Chapter 12
Project Maturity Analysis in Civil Construction

ABSTRACT

This chapter applies a macroview of civil construction, punctuating its particularities and challenges for the implementation of projects in the country. The objective of this analysis is to provide sufficient elements to compose a panorama of the civil construction sector in the country, highlighting points in common with organizations related to the theme in the world, allowing establishing justifications for the result found in the maturity research contained in this work.

PROBLEMATIZATION

Currently, construction is responsible for a significant portion of the country’s gross domestic product (GDO). In addition to being an important indicator of a country’s development, civil construction today is impacted by political crises and the downturn in the economy, caused by any of the factors of demotivation in investment.

In addition to the challenges caused by the slowdown in investments in structuring projects, the sector faces challenges such as the productivity of its processes, the rational use of its resources and the adaptation to environmental management policies, increasingly recognized for their rigor and strong engagement of society.

DOI: 10.4018/978-1-5225-5864-4.ch012
The waste minimization, oil crises, and energy efficiency are issues that directly impact the way projects are managed in the industry. Requiring from the organizations involved a knowledge that, historically, was only found in the sectors responsible for each of these issues, it now requires a holistic view of the enterprise, permeating the technical issues, important for the good progress of the project, but also areas such as sustainability and social responsibility.

In this context, then, it is based the central question of this proposed maturity evaluation through which one intends to investigate: **What is the level of maturity in project management in a construction company in Minas Gerais?**

As a complementary question, based on the research carried out in this company, will be evaluated the impacts generated by the maturity obtained in the network of stakeholders of the evaluated company. How does this interfere in the chain of sponsorship and trust of employees and investors?

In the next section, it is reported a profile of the civil construction sector in the State of Minas Gerais, Brazil.

### THE CIVIL CONSTRUCTION SECTOR

According to CBIC (2017), Brazil experienced a lower investment for construction in the current period, with less construction in progress due to the decrease of GDP.

For the organizations and nations that want to be recognized for the legacy of infrastructure left for future generations, it is imperative to consider issues that go beyond constructability, pointing to concerns expressed in the VIP (value improvement practices) that address a better use of natural resources, but also the increase excellence in the execution of the sector’s.

The way of delimiting the business requirements that are relevant to the sector, it can be considered a major responsible for the maturity in the construction industry:

- Capability of investment planning based on market growth;
- The allocation of resources for the provision of infrastructure projects;
- The importance of investment in renewable raw materials;
- The level of compliance with public and market policies;
9 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the product's webpage:

www.igi-global.com/chapter/project-maturity-analysis-in-civil-construction/212399?camid=4v1

This title is available in Advances in Civil and Industrial Engineering, InfoSci-Books, Communications, Social Science, and Healthcare, InfoSci-Science and Engineering, Science, Engineering, and Information Technology, InfoSci-Social Sciences and Humanities, InfoSci-Select, InfoSci-Select. Recommend this product to your librarian:

www.igi-global.com/e-resources/library-recommendation/?id=76

Related Content


www.igi-global.com/chapter/eccentricity-instability/188001?camid=4v1a


www.igi-global.com/chapter/theory-of-self-excited-coupled-mode-vibration-of-tainter-gates/188003?camid=4v1a

Determination of the Cyclic Properties of Silty Sands

www.igi-global.com/chapter/determination-of-the-cyclic-properties-of-silty-sands/186119?camid=4v1a
Intelligent Transportation Systems: The State of the Art in Railways
www.igi-global.com/chapter/intelligent-transportation-systems/154424?camid=4v1a