ABSTRACT OF THE DISCLOSURE

An support system for designing a pipeline replacement plan includes a storage device storing cost calculation information including pipe attribute information and an processor for calculating replacement introduction cost required for replacing water distribution pipes and maintenance cost of water distribution pipes caused by water leakage in the water distribution pipes based on information for cost calculation, calculating a life-cycle cost of the water distribution pipes using the calculated replacement introduction cost and maintenance cost, calculating an optimal replacement timing of the water distribution pipes that minimizes the calculated life-cycle cost, and displaying on an output device the calculated replacement introduction cost, maintenance cost, life-cycle cost and the optimal replacement timing for the water distribution pipes.

FIG. 1