

Supplemental Material 1.

Correspondence of Smart City Governance objectives with Disruptive Technology outcomes (literature Review Based)

SCG Objectives Category	Smart City Governance Objectives	Big Data	Open Data	AI	IoT	Blockchain	
Citizens centered transformation	To implementing a citizen-centric approach	X	X	X	X	X	(Hashem et al. 2016a), (Janssen, Charalabidis, and Zuiderwijk 2012a), (Kankanhalli, Charalabidis, and Mellouli 2019a), (Cisco 2016), (Marda 2018), (Chatterjee et al. 2018), (Hakak et al. 2020)
	To transform of processes and structures	X	X	X	X		(Heeks 2001), (Ju, Liu, and Feng 2018, (Agnihotri 2015), (Janssen, Charalabidis, and Zuiderwijk 2012a), (Cisco 2016), (Kankanhalli, Charalabidis, and Mellouli 2019a)
	To support impact on society		X	X	X		(Janssen, Charalabidis, and Zuiderwijk 2012a), (Leitner and Stiefmueller 2019)
	To realize urban sustainability and resilience in terms of resource availability and disaster response	X	X	X			(Bertot et al. 2014), (Janssen, Charalabidis, and Zuiderwijk 2012a), (Kankanhalli, Charalabidis, and Mellouli 2019a)
Decision making processes	To build fair and efficient models of public service design, delivery and transactions	X	X	X	X		(Singh, Srivastava, and Johri 2014), (Bertot et al. 2014), (Agnihotri 2015), (Janssen, Charalabidis, and Zuiderwijk 2012a), (Bradley et al. 2013), (Kankanhalli, Charalabidis, and Mellouli 2019a)
	To provide evidence-based decision making	X	X	X	X		(Ju, Liu, and Feng 2018), (Camarinha-Matos and Afsarmanesh 2005), (Pereira et al. 2017), (Peters, Janssen, and Van Engers 2004), (Janssen et al. 2019), (Kankanhalli, Charalabidis, and Mellouli 2019a), (Plotkin 2013)
	To support understanding of data (on events, conditions, problems and processes)	X	X	X			(Mahmoud, Omar, and Ouksel 2019), (Janssen et al. 2020), (Hakak et al. 2020)
	To sustain innovation and creativity	X	X	X	X		(Agnihotri 2015), (Janssen, Charalabidis, and Zuiderwijk 2012a), (Leitner and Stiefmueller 2019), (Sharma, Yadav, and Chopra 2020)
	To use simulations and modelling as a decision support techniques	X		X	X		(Hashem et al. 2016b), (Agnihotri 2015), (Mahmoud, Omar, and Ouksel 2019), (Leitner and Stiefmueller 2019), (A. Dwivedi et al. 2019)
	To collect data or observations through search agents				X		(Ali et al. 2016), (Plageras et al. 2017)
Smart urban collaboration		X	X	X		X	(Janssen, Charalabidis, and Zuiderwijk 2012a), (Bartenberger and Grubmüller-Régent 2014), (Viale Pereira et al. 2017a), (Peixoto 2008), (Viale Pereira et al. 2017b), (Cunha, Coelho, and Pozzebon 2014), (Kankanhalli, Charalabidis, and Mellouli 2019b), (Nam et al. 2019), (Scekic, Nastic, and Dustdar 2019), (Ju, Liu, and Feng 2018)
	To increase e-Participation			X			(Makhdoom et al. 2020), (Ubaldi, Ooijen, and Welby 2019)
	To ensure privacy and security						
	Provide e-democracy and advance democratic expression, and e-Voting	X	X			X	(Yigitcanlar et al. 2020), (Desouza and Jacob 2017), (Janssen, Charalabidis, and Zuiderwijk 2012a), (Y. K. Dwivedi et al. 2019), (Ubaldi, Ooijen, and Welby 2019)
	To increase governance accountability, transparency, effectiveness, and trust					X	(Bertot et al. 2014), (Plotkin, 2013), (Janssen, Charalabidis, and Zuiderwijk 2012a), (Peled 2011), (Zuiderwijk and Al. 2014), (Kankanhalli, Charalabidis, and Mellouli 2019b), (Oliveira, Oliver, and Ramalhinho 2020), (Ubaldi, Ooijen, and Welby 2019)
Smart administration	To establish and manage public-private collaboration	X	X	X		X	(Pereira et al. 2017), (Magalhaes, Roseira, and Manley 2014)
	To ensure social equality	X	X		X	X	(Janssen, Charalabidis, and Zuiderwijk 2012), (Johnson 2019), (Tilmes 2018)
	To provide integration and storage of data	X	X				(Mahmoud, Omar, and Ouksel 2019), (Janssen et al. 2020), (Hakak et al. 2020)
	To build new style of leadership		X				(Benfeldt, Persson, and Madsen 2020), (Johnson 2019)

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