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

Names of attached Excels	Names of sheets in the Excel
Table S1 for Phase 1_News	• Corpus collection
Collection & Cleansing	Corpus cleansed
Table S2 for Phase 2 Domain	Portable water
Knowledge Components (5	• Saltwater
lists of index words)	 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
	SchoolsTransit
	Transit
Table S3 for Phase 2_Domain	 Potentially affected infrastructures
Knowledge Components	 Synonyms of potentially affected infrastructures
(Hong Kong Dictionary of	Infrastructure damages
City Infrastructure)	 Potentially affected stakeholders
	 Synonyms of potentially affected infrastructures
Table S4 for Phase	• Identified affected infrastructures in 1028 water pipe bursts
3&4_Recognized	• Identified affected stakeholders in 1028 water pipe bursts
Infrastructure/Stakeholder Entities & Verification	• 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	• 15099 potential infrastructure failure association (IFI) rules
5&6_Results of IFI rules &	• 25 Stakeholders' co-occurrence matrix
Associated Stakeholders	 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 "https://github.com/0AnonymousSite0/Delineating-Infrastructure-Failure-Interdependencies-and-Associated-Stakeholders-through-Mining-News".