TPG and Innovation for a Smart Region

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Transports publics genevois (tpg)

Day of Cities, UNECE - April 9th, 2019
History of TPG
Geneva Mass Transit Milestones and Eras

19th Century – Innovation
- 1833 First omnibus launched
- 1862 First horse-drawn tramway line
  Line 12: historic, oldest still operating in Europe
- 1878 First steam-powered tram
- 1896 First electric tram

20th Century – Wars and Cars
- 1920 Peak of Geneva tram lines
- 1977 Takeover by the State of Geneva

21st Century – Renewed Growth

Place de Neuve, 1894
State of the company today
Facts and figures

- 217 million passengers/year
  700’000/day during work week
- 28 million km covered
  More than 70’000 km/day or twice circumference of earth
- 63 lines
- 1959 employees (12% woman)
  of whom almost 1200 drivers
- 440 vehicles (50% electric)
  237 buses, 92 trolleybuses, 111 trams
- 7 days per week, 23 hours per day

Source: annual report 2017
Client experience

Overall satisfaction with public transport – Geneva first in Europe

HSBC 2017 Expat Study: Geneva-based expats consider local public transport reliable and convenient

Source: BEST Survey 2017
Sustainable cities reduce congestion
Most efficient way = Encourage mass transit

- Geneva Canton Population:
  501,748 (2018)
  576,000 to 625,000 (2040)

- Commuters from France to Geneva/day:
  109,972

- Percent commuters from France in cars:
  More than 90%

70 people on the left, 70 people on the right
Sustainable mobility for smart cities

Tpg is actively developing innovative products/systems

- Sustainable development
  - TOSA flash-charging bus

- Virtual reality
  - Drivers training

- Automatisation
  - Driverless vehicles

- Digital transformation
  - tpgPay

- Application programming
  - Interface – tpg Lab

- Multimodality
  - ZenGo

- Comm
  - Tetra radio
In addition to ongoing innovation
Three Major Events on December 15th, 2019
1. Léman Express – Missing Link

New train route completed from Annemasse across Geneva to train station (black line)
Requires reorganization of 40% of tpg network so bus lines go to train stations
2. Tram to Annemasse, France
Come-back of transborder tram line closed in 1958
3. En Chardon

Third tpg maintenance center to open across from Geneva airport runway

- 70 trams et 130 buses will move from two existing depots

- Nearly all underground

- Second largest public works project in the Canton of Geneva, after Léman Express
Smart Sustainable Region
Innovative and effective mass transit network linking cantons of Geneva and Vaud and neighboring France