

Constructs	First order dimensions	Items	Wording	Reference
AI Competency (AICOMP)	AI Knowledge (AI_KNOW)	AIKNOW1	Overall, our technical support staff is knowledgeable about AI systems.	Tippins and Sohi (2003); Wang et al. (2019)
		AIKNOW2	Our firm possesses a high degree of AI expertise.	
		AIKNOW3	We are very knowledgeable about new AI applications.	
		AIKNOW4	We have the knowledge to develop and maintain AI systems and the associated applications.	
	AI Objects (AI_OBJECT)	AIOBJECT1	Our company has a formal AI department	
		AIOBJECT2	Our firm employs a manager whose main duties include the management of our AI systems.	
		AIOBJECT3	Every year we budget a significant amount of funds for new AI hardware and software.	
		AIOBJECT4	Our firm creates customized AI applications when the need arises.	
		AIOBJECT5	The AI systems promote collaboration among our employees.	
	AI Operations (AI_OPER)	AIOPER1	Our firm is skilled at collecting and analyzing information via AI systems.	

		AIOPER2	We routinely utilize AI systems to access market information.	
		AIOPER3	We have set procedures for collecting information from online sources for our AI systems.	
		AIOPER4	We use AI systems to analyze business, customer and market information.	
		AIOPER5	We utilize AI systems frequently when it comes to managing and analyzing customer information.	
		AIOPER6	We rely on AI systems to acquire, store and process information about our customers.	
Absorptive capacity (ACAP)	Acquisition (ACQUIS)	ACQUIS1	The search for relevant information concerning our industry is an every-day business in our firm.	Flatten et al. (2011); Jaklič et al. (2018)
		ACQUIS2	Our management motivates the employees to use information sources within our industry.	
		ACQUIS3	Our management expects that the employees deal with information beyond our industry.	
	Assimilation (ASSIMIL)	ASSIMIL1	In our firm, ideas and concepts are communicated cross-departmentally.	

		ASSIMIL2	Our management emphasises cross-departmental support to solve problems.	
		ASSIMIL3	In our company, there is a quick information flow, e.g. if a business unit obtains important information it communicates this information promptly to all other business units or departments.	
		ASSIMIL4	Our management demands periodic cross-departmental meetings to exchange new developments, problems and achievements.	
	Exploitation (EXPLOIT)	EXPLOIT1	Our management supports the development of prototypes.	
		EXPLOIT2	Our firm regularly reconsiders technologies and adapts them according to new knowledge.	
		EXPLOIT3	Our company has the ability to work more effectively by adopting new technologies.	
	Transformation (TRANSFOR)	TRANSFOR1	Our employees have the ability to structure and use collected knowledge.	
		TRANSFOR2	Our employees are used to absorbing new knowledge, preparing it for further purposes and making it available.	

		TRANSFOR3	Our employees successfully link existing knowledge with new insights.	
		TRANSFOR4	Our employees are able to apply new.knowledge in their practical work.	
Environmental Performance (SCENVPERF)		SCENVPERF1	Reduction of air emission.	Huang and Li (2017)
		SCENVPERF2	Reduction of waste water.	
		SCENVPERF3	Reduction of solid wastes.	
		SCENVPERF4	Decrease of consumption for hazardous /harmful/toxic materials.	
Supply Chain Resilience (SCRES)		SCRESILI1	How well is your firm prepared for a disruptive event recovery? (anticipation)	Shin and Park (2021)
		SCRESILI2	How well can your firm’s material flow be quickly restored after a disruptive event? (respond)	
		SCRESILI3	How quickly can your firm deal with a disruptive event? (adapt)	
		SCRESILI4	How easily can your firm recover its normal operating performance after a disruptive event? (recover)	

References

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