

the authors put forward a set of theories and methods about establishing a comprehensive underground pipeline information system of large cities in China. In their implement schema, three elements including data source, standard quality check and real-time data updating are emphasized. A system model, as the authors will discuss, has been well practiced in establishing a comprehensive pipe and cable information system with Spatial Decision Support function and comprehensive analysis capability supported by Expert System.

This system is established by combining overall surveying and mapping with supervision and database building, combining overall general survey with completion survey and combining planning approval with current information. This model has been proved to be suitable for developing comprehensive urban underground pipeline information system in large cities of developing countries where there are incomplete and imprecise pipeline data.

**Key words:** Urban underground pipeline General survey of buried pipes and cables Dynamic management GIS Integration

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(傅肃性)