

## Desktop review: Artificial Intelligence and digital technology project

The tables below provide a high-level overview of a sample of relevant resources found during the desktop review and research into Artificial Intelligence and Digital Technology conducted by the APESB Technical Staff. The resources are provided to highlight the diverse range of resources currently available on the topics. Technical Staff note that the Professional Accounting Bodies have produced a variety of resources (such as reports, guides and articles) for their members relating to technology.

Technical Staff have provided the links to the resources for information purposes only and do not consider all of these papers need to be read to participate in the discussion for this agenda item.

### **General Information on Artificial Intelligence and Digital Technologies**

Organisation	Resource	High-level summary
WIRED	<a href="#">The WIRED guide to artificial intelligence (Jan 2018)</a>	<ul style="list-style-type: none"> <li>• Outlines the origins of AI and how it is likely to be used in the future</li> <li>• Provides definitions of key AI terms</li> </ul>
McKinsey	<a href="#">An executive's guide to AI</a>	<ul style="list-style-type: none"> <li>• An interactive guide that provides a high-level summary of AI and deep learning.</li> <li>• It provides examples of how a business could use specific technologies.</li> </ul>
Sloan MIT Review	<a href="#">What managers need to know about artificial intelligence (Jan 2017)</a>	<p>This article focuses on three main topics:</p> <ul style="list-style-type: none"> <li>• what is artificial intelligence?</li> <li>• How will AI influence business strategy?</li> <li>• What are the major management risks from AI?</li> </ul>
BBVA	<a href="#">Nine Technology Trends in 2019</a>	Provides a quick snapshot of the current digital technology developments

### **Information relating to the Accounting profession and AI and digital technologies**

Organisation	Resource	High-level summary
CA ANZ	<a href="#">Machines can learn, but what will we teach them?</a>	<ul style="list-style-type: none"> <li>• The report considers how advances in AI will affect society and individuals.</li> <li>• Provides an overview of relevant ethical issues and considerations.</li> </ul>
CPA and the Singapore Management University's School of Accountancy	<a href="#">Charting the Future of Accountancy with AI</a>	<ul style="list-style-type: none"> <li>• provides an overview of AI and how it is currently being used and developed within the accounting and finance industry.</li> <li>• Considers how AI could be used to assist in a variety of areas in accounting and finance.</li> <li>• Considers the future skill sets required of accountants and relevant ethical considerations.</li> </ul>
ACCA Global	<a href="#">Machine learning: More science than fiction</a>	<ul style="list-style-type: none"> <li>• The report focuses on machine learning and the accountancy profession.</li> <li>• Includes an overview of ethical considerations and implications for the future skills of accountants.</li> <li>• Refer to the IESBA's fundamental principles.</li> </ul>

**Information relating to ethics and AI and digital technologies**

Organisation	Resource	High-level summary
IESBA	<a href="#">IESBA Technology Initiative, Phase 1 Final Report</a>	<ul style="list-style-type: none"> <li>The report considers the ethical implications of technology in accounting, assurance and finance.</li> <li>Concludes that the International Code is sufficient for most technology-related ethical issues.</li> <li>Provides recommendations to enhance current guidance.</li> </ul>
ICAEW	<a href="#">New technologies, ethics and accountability</a>	<ul style="list-style-type: none"> <li>Focuses on the risks associated with new technologies and the importance of building in ethics and accountability frameworks into technological projects.</li> <li>Discusses the need to assess the current ethical framework for the profession but does not outline the result of an assessment or any necessary changes.</li> <li>ICAEW has also released another four reports that focus specifically on a particular technology and its impact on the future of accountancy. This includes <a href="#">artificial intelligence</a>, <a href="#">blockchain</a>, <a href="#">big data</a>, and <a href="#">cybersecurity</a>.</li> </ul>
Data 61 (CSIRO)	<a href="#">Artificial Intelligence: Australia's Ethics Framework</a>	<ul style="list-style-type: none"> <li>Considers current AI frameworks, principles and guidelines, both within Australia and internationally, including current regulations.</li> <li>Focuses on the ethical implications of automated decision-making and predicting human behaviour.</li> </ul>
Standards Australia	<a href="#">Developing Standards for Artificial Intelligence: Hearing Australia's Voice</a>	<ul style="list-style-type: none"> <li>A discussion paper to seek information on the current uses of AI</li> <li>Considers the current regulatory environment in Australia, as well as existing relevant Australian and New Zealand standards, and proposed International Standards by the ISO.</li> <li>Consider issues relating to ethics in AI.</li> </ul>
European Commission	<a href="#">Ethics Guidelines for Trustworthy AI</a>	<ul style="list-style-type: none"> <li>The report provides the necessary components of trustworthy AI and a framework for implementation.</li> </ul>
IBM	<a href="#">Everyday Ethics for AI</a>	<ul style="list-style-type: none"> <li>This report by IBM outlines its approach to the ethical development of AI.</li> <li>It provides focus areas for the development of ethical AI.</li> </ul>