

ON COGNITIVE READINESS IN CONSTRUCTION DECISION MAKING

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Introduction. Cognitive readiness (CR) in construction is the mental, emotional and interpersonal skills that relate to the way project teams perceive, remember, think, speak and solve problems. CR compliments the necessary technical and contextual competences, and is necessary for making appropriate decisions in real-world problems. The investigation of cognitive enablers and barriers as well as their prioritization, adaptation and implementation in construction projects is the subject of the work described here.

Materials and methods. Based on the cognitive model of accumulation of knowledge in project management competences, the study is focused on project teams' performance metrics, relating mainly to scope, time, cost and benefits realization.

Results and discussion. The models developed simulate resulting cognitive accumulation of knowledge, competence and learning in construction project teams. Methods are also proposed for assessing, improving and monitoring individual and team cognitive readiness.

Conclusion. Project teams may develop fast during project realization provided that the suitable interaction environment is fostered. It is the responsibility of management to allow for such an environment to develop by monitoring closely individual and group behavior and progression.

References.

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**Knowledge &
Expertise**

Cognitive

**Cognitive
Capability**

Figure 1. Constituents of Cognitive Readiness