

Asphalt wearing course service life model

Link to BeProAct Sensors in
Asphalt

Design surface characteristics
Realised asphalt characteristics at
hand-over
Annual performance during
operation
Weather and traffic data

Describe
phenomena

Make input data FAIR

- Findable
- Accessible
- Interoperable
- Reusable

Understand
phenomena

Expert knowledge
Enriched by
analysing data
resulting in new
correlations

lifetime
asphalt

Measure
phenomena

Optimize
phenomena

Predict
phenomena

The ultimate dream
...

Pavement service life model :

- Design & hand-over: Predict service life based on delta model (or any other currently used expert model)
- Operation: Predict residual service life based on performance trends
- Calibrate these prediction models

Current TNO approach
based on top-layer
pavement service life
model, using Bayesian
inference, focussing on
ravelling and skid
resistance

Actions for BeProAct

- Together: Assess applicability of existing LAM approach to other countries and other degradation mechanisms
- Other countries: provide FAIR input data
- Together: Apply these models in other countries by using new data