Status of The Tampere Tramway Project

Light Rail Day 2016 in Bergen
15th November, 11:25 – 12:00

Project Manager Ville-Mikael Tuominen
City of Tampere, Tramway Project
The urban area of Tampere
8 municipalities and over 377 000 inhabitants
Situation 31.12.2015
Current Project:
- 2 tram lines
- 15 km + 6,7...8,0 km of double track
- 7,5 min headway
- 26 tram vehicles
- 37 m long trams
By 2040 it is estimated to be 480,000 inhabitants in the urban area of Tampere.
Long history

First tram plan 1908

Trolley buses 1948 - 1976

Photo: Lolf Spångberg 1966

Several studies of commuter train and tram networks from late 1980’s

Current situation

THE CITY OF TAMPERE
TRAMWAY PROJECT
Population Growth of The City of Tampere

The City of Tampere has been grown steadily for the last 26 years.

From the year 1989 the city of Tampere has grown by 53,700 inhabitants without areal expansions.

It makes average growth almost 2,100 person per year.
New documents published 5th Sep 2016

The Implementation Plan of Part 1 of The Alliance Project

+ 8 annex documents

The Summary of Impact Assessments

+ 25 annex documents

http://www.tampere.fi/raitiotie/
City Council meeting 7th Nov 2016

- 6 hours of conversation, over 41 000 viewers
City Council votes

41 YES / 25 NO / 1 BLANK

Sorted by year of birth
Watching the City Council meeting
(50 of the 40 000 viewers)
Common questions and claims against tramway

- "Buses are enough."
- "Trams are old fashioned."
- "Trams are noisy."
- "Robot cars and electric buses are future."
- "Only those who live along track benefits."
- "Trams doesn’t function during winter."
- "More waiting because of more changes from bus to tram."
- "The City Centre will suffer from the construction works, shops will go bankrupt."
Tram is a joint project of...

- City planning.
- Public transport planning.
- Traffic system planning.
- And real estate ownership of the city.
New housing 2016 - 2040 in bus and tramway alternatives
Land Ownership of The City

Green land plots ➔ city owned

White land plots ➔ privately or state owned
Tramway Alliance

The Alliance be in charge of infrastructure
• Planning
• Construction
• Warranty period
• Option of maintenance of tracks

The City of Tampere be in charge of
• Land use planning
• Planning and construction of street environment, parks, squares
• Public transport planning
• Tendering vehicles
• Tendering operator
Key Figures – Part 1 of Project

<table>
<thead>
<tr>
<th>Tracks of section 1 in numbers</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total length of the line tracks</td>
<td>15 km</td>
</tr>
<tr>
<td>Length of ballasted track</td>
<td>5.24 km</td>
</tr>
<tr>
<td>Length of slab track with a separate lane</td>
<td>5.87 km</td>
</tr>
<tr>
<td>Length of slab track with a mixed-traffic lane</td>
<td>3.89 km</td>
</tr>
<tr>
<td>Total length of depot tracks (one track)</td>
<td>2.80 km</td>
</tr>
<tr>
<td>Length of ballasted track</td>
<td>1.25 km</td>
</tr>
<tr>
<td>Length of indoor slab track</td>
<td>1.55 km</td>
</tr>
<tr>
<td>Width of tracks</td>
<td>1.435 mm</td>
</tr>
<tr>
<td>Number of power supply stations</td>
<td>10 pcs</td>
</tr>
<tr>
<td>Nominal voltage of drive power</td>
<td>750 Vdc</td>
</tr>
<tr>
<td>Number of rail switches</td>
<td>45 pcs</td>
</tr>
<tr>
<td>Number of rail switches along the tramline</td>
<td>30 pcs</td>
</tr>
<tr>
<td>Number of rail switches in the depot area</td>
<td>15 kpcs</td>
</tr>
<tr>
<td>Number of stops (+stop reserves)</td>
<td>23 (+3) pcs</td>
</tr>
<tr>
<td>Number of transfer stops</td>
<td>9 pcs</td>
</tr>
<tr>
<td>Length of a stop platform</td>
<td>47 m</td>
</tr>
<tr>
<td>Height of a stop platform (measured from the rail top)</td>
<td>35 cm</td>
</tr>
<tr>
<td>Number of new bridges to be constructed</td>
<td>7 pcs</td>
</tr>
<tr>
<td>Number of bridges to be renovated</td>
<td>9 pcs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operation</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Number of lines</td>
<td>2 pcs</td>
</tr>
<tr>
<td>Maximum speed</td>
<td>70 km/h</td>
</tr>
<tr>
<td>Running interval on weekdays in day</td>
<td>7.5 min</td>
</tr>
<tr>
<td>Operating hours on weekdays</td>
<td>4 a.m.–11 p.m.</td>
</tr>
<tr>
<td>Length of the Hervanta line</td>
<td>11.53 km</td>
</tr>
<tr>
<td>Length of the TAYS line</td>
<td>4.74 km</td>
</tr>
<tr>
<td>Length of the depot branch in Hermiankatu</td>
<td>0.99 km</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cars</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Width of the car</td>
<td>2.65 m</td>
</tr>
<tr>
<td>Length of the car (optional increased length)</td>
<td>37 (47) m</td>
</tr>
<tr>
<td>Passenger capacity of the car</td>
<td>240 passengers</td>
</tr>
<tr>
<td>Number of cars</td>
<td>14 pcs</td>
</tr>
</tbody>
</table>
Expectations

• Ease the residents' daily life.
• Support urban growth and development.
• Create vitality of the city and cooperation.
• Promote sustainable development.
• Economically viable investment.
• Provide to residents a new pride topic.
Barrier-free service
Pink Trams?

Local main newspaper “Aamulehti” asked and they got

- 27 940 votes in total
- 43 % voted for pink
Lessons Learned

• The Project has thought for a long time. The City of Tampere is now ready for tramway.

• Openness, participatory planning.

• The negative effects must be identified and openly told.

• Benchmarking of other projects.
Tampere Tramway Alliance Team
In Bergen

The City of Tampere

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Thank you!