

A woman with long brown hair, wearing a white shirt, a dark vest, and a green scarf, is sitting in the driver's seat of a truck. She is smiling and holding a silver iPhone up to take a selfie. The truck's steering wheel and dashboard are visible. Outside the window, a green field is visible. In the foreground, the back of a person's head with a white daisy flower in their hair is partially visible. A semi-transparent dark banner is overlaid on the lower half of the image, containing the title and name.

TAKING THE NEXT STEP

Martin Atterhall





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319

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*Free from
local
emissions*

*Significantly
reduced noise
pollution*

*Energy
efficient*

*Reposition
PT trademark -
increase brand
value*

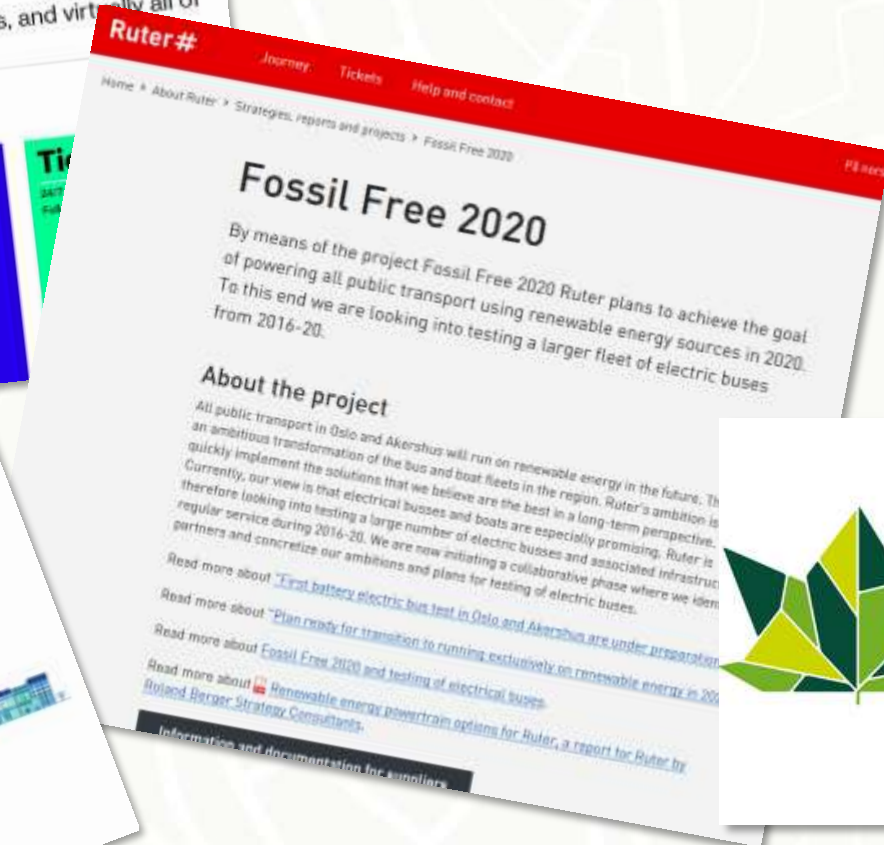
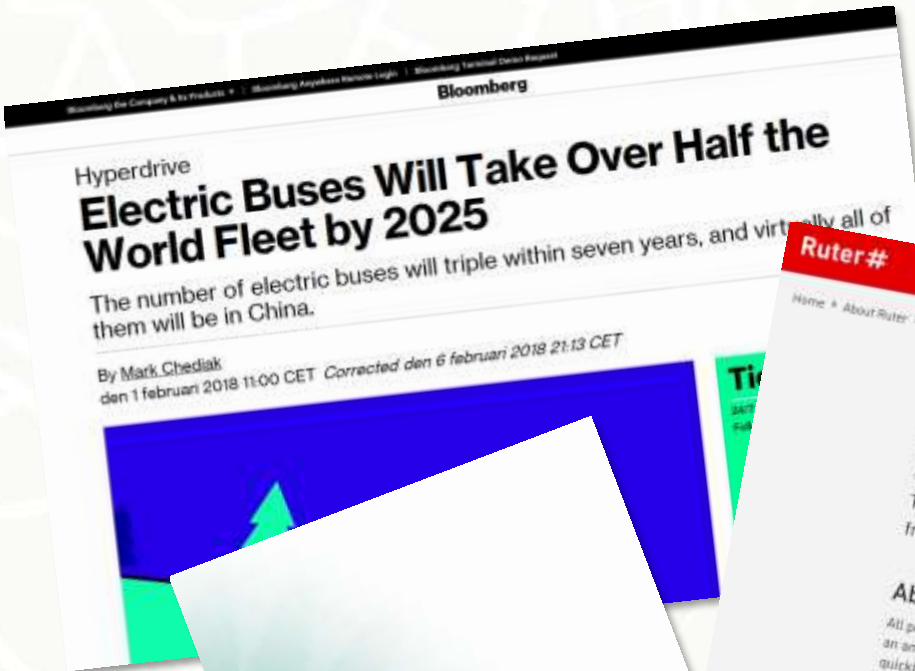
*Increased
customer
appreciation*

*Facilitates
public transport
in new areas*

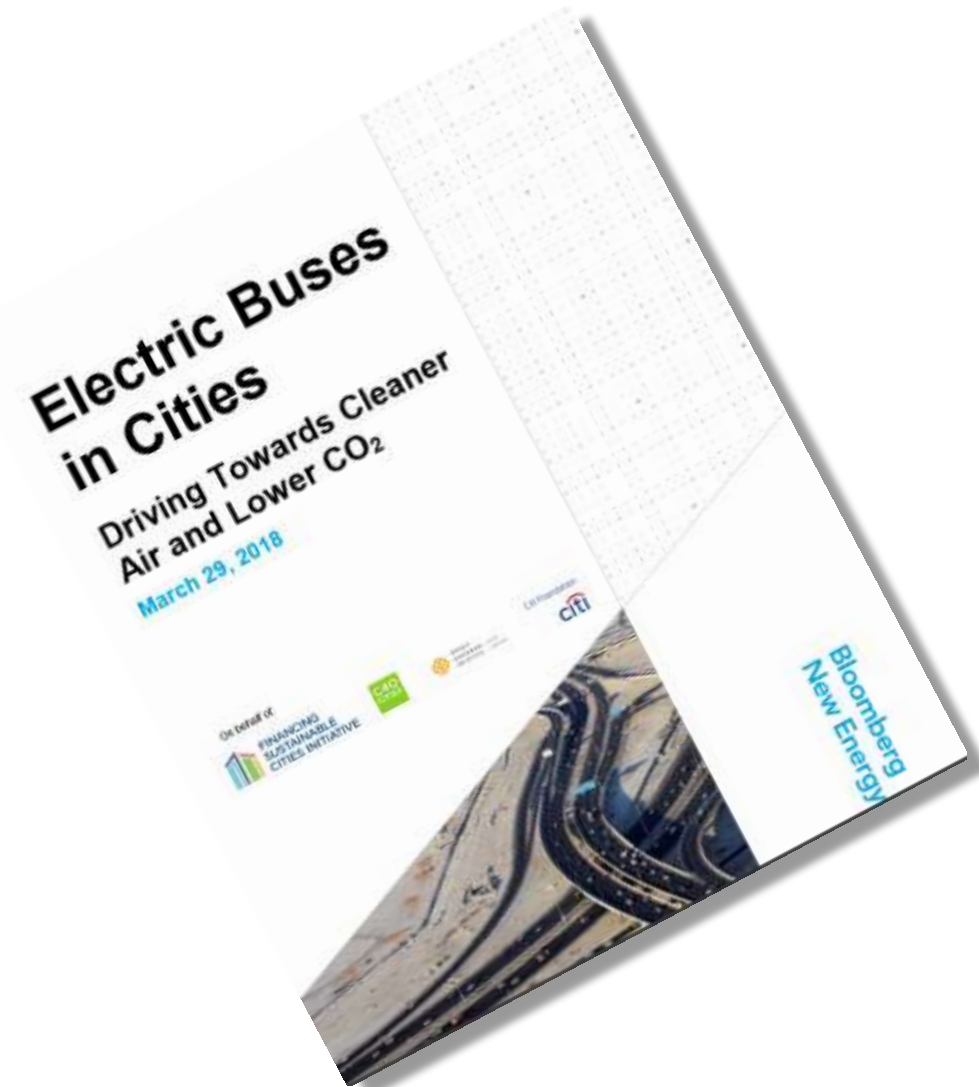
*Greater
acceptance for
buses in
the city*

***Attract more
customers to
Public
Transport***

A CLEARLY VISIBLE TREND

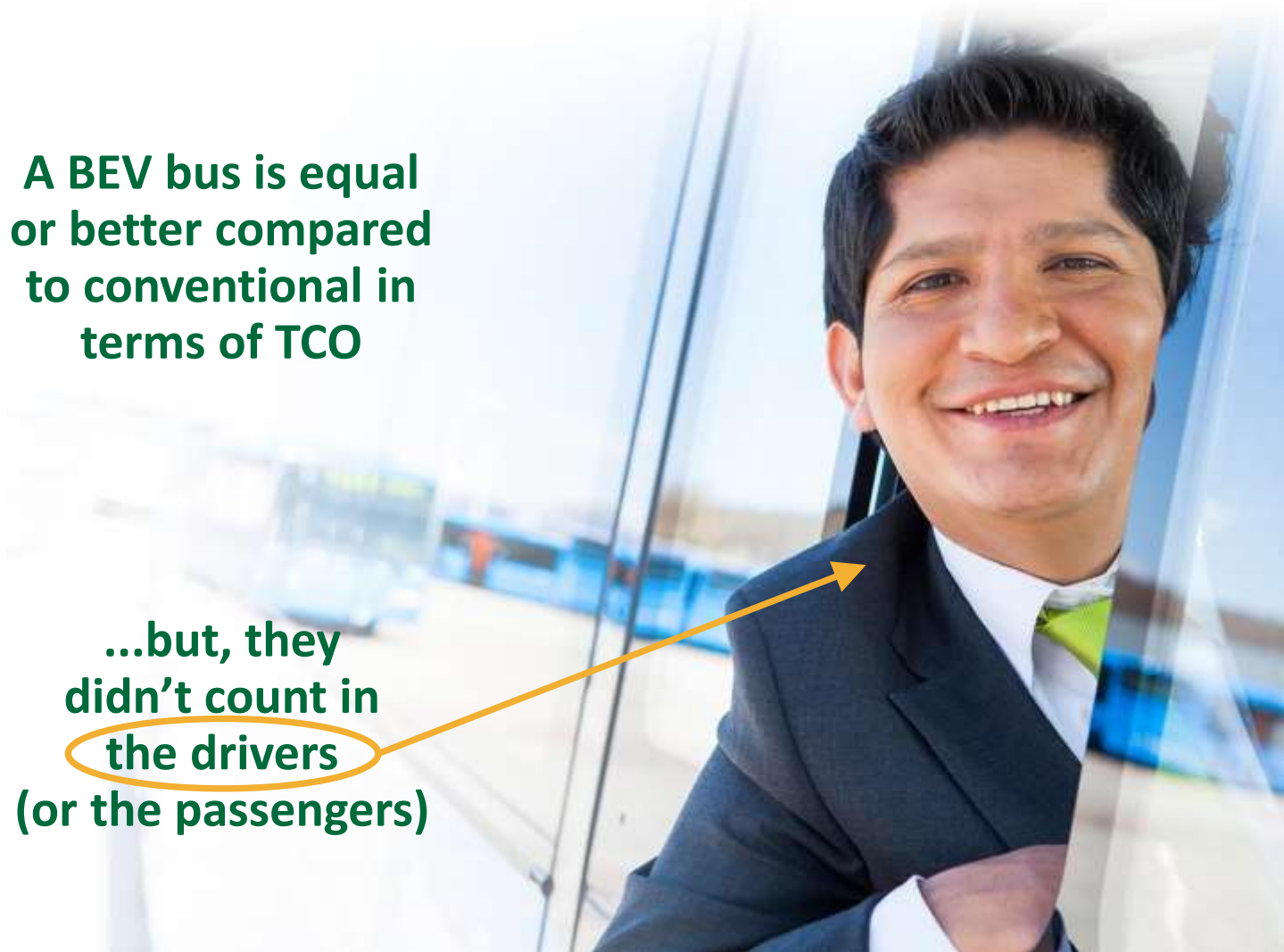


TECHNOLOGY HAS REACHED A THRESHOLD

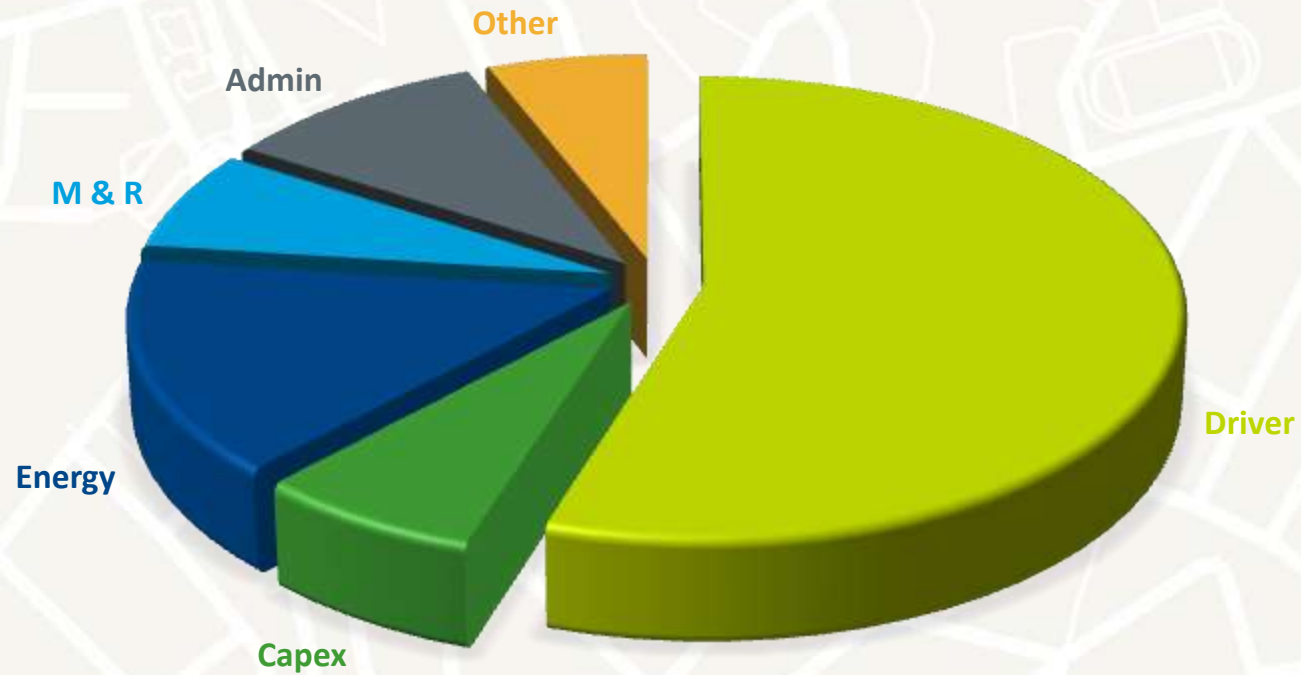


A BEV bus is equal
or better compared
to conventional in
terms of TCO

...but, they
didn't count in
the drivers
(or the passengers)



TYPICAL COST DISTRIBUTION FOR A CITY NETWORK

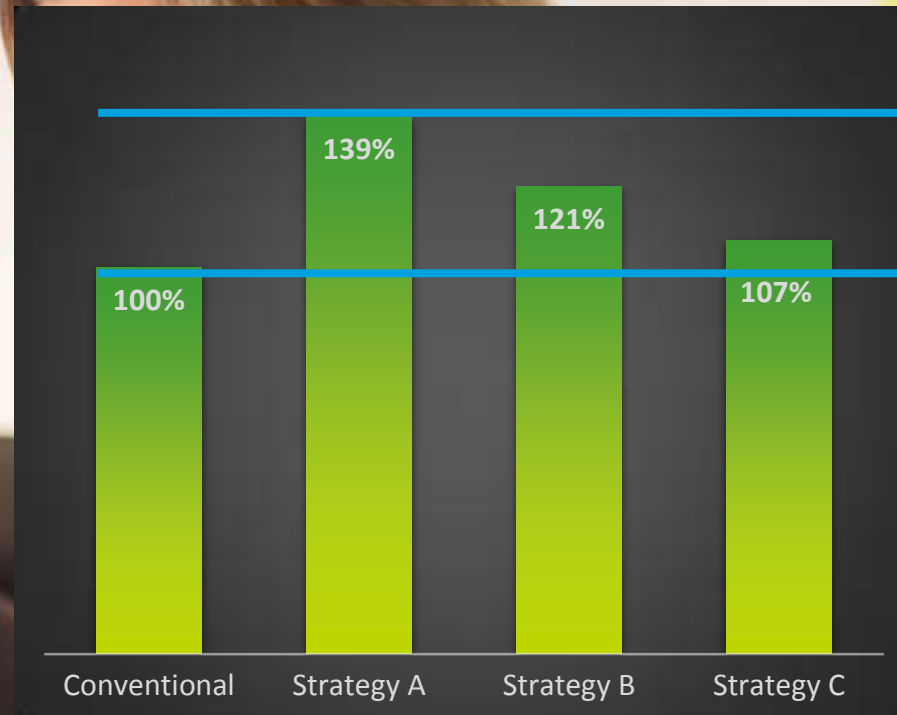


Station performance drastically reduced



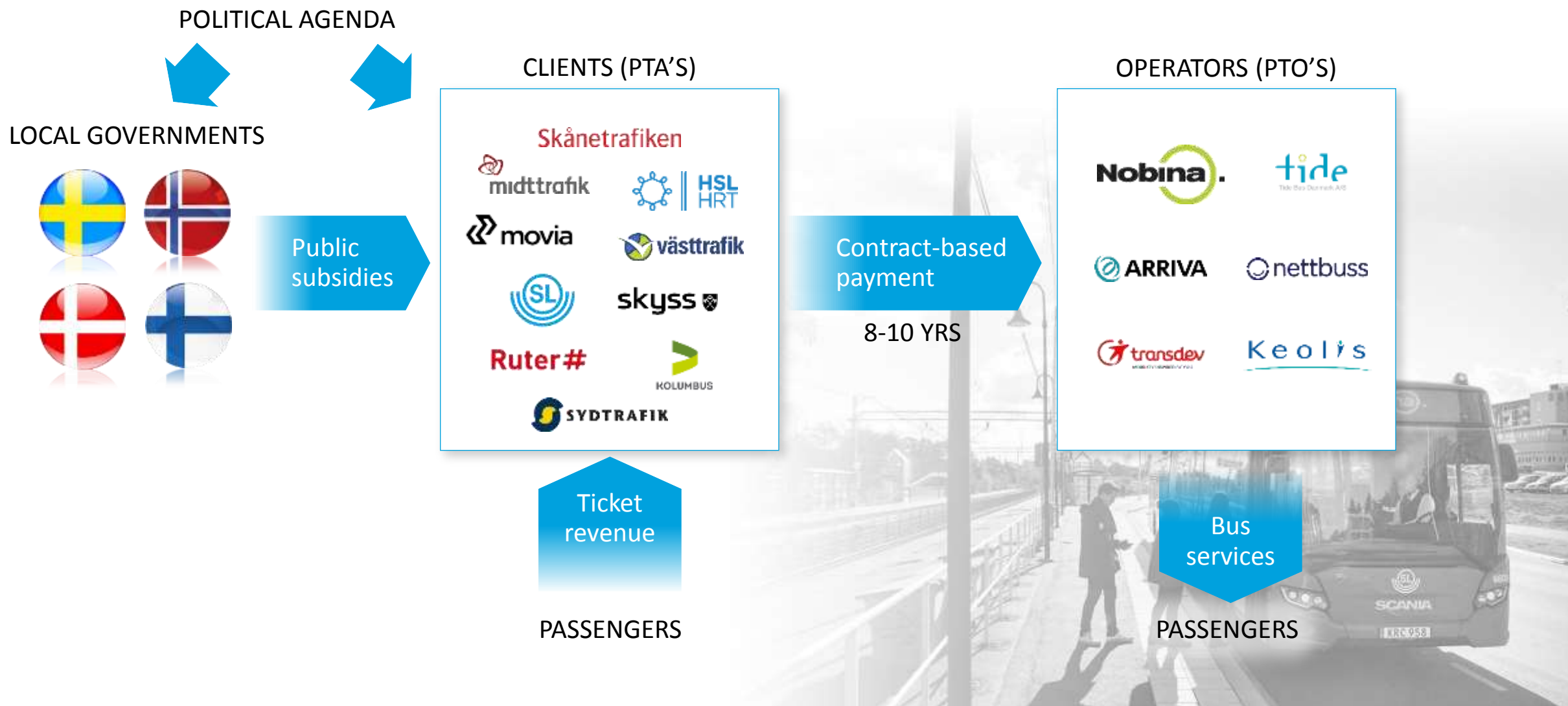
EFFECT OF NETWORK PLANNING DYNAMICS

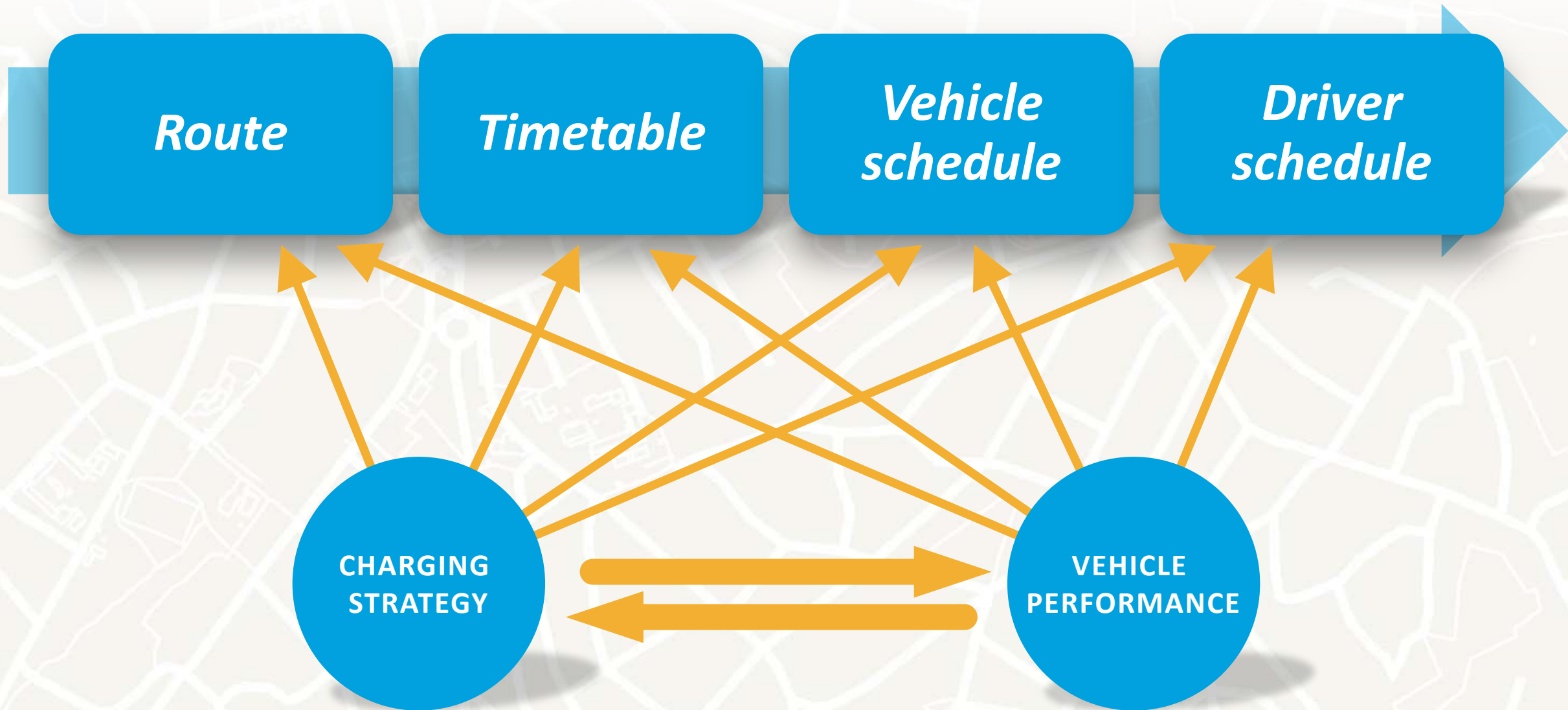
- Driver hours
- No of buses needed
- Infrastructure investments



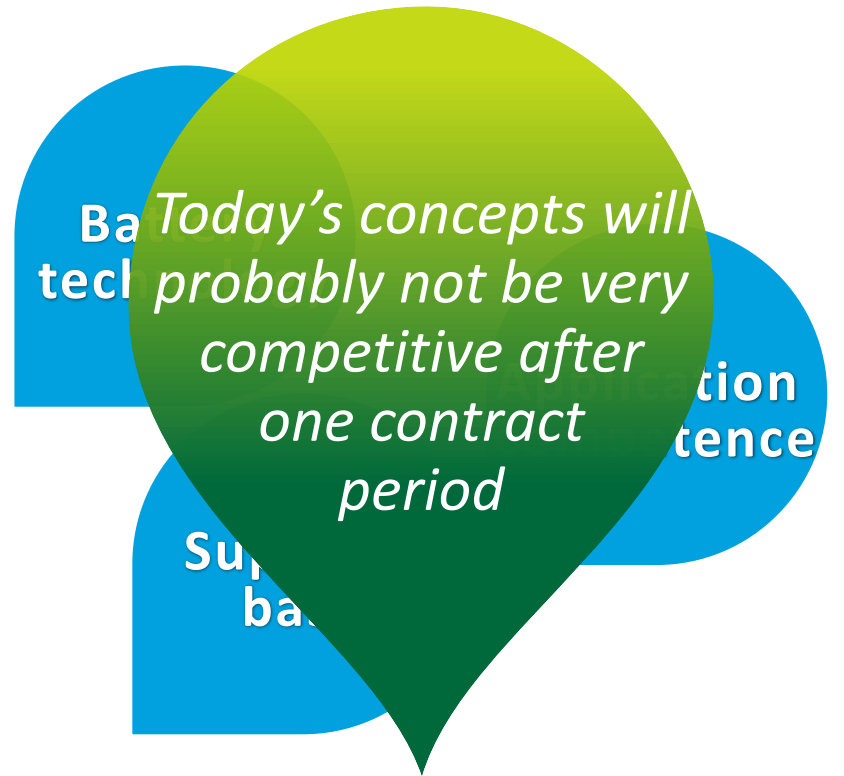
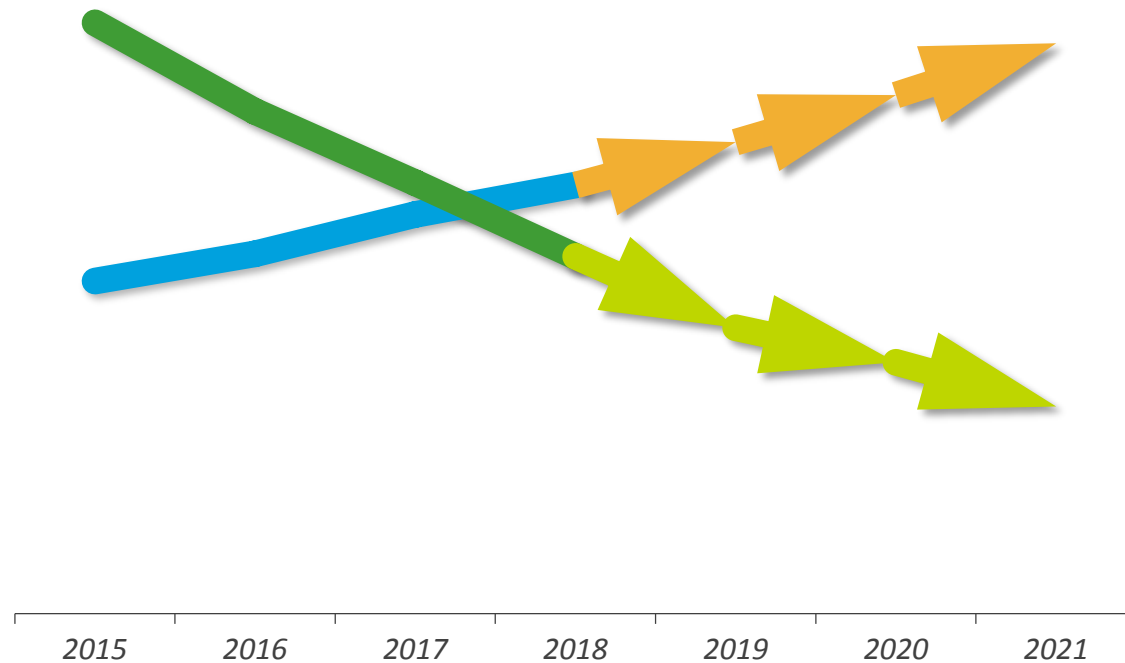
*39% increase
in driver hours
means > 20%
direct cost
increase*

NORDIC PUBLIC BUS TRANSPORT MARKET DYNAMICS





TECHNOLOGY AND INDUSTRY IS DEVELOPING FAST



THE FUTURE IS NOW...

- From 15 to almost 100 e-buses in coming 18 months
- Almost all coming tenders for urban traffic include e-buses



To minimize public spending impact, open for optimization of the complete chain



Electric bus systems are vital components in developing sustainable cities



The future is now...



Current technology concepts will likely be obsolete in one generation contracts



Nobina .