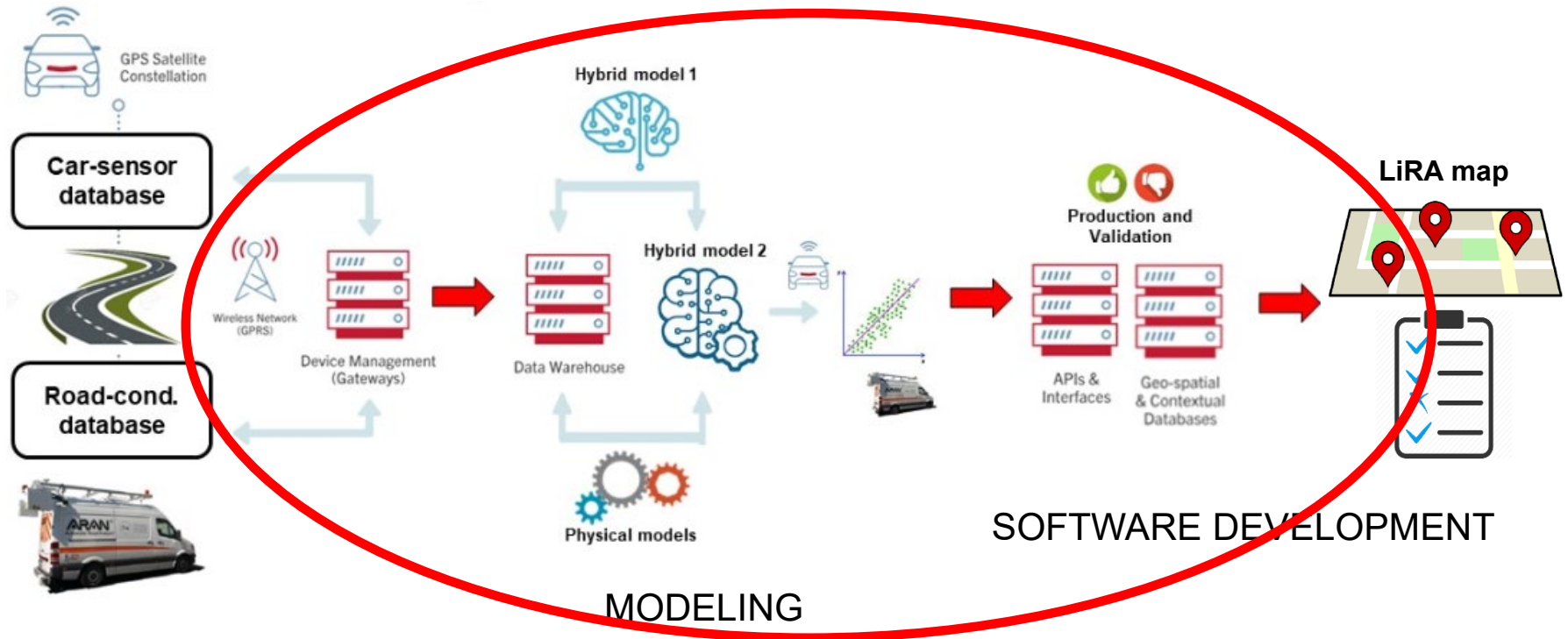




## Overview



## Integration, unification of LiRA Warehouse and LiRA Map into a more flexible framework

- Defining new data types
- Defining data processing pipelines
- Deal with “historic” data
- ...

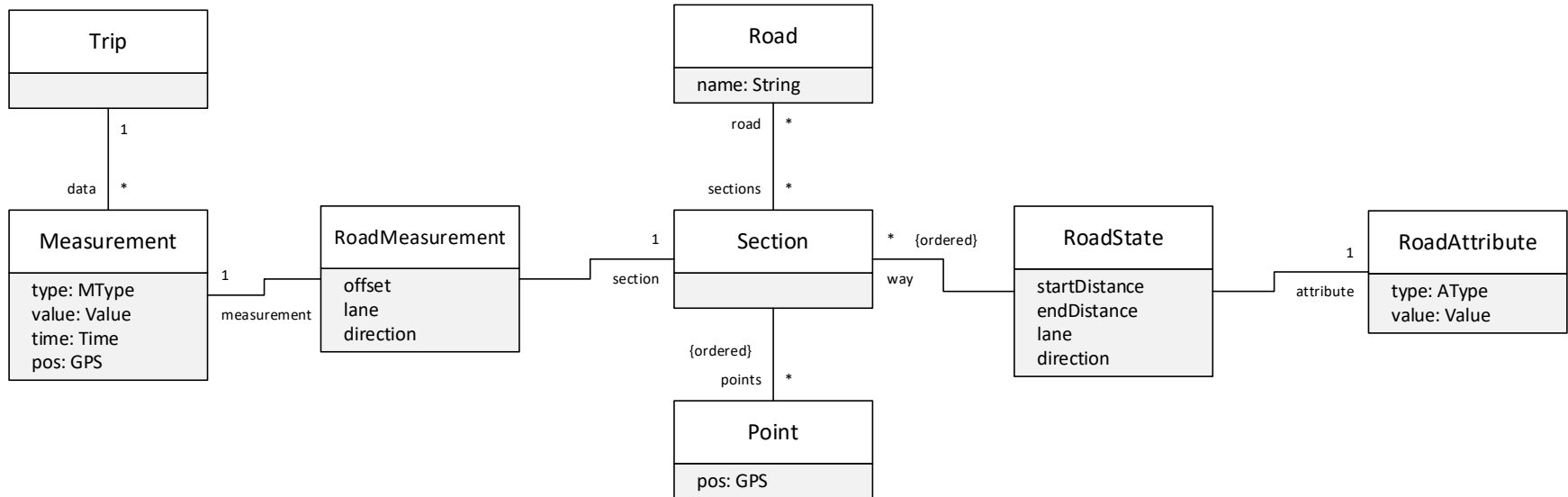
## User management

- User authentication
- Defining and assigning roles
- Access rights
- ...

## User interface (web frontend) for LIRA Warehouse

- Inspecting available data (on map on in other forms)
- Definition of new data collected from cars or road condition data (without changing the software)
- Manual import and export of data
- Definition of new data sources and processing pipelines (including data cleaning and pre-processing, and machine learning of road conditions)
- Visualize development of road conditions

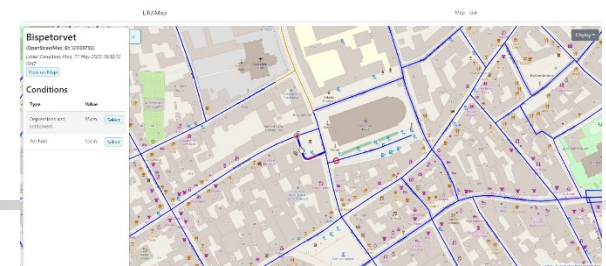
This can be achieved by unifying car data and condition data and existing LiRA Map



Data Collection

Machine Learning

LiRA Map



## Support road maintenance planning processes

- Plan maintenance measures
- Visualize and keep track of problems (bad road conditions)
- Prediction and estimates

.. or features that eventually could help with implementing such features

- Extensible microservice architecture
- Unified and extensible data model for car data and condition data