

# New developments in project management and engineering

Autor(en): **Knöpfel, Hans**

Objektyp: **Article**

Zeitschrift: **IABSE journal = Journal AIPC = IVBH Journal**

Band (Jahr): **9 (1985)**

Heft J-29: **New developments in project management and engineering**

PDF erstellt am: **08.08.2024**

Persistenter Link: <https://doi.org/10.5169/seals-28289>

## **Nutzungsbedingungen**

Die ETH-Bibliothek ist Anbieterin der digitalisierten Zeitschriften. Sie besitzt keine Urheberrechte an den Inhalten der Zeitschriften. Die Rechte liegen in der Regel bei den Herausgebern.

Die auf der Plattform e-periodica veröffentlichten Dokumente stehen für nicht-kommerzielle Zwecke in Lehre und Forschung sowie für die private Nutzung frei zur Verfügung. Einzelne Dateien oder Ausdrucke aus diesem Angebot können zusammen mit diesen Nutzungsbedingungen und den korrekten Herkunftsbezeichnungen weitergegeben werden.

Das Veröffentlichen von Bildern in Print- und Online-Publikationen ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. Die systematische Speicherung von Teilen des elektronischen Angebots auf anderen Servern bedarf ebenfalls des schriftlichen Einverständnisses der Rechteinhaber.

## **Haftungsausschluss**

Alle Angaben erfolgen ohne Gewähr für Vollständigkeit oder Richtigkeit. Es wird keine Haftung übernommen für Schäden durch die Verwendung von Informationen aus diesem Online-Angebot oder durch das Fehlen von Informationen. Dies gilt auch für Inhalte Dritter, die über dieses Angebot zugänglich sind.

## New Developments in Project Management and Engineering

Développements dans la gestion du projet et de la construction

Neue Entwicklungen im Projekt- und Baumanagement

The owner or client in charge of a project is interested in getting the best **overall result**. This is not a simple task to-day with all the factors that should be taken into account and the many disciplines and relationships involved in a construction project. Nevertheless, the civil engineer should be willing and in a position to take on the overall responsibility for his constructed facilities using all the necessary expertise from different disciplines.

**Project management** is the way to manage as an entire task projects that are limited in scope and time. Complex situations can be simplified and better controlled by defining projects and by managing them professionally. A project directive with the essential specific management information about the whole project in a short document and a project handbook containing more extensive and general working guidelines help to create and to maintain a common policy.

Large projects involve large risks and benefits. However, project management is applicable to a much wider **range of projects**. There are many medium- and small-scale construction projects, and even in a large project, there are many subprojects. Indeed, each consultant, contractor, supplier, and subcontractor manages a project of his own.

The problems of project management are to define and to achieve the project objectives, to know the actual status at all times, and to know the ways and means to achieve the next intermediate targets. This means maintaining the control in the following theoretically known **areas** during all phases of the project cycle:

- project scope and objective: operations in the constructed facility, with best possible long-range cost-benefit ratio.
- technical concept: configuration, layout, dimensions and quality of the facility and all subsystems and components
- project organization: positions, work tasks, responsibility, motivation, procedures, communication
- time schedules: resource usage, durations and work sequences on several levels and in all disciplines
- cost accounts and financing: project costs, life-cycle costs and benefits, expenditure and sources of funds
- environment: physical, economic, legal and socio-psychological conditions and their development

The technical system can be considered as the basic reference system for all these areas of control. With this **Special Issue** of the IABSE Journal, we want to draw your attention to some needs, problems and opportunities both at present and in the future of project management and engineering.

Dr. Hans Knöpfel  
Technical Adviser  
Working Commission IV  
Construction Management

Leere Seite  
Blank page  
Page vide