

Example of the benefits of additional investment in condition assessment

Over recent months, approximately 6km of stormwater pipes have been CCTV surveyed and assigned a 1 to 5 condition grade, where Grade 1 is very good condition and Grade 5 is very poor condition. Figure 1a shows the CCTV survey condition grade results based on pipe length.

Figure 1b shows the condition grades for the same pipes using a theoretical (age-based) model.

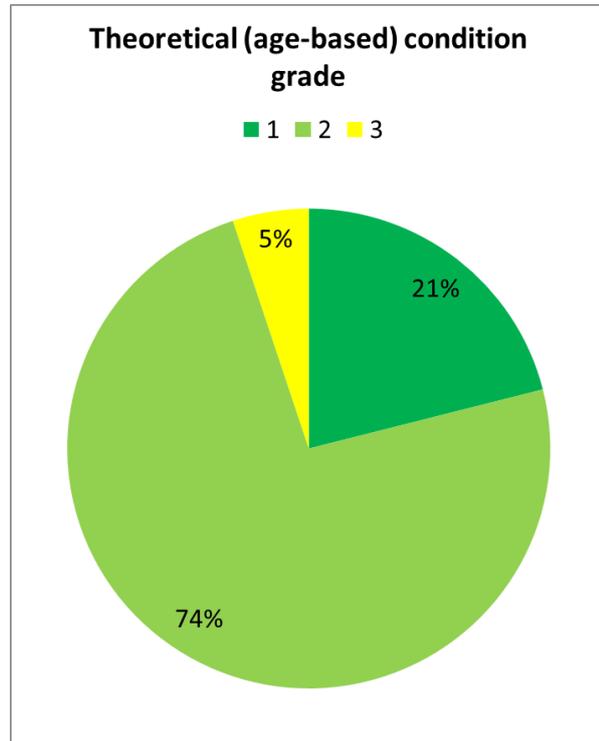
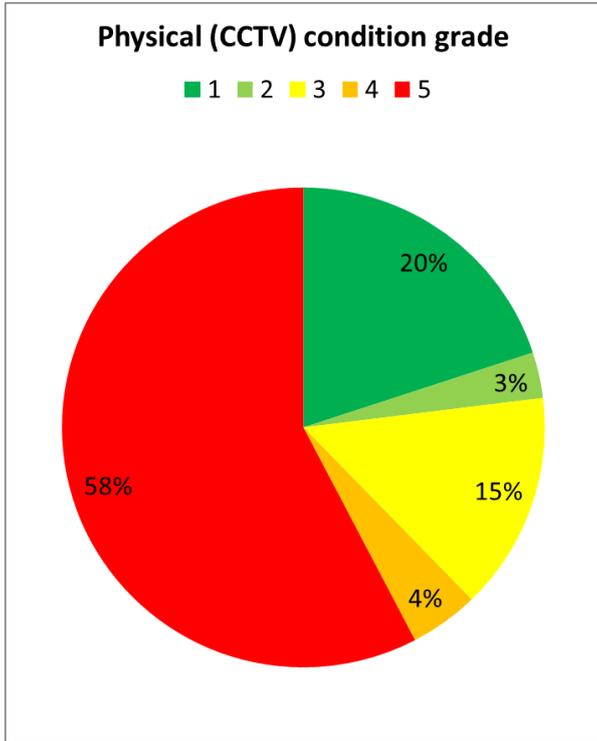


Figure 1a: CCTV condition grades

Figure 1b: Age-based condition grades

For the assets included in this sample, the theoretical model indicates that the pipe condition is better than it actually is. One of the impacts of this may be that the right level of funding is not made available at the right time.

Figure 2 shows the estimated renewal year for the sample pipes using the two condition assessment methods and demonstrates the potential for significant under-funding when age-based condition data is used, particularly in the short term.

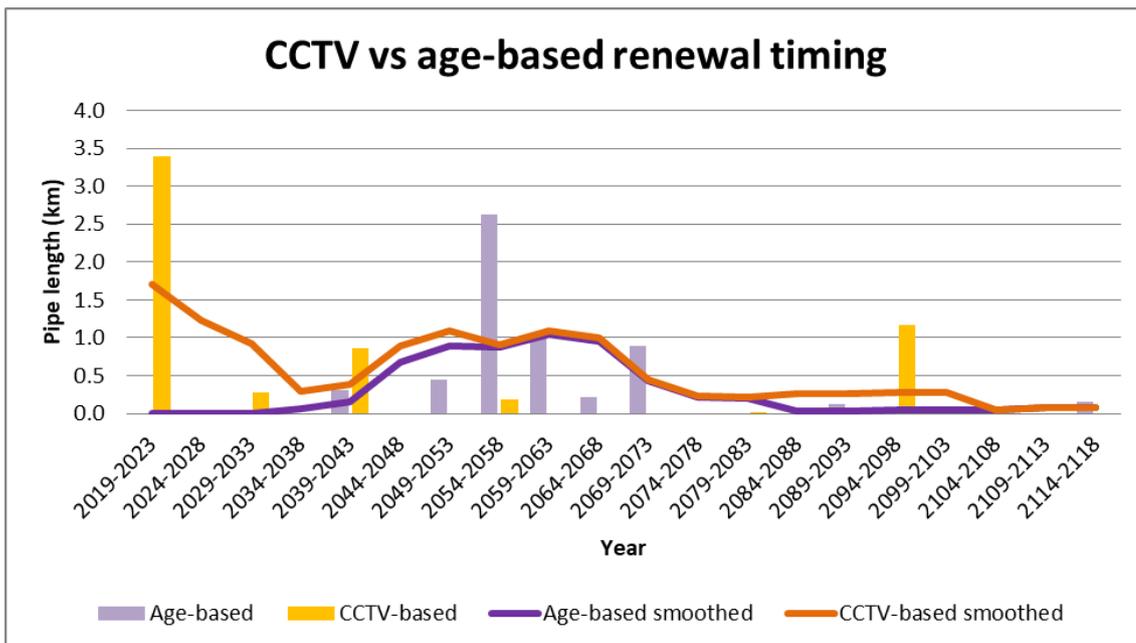


Figure 2: CCTV vs age-based renewal timing