

# SMART, SUSTAINABLE CITIES

Taipei





# ELECTRIFIED BUSES

Sustainable, Safe, Reliable, Accessible & Efficient

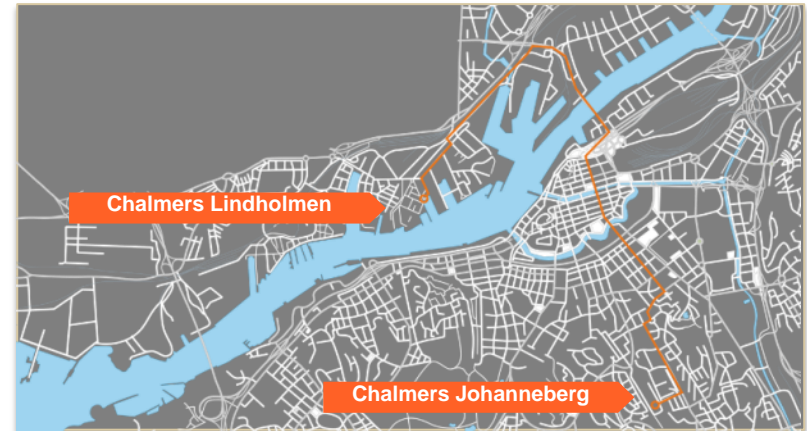
Volvo Buses. Driving quality of life



# ElectriCity project

Line 55 in Gothenburg – since June 2015

- An arena for testing and showcasing new products and services in public transport
- Commercial line with 10 vehicles including
  - 7 electric hybrid
  - 3 full electric.
- Connects the two university campuses
- 8 km long, runs through the city centre
- Charging takes place at the end stations
- Fast charging in 3-4 minutes, 300 kW



# Three cornerstones of Volvo Buses e-mobility strategy

## Product portfolio

The future will be a mix of:

- Hybrid
- Electric Hybrid
- Electric



## Complete system offering

- Buses, infrastructure & services
- Battery charged by km
- Competitive Life Cycle Cost vs Diesel



## Open interfaces

- One open and standardized interface for charging infrastructure
- Enable buses from other suppliers
- Driving standardisation together with Siemens, ABB....



# Taiwan Cooperation

- 40 years with Taikoo Motors, Sales and service
- CKD production of Chassis
- Close cooperation with Daji motors to support local body build industry



# Support required

## Clarification On:

- **Infrastructure & charging solutions**
  - Incl. common interface for charging
- **City planning, grid connection, new substations & power loads**
  - Power availability, transport security, depot design and set-up, indoor bus stops...
- **Business model and stakeholders**
  - Who owns and pays for what?
  - Should we compare to diesel buses or light rail?
- **Contract model**
  - How & for what operators are paid for will look different. Battery leases, capital cost, lower operating cost...
- **Government policy**
  - Strong support.

