

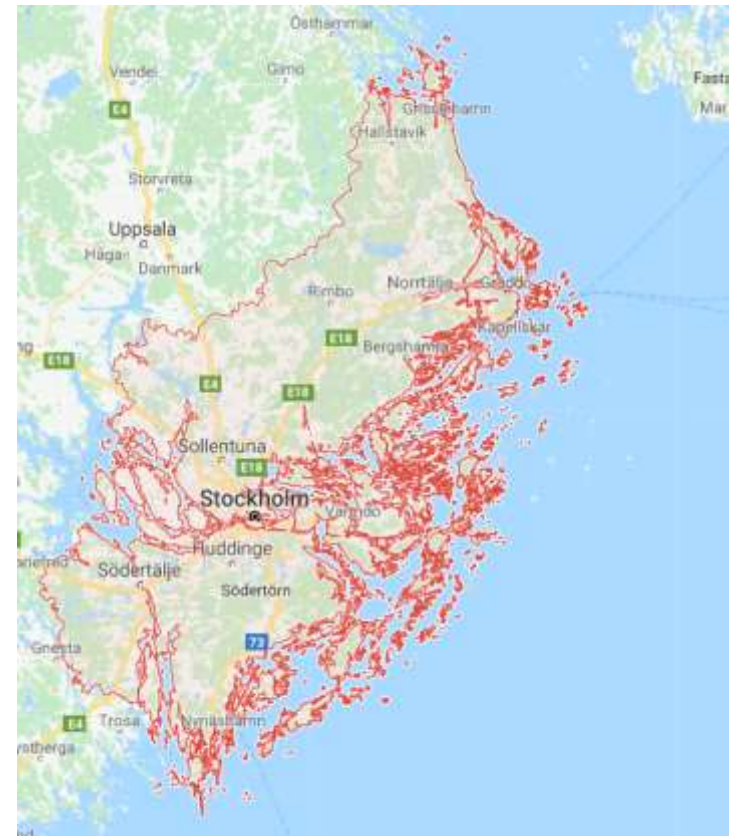
Introducing electric buses to Stockholm's public transport

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Public transport in Stockholm

- Bus, Metro, Light rail, Rail, Trams and Ferries
- 100 % of the bus fleet runs on renewable
 - Biodiesel
 - Biogas
 - Ethanol



Buses are owned and run by operators

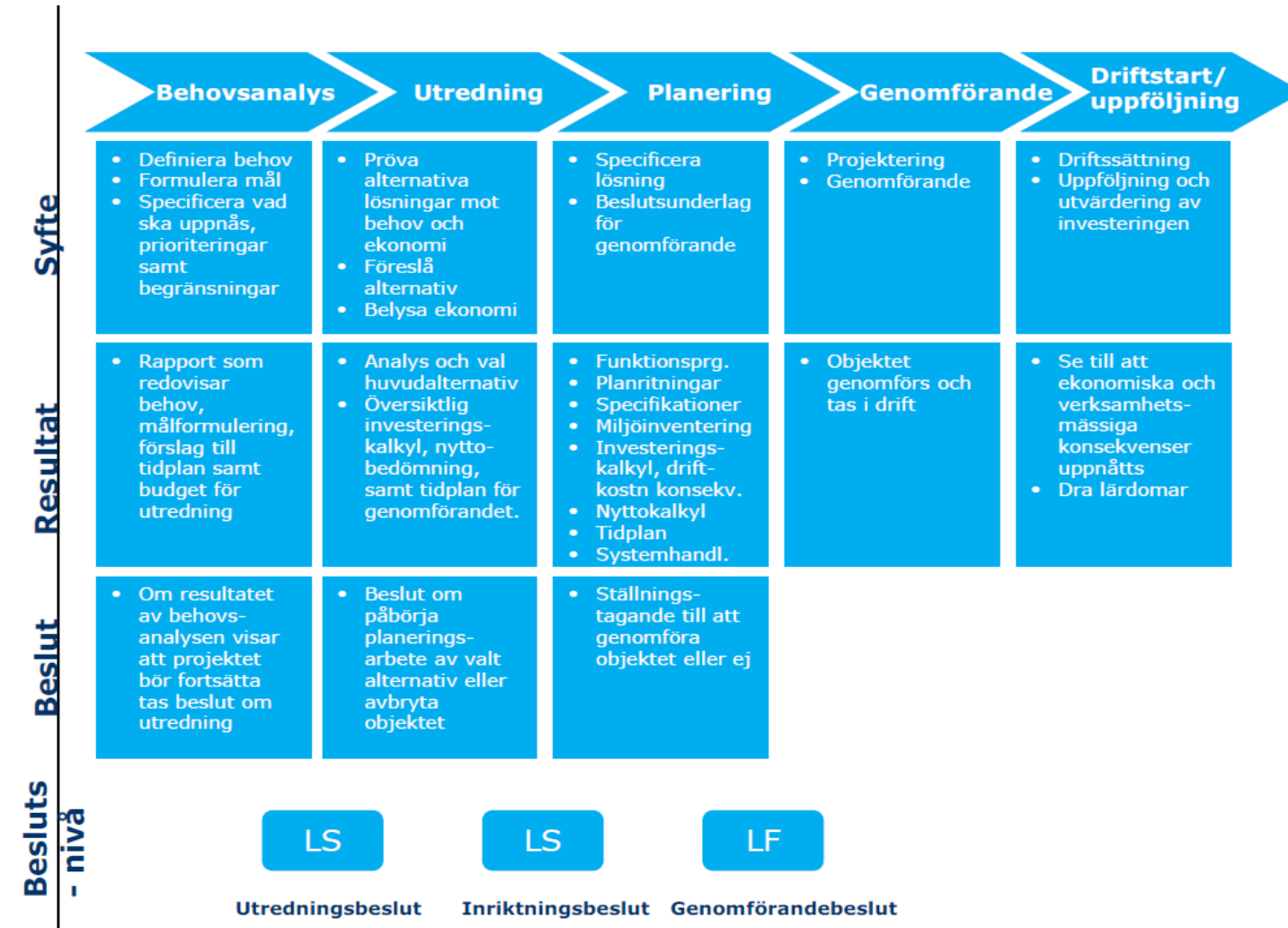
- 10 year contracts
- Changes only possible with new contracts
- Traffic planning, fleet management, maintenance, depot

Årtal	Trafikavtal som upphör om de inte förlängs	Trafikavtal som upphör vid maximal förlängning
2016	-	Södertälje (E13) Järfälla/Upplands-Bro (E13)
2017	-	-
2018	-	Tynningö (E18)
2019	Norrtälje (E19B)	Ekerö (E16) Sigtuna/Upplands Väsby/Vallentuna (E16)
2020	Bromma/Solna/Sundbyberg/Sollentuna (E20)	-
2021	Täby/Åkersberga/Vaxholm (E20)	Söderort/Huddinge/Botkyrka (E19) Nacka/Värmdö (E19) Norrtälje (E19B)
2022	Stockholms innerstad/Lidingö (E22)	-
2023	Tyresö/Handen/Nynäshamn (E23)	-
2024	Järfälla/Upplands-Bro (E28)	Bromma/Solna/Sundbyberg/Sollentuna (E20)
2025	-	Täby/Åkersberga/Vaxholm (E20) Tyresö/Handen/Nynäshamn (E23)
2026	-	Stockholms innerstad/Lidingö (E22) Södertälje/Nykvärn (E27) Upplands-Bro (E28)

Introducing electric buses

- Results from a pre-study in 2015 concluded that several environmental challenges could be improved by introducing electric buses
 - Energy efficiency
 - Noise pollution
 - NOx, particles..
- But also that electric buses are less flexible than existing buses and requires new methods for traffic planning, cost management, infrastructure...

Planning process



Setting up a framework for introducing electric buses in Stockholm

- Focus area:
 - Setting a framework for introducing electric buses in the region of Stockholm. Challenges with regards to different parts of the region. What kind of electric buses are suitable where and what benefits can be gained? Strategy for implementation and business case.
- In more detail study the effects of electric buses within the city area of Stockholm and Lidingö
- 2 year project – January 2017 – December 2018

- Focus on three types of electric buses
 - Electric grid
 - Business case
 - Biogas



Present activities

- Status report – November 2017
- Impact assessment
 - Environmental (LCA)
 - Social
 - Economy
 - operation and maintenance
 - CBA
 - Dismantling
 - Revenues and co-funding
 - Business case and procurement
 - Potential operators capacity
 - Follow-up on contracts
 - *Possible to administer*
 - *According to existing system*
 - *Of no action*
 - *Consistent with regulations and requirements*



Next step

- Report with recommendations finished in august
- Election in September..
- Presented to regional board in December or January/February

QUESTIONS?