



Siemens at the UITP World Congress 2013

Modern rail vehicles for mass transit systems

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Urban Transport answers the mobility demands of cities - today and tomorrow

Demand

Brownfield

- Modernization and replacement of installed base
- Enlargement of fleet and network

Greenfield

- ~**200 cities** worldwide with almost **1 Mio.** inhabitants w/o **rail-bound** public transport system



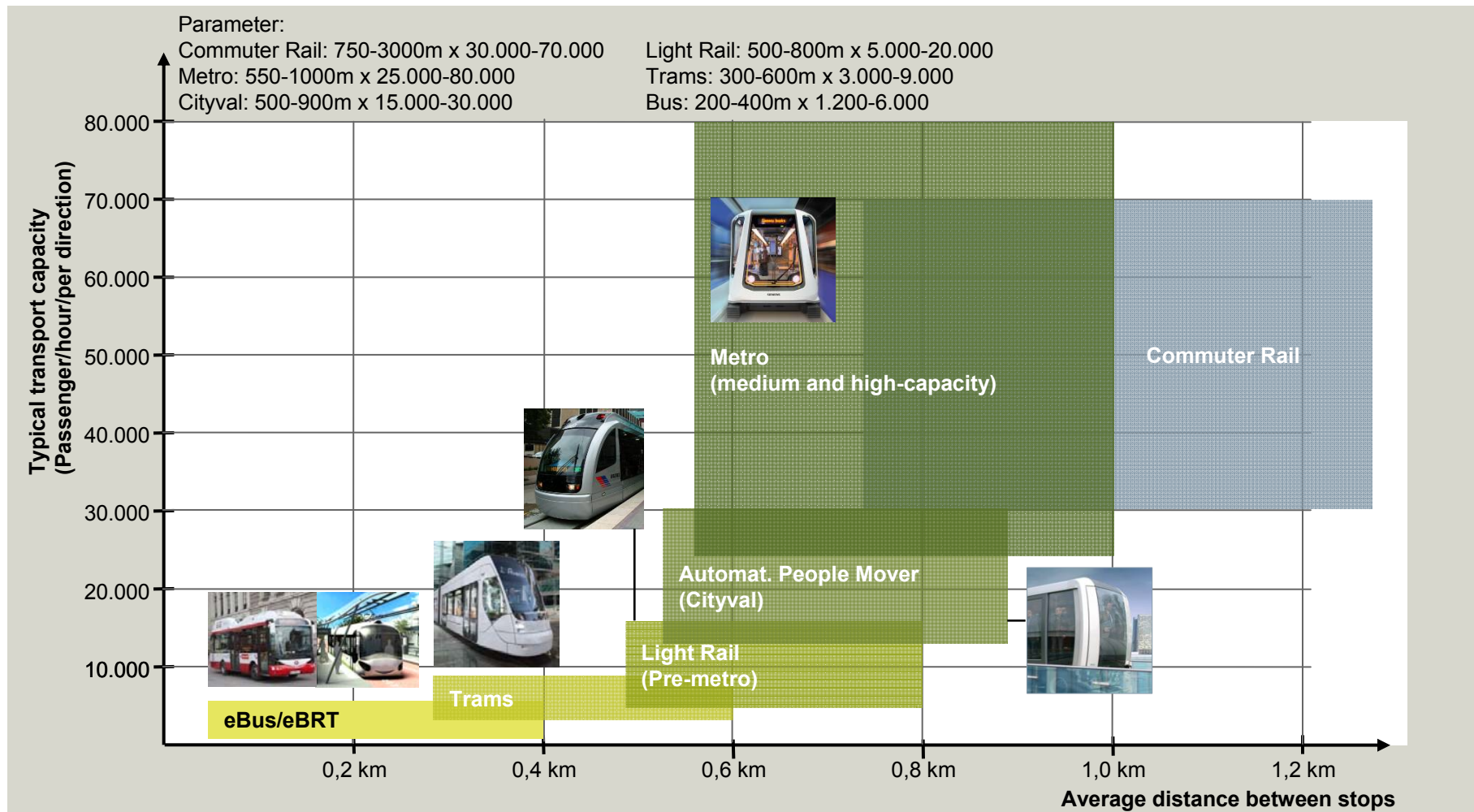
Portfolio

Light rail and street car,
APM feeder systems,
eBus/eBRT

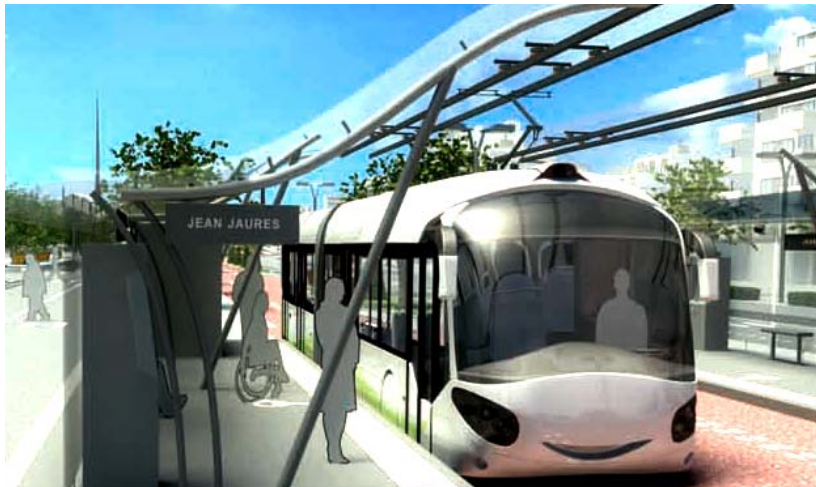
Passenger Coaches
for intercity traffic



Our portfolio aims to meet the increasing challenges of urban mass transit transportation



eBus / eBRT – electric equipment of buses for a better environment and cost reduction in service



- No local emissions
- Reduction of energy costs
- Advantages at LCC particularly because of decreased amount of maintenance compared to combustion engines
- Optimized ride comfort due to modern control systems
- Excellent energy yield through high efficiency and optimized energy regeneration
- Approved components for electric motor
- Range > 100km

Wiener Linien: Vienna operates first series all-electric bus in Europe from Siemens and Rampini



Warsaw Inspiro



2012: The year of the Avenio platform

The Hague, Doha, Munich

Avenio The Hague

- **First order**
- **Contract volume**
Over 100 million Euros
- **Scope of delivery** 40 trams
- **Delivery** of first vehicles
beginning in 2014



Avenio Education City Doha - TK project

- **Contract volume**
Over 100 million Euros
- **Scope of delivery:**
19 trams
- **Commissioning**
Scheduled for the autumn of 2015



Avenio Munich

- **Contract volume**
About 29 million Euros
- **Scope of delivery:** 8 trams
- **Commissioning** of six trams
at the end of 2013



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Customer Services – Refurbishment Example Workshop Services

Metro São Paulo – Linha 1 Azul



Our task:

- 150 metros had to be refurbished between 2009 and 2014
- Replacement of original DC by new AC traction system (DC chopper exchanged with IGBT inverter and DC drives replaced with AC drives)
- Installation of a new “fail-safe” braking system
- New train control system
- Bogie revision including adaptations
- Carried out in a consortium with Alstom

Highlights of our solution:

- New on-board electrical system with battery charger
- Modification of the driver’s cab; air conditioning system; new interior
- Door system revision
- New air compressor and revision of the pneumatic system
- Fire alarm system; Audio and video system

Welcome to Siemens at the 60th UITP World Congress in Geneva!

SIEMENS



**Siemens Stand:
Hall 2, Stand 2A325
Palexpo, Geneva
May 26-30, 2013**



SIEMENS



Sector Infrastructure & Cities - Rail Systems Division

**Thanks for your
kind attention!**