Specifications of contents in attached excels (Tables S1-S5)

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| Names of attached Excels | Names of sheets in the Excel |
| Table S1 for Phase 1\_News Collection & Cleansing | * Corpus collection * Corpus cleansed |
| Table S2 for Phase 2 Domain Knowledge Components (5 lists of index words) | * Portable water * Saltwater * Road and streets * Buildings (Hong Kong Island & Kowloon) * Buildings (New Territories) * Wastewater & storm water * Electricity * Gas * Telecommunications * Slope protectors * Lifts and escalators * Waste & environment * Hospitals and clinics * Emergency service * Entertainment * Social service * Business stores * Schools * Transit |
| Table S3 for Phase 2\_Domain Knowledge Components (Hong Kong Dictionary of City Infrastructure) | * Potentially affected infrastructures * Synonyms of potentially affected infrastructures * Infrastructure damages * Potentially affected stakeholders * Synonyms of potentially affected infrastructures |
| Table S4 for Phase 3&4\_Recognized Infrastructure/Stakeholder Entities & Verification | * Identified affected infrastructures in 1028 water pipe bursts * Identified affected stakeholders in 1028 water pipe bursts * Summary of verification * Manual results (infrastructures) of 100 samples * Automatic results (infrastructures) of 100 samples * Manual results (Stakeholder) of 100 samples * Automatic results (Stakeholder) of 100 samples |
| Table S5 for Phase 5&6\_Results of IFI rules & Associated Stakeholders | * 15099 potential infrastructure failure association (IFI) rules * 25 Stakeholders’ co-occurrence matrix * Evolution of IFI chains |

Note: Due to these sheets are too large, the specific contents have been anonymously uploaded to GitHub open to all researcher, the URL is “”.