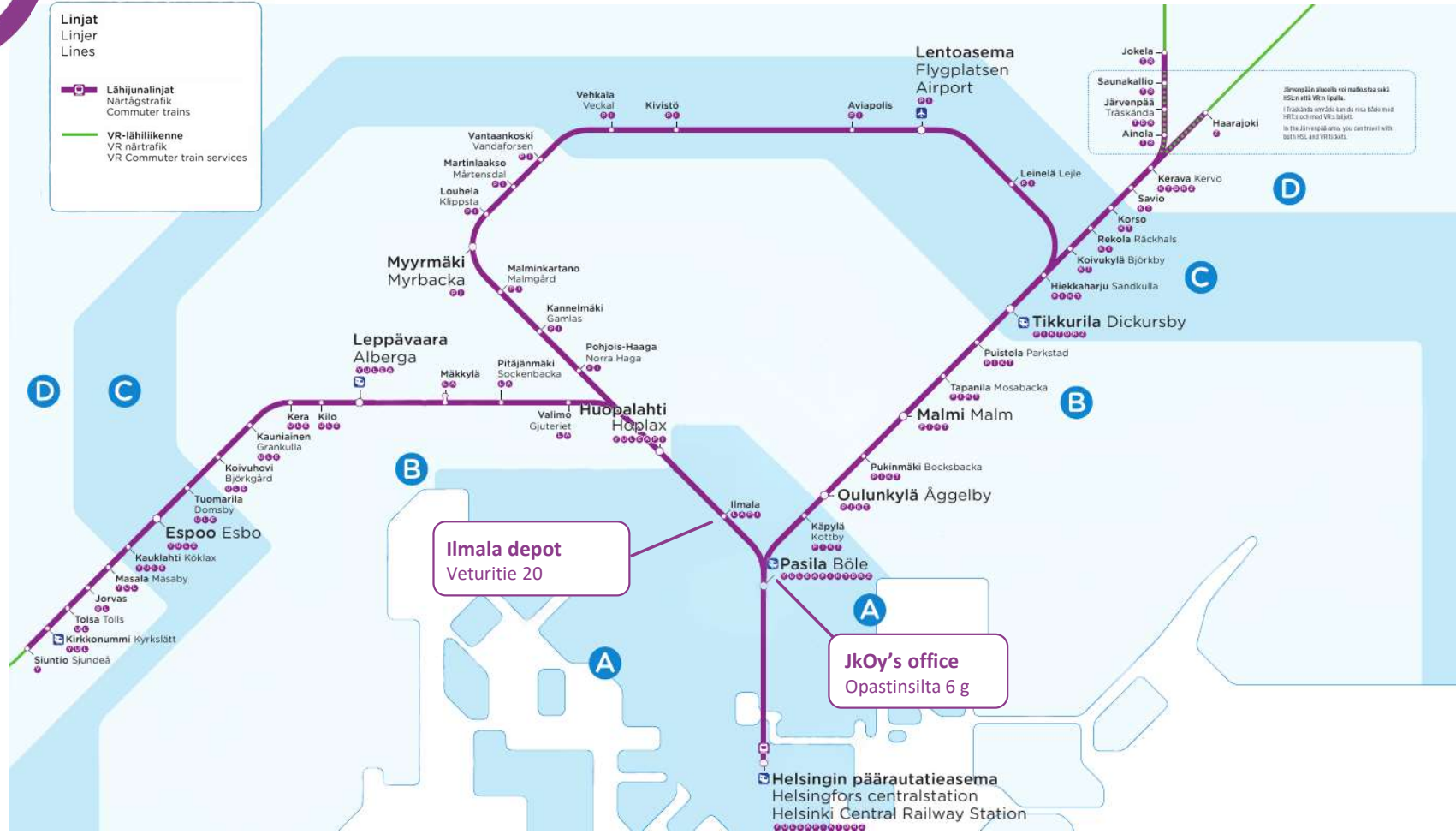
Height of the train: 4'400 mm

Tare weight: 132 t

Starting tractive effort: 200 kN (47km/h)

Starting acceleration: 1.2 m/s²

Maximum operating speed: 160 km/h



THANK YOU

junakalusto

