

博士论坛

## GIS项目管理框架探讨

孔云峰

河南大学 环境与规划学院

收稿日期 2005-8-12 修回日期 网络版发布日期 接受日期

**摘要** 不少学者注重从软件工程的角研究GIS开发与实施,但作者认为,也应当引入项目管理补充软件工程,指导GIS开发、实施与应用。本文辨析了工程与项目内涵,在此基础上提出了GIS应用从软件工程向项目管理的思维转换,并依据项目管理要求和GIS开发方法特点,提出了一个初步的GIS项目管理框架,涉及项目生命周期、项目目标管理、应用开发方法、项目管理功能和项目环境因素。作者期望能够根据本框架,将目前GIS开发和管理方面的理论和方法综合起来,丰富GIS开发和管理知识,对其它信息系统项目管理也具有借鉴作用。

**关键词** [GIS](#)、[项目管理](#)、[管理框架](#)

分类号

## Preliminary analysis of the management framework for GIS project

河南大学 环境与规划学院

### Abstract

Based on the discussion of GIS software engineering, project management and application trend in China, the author introduces a management framework for GIS planning and implementation. The framework comprises five interrelated components: project lifecycle, project objectives, application development method, management functions and project environment. The lifecycle of GIS project consists of project initiation, planning, implementation and close up. Activities related to project scope, time, cost, quality, resource, risk, communication and purchase are performed in every stage of the project development. For GIS application, the methodology of system analysis, design, prototype and implementation should be incorporated with project lifecycle and management objectives. The key functions of project management are to organize, plan, implement and control these activities to achieve project objectives. It is also important to understand the critical factors related to application development, such as people, organizational and institutional issues. It is expected to reorganize current theories and methodologies of GIS development and management into a single and comprehensive guide according to this framework.

**Key words** [GIS](#) [project management](#),[management framework](#)

DOI:

通讯作者 孔云峰 [yfkong@henu.edu.cn](mailto:yfkong@henu.edu.cn)

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