



# Norwegian national database for fine scale emissions

Development and structure

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# Purpose



National system that compiles fine scale emissions  
for use in **dispersion models**

Entire  
Norway

Database  
with API +  
front-end

High  
temporal  
resolution  
(hourly)

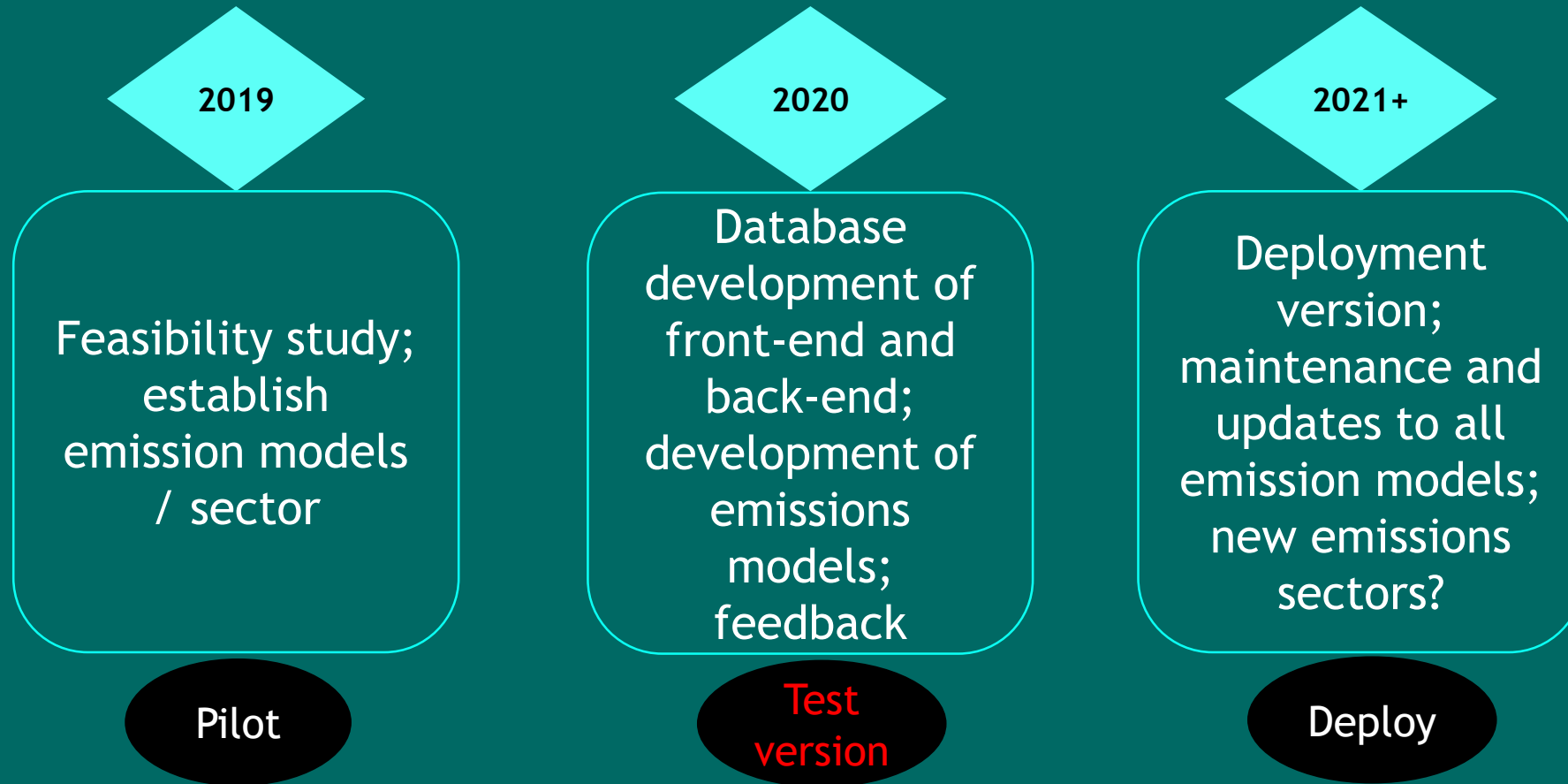
High spatial  
resolution (points,  
lines, polygons,  
250m grids)

Industry  
Wood burning  
Shipping  
Road exhaust  
Road dust  
Aviation  
Construction

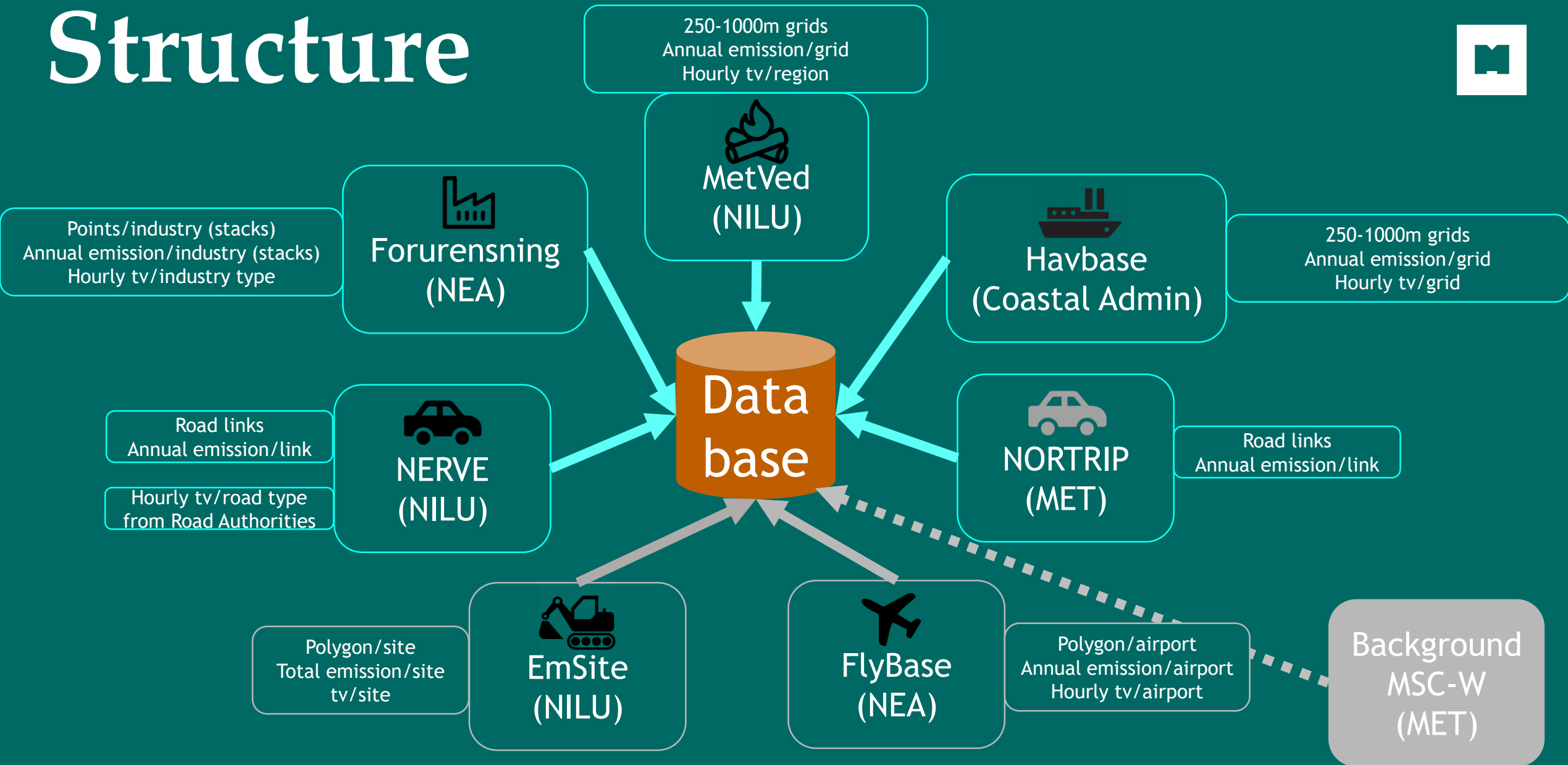
uEMEP and local  
scale models

NO<sub>x</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>  
+ GHGs

# Development



# Structure



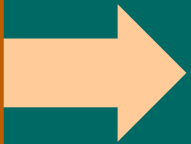
Based on independent fine scale emission models (bottom-up)

# Data access



API  
(REST  
service)

Data  
base



**Nedlasting av data:**  
Når jobben er bestilt kan det ta noen minutter før du mottar epost med nedlastingslenke

**Epost:**

**Utslippssektorer:**  
Kryss av for de utslippssektorer du ønsker data fra. Dekningskartlag skrur seg på/av ut fra om sektoren er valgt/ikke valgt.

- Industri
- Vedfyring
- Vegtrafikk (Kun tidsvariasjoner)
- Vegstøv (Under utvikling)

**Format:**

- Shape
- File geodatabase (FGDB)
- Excel

**Geografisk avgrensning:**  
Velg metode for å definere område.

- Egendefinert område
- Kommune
- Radius

**Jeg vil...**

**TRONDHEIM**

**Industri**  
●

**Vegstøv**  
—

**Vedfyring husholdning 250m ruter**  
■

**Vedfyring hytte 1000m ruter**  
■

Emissions data + hourly time variations + meta-data (activity)

Miljødirektoratet.no

# Summary



- Lessons learned:
  - Ensuring ownership over sectors and development process
  - Emission model development dynamic process, contracts and budget must reflect
  - Data and model property rights
- Future:
  - Emission projections? 2025? 2030?
  - New emissions sectors? Agriculture? Recreational boats?

*Thank you for your attention!*

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