





University of Applied Sciences

Enterprise Risk Management as Part of the Organizational Control Package: Review and Implications for Management Accounting Research

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In this review paper, we adopt a management control perspective on ERM (1/2)

Rise of interest in ERM and reviews of ERM research

- Financial crisis of 2008 and several corporate scandals have increased the interest in enterprise risk management (ERM)
- Several practitioner frameworks now available
- ERM research has grown swiftly
- Several reviews of ERM research published, including Bromiley et al. (2015), Crawford and Jabbour (2023), Gatzert and Martin (2015), Horvey and Odei-Mensah (2023), and McShane (2018)



... although ERM is an important part of the organizational control package and management accounting scholars having contributed several important insights to ERM research, no review has adopted a management control perspective on ERM.



In this review paper, we adopt a management control perspective on ERM (2/2)

Why a management control perspective?

ERM is an important device to steer employee behavior (and thus, a management control practice) Performance – a central focus of MACS¹ – and risk are "two sides of the same coin" (Van der Stede, 2011, p.616) Today, risk management is as an integral part of core competencies models for management accountants

Several unresolved issues in the management control literature on ERM

Research Question: How can complementary-inspired management accounting and control research enhance current evidence on ERM as part of the organizational control package?

We address this question by means of a systematic literature review and suggest several avenues for future research based on complementarity theory

Note: 1 MACS = management accounting and control systems



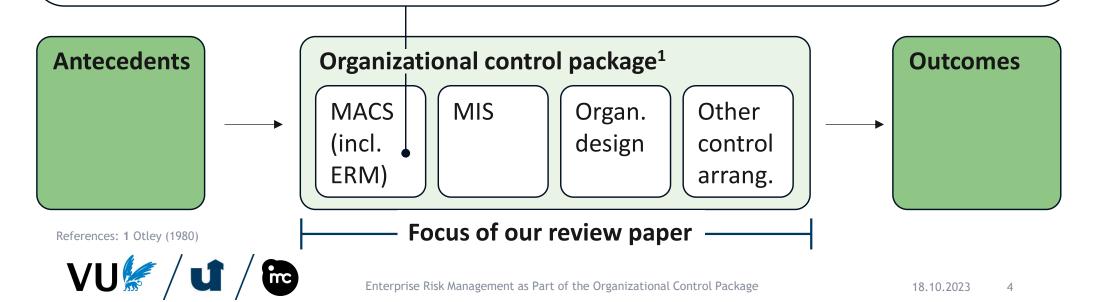
What is ERM and how can it be included in the organizational control package?

WorkingERM isdefinition of ERMfaced bin this paperprovidethe org

ERM is an approach of managing all risks and opportunities faced by an organization in an integrated, holistic way to provide reasonable assurance regarding the achievement of the organization's objectives.

ERM development umbrella term to refer to the adoption and further growth of ERM-related processes.

ERM components Building blocks of ERM development, including ERM practices



Review methods (1/2)

Review approach	 Systematic literature review¹ Data-base focused search approach to capture research from accounting <i>and</i> other fields²
Sample selection	 Searched five multi-publisher databases (last update in April 2022): EBSCO Business Source, Premier, JSTOR, Web of Science, Scopus, ABI Inform Global Initial search resulted in 2,891 search hits
	■ Removed duplicates, and only left research items in the preliminary sample that feature a grade of 3 or higher in the 2018 ABS ranking, or an A* ranking as of ABDC 2019 → 214 items left
	 All three authors judged 21 randomly selected articles for their fit; those articles were assigned an A (particularly relevant), B (potentially relevant), or C (not relevant, including non-empirical ERM papers)
	Discussed the classification, worked through the remaining 193

References: 1 Tranfield et al. (2003); 2 Hiebl (2023)



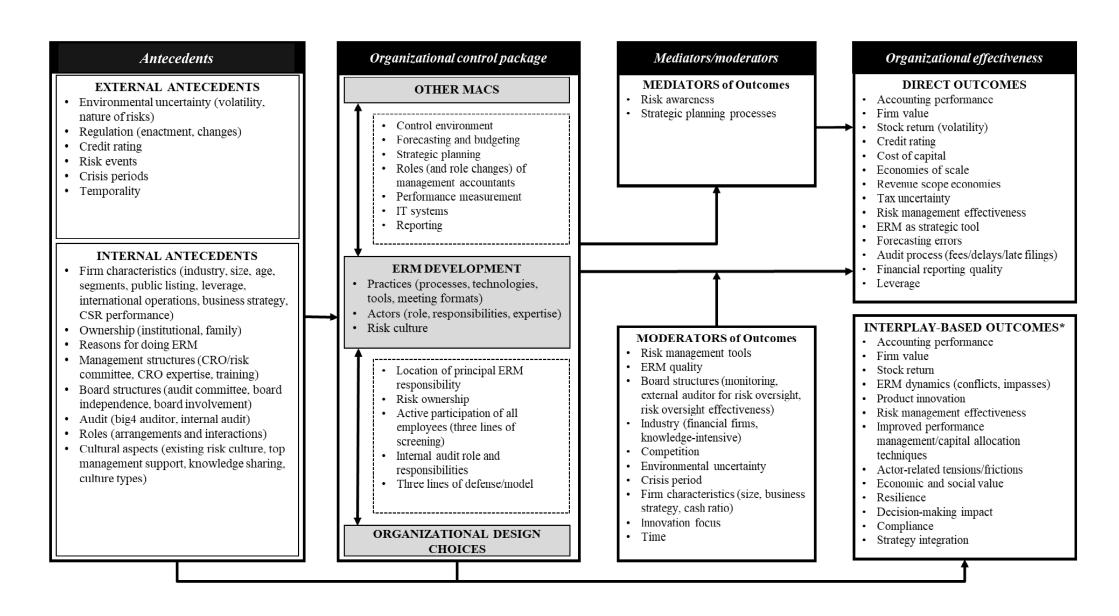
articles, and then jointly discussed the A and B papers \rightarrow 65 left

Review methods (2/2)

Sample validation	 An independent research assistant coded the 214 articles independently, but was given our working definition of ERM Only in three cases, his assessment of the papers differed from ours (1.4% of all items, Cohen's kappa of 0.95) → those were resolved
Snowballing	 We applied forward snowballing (via Google Scholar's "cited by" functionality) and backward snowballing (going through references) Added 4 articles to our sample → final sample of 69 papers
Analysis	 We extracted bibliographic information and classified the 69 articles into three categories: antecedent studies (49 studies), outcome studies (48), and ERM development studies (34)
	While we coded the "pure-play" antecedent and outcome studies, too, our analytical focus was on those studies that offered empirical insights into ERM as part of the organizational control package

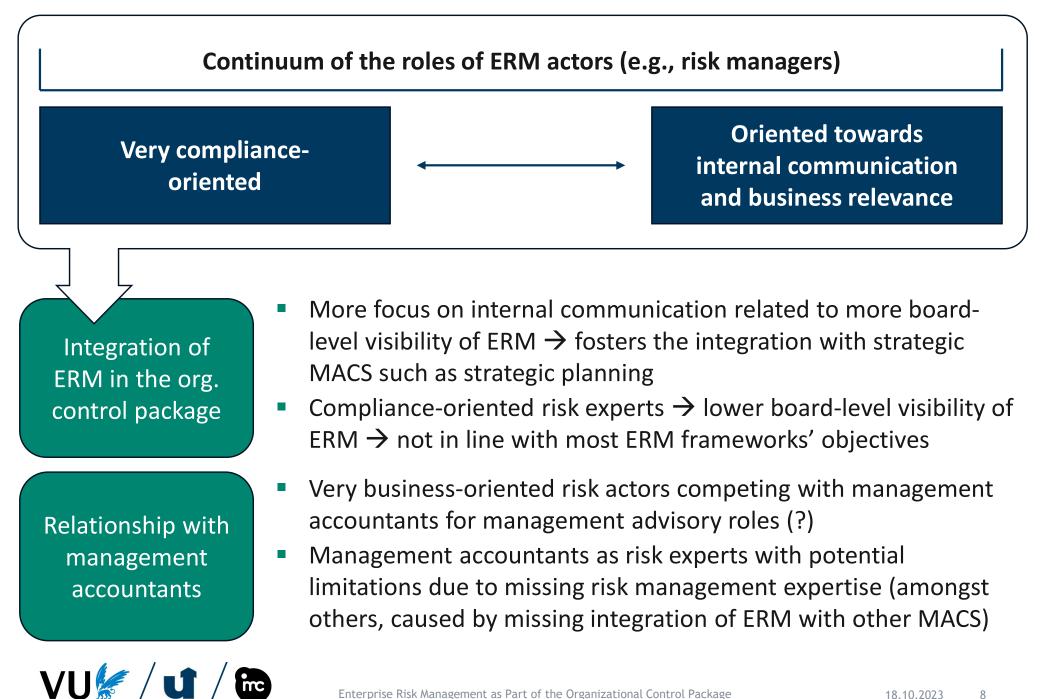


Review findings (1/4): Overview of ERM research

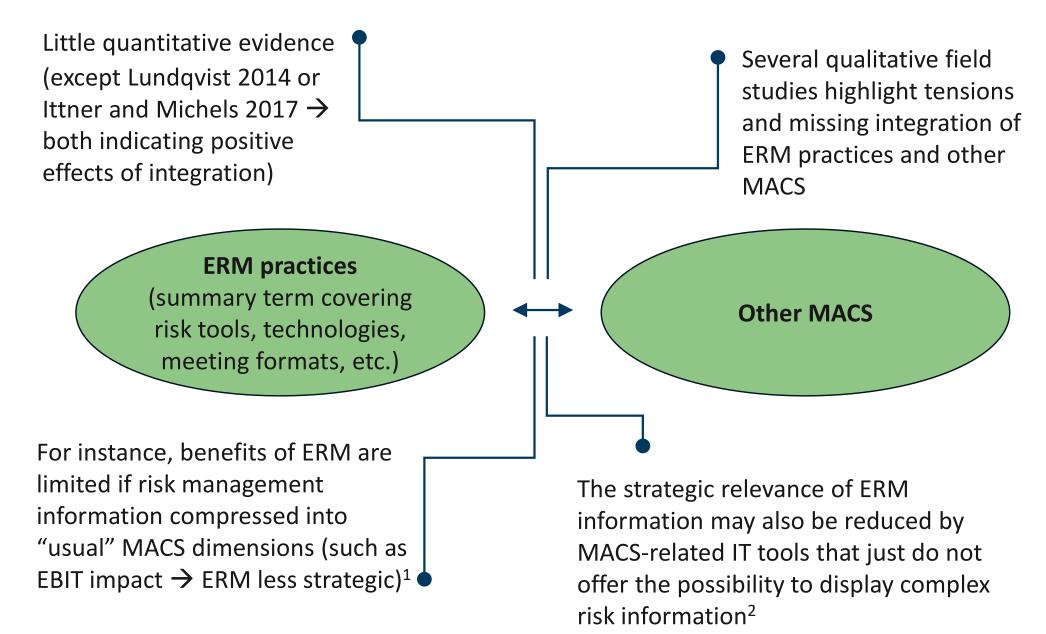




Review findings (2/4): ERM Actors and MACS



Review findings (3/4): ERM Practices and other MACS



References: 1 E.g., Tekathen and Dechow (2013, 2020) 2 Themsen and Skærbæk (2018)



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Review findings (4/4): Risk culture and MACS

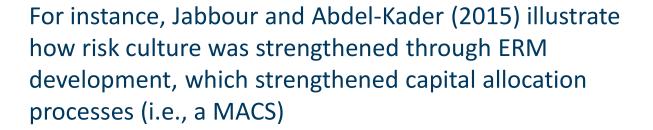


Both views are present in the literature and it seems accepted that risk culture impacts/shapes ERM, and ...

... risk culture impacts and is impacted by the relationship between ERM and MACS

... risk culture seems hard to change

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Review revealed no clear evidence of successful and intended risk cultural change (rather through external shocks), but risk culture important for successful ERM development

Overarching suggestions for future research

Start from the control problem that should be addressed through ERM as part of the organizational control package

Decision-*facilitating* role of MACS

Provision of information to reduce decision uncertainty

Decision-influencing role of MACS

Foster employees' goal-congruent behavior despite potential control problems:

Lack of direction

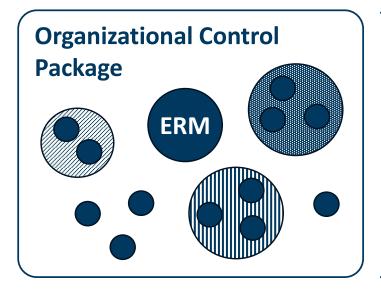
Lack of motivation

Personal limitations

Use complementarity theory to study the interplay between ERM actors, ERM practices, and risk culture to better understand the (successful) integration of ERM in the organizational control package



Why complementarity theory?



In the context of management control research, complementarity theory examines how a decision maker takes account of interdependencies between control practices to arrive at internal consistency and to maximize performance (Grabner and Moers 2013).

- Two control practices are complements (substitutes) when the benefits of one control practice increase (decrease) with the use of the other control practice and vice versa.
- In the case of independence, the respective benefits of the individual control practices do not depend on each other.
- We argue that complementarity cannot only exist between elements of the control package such as ERM, but also between ERM actors, ERM practices, risk culture, and other MACS



Exemplary suggestions on the decision-facilitating role

How can organizations generate relevant risk information that enables them to align their actual risk taking with their risk appetite?

- The integration of ERM practices with other MACS/practices is likely to impact the provision of such information
- But how can risk information not become too compressed (or semantically narrowed) and coupled with (existing) MACS?

Three potential solutions (but all not yet extensively examined in research)

Single integrative tool (e.g., BSC, scenario budgeting)

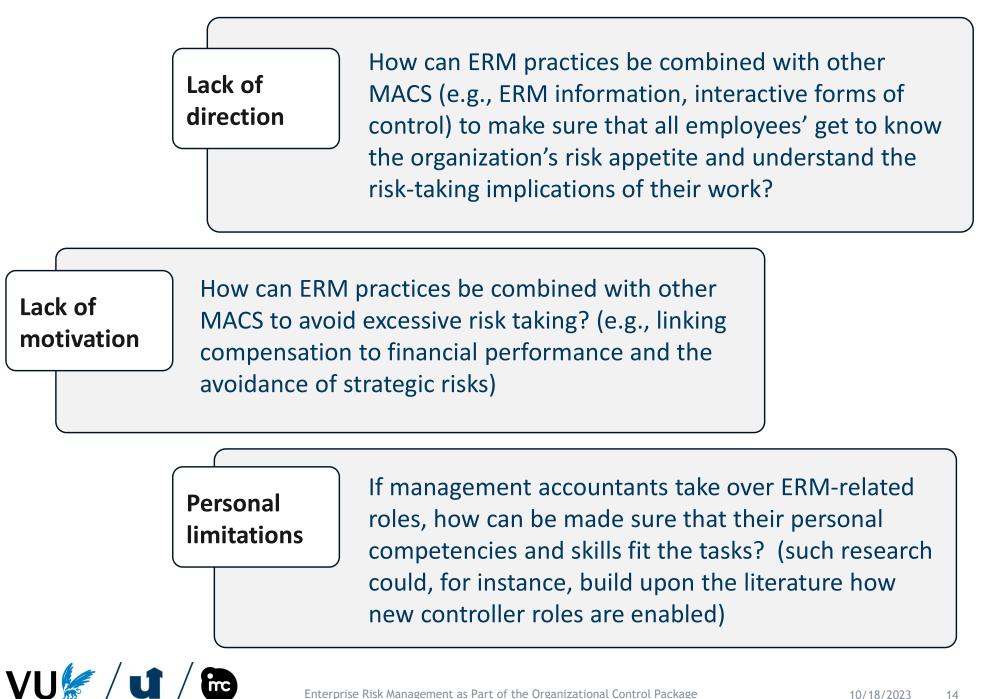
Combine separate ERM practices and other MACS

Combine integrative tool with other MACS



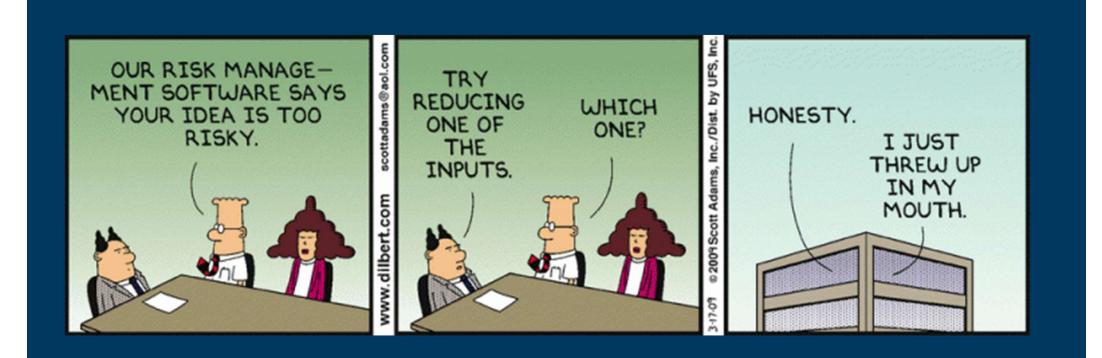
Exemplary suggestions on the decision-influencing role

Lack of



Conclusions

- Our review is the first to take a management control perspective on ERM and suggest several ways how MACS scholars can contribute to furthering our collective understanding of (successful) ERM
- The intersection between ERM and MACS represents a very promising area for both ERM and MACS scholars (and, of course, "integrative scholars")





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