

Putting Continuous Auditing Theory into Practice: Lessons from Two Pilot Implementations

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ABSTRACT: In the almost twenty years since Vasarhelyi and Halper (1991) reported on their pioneering implementation of what has come to be known as Continuous Auditing (CA), the concept has increasingly moved from theory into practice. A 2006 survey by PricewaterhouseCoopers shows that half of all responding firms use some sort of CA techniques, and the majority of the rest plan to do so in the near future. CA not only has an increasing impact on auditing practice, but is also one of the rare instances in which such a significant change was led by the researchers. In this paper we survey the state of CA after two decades of research into continuous auditing theory and practice, and draw out the lessons learned by us in recent pilot CA projects at two major firms, to examine where this unique partnership between academics and auditors will take CA in the future.

Keywords: continuous auditing; internal audit; audit systems.

I. INTRODUCTION

Two decades have now passed since the work started on the first large-scale commercial continuous auditing project reported in the original paper by Vasarhelyi and Halper (1991). That project at Bell Laboratories relied on the groundbreaking information technology of the day (PCs, databases, corporate networks, but not yet the Internet) to assure the reliability of the AT&T large billing systems through the automated acquisition and analysis of data and the electronic communication of alarms. Already that first project clearly demonstrated that the ultimate point of continuous auditing (CA) is to bring auditing closer to the operational process, and away from the traditional backward-looking once-a-year examination of financial statements.

This paper draws on the lessons obtained from work on CA at major Fortune 100 firms, led by the authors working in close collaboration with the internal audit departments of the clients. While case studies of some of these implementations have been published elsewhere (Alles et al. 2006, 2007), this paper steps back to draw the broader insights they offer about the emerging conceptual model of continuous assurance. These studies were particularly

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Audit Effectiveness Kamil Omoteso, 2016-04-08 In Audit Effectiveness Dr Kamil Omoteso examines how information technology is changing the landscape for the audit profession as IT tools and techniques continue to be developed for auditors in the pursuit of quality efficiency and effectiveness In addition to shedding light on practical subjects such as audit automation continuous online auditing and computer auditing this book introduces some theory that helps explain the motivation for the use of new tools and techniques and assists understanding of their impact on the quality of audit judgment The book proposes a three layered model an integration of contingency socio technical systems and structuration theories for a comprehensive understanding of IT s impact on audit The model advocates that the use of IT in audits is a function of certain contingent factors that determine an optimal mix of human skills and technological capabilities which would lead to changes in the nature of auditors roles and outputs and audit organisations structures Dr Omoteso puts forward an audit automation maturity model that can help audit firms departments to understand their current level of IT integration and how to systematically enhance their capabilities with a view to meeting modern IT challenges taking them from the position of mere followers of technology to that of effective leaders of technology Audit Effectiveness is for anyone practising in auditing or accounting automation as well as for those with an academic or research interest in the challenges posed by technological advances for auditors in particular and for managers in general

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