The consequences of disclosing key audit matters (KAMs): A review of the academic literature

Anna Gold, Melina Heilmann

Abstract

Recent years have witnessed a change in the auditor reporting model. One of these developments is the auditor’s issuance of so-called Key Audit Matters in the auditor’s report, where they disclose “those matters that, in the auditor’s professional judgment, were of most significance in the audit of the financial statements of the current period”. In this paper, we review the emerging body of academic research which examines the effects of KAM disclosures in the auditor’s report. We investigate research that has examined the effect of KAM disclosures on (1) investor behavior and market reaction, (2) auditor responses, (3) auditor liability, and (4) client management responses. The objective of this paper is to provide an overview of the existing literature and to summarize the preliminary findings and implications of 22 studies.

Keywords

Key audit matters, auditor reporting model, stakeholder responses

Practical relevance

This literature review is of interest to auditors, standard setters, investors, regulators, and other stakeholders affected by auditor’s reporting, as the disclosure of KAMs significantly changes auditors’ communication. Readers will gain insights into initial research findings on KAM disclosure that will help evaluate the consequences of the new reporting requirements.

1. Introduction

The auditor’s report is the primary mean of communication between auditors and financial statement users (PCAOB 2017). However, the traditional reporting model is highly standardized and therefore frequently perceived as insufficiently useful, informative, and transparent (Asare and Wright 2012; Church et al. 2008; IAASB 2011). In particular, in the aftermath of the financial crisis of 2008, regulators, standard setters and the investment community started seriously questioning the informative value of the auditor’s report. Similarly, academic research in the last decade has also repeatedly emphasized that there may be a need for change, motivating audit report reforms. For example, Carcello (2012) and Turner et al. (2010) find that users generally valued the auditor’s opinion but showed little interest in reading the actual report given its highly standardized format. Users assessed the traditional auditor’s report as uninformative in particular because nearly all public companies receive the same unqualified opinion (Church et al. 2008; Gray et al. 2011). In their research synthesis, Mock et al. (2013) conclude that stakeholders desire more information about the audit, the auditor and financial statements. Moreover, Vanstraalen et al. (2012) find that users were interested in additional disclosures on audit findings such as key areas of risks. Overall, research results indicate that there is a gap between information that users desire about
financial statements and the audit and what is available through a company’s audited financial statements and the auditor’s report. Standard setters and researchers refer to this phenomenon as the “information gap” (IAASB 2012; Mock et al. 2013). In 2012, the chairman of the IAASB stressed that “more than ever before, [...] users of the audited financial statements are calling for more pertinent information for their decision-making in today’s global business environment with increasingly complex financial reporting requirements” (IAASB 2012). The information gap is closely related to the long-standing expectation gap which describes the difference between users’ expectations of an audit and what an audit actually is (IAASB 2011). As academic research provides ample of evidence on the persistence of this gap (e.g., Chong and Pflugrath 2008; Gold et al. 2012), Gray et al. (2011) argue that there is a need to make significant changes to the auditor’s report in order to reduce misperceptions.

These debates and research findings have resulted in multiple initiatives across the globe to enhance the communicative value of the auditor’s report. The International Auditing and Assurance Standards Board (IAASB), the European Commission (EC), the Public Company Accounting Oversight Board (PCAOB), and the U.K. Financial Reporting Council (FRC) finalized their projects to enhance the auditor’s report. One of the most significant amendments is the disclosure of Key Audit Matters (KAMs) or Critical Audit Matters (CAMs, which are the equivalent concept in the U.S. jurisdiction) in the auditor’s report. According to ISA 701.8, key audit matters are “those matters that, in the auditor’s professional judgment, were of most significance in the audit of the financial statements of the current period”. Unlike the traditional auditor’s report, the revised form allows for more customized information disclosed about the client- and engagement-specific observations made by the auditor. As such, the primary objective of standard setters and regulators is the transformation of the traditional pass/fail-model into a more individual and valuable report in order to meet the informational needs of financial statement users.

In this paper, we review the emerging body of academic research which examines the effects of KAM disclosures in the auditor’s report. We do so by examining four distinct streams of research. First, we review research papers that investigate whether KAM disclosures indeed have the potential of meeting the expectations of standard setters and regulators with respect to providing a more valuable reporting model. Second, some scholars argue that the introduction of the KAM section in the auditor’s report may not only influence financial statement users’ perception and decisions but could also have an influence on the audit itself. For example, Reid et al. (2018) suggest that auditors may exert more effort during the audit because of an increased sense of accountability due to anticipation of KAM disclosure. Similarly, the IAASB (2015b) refers to such potential increases of auditor professional skepticism in areas where KAMs are identified and, as a result, increased audit quality, not only in the perception of the users.

As a result of the potential of audit quality implications, a second stream of research examines auditor responses to KAM disclosures. Third, in the course of the development of the new reporting requirements, auditor legal liability was a frequently debated controversy, particularly in the United States (e.g., Tysiac 2013). The concern is that disclosing KAMs might increase jurors’ perceptions of auditor liability, especially when auditors have failed to detect misstatements. Hence, a third stream of literature examines the effects of KAM disclosure on auditor’s liability. Fourth, there is a burgeoning literature on client management reporting behavior in response to KAM disclosure. A potential benefit of KAM disclosures in this area is that client management may adopt less aggressive accounting in anticipation of auditor disclosure (Reid et al. 2018). The IAASB (2015) also referred to increased attention by management to KAM disclosures, which could have an indirect, beneficial effect on reporting behavior.

The objective of this paper is to provide an overview of the existing literature and to summarize the preliminary findings and implications of 22 studies. In our review, we include research studies available until 1 August 2018. Since research in this area is in its infancy, we include working papers in our review rather than focusing exclusively on published articles.

The remainder of this paper is organized as follows. In the next section, we provide a brief overview of related regulatory developments. Section 3 summarizes and discusses the results of academic studies on KAM disclosures. The final section presents our conclusions including implications for future research and for the audit profession.

2. Regulatory background

In May 2011, the IAASB published the consultation paper “Enhancing the value of auditor reporting: Exploring options for change”, discussing possible ways to improve the auditor’s report, particularly regarding the increased need for information by users and the persisting expectation and information gap (IAASB 2011). The IAASB’s (2012) Invitation to Comment resulted in a high level of support by various stakeholders for the amendments proposed by the IAASB (Prasad and Chand 2017; Simnett and Huggins 2014). In July 2013, these initiatives were followed by the Exposure Draft “Reporting on audited financial statements: Proposed new and revised International Standards on Auditing (ISAs)” (IAASB 2013). On 15 January 2015, the IAASB concluded its project with the release of the final version of the new and revised ISAs including the requirement to disclose KAMs in the auditor’s report of public entities (IAASB 2015a, ISA 701). KAMs are selected from matters communicated with those charged with governance and that required significant auditor attention in performing the audit including including significant auditor judgments, areas of higher assessed risk of material misstatement, and the effect on the audit of significant events or transactions that occurred during the
3. Recent research on the disclosure of KAMs

A substantial and growing body of literature investigates the effects of the disclosure of KAMs in the auditor’s report. To find the relevant studies, we used different databases (for example EBSCO, Google Scholar, SSRN, Web of Science) and searched for the key words “key audit matters” and “critical audit matters” in combination with “auditor reporting”, “audit report” and comparable terms. Due to the currency of the topic, a time limitation was not necessary. Although it is common to consider only published research in literature reviews, we extended our literature review to include publicly available working papers because the majority of related studies have not yet been published. Therefore, we included working papers that have been presented at pertinent academic conferences (e.g., conferences of the American Accounting Association (AAA), the European Audit Research Network (EARNet), the International Symposium on Audit Research (ISAR)).

The existing studies are based on experimental designs and archival data. We note that due to the lack of archival data, the majority of KAM research is experimental. Related reforms were adopted very recently, so that the only archival data for meaningful analyses is currently available from the UK, where auditors were required to report KAM since 2013.

We group the recent studies on KAM disclosures in four categories. The first category examines the effects of KAM disclosure on investor behavior and market reaction (Christensen et al. 2014; Köhler et al. 2016; Boolaky and Quick 2016; Carver and Trinkle 2017; Sirois et al. 2018; Béard et al. 2018; Lennox et al. 2018; Gutierrez et al. 2018; Almulla and Bradbury 2018). The second category focuses on auditor responses investigating KAM effects on auditor judgement, audit fee and audit quality (Reid et al. 2018; Gutierrez et al. 2018; Almulla and Bradbury 2018; Li et al. 2018; Béard et al. 2018; Asbahr and Ruhnke 2017, Ratzinger-Sakel and Theis 2018). The third category of papers examines whether the disclosure of KAMs will affect jurors’ assessments of auditor liability (Brasel et al. 2016; Kachelmeier et al. 2018; Brown et al. 2016; Gimbar et al. 2016; Backof et al. 2018; Vinson et al. 2018). Finally, we review a handful of studies that investigate how management reporting practices are affected by (anticipated) KAM disclosures (Cade and Hodge 2014; Bentley et al. 2018; Klueber et al. 2018). Table 1 provides an overview of the recent studies about KAM disclosure.

3.1 Investor behavior and market reaction

Christensen et al. (2014) are among the first to demonstrate that KAM disclosures have the potential of influencing the decisions of financial statement users. They conducted an experiment among U.S. business school graduates representing nonprofessional investors and found that investors who received a KAM-like paragraph regarding the uncertainty of management estimates were more likely to stop investing in the company compared to investors who received a standard audit report (an information effect) or investors who received the same information in management’s footnotes (a source credibility effect). However, they also found that the inclusion of a resolution paragraph, which contains auditor insurance for critical matters, reduces this KAM effect.
### Table 1. Summary of reviewed papers on the disclosure of KAMs (listed in alphabetical author name order).

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<tr>
<th>Date</th>
<th>Author(s)</th>
<th>Method and Sample</th>
<th>Dependent Variable</th>
<th>Independent Variable</th>
<th>Main results</th>
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<tr>
<td><strong>Panel A: Investor behavior and market reaction</strong></td>
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#### 2018 (wp)
Almulla/ Bradbury  
Archival; New Zealand; 2015, 2016, 2017; 132 firms  
Audit effort, audit quality, client firm disclosures, investor reaction  
KAM  
**Main results:**  
- Association with investor uncertainty

#### 2018 (wp)
Bédard/ Gonthier-Besacier/Schatt  
Archival; France, 2002–2011; 1,857–2,341 firm-year observations  
Market reaction, audit quality, audit delay, audit costs  
JOA  
**Main results:**  
- Short-term effects: No significant market reaction  
- Long-term effects: association with lower agreement among investors

#### 2016
Boolaky/ Quick  
Experimental; 105 bank directors  
Perceived financial statement quality  
KAM, assurance level, materiality level  
**Main results:**  
- No significant effect of reporting KAM or materiality level in the auditor’s report  
- But positive impact regarding the disclosure of assurance level

#### 2017 (wp)
Carver/ Trinkle  
Experimental; 150 non-professional investors  
Readability, investors judgment, management credibility  
CAM  
**Main results:**  
- CAMs have a negative impact on readability  
- CAMs do not influence investor’s valuation judgments  
- However, CAMs can reduce perceived management’s credibility

#### 2014
Christensen/ Glover/ Wolfe  
Experimental; 141 Alumni from a public business school  
Investor behavior  
CAM  
**Main results:**  
- Investors who receive a CAM are more likely to change their investment decision  
- Effect is reduced by offering a resolution paragraph

#### 2018
Gutierrez/ Minutti-Meza/ Tatum/ Vulcheva  
Archival; UK, 2011-2015, 2560/2652/2056 firm-year observations  
Market reaction, audit fee, audit quality  
Risk of material misstatement  
**Main results:**  
- No significant change regarding market reaction

#### 2016 (wp)
Köhler/ Ratzinger-Sakel/ Theis  
Experimental; 89 professional and 69 non-professional investors  
Communicative value  
KAM  
**Main results:**  
- Higher communicative value only for professional investors (no communicative value for non-professional investors)

#### 2018 (wp)
Lennox/ Schmidt/ Thompson  
Archival; UK; 2013; 488 companies  
Market reaction  
Risk of material misstatement  
**Main results:**  
- Investors do not find disclosures informative (both „short window“ and „long window“ tests)

#### 2018
Sirois/ Bédard/ Bera  
Experimental; 98 students  
Information value  
KAM  
**Main results:**  
- Attention directing impact: users pay more attention to KAM-related disclosures  
- Disclosure of several KAMs leads to reduced attention towards remaining parts of the financial statements

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<td><strong>Panel B: Auditor responses</strong></td>
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#### 2018 (wp)
Almulla/ Bradbury  
Archival; New Zealand; 2015,2016,2017; 32 firms  
Audit effort, audit quality, client firm disclosures, investor reaction  
KAM  
**Main results:**  
- No incremental effect on audit fees, audit delay or absolute abnormal accruals

#### 2017 (wp)
Asbahr/ Ruhnke  
Experimental; 122 auditors  
Auditor judgment  
KAM  
**Main results:**  
- No significant effect on professional skepticism

https://mab-online.nl
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<td>2018 (wp)</td>
<td>Bédard/ Gonthier-Besacier/ Schatt</td>
<td>Archival; France, 2002-2011; 1,857-2,341 firm-year observations</td>
<td>Market reaction, audit quality, audit delay, audit costs</td>
<td>JOA</td>
<td>• Short-term effects: positive association with audit lag and audit fees &lt;br&gt;• Long-term effects: association with lower agreement among investors and reporting quality</td>
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<td>2018</td>
<td>Gutierrez/ Minutti-Meza/ Tatum/ Vulcheva</td>
<td>Archival; UK, 2011-2015, 2560/2652/2056 firm-year observations</td>
<td>Market reaction, audit fee, audit quality</td>
<td>Risk of material misstatement</td>
<td>• No significant change regarding audit fee and audit quality</td>
</tr>
<tr>
<td>2018 (wp)</td>
<td>Li/ Hay/ Lau</td>
<td>Archival; New Zealand; 2016; 182/242 firm-year observations</td>
<td>Audit quality, Audit fees</td>
<td>KAM</td>
<td>• Improvement of audit quality accompanying with an increase in audit fees</td>
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<td>2018 (wp)</td>
<td>Ratzinger-Sakel/ Theis</td>
<td>Experimental; 73 auditors</td>
<td>Auditor judgment performance</td>
<td>KAM</td>
<td>• Less professional skepticism when KAM consideration is present</td>
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<td>2018 (wp)</td>
<td>Reid/ Carcello/ Li/ Neal</td>
<td>Archival; UK; 1088 (888, 884)/ 1304/ 1292 firm-year observations</td>
<td>Financial reporting quality, audit fee, audit delay</td>
<td>Risk of material misstatement</td>
<td>• Significant improvement in financial reporting quality &lt;br&gt;• No effect on audit fee and audit delay</td>
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Panel C: Auditor liability

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<tr>
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<th>Dependent Variable</th>
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<td>2018 (wp)</td>
<td>Backof/ Bowlinoodson</td>
<td>Experimental; 63 undergraduate students</td>
<td>Auditor liability</td>
<td>CAM</td>
<td>• When the audit report includes a related CAM disclosure, jurors perceive auditors as more negligent &lt;br&gt;• However, clarifying the concept of reasonable assurance mitigates this effect</td>
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<td>2016</td>
<td>Brasel/ Doxey/ Grenier/ Reffett</td>
<td>Experimental; 528 participants from Amazon Mechanical Turk</td>
<td>Auditor liability</td>
<td>CAM</td>
<td>• CAMs reduce jurors’ auditor liability judgments under certain conditions (but only if undetected misstatements are, absent CAM disclosure, relatively difficult to foresee)</td>
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<td>2016 (wp)</td>
<td>Brown/ Majors/ Peecher</td>
<td>Experimental; 239 participants from Amazon Mechanical Turk and 116 law students</td>
<td>Auditor liability</td>
<td>CAM (only as a supplemental manipulation)</td>
<td>• No significant main effect of CAMs on liability judgments</td>
</tr>
<tr>
<td>2016</td>
<td>Gimbar/ Hansen/ Ozlanski</td>
<td>Experimental; 234 students</td>
<td>Auditor liability</td>
<td>CAM</td>
<td>• Under precise standards, both related and unrelated CAMs increase auditor liability &lt;br&gt;• CAMs increase auditor liability by a lesser amount under imprecise standards than precise standards</td>
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<tr>
<td>2018 (wp)</td>
<td>Kachelmeier/ Schmidt/ Valentine</td>
<td>Experimental; 70 attorneys, 50 financial analysts and 50 MBA students</td>
<td>Auditor legal exposure</td>
<td>CAM</td>
<td>• CAM disclosure decreases assessments of auditor responsibility when the misstatement is in the same area as the CAM &lt;br&gt;• “Disclaimer effect” is manifest in different ways for different groups</td>
</tr>
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Köhler et al. (2016) also undertook an experiment to examine the communicative value of the expanded auditor’s report among professional and non-professional investors for a sample that consisted primarily of German users. They find that investment professionals’ assessments of the economic situation of a company are influenced by variations in the KAM disclosures. However, KAM disclosures appear to have no communicative value on non-professional investors as they may have difficulties to process the new information revealed by KAM. Another German study (Boolaky and Quick 2016) focuses on yet another financial statement user group, that of bank directors. The authors examine the effect of KAM disclosure on bank directors’ perceptions of financial reporting quality and credit approval decisions, but found no effect of KAM disclosure.

An experimental study by Carver and Trinkle (2017) examines the impact of KAM disclosure on nonprofessional investors’ perceptions of audit report readability, their valuation judgments, and their evaluations of management’s credibility. Findings suggest that KAM disclosures lead to a less readable report that did not result in incremental changes of investors’ valuation judgments (neither directly nor through its effect on readability). However, they found a negative impact of KAM disclosure on investors’ perceptions of management’s credibility when earnings just meet analyst’s forecasts.

The experimental study by Sirois et al. (2018) provides interesting insights into how users’ information search strategies are affected. The authors asked graduate accounting students in Canada to assume the role of bank loan officer and examined the influence of KAMs on users’ attention to financial statement information. Using innovative eye-tracking technology, the researchers found that KAMs have an attention-directing effect, such that KAMs increase users’ attention to KAM-related information in the financial statement disclosures. Moreover, the presence of KAMs leads to a reduction of the level of attention devoted to parts of the financial statements not covered by the KAMs, indicating that KAMs have the potential of helping investors effectively navigate through the financial report and to focus their attention on pertinent issues.

While most research thus far is based on experiments, there is also some initial evidence from archival studies. First, Bédard et al. (2018) investigate the effects of “justifications of assessment (JOAs)” in the French setting. Since 2003, auditors in France have been required to disclose items important to the understanding of the financial report. As these disclosures include a summary of auditor’s assessments, performed procedures and a conclusion, the research results are comparable to KAM settings and thus relevant for our objective. Bédard et al. (2018) do not observe a significant market reaction to disclosure of first JOAs, but subsequent disclosure of JOAs was significantly associated with larger abnormal trading volume (i.e., lower agreement among investors).

Lennox et al. (2018) examine the expanded UK reporting model. Using short-window and long-window tests, the authors investigate market reactions following risk disclosure in the auditor’s report to assess whether investors perceive the new disclosures as informative. Their results suggest that the new disclosures were reliable but that they lack of incremental information content because users were already informed about the majority of the risks before these risks were reported in the auditor’s report.

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Gutierrez et al. (2018) perform an archival study to examine the consequences of additional information in
the auditor’s report on investor’s reaction, audit fees and audit quality. Implementing a difference-in-difference research design, they do not find evidence for an incremental short market reaction. Their results regarding investor’s reaction (measured by abnormal returns and abnormal trading volume) align with the findings of Lennox et al. (2018) concluding that KAM disclosure does not influence investor behavior.

In contrast to the above archival studies, Almulla and Bradbury (2018) find that KAMs are associated with investor uncertainty. Interestingly, examining the first year of KAM disclosures in New Zealand, they observe that investors already valued the risks in the year before KAM disclosure was implemented.

Overall, the above studies provide mixed results regarding investor behavior and market reaction in response to KAMs. Some experimental studies suggest that there is an effect on users, showing that users are less likely to invest in a company and that they focus their attention on particular parts of the financial statements in the presence of KAM disclosure. However, other experimental results do not confirm these effects and, importantly, archival research has not been able to find evidence in support of a significant market reaction. In view of these mixed results, further research is necessary to explore the economic consequences associated with KAM disclosure. In particular, archival research will be feasible once regulatory developments in other jurisdictions take effect and sufficient data is available.

3.2 Auditor responses

While the impact of KAMs on reducing the information gap and thus investor behavior is most directly aligned with the intended objectives of the expanded audit reporting model, some researchers have also examined whether the requirement to disclose KAMs influences auditor behavior. According to Reid et al. (2018), the audit may be affected by KAM disclosure because (1) management may adopt a more acceptable accounting behavior due to the threat of auditor disclosure, and (2) auditors may feel more accountable for their work and therefore do a better job. There are several working papers that offer initial evidence of the association between audit report expansion and audit-related outcomes.

First, while not focusing exclusively on disclosure of KAMs, Reid et al. (2018) is one of the first studies to examine the relationship between the new reporting regime (which includes KAM disclosure) and audit-related outcomes. They focus on the UK and find that the new reporting regime leads to significant improvement in financial reporting quality (as proxied by absolute abnormal accruals, the propensity to just meet or beat analyst forecasts, and a significant increase in earnings response coefficients) without detecting a significant increase in audit costs (neither fees or audit delays). While these findings may be driven by other elements of the new reporting model, the study provides initial evidence of beneficial effects of KAMs for audit quality.

Gutierrez et al. (2018) also focus on the UK experience but report slightly different results with respect to audit-related outcomes. They observe no significant association between the expanded auditor’s report and either audit fees or audit quality. Initial evidence from New Zealand offers inconsistent insights. First, Almulla and Bradbury (2018) find no incremental effect of the expanded auditor’s report on either audit fees, audit delay or absolute abnormal accruals. In contrast, Li et al. (2018) report that the introduction of the new and revised audit reporting standards were followed by an improvement in audit quality (as proxied by a reduction in absolute abnormal accruals) and a significant increase in audit fees, suggesting that although the new auditor reporting model results in audit quality improvements, such benefit comes at a cost.

Bédard et al. (2018) focus more directly on disclosure of JOAs in the French setting, which, as discussed, are similar to KAMs. They find negative efficiency effects in the first year of disclosure (i.e., longer audit report lag and increased audit fees), but not in subsequent years. Interestingly, in subsequent years (but not the first year) the disclosure of JOAs is negatively associated with financial reporting quality (as proxied by discretionary accruals). While these findings are inconsistent with the results reported by Reid et al. (2018) and Gutierrez et al. (2018), the authors argue that they could also be explained by the fact that clients for which JOAs are disclosed are subject to accounting information that is more difficult to audit and thus measurement error and bias are more likely in these cases.

While these studies provide important preliminary archival evidence, additional research over more years and in other jurisdictions will help better reconcile the long-term effects. Finally, we are aware of two working papers that use the experimental method to examine how auditors in Germany respond to the (anticipated) disclosure of KAMs (Ashahr and Ruhnke 2017; Ratzinger-Sakel and Theis 2018). Interestingly, both studies suggest that auditors that are asked to consider KAMs exhibit less professional skepticism than when they do not consider KAMs, suggesting adverse effects of KAMs on auditor judgment performance.

Again, we conclude that the evidence with respect to the association between KAM disclosure and audit-related outcomes is mixed, but we note that surprisingly many studies suggest adverse effects, which require deeper investigation to be corroborated and analyzed.

3.3 Auditor liability

In the course of the development of the new reporting requirement auditor legal liability was a frequently debated controversy, particularly in the United States (e.g., Tysiac 2013). According to some, disclosing KAMs might increase jurors’ auditor liability judgments when auditors have failed to detect misstatements. As a result, a third stream of research examines experimentally whether KAM dis-
closure influences liability judgments. Typically using jury-eligible individuals as participants, some studies have found that disclosing KAMs can actually reduce auditor liability (Brasel et al. 2016; Kachelmeier et al. 2018) or have no effect (Brown et al. 2016), suggesting that the concern over the legal hazards of disclosing KAMs is likely unwarranted. Other studies have found that KAMs have the potential of increasing liability. For instance, Gimbar et al. (2016) find that KAMs increase auditor liability relative to the traditional audit report, albeit to a lesser degree under imprecise standards. Similarly, Backof et al. (2018) find that reporting a KAM increases jurors’ negligence assessments, but explaining the concept of reasonable assurance mitigates this effect. Vinson et al.’s (2018) experiment considers longer-term effects of KAM disclosure. They find that removing a KAM that is reported for multiple years, relative to a KAM that is reported for one year, results in higher negligence assessments due to higher perceptions that the misstatement was foreseeable to the auditor.

### 3.4 Client management responses

A few working papers have examined whether and how client management responds to (anticipated) KAM disclosures by their auditors. It is possible that KAMs may influence managerial decision making, given the increased scrutiny by auditors as a result of KAMs. We are aware of three experimental studies which are relevant in this regard. First, Cade and Hodge (2014) investigate whether KAM-like details in the auditor’s report affect how openly managers communicate with their auditors. Interestingly, they find that managers share less private information with their auditors about their accounting choices when they are told that the auditor will publicly disclose such choices, a potentially adverse effect of the KAM regime. Anticipating auditors’ disclosure of audit procedures does not have such adverse effects.

Bentley et al. (2018) investigate whether the anticipation of KAM-like auditor disclosures affect managerial decision-making and find that managers are more likely to speculate and less likely to hedge when they anticipate a KAM disclosure. This effect is mitigated when the KAM report contains a disclaimer related to the scope of the auditor’s assurance role.

Finally, Klueber et al. (2018) ask managers about their financial reporting choices and examine whether earnings management is reduced as a result of anticipated KAM disclosure. They find that as long as the KAM section includes firm-specific information, it indeed has the potential of reducing earnings management in financial reporting.

### 4. Conclusions, implications and suggestions for future research

Responding to extensive criticism of the traditional pass/fail-model of auditor reporting, standard setters and regulators worldwide have recently released new auditor reporting requirements, including the requirement for auditors to disclose Key Audit Matters (KAMs). The disclosure of KAMs is supposed to enhance the information value and decision usefulness of the auditor’s report, and may also have effects on the performance of auditors and managers, as well as liability judgments of jurors. We identified 22 research studies examining the consequences of KAM disclosures for investor behavior, auditor responses, jurors’ assessments of auditor liability, and client management responses.

Several research findings support the intended benefits of KAM disclosures. For example, experimental evidence suggests that KAMs have the potential of influencing the decisions of financial statement users, particularly with regard to non-professional investors. KAMs also have the potential of effectively directing financial statement users’ attention to pertinent areas and decrease managers’ earnings management attempts. While these findings are promising, preliminary archival research fails to support a wider capital market reaction to KAM disclosures, raising questions about the economic significance of the changed reporting model.

KAM disclosures also appear to have some unanticipated, and sometimes even adverse consequences. Archival research finds efficiency losses in terms of increased audit report lags and audit fees, and experimental evidence suggests that auditors may be less professionally skeptical in the presence of KAMs. Finally, managers’ willingness to share information with their auditor as well as their risk-taking behavior is affected by anticipated KAM disclosures, not always in a beneficial direction.

Based on the findings reviewed in this paper, we offer some important implications and recommendations for audit practice. First, auditors should be aware that the disclosure of KAMs has attention-directing impacts on financial statement users and should therefore carefully decide how many, and in particular what matters, they disclose as KAMs in the auditor’s report. Second, some adverse consequences of KAM disclosures can be mitigated by an explanation of the concept of reasonable assurance (e.g., Backof et al. 2018) and providing information specificity in KAMs (e.g., Klueber et al. 2018). As a result, standard setters may consider prescribing more clarifying language in KAM disclosures. In general, standard setters and regulators should pay close attention to adverse effects that KAM disclosures may have in the coming years.

In a relatively short time span, a substantial number of research papers has appeared with the objective of examining the consequences of KAM disclosures for a variety of stakeholders, suggesting this is a growing body of auditing research. The findings thus far suggest several fruitful avenues for future research. In particular, the mixed nature of results of previous studies indicate that there may be insufficient research to assess all the consequences of KAM disclosure. First, due to the mixed findings on investor and market reactions, more research is needed on how exactly investors process the additional information provided in KAM sections, while differentiating between sophisticated and unsophisticated investors. In this regard, we recommend greater use of qualitative research methods (e.g., interviews or focus group discussions) to incorporate the perspectives of different stakeholders.
groups) to better understand how users process this information. Eye-tracking research, such as the study by Siros et al. (2018) may also provide additional insights into such processes. Second, as data becomes available in ISA jurisdictions, UK archival studies should be replicated to make comparisons between different jurisdictions. As ISA 701 is mandatory for audits for periods ending on or after 15 December 2016, further archival research can be expected soon; and the emerging CAMs in the United States will also offer plenty of research opportunities. Finally, future studies could focus on the production process of KAMs which has not yet been considered in prior research and which may also have (indirect) effects on various reporting and quality outcomes. For example, future field studies could examine the process used to identify and select KAMs and how this process influences auditor communications with management and audit committees.

- **Prof. dr. A. Gold** is full professor of auditing at Vrije Universiteit Amsterdam and adjunct professor at Norwegian School of Economics (NHH)
- **M. Heilmann MSc** is a Ph.D. student at Technische Universität Dortmund

**Notes**

1. In addition to the disclosure of KAMs, regulatory developments also include other changes to the content and the form of the auditor’s report. However, our literature review focuses on studies examining the impact of KAM disclosures only.

2. We caution readers that findings and conclusions reported in working papers may change as a result of the academic review process, which we however consider a relatively minor trade-off to our choice to include working papers in our review.

**References**


https://mab-online.nl
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