

Discussion (topics) on “non-destructive testing (sensors)”, led by Jeroen Langeveld (TUD)

Ideally, sensor data will provide necessary information to allow the predictive models to predict reliably the service life of sewers as such. To develop from a reactive to a proactive asset management, information is needed on at least all parameters discussed in the predictive modelling group.

A lot of development takes place in the development of cheap sensors to measure the conditions in the sewer (water phase, air phase, biofilm, sediment bed), although still often reusing existing techniques and not as much reasoning from the information needs for sewer asset management.

The difficulty is in the required spatial data density: as the sewer system is as strong as the weakest link, failure of individual objects is necessary to track, ideally before the cause negative impacts.