Entur AS

"Entur makes it easy to choose public transport"

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Commission 2016

«The government has decided to establish a company with sectoral policy objectives for providing sales and ticketing solutions for the railway as well as a national multimodal journey planner.

In addition it will facilitate the adaptation of electronic ticketing for all public transport in Norway.»

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Company objectives – short term (2017/18)

Entur will adapt and modernize its IT systems and services in order to strengthen the competitiveness of existing and future train operators.

Entur will provide services regarding route and schedule data, journey planning, real time information and electronic ticketing for all public transport operators.
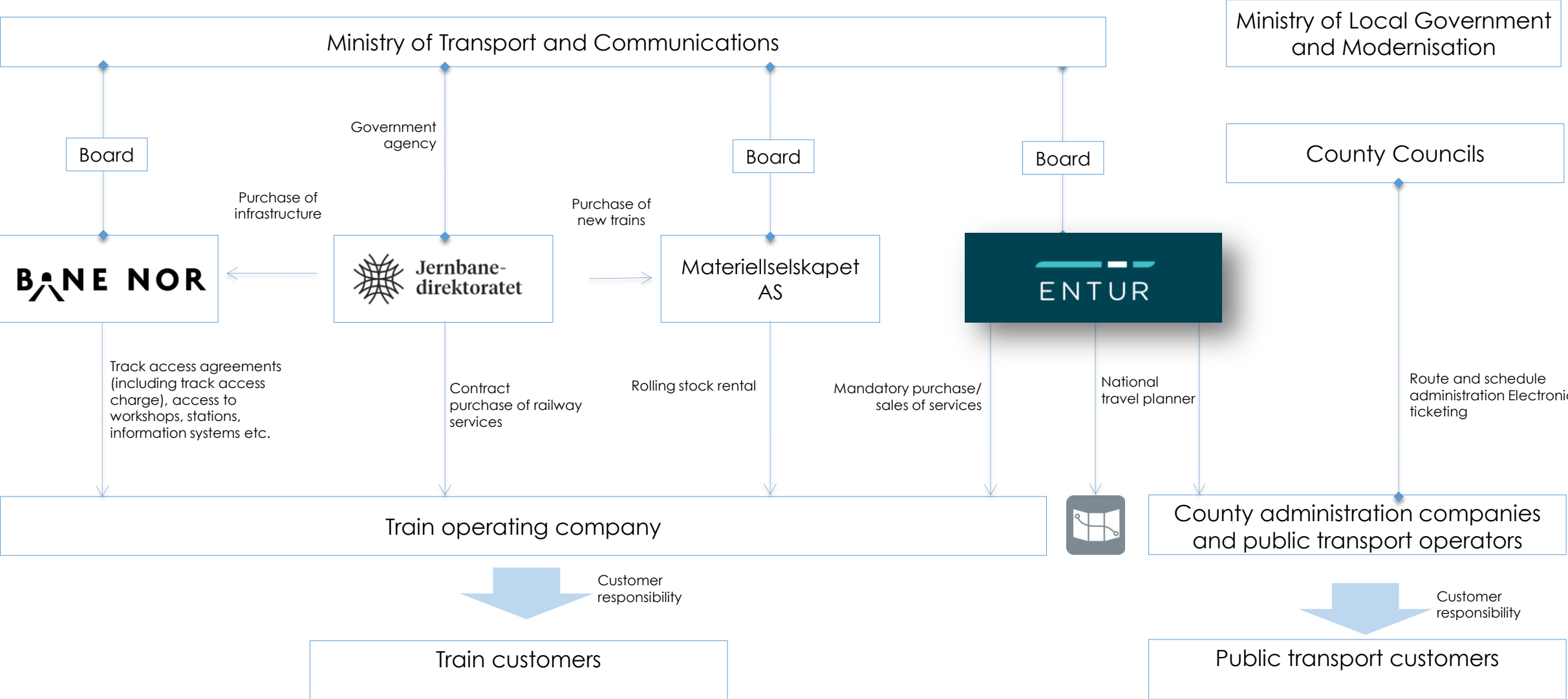
Entur will launch a national travel planner in 2017, and an unbiased sales and ticketing solution for trains in Norway within the first half of 2018.

Company goal – long term

Entur provides solutions that will enable the travelers to plan and buy all journeys in one operation, completely independent of transportation modes or numbers of transfers.

Entur's position in the public transport and railway landscape

Ministry of Transport and Communications

Ministry of Local Government and Modernisation

Board

Government agency

Board

Board

County Councils

Purchase of infrastructure

Purchase of new trains

BANE NOR

Jernbane-direktoratet

Materiellselskapet AS

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Track access agreements (including track access charge), access to workshops, stations, information systems etc.

Contract purchase of railway services

Rolling stock rental

Mandatory purchase/ sales of services

National travel planner

Route and schedule administration Electronic ticketing

Train operating company

County administration companies and public transport operators

Customer responsibility

Customer responsibility

Train customers

Public transport customers

The services Entur provides for train operators

Category	The company's services				
Channels	**Ticket machine and validator**	**Neutral sales channel**	**API**	**Customer service center**	**Station sales**
Technical services	**Technical platform**	**Payment**	**Handheld conductor terminals**		
Transaction services including lost and found	**Lost and found**	**Sales transaction processing**	**International sales**	**Handling and preventing fraud**	**Transaction processing of conductor sales** **Data management (quality assurance)**
Optional services	**Operator training**	**Customer support for the operator's sales channel**	**Operator specific development and management**	**Data management** (product, price, schedule, etc)	

Modules and frontend

Travel planners, timetable exchange, real time and locations

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NSR
National stop registry

- NeTEx format
- GUI editor
- API and exports

The NSR should be the standard for all stop places, ensuring that every operator uses existing locations and preventing multiple entries. This database should also deliver enhanced information about the location.

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NSR
National stop registry

Data collection
Unified format

- NeTEx format
- Delivery portal
- Data sets open to the public

Operators of public transport have been imposed to deliver they're timetable data in a unified format. Timetable data is considered public information and will be distributed in NeTEx and GTFS format

Fares should also be delivered in NeTEx format in the future

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Real time
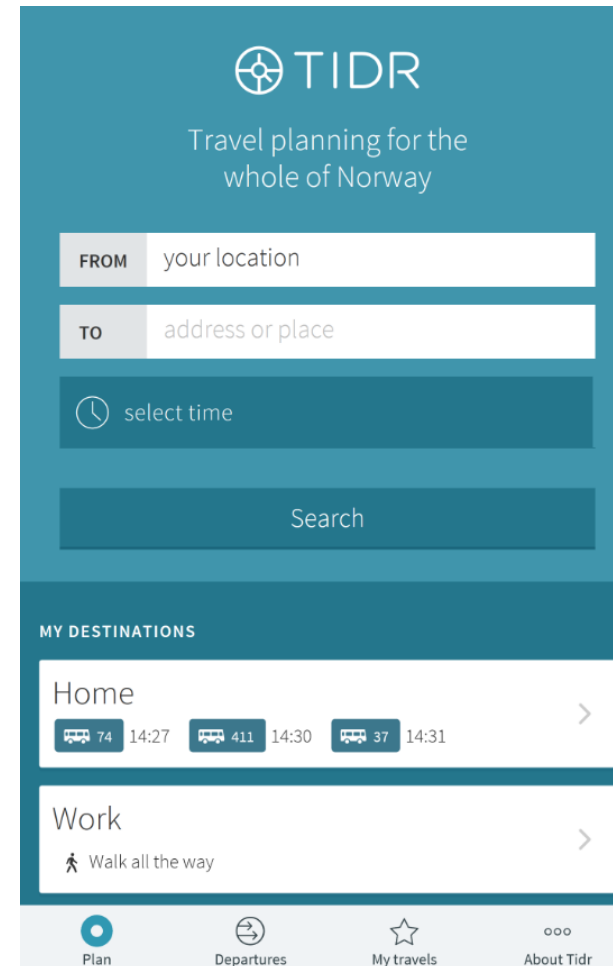Unified format

- SIRI 2.0 format
- SX, VM, ET, PT

Delivering real time data is not mandatory. We will collect data streams for every operator that have it available and encourage operators to implement real time on they're services
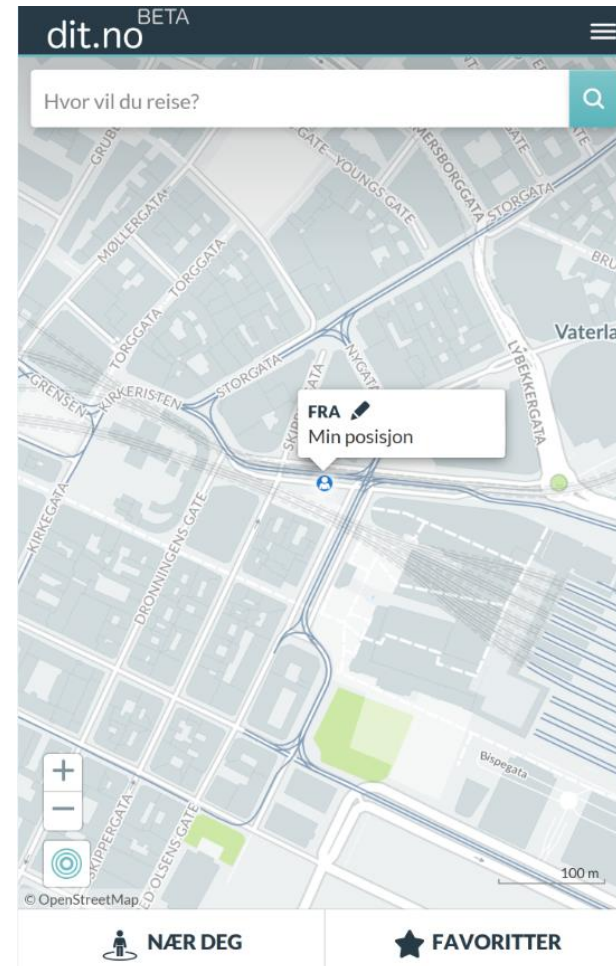
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Tidr
Started by NSB
Focus on frontend and usability.
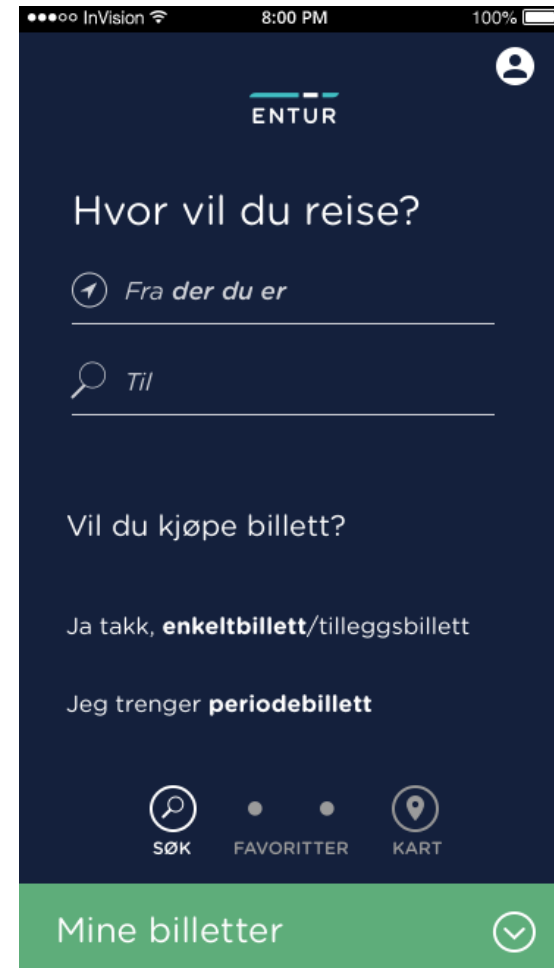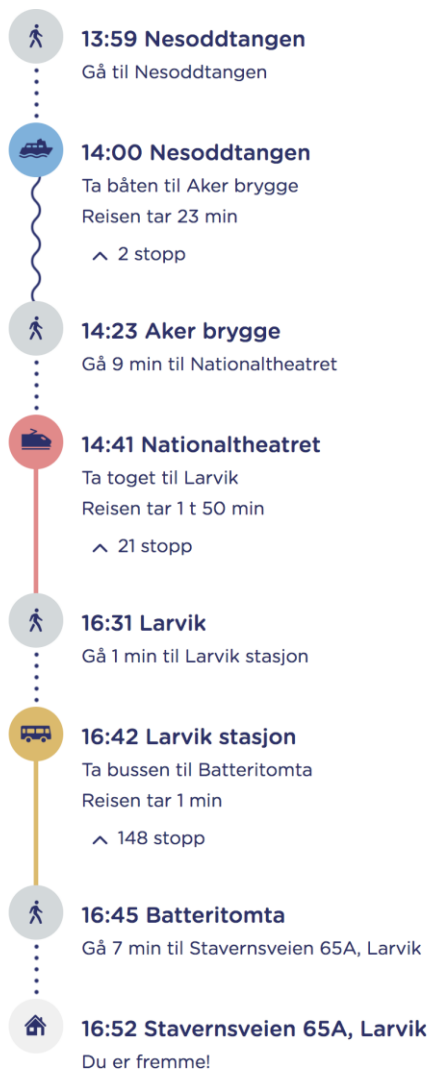No ticketing

Dit
Started by NRP
Focus on backend
No ticketing

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Started by Entur
In prototyping
Merging Tidr and Dit and adding
sales and ticketing

13:59 Nesoddtangen
Gå til Nesoddtangen

14:00 Nesoddtangen
Ta båten til Aker brygge
Reisen tar 23 min
⌃ 2 stopp

14:23 Aker brygge
Gå 9 min til Nationaltheatret

14:41 Nationaltheatret
Ta toget til Larvik
Reisen tar 1 t 50 min
⌃ 21 stopp

16:31 Larvik
Gå 1 min til Larvik stasjon

16:42 Larvik stasjon
Ta bussen til Batteritomta
Reisen tar 1 min
⌃ 148 stopp

16:45 Batteritomta
Gå 7 min til Stavernsveien 65A, Larvik

16:52 Stavernsveien 65A, Larvik
Du er fremme!

- Demanding country for public transport
  - Islands, fjords and mountains
- Many are dependent on they're car

- Focus on real time
  - Reducing waiting time and enhancing information
- Commuter parking
  - Information about available space
  - Buying parking tickets
  - Discounts with season tickets

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Questions?
Thank you!

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