

## Appendix B – The barriers to gamification in the literature

	Barriers									
Author	Overemphasises Extrinsic Rewards	Dampened intrinsic motivation	Poor UI	Poor Mechanism	Skepticism	Economic	Socio- cultural	Privacy Concerns	Limited Feedback & Support	Technology Barriers
#of studies	5	1	1	2	4	1	1	3	1	4
(Clarke et al., 2017)										
(Lee et al., 2017)										
(Ahmed, Kevan A. Buckley, Robert Moreton, & Adel Elmaghraby, 2016)										
(Sodhi, Girouard, & Thue, 2023)										
(Bucchiarone, Bertoldo, & Favargiotti, 2021)										
(Gicquel et al., 2019)									x	
(Beutelspacher, Mainka, & Siebenlist, 2018)										
(Vicens et al., 2018)										x
(Bousios, Gavalas, & Lambrinos, 2017)					x					
(Gabriel & Schmölzer, 2022)										
(Schell & Kaufman, 2016)										x
(Bu, Liu, & Zhang, 2023)										
(Sampaio, Morgado, & Barbosa, 2012)										
(Sun, Liu, & Lu, 2023)										
(Fang & Cho, 2020)										
(Kongeseri & Coley, 2019)										
(Bossavit & Parsons, 2016)										
(Dargan & Evequoz, 2015)	x									
(De Francisco et al., 2024)										
(Pflanzl, Classe, Araujo, & Vossen, 2017)										
(Becker, Ksenia Koroleva, Diogo Vitorino, & Novak, 2019)										
(Iacovides, Jennett, Cornish-Trestrail, & Cox, 2013)										
(Rehm, Foth, & Mitchell, 2018)										
(Jin & Zhao, 2021)										
(Avolicino et al., 2022)								x		
(He & Zhang, 2022)										
(Foxman & Forelle, 2014)	x			x						
(Peitschl, Schantl, & Holzinger, 2014)										
(Thiel & Lehner, 2015)					x					
(Minge et al., 2014)										
(N. Prestopnik & Souid, 2013)										
(Mendez et al., 2019)			x							x
(Y. Li & Wang, 2023)										
(Hassan & Hamari, 2020)					x					
(Latifi, Monfared, & Khojasteh, 2022)										
(Sergeyeva, Bogomiyagkova, Orekh, & Kolesnik, 2020)					x					
(Fernandes & Junior, 2016)										
(Hassan & Nader, 2016)										
(Ortet, Costa, & Veloso, 2021)										
(Redondo, Giménez Navarro, & Fonseca, 2020)										
(Ronzhyn, Wimmer, Viale Pereira, & Alexopoulos, 2020)						x				
(Resek et al., 2024)							x			
(Hassan & Hamari, 2019)										
(Bowser et al., 2014)										
(N. R. Prestopnik & Crowston, 2011)								x		
(Martis, Bassano, Solari, & Chessa, 2017)										
(Hassan, 2017)	x	x								
(Wang, Cho, & Scheller-Wolf, 2021)										
(Quecker & Mariani, 2021)										
(Ai, Meng Li, & Liu, 2023)										
(Eveleigh et al., 2013)										
(Haase & Loebel, 2023)										
(Thiel, 2015)										
(Bhéreur-Lagounaris, 2016)										
(Gastil & Broghammer, 2021)				x						
(Zuo et al., 2023)										
(Vanolo, 2019)										
(Tenment, Pantidi, & Benford, 2016)	x									
(Thiel, Reisinger, Röderer, & Fröhlich, 2016)	x									
(N. R. Prestopnik & Tang, 2015)										
(Anastasopoulou, Kokolakis, & Andriotis, 2017)										
(Torres-Toukoumidis, Romero-Rodríguez, Aguaded, Pérez-Rodríguez, & Sandoval, 2017)										
(Liang et al., 2024)										
(Scherer, Wimmer, & Schepers, 2012)										
(Xu & Zheng, 2024)										
(Liu, Dong, An, & Guo, 2021)										
(Padilla-Zea et al., 2022)										
(Chian, 2023)										
(Moreira, Ferreira, Escudero, Pereira, & Duraao, 2020)										
(Abdollahian et al., 2013)										
(Romero-Hernandez, Gonzalez Riojo, Diaz-Faes-Perez, & Manero-Iglesias, 2018)										
(Willis & Parningotan Manik, 2022)										
(X. Li, Wu, Xie, & Wang, 2023)										
(Wagner & Minge, 2015)								x		
(Hantke et al., 2018)										
(Palacin-Silva et al., 2018)										x
(Gastil, 2023)										
(Briones et al., 2018)										