

Holo

**Experience with the AV legislative framework
in Denmark and abroad**

By
Nanna May Felthaus
Head of project planning, Holo



Holos experience with AVs in the Nordic countries

2016

Holo founded

2017

Identifying initial projects

2018

First vehicles deployed on open road in Sweden

2019

Expanding ground passenger operations across Scandinavia, starting operation in Norway, Finland and Estonia

2020

Starting to new sites in Denmark with gen 1 vehicles
Closing down other sites with gen 1 vehicles

2021

Starting project with S4/Toyota in Norway
Closing down 2 danish sites
Starting new site in Denmark

2022

Looking for new projects with next generation of technology

0



0



2



197



3



20.065



4



56.604



2



80.000



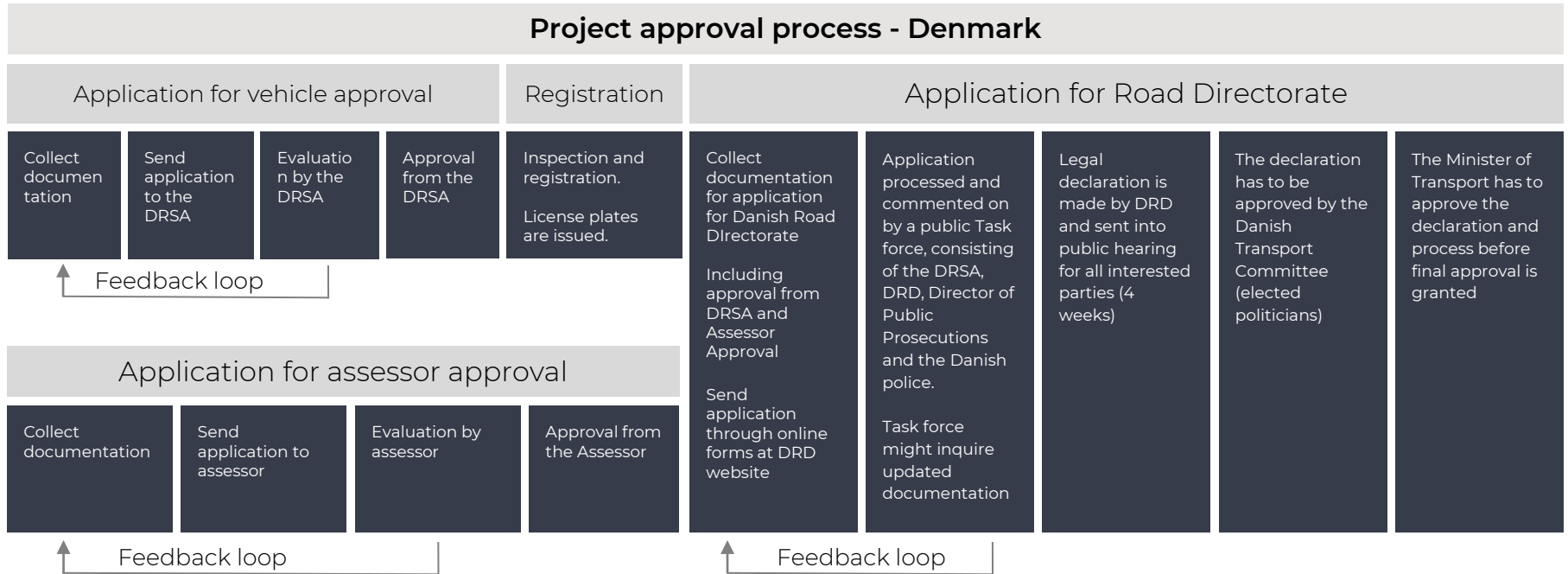
58.000 passengers

 = New projects

 = Total kilometers driven

Differences between legislative frameworks in the Nordic countries

- content and process



Since the law was enacted a total of 4 projects has been approved under the current legislation in Denmark

Differences between legislative frameworks in the Nordic countries

- content and process

Project approval process - Norway

Collect documentation

Following type of documentation is required to be added to the submission form.:

1. Plan for pilot project
2. Insurance certificates
3. Customs declarations
4. Vehicle registration
5. Vehicle compliance with EU directive 2007/46/EC
6. Dispensations from directive 2007/46/EC
7. Functional description of the ADAS
8. System description of the ADAS
9. Technology description
10. Maturity of the autonomous system
11. Data security and privacy measures
12. Risk assessment of the autonomous system
13. EMC compatibility
14. Risk assessment of the project route
15. Verification of trained operators
16. Other relevant information

Send full project application to the NPRA

Complete project application is send by email to relevant contact person from NPRA.

Application is sent to the NRD (Norwegian Road Directorate) only.

It is not possible to get insurance or register the vehicle before the permit is granted, once registration and insurance is in place, this must be sent to NPRA.

Full project evaluation by the NPRA

The overall project is assessed and reviewed by NPRA, who might use external parties to assess the application.

During this process written feedback and questions is to be expected to the applicant.

Project approval from the NPRA

A written permit is issued by NPRA and send by email to the applicant contact person.

Inspection and registration

Inspection at the Norwegian Public Roads Administration.

After successful inspection the vehicle is registered and license plates are issued.

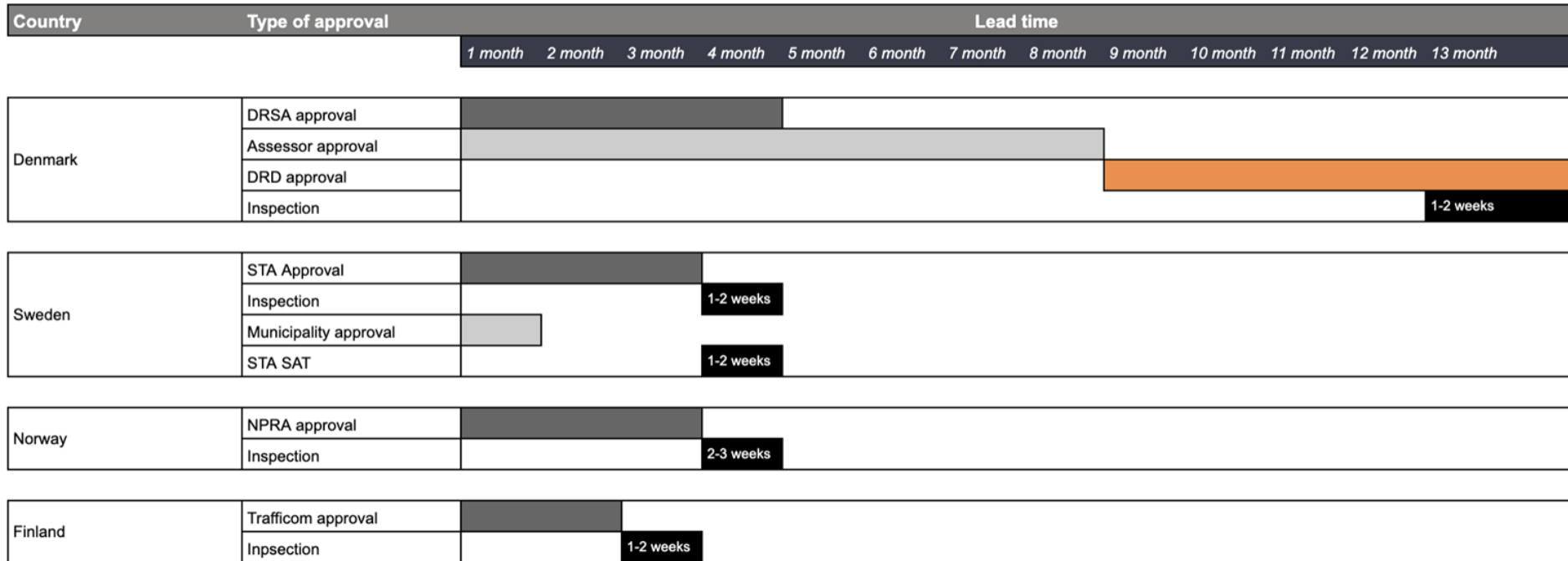
The documentation for this must be sent to NPRA as an orientation.



In Norway a total of 51 projects has been approved under the current legislation, which makes Norway a Scandinavian leader in terms of projects approved and conducted.

Differences between legislative frameworks in the Nordic countries

- lead time for approvals



Recommendations for the legislative framework - in Denmark and the Nordics

