Pathways to social value and social change:
An integrative review of the social entrepreneurship literature

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APPENDIX A. Articles included in the review

APPENDIX B. Procedure and descriptive analysis of the articles

APPENDIX C. Dimensions identified during the review

APPENDIX A. Articles included in the review

No.	Author (year)	VHB JQ3	AJG 2018	Study type	Innovation type	Dominant level of analysis
1	Acs, Boardman, and McNeely (2013)	B	3	Qual	SE	Me/Ma
2	Agafonow (2014)	B	3	C	SE	Me/Ma
3	Agafonow (2015)	C	2	C	SE	Me
4	Agarwal, Chakrabarti, Brem, and Bocken (2018)	B	3	Qual	SE	Me/Ma
5	Agnihotri (2017)	C	1	C	RI	Me
6	Akingbola, Phaetthayanan, and Brown (2015)	B	1	Qual	SE	I/Me
7	Albert, Dean, and Baron (2016)	-	2	C	SE	Me
8	Alexandre-Leclair (2017)	C	2	Qual	SE	I/Me
9	Alexius and Furusten (2020)	B	3	Qual	SUE	I/Me/Ma
10	Alkire et al. (2020)	B	2	C	SE	I/Me
11	Altinay, Sigala, and Waligo (2016)	-	4	Qual	SE	Me
12	Alvord, Brown, and Letts (2004)	B	1	Qual	SE	Me/Ma
13	Anderson (1998)	-	2	C	EI	I/Ma
14	Anderson and Billou (2007)	C	1	Qual	other	Me/Ma
15	Andersson and Ford (2015)	-	2	Qual	SE	Me
16	Angeli and Jaiswal (2016)	B	2	Qual	BM	Me
17	Ansari, Munir, and Gregg (2012)	A	4	C	other	Me/Ma
18	Arenas, Struminska-Kutra, and Landoni (2020)	B	2	Qual	SUE	Me/Ma
19	Auerswald (2009)	-	-	C	SE	Me/Ma
20	Avelino et al. (2019)	B	3	Qual	SE	Ma
21	Azmat (2013)	C	2	C/Qual	SE	Me/Ma
22	Azmat, Ferdous, and Couchman (2015)	B	3	Qual	SE	Me/Ma
23	Babu et al. (2020)	B	3	Qual	SE	Me/Ma
24	Bacq and Eddleston (2018)	B	3	Quant	SE	Me/Ma
25	Bacq, Janssen, and Kickul (2011)	C	-	Quant	SE	Me/Ma
26	Bacq, Ofstein, Kickul, and Gundry (2015)	C	2	Quant	SE	Me
27	Ball and Kittler (2019)	B	3	Qual	multiple	Me/Ma
28	Banerjee and Jackson (2017)	B	4	Qual	other	I/Me
29	Barberá-Tomás, Castelló, de Bakker, and Zietsma (2019)	A+	4*	Qual	SE	I/Me/Ma
30	Barinaga (2013)	-	2	Qual	SE	Me/Ma
31	Battilana, Sengul, Pache, and Model (2015)	A+	4*	Qual/Quant	SE	Me
32	Beckmann and Zeyen (2014)	B	3	C/Qual	SE	Me
33	Bellostas, López-Arceiz, and Mateos (2016)	B	2	Quant	SE	Me

continued

34	Beltrán-Esteve and Picazo-Tadeo (2017)	B	2	Quant	EI	Ma
35	Ben Letaifa (2016)	B	1	Qual	SE	I/Ma
36	Bhatt, Qureshi, and Riaz (2019)	B	3	Qual/Quant	SE	I/Me/Ma
37	Biggs, Westley, and Carpenter (2010)	-	-	Qual	SE	Ma
38	Blake (2019)	-	1	Qual	SE	I/Me
39	Block and Paredis (2013)	B	2	Qual	other	I/Me/Ma
40	Bloom (2009)	B	3	C	SE	Me
41	Bloom and Chatterji (2009)	B	3	C/Qual	SE	Me
42	Bloom and Smith (2010)	-	2	Quant	SE	Me/Ma
43	Blundel and Lyon (2015)	-	2	Qual	SE	Me
44	Bocken, Fil, and Prabhu (2016)	B	2	Qual	SE	Me
45	Bocken, Short, Rana, and Evans (2014)	B	2	C	BM	Me
46	Bohnsack, Kolk, Pinkse, and Bidmon (2020)	B	2	Qual	SUE	Me/Ma
47	Boons and Lüdeke-Freund (2013)	B	2	C	SUE	Me
48	Bradach (2003)	-	-	C	other	Me
49	Bretos, Díaz-Foncea, and Marcuello (2020)	C	-	Qual	SE	Me/Ma
50	Caló et al. (2019)	-	4	Qual	SE	I/Me
51	Canal Vieira, Serrao-Neumann, and Howes (2019)	C	-	Qual	SE	Me/Ma
52	Carberry, Bharati, Levy, and Chaudhury (2019)	B	3	Quant	SE-C	Me/Ma
53	Carrillo-Hermosilla, Del Río, and Könnölä (2010)	B	2	Qual	EI	Me/Ma
54	Castellano, Khelladi, and Menvielle (2017)	C	2	Qual	multiple	I
55	Chandra (2016)	-	1	Qual/Quant	SE	I/Ma
56	Chandra (2017a)	A	4	Qual	SE	I/Me
57	Chandra (2017b)	-	2	Qual	SE	Me/Ma
58	Chandra (2019)	-	1	C	SE	Me/Ma
59	Cherrier, Goswami, and Ray (2018)	B	3	Qual	SE	Me/Ma
60	Cho (2006)	-	-	C	SE	Ma
61	Choi and Gray (2008)	C	2	Qual	SE	I/Me
62	Christensen, Baumann, Ruggles, and Sadtler (2006)	C	3	C	other	Me/Ma
63	Clyde and Karnani (2015)	B	3	C	other	Me/Ma
64	Cohen and Winn (2007)	A	4	C	SUE	Ma
65	Cook, Dodds, and Mitchell (2003)	-	-	C	other	Ma
66	Cornelius and Wallace (2013)	C	1	C	multiple	Me/Ma
67	Corner and Ho (2010)	A	4	Qual	SE	I/Me
68	Datta and Gailey (2012)	A	4	Qual	SE	I/Me
69	De Clercq and Honig (2011)	B	3	C	SE	I/Ma

continued

70	De Jesus and Mendonça (2018)	B	3	C	EI	Ma
71	de Jesus, Antunes, Santos, and Mendonça (2018)	B	2	C	EI	I/Me/Ma
72	De Ruysscher et al. (2017)	B	2	C	SE	I/Ma
73	Dean and McMullen (2007)	A	4	C	multiple	Ma
74	Dees (1998)	-	-	C	SE	Me
75	Dees and Anderson (2003)	-	-	C	SE	Me/Ma
76	Dees and Anderson (2006)	-	-	C	SE	Me/Ma
77	Dees, Anderson, and Wei-Skillern (2004)	-	-	C	SE	Me
78	Dembek, York, and Singh (2018)	B	2	Qual	BM	Me/Ma
79	Deng, Liang, Fan, and Cui (2020)	C	3	Quant	SE	Me/Ma
80	Desa (2012)	A	4	Qual	SE	Me/Ma
81	Desa and Koch (2014)	-	2	Qual	SE	Me/Ma
82	Dey and Steyaert (2016)	B	3	Qual	SE	I/Ma
83	Di Domenico, Haugh, and Tracey (2010)	A	4	Qual	SE	Me
84	Di Lorenzo and Scarlata (2019)	B	3	Quant	SE	Me/Ma
85	Diochon (2013)	-	2	Qual	SE	Me
86	Diochon and Anderson (2009)	-	1	C	SE	Me
87	Dobson, Boone, Andries, and Daou (2018)	B	2	Qual	SE	Me
88	Donaldson et al. (2011)	-	1	C	SE	Me/Ma
89	Douglas, Eti-Tofinga, and Singh (2018)	C	2	Qual	other	Me
90	Dufays and Huybrechts (2014)	-	2	C	SE	I/Me/Ma
91	Dyck and Silvestre (2018)	B	2	Qual	SUE	Me
92	Eichler and Schwarz (2019)	C	-	C	SE	Me/Ma
93	El Ebrashi and Darrag (2017)	B	1	Qual	SE	I/Ma
94	Eller et al. (2020)	B	2	Quant	SUE	I
95	Eng, Ozdemir, Gupta, and Kanungo (2020)	B	3	Qual	SE	Me/Ma
96	Esposito, Kapoor, and Goyal (2012)	C	2	Qual	BM	Me
97	Estrin, Mickiewicz, and Stephan (2013)	A	4	Quant	SE	I/Ma
98	Faludi (2020)	-	2	Qual/Quant	SE	I/Me/Ma
99	Farmer and Kilpatrick (2009)	-	4	Qual	SE	I/Me
100	Farmer et al. (2016)	-	1	Qual	SE	I/Me
101	Farmer et al. (2019)	-	2	Qual	SE	I/Me
102	Finlayson and Roy (2019)	-	1	Qual	multiple	Me
103	Fotheringham and Saunders (2014)	-	1	C	SE	I/Me
104	Foucrier and Wiek (2019)	C	-	C/Qual	SUE	I
105	Fougère and Meriläinen (2021)	B	2	C	SE	Me/Ma

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106	Fowler, Coffey, and Dixon-Fowler (2019)	B	3	Qual	SE	Me
107	Frank and Shockley (2016)	B	3	C	SE	I/Ma
108	Friedman and Desivilya (2010)	B	3	Qual	SE	Me/Ma
109	Galvin and Iannotti (2015)	B	2	Qual	SE	I/Me
110	García-Pozo, Sánchez-Ollero, and Ons-Cappa (2016)	B	2	Quant	EI	Ma
111	Gasbarro, Annunziata, Rizzi, and Frey (2017)	B	2	Qual	SUE	Me/Ma
112	Gasbarro, Rizzi, and Frey (2018)	C	2	Qual	SUE	Me/Ma
113	Gast, Gundolf, and Cesinger (2017)	B	2	C	EI	I/Me/Ma
114	Gauthier, Cohen, and Meyer (2019a)	-	2	C	SE	I/Me
115	Gauthier, Ruane, and Berry (2019b)	C	1	Qual	SE	Me
116	George, McGahan, and Prabhu (2012)	A	4	C	II	Me/Ma
117	Ghauri, Tasavori, and Zaefarian (2014)	B	3	Qual	SE-C	Me/Ma
118	Gibbs (2008)	D	-	C	multiple	I/Ma
119	Gidron (2014)	-	2	C	SE	Me
120	Gordon, Wilson, Tonner, and Shaw (2018)	C	2	Qual	SE	I/Me
121	Gregori and Holzmann (2020)	B	2	Qual	SUE	Me
122	Gupta, Kumar, and Karam (2020)	B	3	C	SE	Me/Ma
123	Hackett (2016)	-	2	Qual/Quant	SE	Me/Ma
124	Hahn (2012)	C	2	C	II	Me
125	Hall, Matos, and Bachor (2019)	B	3	Qual	EI	Me/Ma
126	Hall, Matos, Sheehan, and Silvestre (2012)	A	4	Qual	multiple	Me/Ma
127	Halme, Lindeman, and Linna (2012)	A	4	Qual	II	I/Me
128	Hamby, Pierce, and Brinberg (2017)	C	2	Qual	SE	Me/Ma
129	Haugh (2005)	C	2	C	SE	Me/Ma
130	Haugh (2006)	-	-	Qual	SE	I/Me/Ma
131	Haugh and Talwar (2016)	B	3	Qual	SE	I/Me/Ma
132	Hazenberg, Seddon, and Denny (2014)	B	3	Quant	SE	I/Me
133	Hermans, Roep, and Klerkx (2016)	B	3	Qual	other	Ma
134	Hermes, Lensink, and Meesters (2011)	-	-	Quant	other	Me/Ma
135	Herrera (2016a)	B	3	Qual	other	Me/Ma
136	Herrera (2016b)	B	3	Qual	SE	I/Me/Ma
137	Heyworth-Thomas and Jones (2019)	C	2	Qual	SE	I/Me
138	Hillman, Axon, and Morrissey (2018)	B	2	Qual	SE	Me/Ma
139	Hlady Rispal and Servantie (2017)	C	3	Qual	multiple	Me
140	Hlady-Rispal and Servantie (2018)	B	3	C	SE	I/Me/Ma
141	Hockerts and Wüstenhagen (2010)	A	4	C	SUE	Me/Ma

continued

142	Holt and Littlewood (2015)	B	3	C/Qual	SE	Me
143	Hoogendoorn, van der Zwan, and Thurik (2019)	B	3	Quant	multiple	I/Ma
144	Horne et al. (2020)	B	2	Quant	SUE	Me/Ma
145	Hynes (2009)	-	1	Qual	SE	Me
146	Ilieva and Hernandez (2018)	C	-	Qual	other	Ma
147	Imaz and Eizagirre (2020)	C	-	C	RI	Me/Ma
148	Jain and Koch (2020)	B	3	Qual	SE	Me/Ma
149	Janssen and Moors (2013)	B	3	Qual	SUE	I/Ma
150	Jarrodi, Byrne, and Bureau (2019)	B	3	Qual	SE	I/Ma
151	Jensen and Fersch (2019)	C	2	Qual	SE	I/Me/Ma
152	Johnson and Schaltegger (2020)	A	4	C	SUE	I/Me/Ma
153	Kay, Roy, and Donaldson (2016)	-	1	C	SE	Me/Ma
154	Khan (2012)	C	2	Qual	SE	I/Me
155	Khan and Melkas (2020)	C	2	Qual	SE	Me
156	Khare and Joshi (2018)	-	2	Qual	SE	Me
157	Khavul and Bruton (2013)	A	4	C/Qual	SUE	Me/Ma
158	Kickul, Griffiths, Bacq, and Garud (2018)	B	3	Quant	multiple	Me
159	Kim and Lim (2017)	C	-	C	SE	Me/Ma
160	Kimmitt and Muñoz (2018)	C	3	Qual	SE	I/Ma
161	Kirwan, Ilbery, Maye, and Carey (2013)	-	3	Qual	other	Me/Ma
162	Klein Woolthuis (2010)	C	-	Qual	SUE	I/Ma
163	Kokko (2018)	-	1	Qual	SE	Me/Ma
164	Korsgaard and Anderson (2011)	C	3	Qual	other	Me
165	Kroeger and Weber (2014)	A+	4*	C	SE	Me/Ma
166	Krupa, Sabetti, and Lysaght (2019)	-	1	Qual	SE	I/Me
167	Kunapatarawong and Martínez-Ros (2016)	A	4*	Quant	EI	Me
168	Kuratko, McMullen, Hornsby, and Jackson (2017)	C	2	Quant	SE-C	Me
169	Kury (2014)	B	1	C	SE	I/Ma
170	Lan, Zhu, Ness, Xing, and Schneider (2014)	C	2	Qual	SE	I/Me
171	Lautermann (2013)	-	1	C	SE	Me/Ma
172	Lazzarini (2020)	A+	4*	C	SE	Me/Ma
173	Lettice and Parekh (2010)	C	2	Qual	SE	I/Me/Ma
174	Leung et al. (2019)	-	2	Qual/Quant	SE	I/Me
175	Levander (2010)	-	2	Qual	SE	Ma
176	London (2008)	C	2	C	other	I/Me
177	Lorenzo-Afable, Lips-Wiersma, and Singh (2020)	-	1	Qual	SE	I

continued

178	Luke and Chu (2013)	C	3	Qual	SE	Me/Ma
179	Lumpkin, Bacq, and Pidduck (2018)	B	3	C	SE	Me
180	Lumpkin, Moss, Gras, Kato, and Amezcua (2013)	B	3	C	SE	Me/Ma
181	Lyon and Fernandez (2012)	-	1	Qual	SE	Me
182	Maak and Stoetter (2012)	B	3	Qual	SE	I/Me
183	Maak, Pless, and Voegtlin (2016)	A	4	C	SE	I/Me
184	Macaulay, Mazzei, Roy, Teasdale, and Donaldson (2018)	-	4	Qual	SE	I/Me
185	Maclean, Harvey, and Gordon (2013)	C	3	Qual	SE	Me
186	Madill, Brouard, and Hebb (2010)	C	1	Qual	SE	Me
187	Maestripieri (2017)	-	2	Quant	SE	I
188	Mair and Marti (2009)	A	4	Qual	other	Me/Ma
189	Mair and Schoen (2007)	-	1	Qual	SE	Me
190	Mair, Battilana, and Cardenas (2012)	B	3	Qual/Quant	SE	Me
191	Mair, Marti, and Ventresca (2012)	A+	4*	Qual	SE	Ma
192	Marcy (2015)	A	4	Qual	SE	I/Me
193	Mars (2009)	C	1	Qual	other	Me/Ma
194	Maseno and Wanyoike (2020)	-	2	Qual	SE	I/Me/Ma
195	McCarthy (2012)	B	3	Qual	SE	Ma
196	McMullen (2011)	A	4	C	other	Ma
197	McWilliams and Siegel (2011)	A	4*	C	other	Me
198	Meltzer, Kayess, and Bates (2018)	-	1	Qual	SE	I
199	Mendoza-Abarca and Mellema (2016)	-	2	C	SE	Me
200	Mintrom and Thomas (2018)	B	1	C	other	I/Ma
201	Molecke and Pinkse (2020)	B	4	Qual	SE	Me/Ma
202	Molnár (2017)	-	2	Qual	SE	Me
203	Monaghan (2009)	B	3	Qual	other	Ma
204	Mongelli and Rullani (2017)	B	2	C	SE	Me/Ma
205	Montgomery, Dacin, and Dacin (2012)	B	3	C	SE	Ma
206	Moore, Riddell, and Vocisano (2015)	C	1	Qual	SE	Ma
207	Mueller, Chambers, and Neck (2013)	C	1	Qual	SE	I/Me
208	Mulgan, Tucker, Ali, and Sanders (2007)	-	-	C	SE	Me
209	Munoz, Farmer, Winterton, and Barraket (2015)	-	1	Qual	SE	I/Me
210	Mzembe, Novakovic, Melissen, and Kamanga (2019)	C	1	Qual	SE	Me/Ma
211	Narangajavana, Gonzalez-Cruz, Garrigos-Simon, and Cruz-Ros (2016)	B/C	1	C	SE	Ma
212	Newbert and Hill (2014)	-	2	C	SE	Ma

continued

213	Newey (2018)	-	2	C	SE	Ma
214	Ney, Beckmann, Graebnitz, and Mirkovic (2014)	B	1	C	SE	Ma
215	Nikolaou, Tasopoulou, and Tsagarakis (2018)	C	1	C	EI	I/Me
216	Nwankwo, Phillips, and Tracey (2007)	B	3	Qual	CE	Me/Ma
217	O'Neil and Ucbasaran (2016)	A	4	Qual	EI	I/Me
218	O'Shaughnessy, Casey, and Enright (2011)	-	1	Qual	CE	I/Me
219	Ormiston and Seymour (2011)	-	2	Qual	SE	Me
220	Oskam, Bossink, and de Man (2021)	B	3	Qual	SUE	Me/Ma
221	Pacheco, Dean, and Payne (2010)	A	4	C	SUE	Ma
222	Pal and Gander (2018)	B	2	C	BM	Me/Ma
223	Pansera and Sarkar (2016)	C	-	Qual	multiple	Me/Ma
224	Pareja-Cano, Valor, and Benito (2020)	-	2	Qual	SE	I/Me
225	Parkinson and Howorth (2008)	B	3	Qual	SE	I/Ma
226	Parrish and Foxon (2009)	D	-	Qual	SUE	Me/Ma
227	Pastakia (1998)	-	2	Qual	multiple	Me/Ma
228	Peerally, De Fuentes, and Figueiredo (2019)	B	3	Qual	II	Me
229	Pel et al. (2020)	A	4*	C	SE	Ma
230	Peng and Liu (2016)	B	2	Quant	EI	I/Me
231	Peredo and Chrisman (2006)	A+	4*	C	CE	Me/Ma
232	Perrini and Vurro (2006)	-	-	Qual	SE	I/Me/Ma
233	Phillips (2013)	B	3	Qual	EI	I
234	Phills, Deiglmeier, and Miller (2008)	-	-	C	SE	Me/Ma
235	Pinkse and Groot (2015)	A	4	Qual	SUE	Me/Ma
236	Pirson (2012)	-	1	Qual	SE	Me
237	Porter and Kramer (2011)	C	3	C	SE	Me/Ma
238	Purtik and Arenas (2019)	B	3	Qual	multiple	Me/Ma
239	Quelin, Kivleniece, and Lazzarini (2017)	A	4	C	other	Me
240	Quilley (2012)	-	2	C	multiple	Ma
241	Rahdari, Sepasi, and Moradi (2016)	B	2	C	SE	I/Me/Ma
242	Ramani, SadreGhazi, and Gupta (2017)	B	3	Qual	SE	I/Me/Ma
243	Rangan and Gregg (2019)	B	3	C/Qual	SE	Me/Ma
244	Rennings, Ziegler, and Zwick (2004)	B	3	Quant	EI	Me
245	Ricciardelli et al. (2020)	C	1	Qual	SE	Me/Ma
246	Rosca, Arnold, and Bendul (2017)	B	2	Qual	multiple	Me
247	Rotheroe and Miller (2008)	-	1	Qual	SE	I/Me
248	Rotmans (2005)	-	-	C	other	Ma

continued

249	Roundy and Bonnal (2017)	C	1	C	SE	Me/Ma
250	Roy, Baker, and Kerr (2017)	-	4	Qual	SE	I/Me
251	Roy, Donaldson, Baker, and Kerr (2014)	-	4	C	SE	I/Me
252	Roysen and Mertens (2019)	B	2	Qual	other	Me/Ma
253	Ruebottom (2013)	A	4	Qual	SE	I/Me
254	Sakarya, Bodur, Yildirim-Öktem, and Selekler-Göksen (2012)	B	3	Qual	other	Me/Ma
255	Sandeep and Ravishankar (2015)	-	3	Qual	SE	I/Me
256	Santos (2012)	B	3	C	SE	Me/Ma
257	Santos, Pache, and Birkholz (2015)	B	3	C	SE	Me/Ma
258	Sarason and Dean (2019)	B	3	Qual	SUE	Me/Ma
259	Sardana, Bamiatzi, and Zhu (2019)	C	3	Qual	SE	I/Me
260	Sarkar (2018)	B	3	Qual	other	I/Me
261	Sarracino and Fumarco (2020)	B	3	Quant	SE	I/Me/Ma
262	Schaefer, Corner, and Kearins (2015)	B	2	C	multiple	Ma
263	Schaefer, Kearins, and Corner (2020)	-	2	Qual	SE	I/Me
264	Schaltegger, Beckmann, and Hockerts (2018a)	B	1	C	SUE	I/Me/Ma
265	Schaltegger, Beckmann, and Hockerts (2018b)	B	1	C	SUE	Ma
266	Schaltegger, Lüdeke-Freund, and Hansen (2016)	B	2	C	SUE	Me/Ma
267	Scherer and Voegtlin (2020)	B	3	C	RI	Me/Ma
268	Scheuerle and Schmitz (2016)	-	2	Qual	SE	I/Me/Ma
269	Schreiner (2002)	-	2	C	other	Ma
270	Seddon, Hazenberg, and Denny (2014)	-	1	Qual	SE	I/Me
271	Seelos and Mair (2005)	C	2	C	SE	Me/Ma
272	Seyfang and Haxeltine (2012)	-	3	Qual/Quant	other	Me/Ma
273	Shepherd and Patzelt (2011)	A	4	C	multiple	Me/Ma
274	Shier and Handy (2015)	B	2	Qual/Quant	SE	Me/Ma
275	Shin (2018)	C	-	Quant	SE	Me
276	Sica (2016)	C	-	C	EI	Ma
277	Sigala (2019)	C	3	Qual	SE	Me/Ma
278	Sinkovics, Sinkovics, and Yamin (2014)	B	3	Qual	SE	Me
279	Siqueira and Pitassi (2016)	B	2	C	multiple	I/Me
280	Smith and Nemetz (2009)	C	-	Qual	SE	Me/Ma
281	Smith and Stevens (2010)	B	3	C	SE	Me/Ma
282	Son, Lee, and Chung (2018)	C	-	Quant	SE	Me
283	Spieth, Schneider, Clauß, and Eichenberg (2019)	B	3	Qual	multiple	Me
284	Srivetbodee, Igel, and Kraisornsuthasinee (2017)	-	2	Qual	SE	Me/Ma

continued

285	Steinfield and Holt (2019)	A	4	Qual	SE	Me/Ma
286	Stephan, Patterson, Kelly, and Mair (2016)	A	4*	C	other	I/Me
287	Sud, VanSandt, and Baugous (2009)	B	3	C	SE	Ma
288	Sundaramurthy, Musteen, and Randel (2013)	C	-	Qual	SE	I/Me/Ma
289	Sunio, Laperal, and Mateo-Babiano (2020)	B	3	Qual	SE	Me/Ma
290	Surie (2017)	B	3	Qual	SE	Ma
291	Tabares (2020)	B	2	Qual	SE-C	Me/Ma
292	Tasavori, Kwong, and Pruthi (2018)	B	3	Qual	SE	Me/Ma
293	Tate and Bals (2018)	B	3	Qual	SE	Me
294	Teasdale (2010)	C	1	Qual	multiple	Me
295	Tello-Rozas (2016)	B	2	Qual	II	Me/Ma
296	Thompson (2002)	C	1	C	SE	I/Me
297	Thompson, Herrmann, and Hekkert (2015)	B	2	Qual	SUE	I/Ma
298	Thorgren and Omorede (2018)	B	3	Qual	SE	I/Me
299	Tiba, van Rijnsoever, and Hekkert (2020)	B	2	Qual	SUE	Me/Ma
300	Tilley and Young (2006)	D	-	C	SUE	Ma
301	Torres and Augusto (2020)	B	3	Quant	SE	Ma
302	Trivedi (2010)	C	1	C	SE	Me/Ma
303	Trivedi and Misra (2015)	C	1	C	SE	Me/Ma
304	Trivedi and Stokols (2011)	C	1	C	SE	I/Me
305	Urban (2015)	C	1	Quant	SE	I/Me
306	Valentinov (2015)	C	2	C	SE	Me/Ma
307	van Geenhuizen and Ye (2014)	B	3	Quant	RI	Me/Ma
308	van Lunenburg, M., Geuijen, K. and Meijer, A. (2020)	B	2	C	multiple	Me/Ma
309	Van Slyke and Newman (2006)	B	1	Qual	other	I/Me
310	VanSandt, Sud, and Marmé (2009)	B	3	C	SE	Me
311	van Wijk et al. (2019)	B	3	C	SE	I/Me/Ma
312	Varadarajan and Kaul (2017)	B	3	C	other	Me/Ma
313	Venugopal and Viswanathan (2019)	A	4	Qual	SE	Me/Ma
314	Vickers and Lyon (2014)	C	3	Qual	SE	Me/Ma
315	Vidal (2005)	C	2	Qual	SE	Me
316	Voegtlin and Scherer (2017)	B	3	C	RI	Ma
317	Voltan and De Fuentes (2016)	C	1	Qual	SE	Me
318	von Jacobi and Chiappero-Martinetti (2017)	-	2	Qual/Quant	SE	I/Ma
319	Waddock and Post (1991)	B	4*	C	SE	I/Ma
320	Waldron, Fisher, and Pfarrer (2016)	A	4	C	SE	I/Ma

continued

321	Walk, Greenspan, Crossley, and Handy (2015)	B	1	Quant	SE	Me
322	Wallace (1999)	C	-	C	SE	Me/Ma
323	Walley and Taylor (2002)	D	-	C	EI	I/Me
324	Walske and Tyson (2015)	C	2	Qual	SE	Me
325	Weaver (2018)	-	2	C	SE	Me/Ma
326	Weber, Kröger, and Lambrich (2012)	C	-	C	SE	Me
327	Weber, Wallace, and Tuschke (2013)	C	-	Quant	SE	Me
328	Weerawardena and Mort (2006)	B	4	Qual	SE	Me
329	Weidner, Rosa, and Viswanathan (2010)	B	3	C	SE	Me
330	Westley and Antadze (2010)	-	-	C	SE	Ma
331	Westley, Antadze, Riddell, Robinson, and Geobey (2014)	B	1	Qual	SE	Me/Ma
332	Wilson (2012)	C	2	C	multiple	Me/Ma
333	Wilson and Post (2013)	B	3	Qual	SE	Me
334	Witkamp, Raven, and Royakkers (2011)	C	2	Qual	SE	Ma
335	Witkamp, Royakkers, and Raven (2011)	B	2	Qual	SE	Ma
336	Wry and Haugh (2018)	A	4	C	SE	Me/Ma
337	Wry and Zhao (2018)	A+	4*	Quant	SE	Me/Ma
338	Yang, Evans, Vladimirova, and Rana (2017)	B	2	Qual	BM	Me
339	York and Venkataraman (2010)	A	4	C	EI	Me/Ma
340	Young (2006)	-	-	C	SE	Ma
341	Yujuico (2008)	B	3	C	SE	I/Me
342	Zahra, Gedajlovic, Neubaum, and Shulman (2009)	A	4	C	SE	I/Ma
343	Zahra, Newey, and Li (2014)	A	4	C	SE	Me/Ma
344	Zhang, Peng, Ma, and Shen (2017)	B	2	Quant	EI	Ma
345	Zhao and Han (2020)	-	2	Qual	SE	Me/Ma
346	Ziegler (2010)	-	2	C	SE	Ma
347	Ziegler, Schulz, Richter, and Schreck (2014)	C	-	Qual	SE	Me/Ma

Note: Study type: C=Conceptual, Qual=Qualitative, Quant=Quantitative; Innovation type: SE=Social Entrepreneurship/Social Innovation, SUE=Sustainable Entrepreneurship, EI=Environmental Entrepreneurship/Environmental Innovation, CE=Community Entrepreneurship, RI=Responsible Innovation, II=Inclusive Innovation, BM=Business Model Innovation, SE-C=Corporate Social Entrepreneurship; Level of analysis: I=Individual, Me=Meso (Organizational, Community, Product), Ma=Macro (Society, System, Market)

APPENDIX B. Procedure and descriptive analysis of the articles

We began by searching four scientific databases (i.e., EBSCO Host, Web of Science Core Collection, Scopus, ScienceDirect) for relevant studies. Following prior work (e.g., van Lunenburg et al. 2020), we identified keyword combinations that collectively encompass social entrepreneurship and related concepts (e.g., social innovation). We included the following keywords: "(soc* OR sustainab* OR environ* OR eco* OR green* OR ethic* OR responsib*) AND (entre* OR enter* OR inno* OR intrapren* OR idea OR invention OR "novel solution" OR organization)," "hybrid AND (entre* OR enter*)," "(soc* OR hybrid) AND (venture OR company OR firm OR business OR organization)," "community business," "community enter*," "ethics of innovation," "inno* AND (SDG OR "sustainable development goals" OR "grand challenges" OR CSR OR "corporate social responsibility" OR "millennium development goals" OR "planetary boundaries")," "innovative work behavior," "corporate soc* inno*." Because we aimed to scan the social entrepreneurship literature broadly, we did not add additional keywords related to the research questions (e.g., "social value" or "social change"). All articles that address our research questions are therefore a subset of articles resulting from this search. This search took place in two waves. We conducted the first wave by the end of 2018 and the second wave by 2020 to update the search. After deleting duplicates, non-English articles, articles in journals with no management or business focus and articles in journals that received a VHB-JOURQUAL 3 ranking below C, 5,745 articles remained. See https://vhbonline.org/vhb4you/vhb-jourqual/vhb-jourqual-3/gesamtliste for the VHB ranking, which is among the most important journal rankings in management (https://harzing.com/resources/journal-quality-list).

At this point, we scanned the titles and deleted articles that were not related to social entrepreneurship. Then we scanned the abstracts of the remaining articles and deleted those whose abstracts did not refer to positive effects of social entrepreneurship. For the remaining

176 articles, we checked the references (backward search) and citations (forward search), and included relevant publications in journals with at least a C ranking or articles that had been cited more than 100 times to account for important work in lower-ranked journals. We also included articles from the topic journals *Journal of Social Entrepreneurship* and *Social Enterprise Journal*. These procedures resulted in 171 additional articles.

We included such a large number of additional articles for several reasons. First, several articles related to social entrepreneurship use wordings which our database search did not capture (e.g., "social and commercial entrepreneurship," "innovation for impact," "sustainability-oriented"). Second, some articles were published in non-management, non-business, or non-academic journals. Third, several articles only referred to, for example, social value or entrepreneurship in their titles and abstracts without obvious links to our research questions. Only through citations of such articles in other articles did their relation to our research questions become clear, leading us to include them.

For data synthesis, we followed templates for systematic literature reviews in management research (Saebi et al. 2019, Stephan et al. 2016). We proceeded with the analysis as follows: first, one author read through each article and systematically extracted relevant descriptive information (in categories such as publication year, journal, VHB-JOURQUAL 3 journal ranking, study type, sample, sample size, sample country, sample industry) and content-related information (in categories such as innovation type, definition of [social] entrepreneurship, definition of positive societal effects, pathways to positive societal effects, theoretical lens, level of analysis). The content-related categories were derived from our research questions and the core constructs of interest. Eight coders not involved in the research project performed the same procedure for 30 articles each. By comparing the information extracted by the two coders for each article, we established that our procedure

reliably extracted relevant information for the descriptive and content-related categories. At this point, the first author extracted information from the remaining articles.

Next, from the information gathered for the content-related categories, we further identified central keywords and arguments for each article. For example, from the following excerpt, "In general, the human capital of a community is increased by SE [social entrepreneurship] efforts that provide skills training, extend formal education, arrange managerial experience, and increase exposure to entrepreneurial practices that promote self-sufficiency (Bates 1990)" (Lumpkin et al. 2018, p.29), we extracted "training and education" (a subdimension of "developing human capital and social capital") as a pathway to social value. In this way, we generated a condensed overview of the core points of each article with reference to our research questions.

In a final step, we synthesized the findings across articles. After mapping the core points of each article, we grouped them into central constructs and pathways, and graphically related the identified dimensions to each other. This enabled us to conceptualize two core constructs of positive societal effects (i.e., social value and social change) and synthesize different pathways leading to these effects. To address our first research question, we identified six dimensions that distinguish social value and social change. To address our second research question, we identified three social value pathways with nine subdimensions, and four social change pathways with six subdimensions.

Our final sample includes 347 articles. Our analysis shows that the research field on social entrepreneurship is still quite nascent and only recently gained momentum (see Figure 1). Although articles have appeared in 100 different journals, the 10 journals with the most articles related to our topics accounted for 44 percent of our sample: *Journal of Social Entrepreneurship* (33), *Journal of Cleaner Production* (23), *Social Enterprise Journal* (20), *Journal of Business Ethics* (19), *Sustainability* (12), *Journal of Business Venturing* (11),

Entrepreneurship & Regional Development (10), *Entrepreneurship: Theory & Practice* (10), *Journal of Management Studies* (8), and *Journal of Business Research* (7) (see Figure 2). Articles were mostly published in field journals and less in general management journals. In terms of journal ranking (see Figure 3a and 3b), most articles (139) appear in journals with a VHB-JOURQUAL 3 ranking of B, followed by "not ranked" (84) and C (76). Only 43 articles are published in journals ranked A+ or A. Similarly, most articles are published in journals ranked 2 (106) or 3 (94) according to the AJG 2018 journal ranking and only 53 articles are ranked 4* or 4. Methodologically, most articles are qualitative (175), followed by conceptual (123) and quantitative (32) (see Figure 4a). The remaining articles are based on mixed methodologies (17). Samples come most often from Europe (74), followed by Asia and the Middle East (50), and North America and the Caribbean (28) (see Figure 4b). A total of 41 articles included multiple continental regions. Research from Africa and South and Middle America seems notably absent. This is especially worrying, as developing countries would benefit from contextual research on the drivers and success factors of social innovation.

In our keyword searches, we included not only the specific terms "social innovation" and "social entrepreneurship," but also terms that are conceptually related to social innovation. The most frequently used terms are social entrepreneurship and social innovation (224 articles) (see Figure 5a). Several articles are concerned with sustainable entrepreneurship or sustainable innovation (28) and environmental entrepreneurship or environmental innovation (18). Other types of innovation include business model innovation (6), responsible innovation (5), inclusive innovation (5) or community entrepreneurship (3). Only 4 articles specifically address corporate social innovation (or intrapreneurship).

Moreover, 7 articles focus on the micro level of analysis; 74 articles focus on the meso level; and 41 articles focus on the macro level (see Figure 5b). The remaining articles include

more than one level of analysis (225), especially the meso and macro levels (124). Only 24 of these multilevel articles span all three levels of analysis.

Figure 1: Number of articles per year

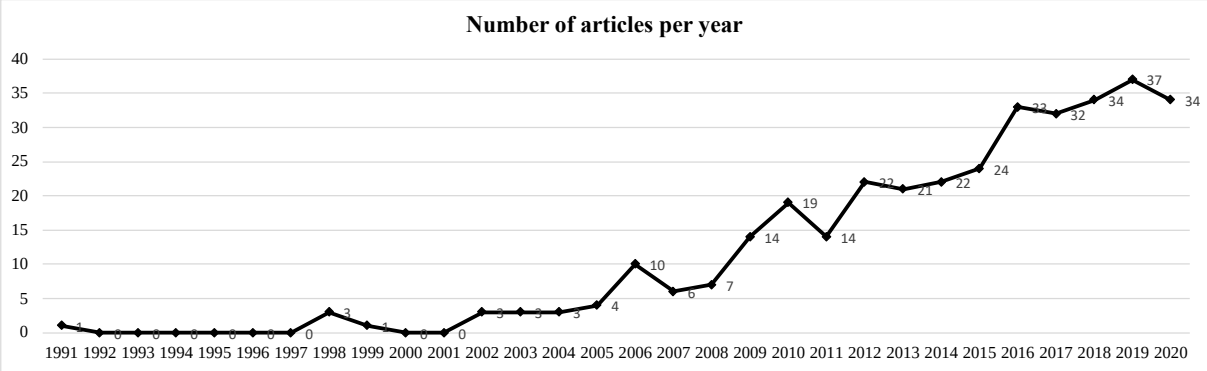


Figure 2: Number of articles per journal

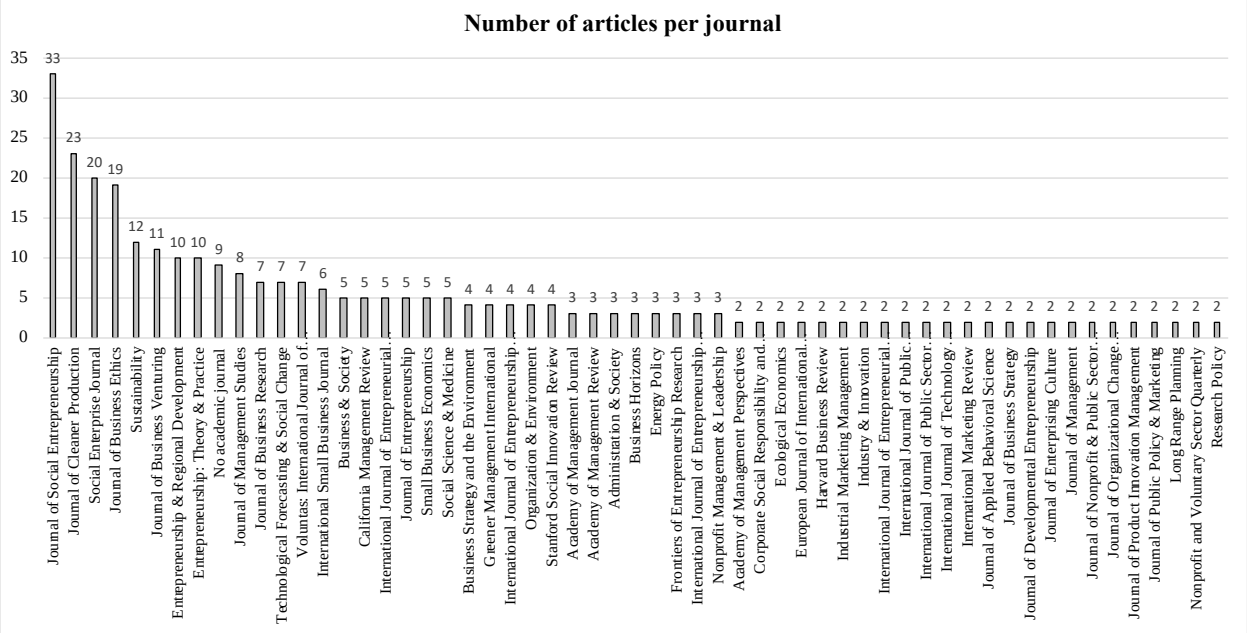
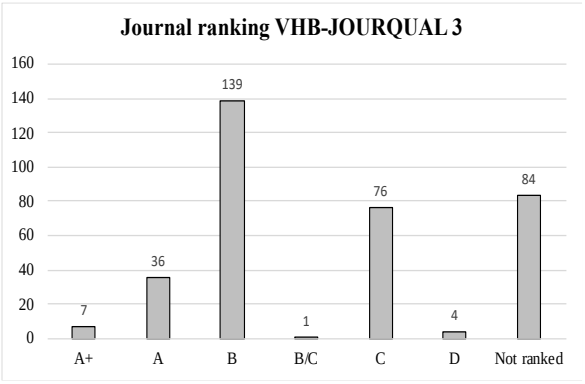


Figure 3a and 3b: Journal rankings



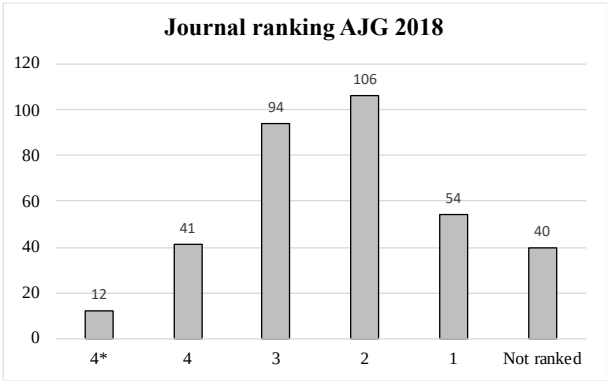
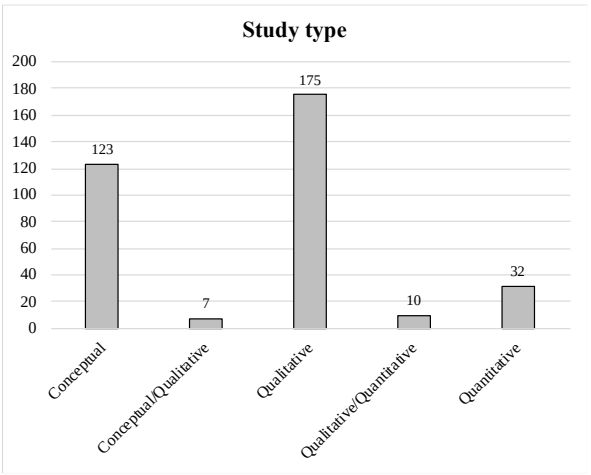


Figure 4a and 4b: Study and sample characteristics



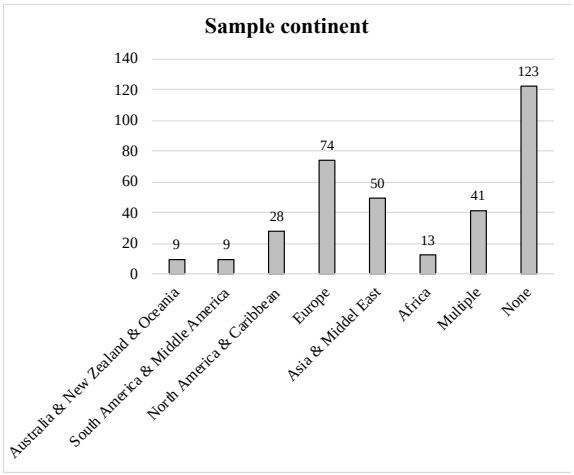
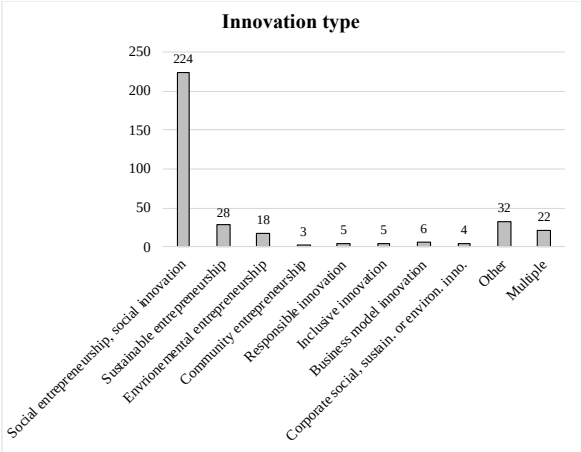
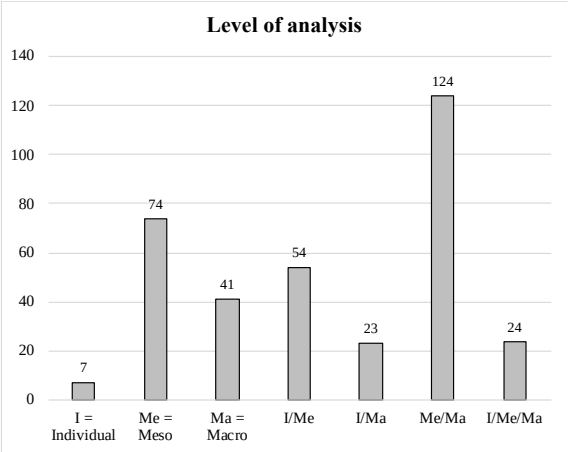


Figure 5a and 5b: Innovation type and level of analysis





APPENDIX C. Dimensions identified during the review

Dimension	Subdimensions
Social value and social change differentiating dimensions	▪ Type of positive societal effect ▪ Depth of positive societal effect ▪ Timeline for positive societal effect ▪ Beneficiaries ▪ Level of analysis (where benefits are created) ▪ Outcomes studied

Social value creation pathways	▪ Providing new products and services that serve needs (beneficiary as consumer)
	  ▪ Creating access to social innovation (e.g., lowering of prices)
	  ▪ Creating awareness about social innovation (e.g., information provision about benefits)
	  ▪ Creating of acceptance of social innovation (e.g., attitude and practice change at individual level)
	▪ Providing capital and resources through new business models (beneficiary as producer)
	  ▪ Providing financial and physical capital
	  ▪ Providing human and social capital
	▪ Developing human capital and social capital (guidance for self-help, co-creation)
	  ▪ Training and education
	  ▪ Opportunity recognition
	  ▪ Social inclusion and participation
	  ▪ Community spillovers, capital diffusion

Social change pathways	▪ Reducing social and environmental costs
	  ▪ Internalizing negative externalities through pricing and property rights (e.g., price premiums for social costs, cost advantages for social benefits)
	  ▪ Reducing negative externalities through technology and business model changes (e.g., replacing worse alternatives)
	▪ Producing and internalizing positive externalities (capturing the value of positive externalities reduces competitive disadvantages)
	▪ Matching demand with supply (market creation and market inclusion, i.e., including new suppliers and customer segments)
	▪ Stimulating other market actors to change (during an opportunity window)
	  ▪ Internal growth and partnerships (adapted replication)
	  ▪ Supply side stimulation (competitive pressure, uncertainty reduction, resource transfer)
	  ▪ Demand side stimulation (change of consumption patterns and practices on a larger scale)
	  ▪ Political and societal stimulation (shift in normative, regulative, and cognitive legitimacy)

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