

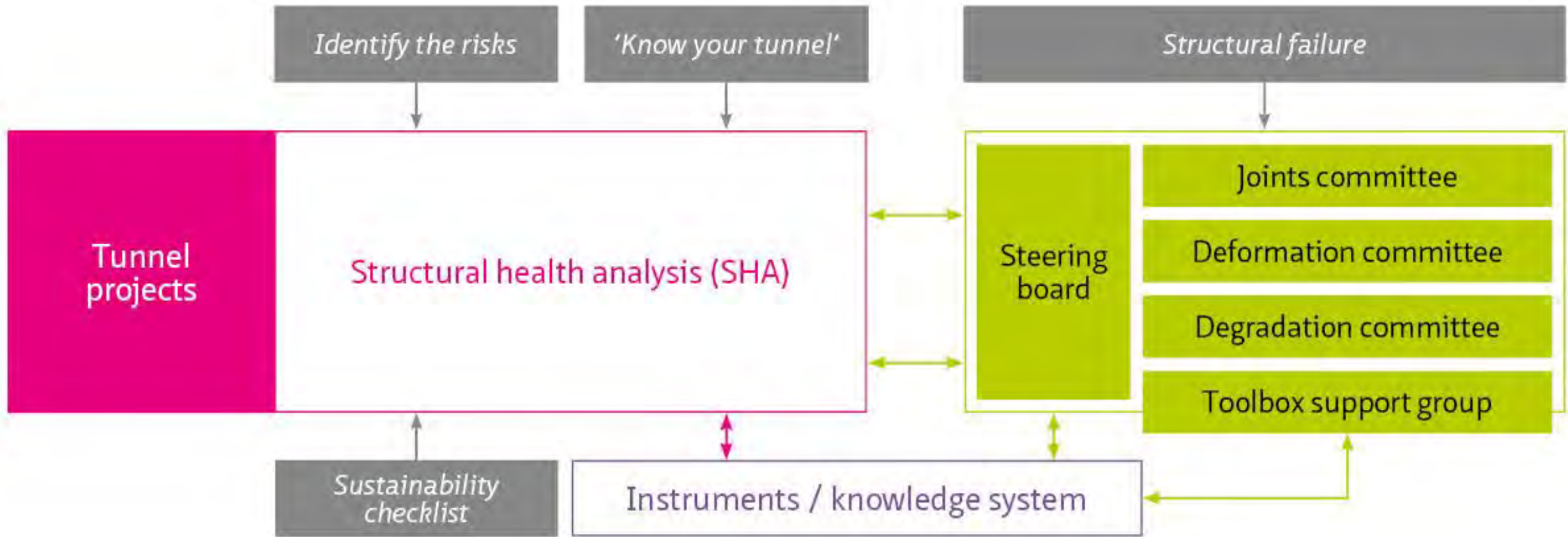


# Welcome at this demonstration!

November 11th, 2020

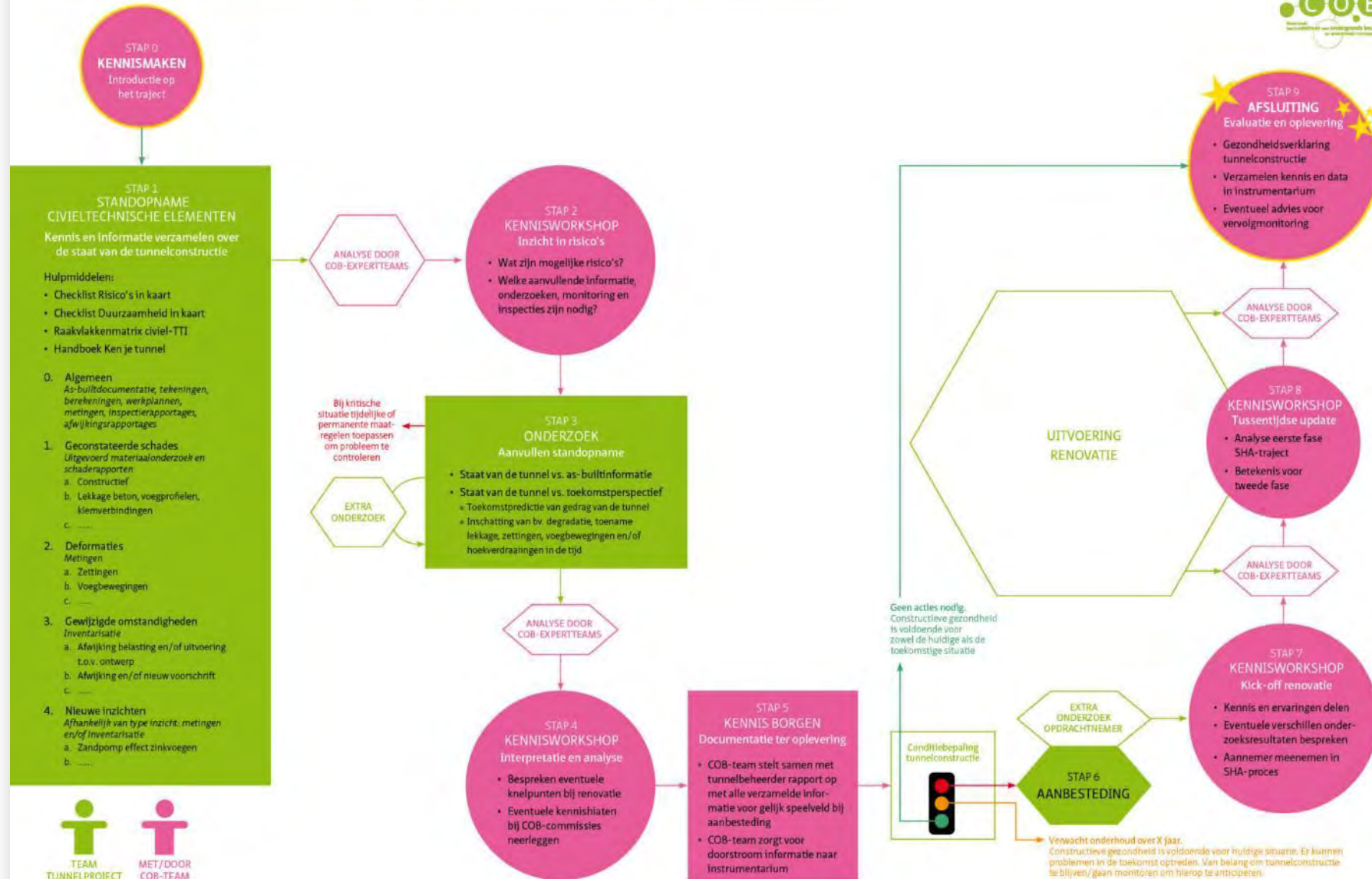


# Predictive maintenance and knowing the actual residual life of tunnels

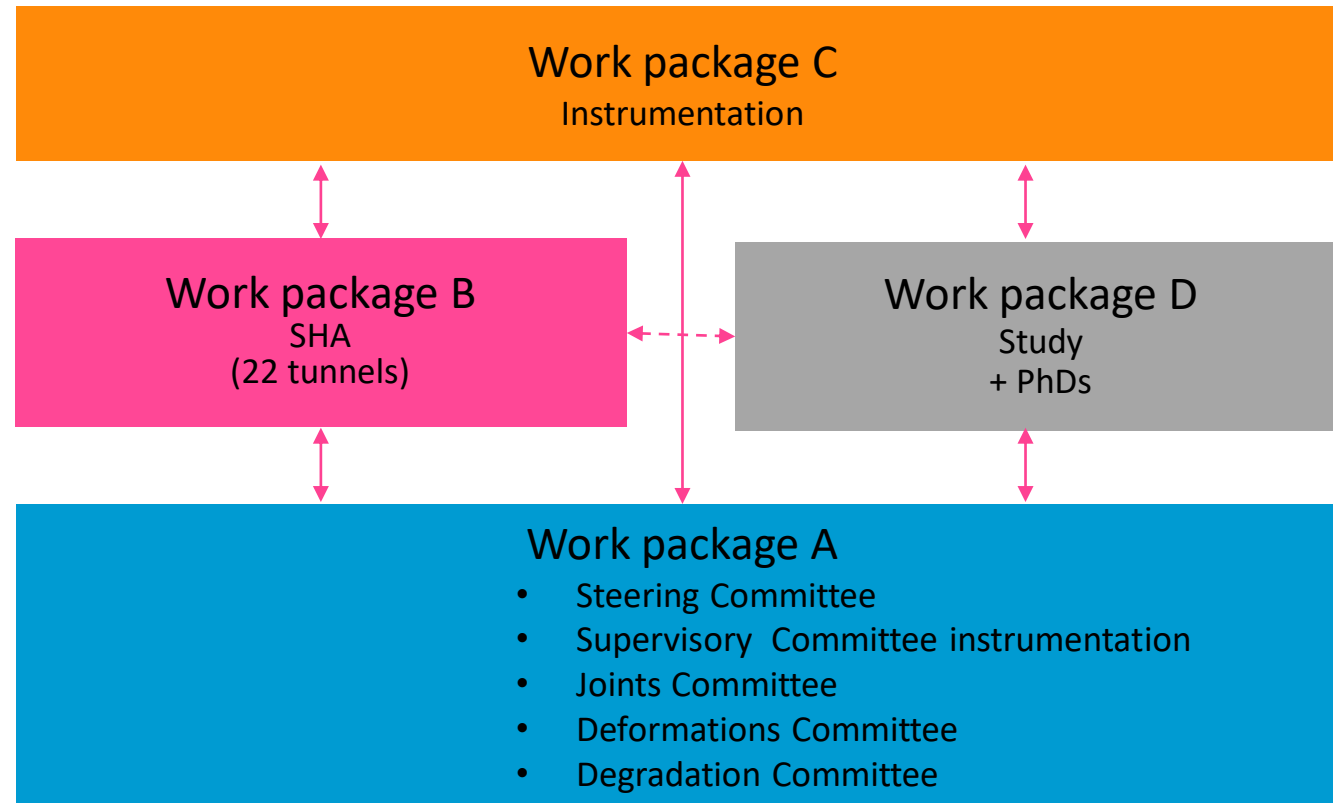


# Stappenplan structural health analyse [www.cob.nl/sha](http://www.cob.nl/sha)

29 MEI 2020



# Work packages

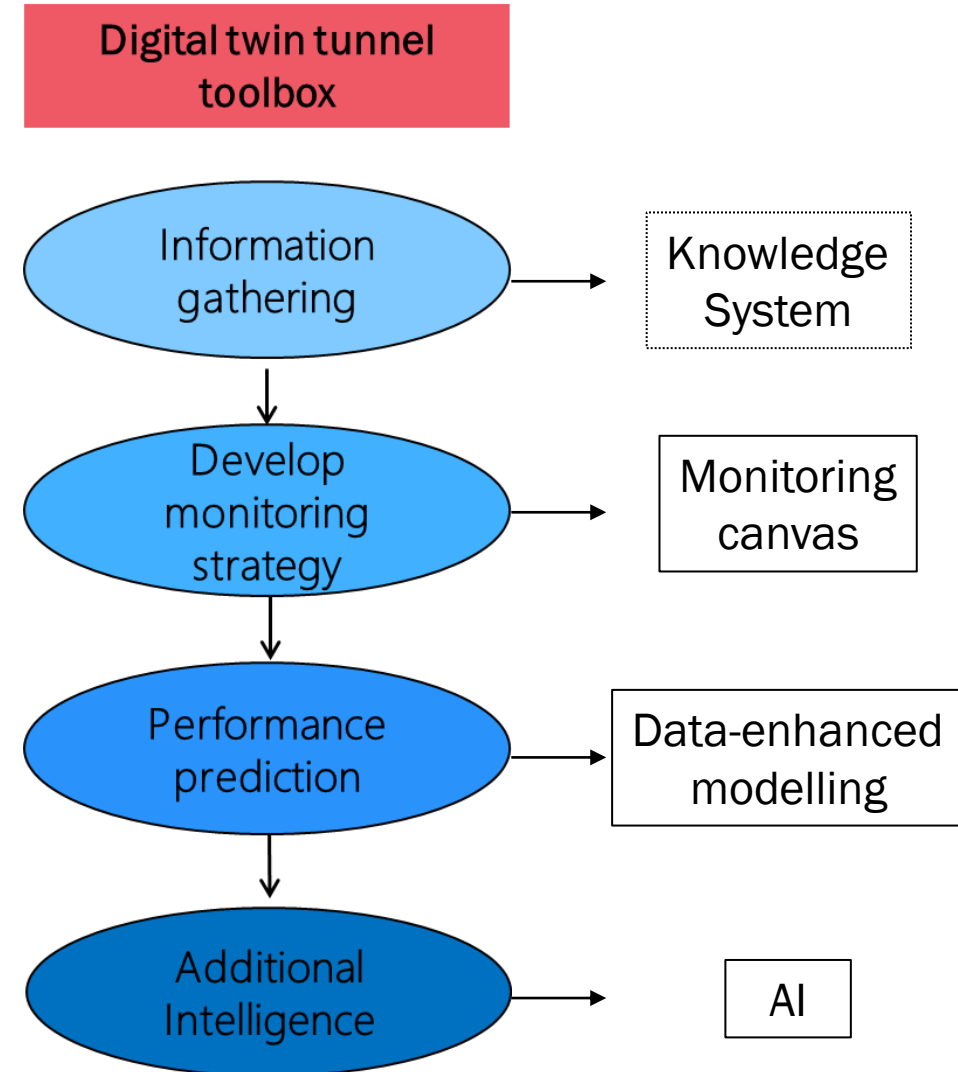


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# › APPROACH WORK PACKAGE INSTRUMENTS

- › Knowledge development to fill the gaps
- › Focus on; *When to renovate which tunnel to what extent?*
- › Embedded in the COB civil tunnel programme
  - Practical and implementation-oriented
  - Easy access to information, data, people, etc.
- › A 'digital twin' toolbox
- › 3-year program, now results after 4 months;
  - Technical feasibility of three tools
  - Inventory of possibilities AI



# Today

9.15-9.40	Knowledge retainment system <i>Esra Bektas, TNO</i>
9.40-10.05	Data enhanced modelling <i>Diego Allaix, TNO</i>
10.05-10.15	Break
10.15-10.40	Intake template <i>Hendrik van Meerveld, TNO</i>
10.40-11.05	Artificial intelligence <i>Joost Breedeveld en Jonathan Nuttall, Deltares</i>
11.05-11-15	Wrap-up

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