7.2.1 Job Dashboards
Architectural Executive

Megatrends impacting the Job Role in Short to Medium-Term				
COVID-19	Multi-Skilling	Sustainable Construction/ Buildings	Value Chain Aggregation & Integration	Workforce Challenges

Technology Trends impacting the Job Role in Short to Medium-Term			
BIM Technology	Data Analytics & AI	Digital Twin	Remote Monitoring
VR/AR	5G, IoT & Smart Buildings	Modular Construction	

Impact Assessment

M →

MEDIUM
degree of change in tasks

Today

This job role is responsible for reviewing data during the feasibility and design phases. Job holders are involved in developing computational models, provide advice on procurement methods, and propose opportunities for improvement and adoption of the latest industry trends.

In the Future

This job role may be expected to be **increasingly proficient in review** and **application of data in feasibility and design** phases, with capabilities in **computational model developments**, and **facilitate collaboration across the value chain with increased aggregation and integration**. Job holders may need to keep abreast of evolving trends and technologies so as to advise on procurement methods and continue proposing opportunities for use and adoption in architectural services.

Job Tasks Today		Impact at Task-level / Future view of Job Tasks	Time Horizon
Analyse design database and documentation for feasibility and design phase	M	‣ Job holders will continue to develop computational designs using digital tools and platforms, and may need to **upskill with relevant industry knowledge and skills to accurately incorporate potential impact into designs**. Job holders may leverage digital tools and platforms (e.g., BIM Technology) **to develop complex computational models**. ‣ Job holders may also leverage knowledge of trends and technologies in **providing inputs and alternatives of construction and build materials** (e.g., impact of modular construction).	Short-term
Conduct documentation and tendering	L	‣ Building contracts may move towards smart contracts (enabled by technology e.g., Blockchain), and job holders will need to acquire an understanding and capabilities to **advise on appropriate procurement methods and selection of building contracts, administration of any smart contract, and management of data associated**.	Long-term
	M	‣ Job holders may need to **validate the analysis of performance of buildings against computational designs** in response to trends (e.g., environmental performance) through digital tools and platforms used in computational analysis.	Short-term

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Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon
Manage people and organisational functions	L	▸ Job holders will continue to perform people management tasks (i.e., on-the-job coaching, lead teams), and may see **greater emphasis on managing compliance of project delivery outcomes and maintenance of ethical business practices** with changing regulatory requirements.	Short-term
	M	▸ Digital tools and platforms may be leveraged to **manage effective and efficient communication among project teams and other stakeholders**.	Short-term
Propose continuous improvement initiatives	M	▸ Job holders will need to be updated on the latest industry developments so as to **propose relevant opportunities for use and improvements to architectural services**.	Short-term

The following TSCs have been identified as in-demand/emerging for the job role going forward:

In-demand Technical Skills and Competencies		
Biophilic Design in Built Environment	Building Information Modelling Application	Computational Design
Critical Thinking	Design for Maintainability	Design for Manufacturing and Assembly
Integrated Digital Delivery Application	Project Risk Management	Regulatory Submission and Clearance
Stakeholder Management	Technology Application	
Emerging Technical Skills and Competencies		
Design Sustainability and Ethics Management	Programming and Coding	