



Case Studies in research

Choosing the right business process maturity model

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ABSTRACT

We have built and tested a decision tool which will help organisations properly select one business process maturity model (BPMM) over another. This prototype consists of a novel questionnaire with decision criteria for BPMM selection, linked to a unique data set of 69 BPMMs. Fourteen criteria (questions) were elicited from an international Delphi study, and weighed by the analytical hierarchy process. Case studies have shown (non-)profit and academic applications. Our purpose was to describe criteria that enable an informed BPMM choice (conform to decision-making theories, rather than *ad hoc*). Moreover, we propose a design process for building BPMM decision tools.

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1. Introduction

Business processes describe how organisations operate, and therefore impact on how organisations perform. Due to higher performance challenges and IT opportunities [36], business process maturity models (BPMMs) have increased in significance to help organisations obtain mature (or excellent) business processes [9]. Since the 1970s, maturity models have been recognised as important improvement tools for organisations. Accordingly, dozens of BPMMs have been designed [26], like CMMI [107] or OMG-BPMM [90]. They are evolutionary tools to systematically assess and improve capabilities (*i.e.* skills or competences) in order to reach business (process) excellence [31]. For instance, a BPMM may assess how capable an organisation is in modelling its processes or in running them faultlessly.

The huge number of BPMMs raises questions about their substantial differences. Some comparative studies have been made, albeit with a small number of BPMMs [14]. To our knowledge, the BPMM literature is mainly restricted to a design perspective, by creating a theory to design BPMMs or by designing particular BPMMs, as in de Bruin and Rosemann [59]. Mettler [17]

presents design criteria for maturity models from both a developer's and user's perspective, although not specific to the BPMM context and without offering an overview of existing models. Röglinger et al. [23] propose design criteria for BPMMs, in particular. They present a limited BPMM overview to illustrate their criteria, but without practical advice on BPMM selection. Consequently, organisations and academics have no comprehensive overview of academic and industry-owned BPMMs and have an incomplete state of knowledge of how to select a BPMM that best fits their (organisational or research) needs. Therefore, the research question that this article hopes to address is: Which criteria help users (*i.e.* organisations or academics) choose a BPMM? This study is in line with recent research on information systems, which focuses more on users as consumers than on system development as such, *e.g.* [16].

Our objective is to advance knowledge on criteria that enable a well-advised BPMM choice (in accordance with decision-making theories, rather than on an *ad hoc* basis). The identification of the most relevant criteria should result in a practical decision tool to make an informed BPMM choice out of a large BPMM sample. The criteria are identified by addressing key questions and trade-offs faced by many organisations, consultants, and scholars, and are then used to design a decision tool to recommend the most appropriate BPMM (out of the numerous available models), depending on individual needs. Our research distinguishes from

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