

Qualitative meta-analysis of barriers and drivers of agroecological transition

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Electronic supplementary material (ESM)

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Table S1. Keywords and Boolean operators used in the searches

Keywords and Boolean operators	First phase	Second phase	Third phase	Fourth phase
TITLE-ABS-KEY (((Adoption OR Decision OR Behavior) AND (Farmer OR Farmers) AND (Agri-environmental AND Schemes OR Stewardship OR Programme) AND (European AND Union)))	50	44	38	10
TITLE-ABS-KEY (((Adoption OR Decision OR Behavior OR Participation OR Choice) AND (Farmer OR Farmers OR Farm) AND (Agri-environmental AND Schemes OR Stewardship OR Measures OR Contracts)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania') OR LIMIT-TO (AFFILCOUNTRY, 'Norway'))))	397	366	227	20
TITLE-ABS-KEY (((Farmer AND Choice AND Experiment)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania') OR LIMIT-TO (AFFILCOUNTRY, 'Norway'))))	488	459	153	9
TITLE-ABS-KEY ((Agri-environmental AND Scheme AND Logit))	22	21	20	2

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Table S1 To be continued

Keywords and Boolean operators	First phase	Second phase	Third phase	Fourth phase
TITLE-ABS-KEY (((Ecosystem AND Services) AND (Choice AND Experiment)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania') OR LIMIT-TO (AFFILCOUNTRY, 'Norway'))))	315	284	239	4
TITLE-ABS-KEY ((Contingent AND Valuation) AND (Farm OR Farmer OR Landowner)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania') OR LIMIT-TO (AFFILCOUNTRY, 'Norway'))))	222	204	74	3
TITLE-ABS-KEY (((Organic) OR (Conservation AND Practices) AND (Farm OR Farming) AND (Logit OR Probit)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania') OR LIMIT-TO (AFFILCOUNTRY, 'Norway'))))	101	98	51	8

4 Table S1 To be continued

Keywords and Boolean operators	First phase	Second phase	Third phase	Fourth phase
TITLE-ABS-KEY (((Integrated AND Production) OR (Conservation AND Agriculture) AND (Probit) OR (Structured AND Questionnaire)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania') OR LIMIT-TO (AFFILCOUNTRY, 'Norway'))))	94	89	16	2
Total	1687	1565	818	58

Source: Authors' elaboration

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Table S2. Characteristics of the studies included in the structured literature review (SLR)

Reference	Data	Samples	Measure	Crops	Countries	Econometric specification	Pro-environmental behaviour	Journal (impact)
Vanslebrouck et al. (2002)	primary	390	agri-environmental		Belgium	binary probit	self-reported intention to adopt (contingent valuation)	Journal of Agricultural Economics (Q1)
Amigues et al. (2002)	primary	362	agri-environmental		France	binary probit	self-reported intention to adopt (contingent valuation)	Ecological Economics (Non-Q1)
Damianos and Giannakopoulos (2002)	primary	237	agri-environmental		Greece	binary probit	self-reported adoption (traditional discrete choice)	British Food Journal (Non-Q1)
Dupraz et al. (2002)	primary	1 638	organic		Austria, Belgium, France, Germany, Greece, Italy, Sweden and United Kingdom	multinomial logit	self-reported adoption (traditional discrete choice)	International 10th Congress, European Association of Agricultural Economists (Non-Q1)
Mathijs (2003)	Primary	36	agri-environmental		Belgium	multivariate probit	self-reported adoption (traditional discrete choice)	Outlook on Agriculture (Non-Q1)
Wossink and van Wenum (2003)	primary	250	agri-environmental		The Netherlands	binary probit	self-reported intention to adopt (contingent valuation)	European Review of Agricultural Economics (Q1)
Sayadi et al. (2005)	primary	246	agri-environmental	avocado	Spain	ordered probit	self-reported adoption (traditional discrete choice)	Spanish Journal of Agricultural Research (Non-Q1)
Parra-López and Calatrava-Requena (2005)	primary	322	agri-environmental	olive groves	Spain	binary logit	self-reported adoption (traditional discrete choice)	Spanish Journal of Agricultural Research (Non-Q1)
Genius et al. (2006)	primary	237	organic		Greece	trivariate ordered probit	self-reported adoption (traditional discrete choice)	Journal of Agricultural and Resource Economics (Non-Q1)

Table S2 To be continued

Calatrava-Leyva et al. (2007)	primary	155	agri-environmental	olive groves	Spain	binary probit	self-reported adoption (traditional discrete choice)	Spanish Journal of Agricultural Research (Non-Q1)
Defrancesco et al. (2008)	primary	139	agri-environmental		Italy	multinomial logit	self-reported adoption (traditional discrete choice)	Journal of Agricultural Economics (Q1)
Barreiro-Hurlé et al. (2008)	primary	456	agri-environmental	cereal	Spain	binary probit	self-reported adoption (traditional discrete choice)	In 107. EAAE Seminar: Modeling of agricultural and rural development policies (Non-Q1)
Polman and Slagen (2008)	primary	990	agri-environmental		The Netherlands, Belgium, Czech Republic, Finland, France and Italy	trivariate probit	self-reported adoption (traditional discrete choice)	NJAS (Non-Q1)
Ruto and Garrod (2009)	primary	2 252	agri-environmental		UK, France, Netherlands, Belgium, Germany, Italy, Ireland, Finland, Czech Republic	random parameter logit	self-reported intention to adopt (choice experiment)	Journal of Environmental Planning and Management (Non-Q1)
Ducos et al. (2009)	primary	2 262	agri-environmental		Belgium, France, UK, Germany, Italy, Ireland, Finland, Czech Republic	Tobit	self-reported adoption (regression)	Journal of Environmental Planning and Management (Non-Q1)
Peerlings and Polman (2009)	primary	990	agri-environmental		Belgium, France, Finland, Italy, the Netherlands	multinomial logit	self-reported adoption (traditional discrete choice)	Journal of Environmental Planning and Management (Non-Q1)
Espinosa-Goded et al. (2010)	primary	300	agri-environmental		Spain	random parameter logit	self-reported intention to adopt (choice experiment)	Journal of Agricultural Economics (Non-Q1)
Franco and Calatrava (2010)	primary	215	other	olive groves	Spain	binary probit	self-reported adoption (traditional discrete choice)	Economía Agraria y Recursos Naturales (Non-Q1)
Läpple and Van Rensburg (2011)	primary	546	organic		Ireland	multinomial logit	self-reported adoption (traditional discrete choice)	Ecological Economics (Non-Q1)

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Table S2 To be continued

Giovanopoulou et al. (2011)	primary	125	agri-environmental	Greece	binary probit	self-reported adoption (traditional discrete choice)	Ecological Economics (Non-Q1)
Murphy et al. (2011)	secondary	870	agri-environmental	Ireland	multinomial logit	actual (traditional discrete choice)	Ecological Economics (Non-Q1)
Mzoughi (2011)	primary	243	organic	France	multinomial logit	self-reported adoption (traditional discrete choice)	Ecological Economics (Non-Q1)
Lindhjem and Mitani (2012)	primary	165	other	Norway	linear regression	self-reported intention to adopt (contingent valuation)	Journal of Forest Economics (Non-Q1)
Beltrán-Esteve et al. (2012)	primary	238	organic	Spain	binary probit	self-reported adoption (traditional discrete choice)	Spanish Journal of Agricultural Research (Non-Q1)
Broch and Vedel (2012)	primary	61	agri-environmental	Denmark	random parameter logit	self-reported intention to adopt (choice experiment)	Environmental and Resource Economics (Q1)
Grammatikopoulou et al. (2013)	primary	739	other	Finland	random parameter logit	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)
Liekens et al. (2013)	primary	3 000	other	Belgium	random parameter logit	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)
Rodríguez-Entrena and Arriaza (2013)	primary	480	agri-environmental	Spain	trivariate probit	self-reported adoption (traditional discrete choice)	Land Use Policy (Q1)
Malá and Malý (2013)	secondary	531	organic	Czech Republic	binary probit	actual (traditional discrete choice)	Agricultural Economics (Zemědělská Ekonomika) (Non-Q1)
Giannakis (2014)	primary	80	agri-environmental	Greece	binary probit	self-reported adoption (traditional discrete choice)	International Journal of Agricultural Resources, Governance and Ecology (Non-Q1)

Table S2 To be continued

Murphy et al. (2014)	secondary	19 306	agri-environmental	Ireland	binary logit	actual (traditional discrete choice)	Land Use Policy (Q1)
Schulz et al. (2014)	primary	128	agri-environmental	Germany	conditional logit	self-reported intention to adopt (choice experiment)	Journal of Agricultural Economics (Q1)
Campus (2014)	secondary	69 696	agri-environmental	Italy	binary probit	actual (traditional discrete choice)	14th Congress, European Association of Agricultural Economists (Non-Q1)
Villanueva et al. (2015)	primary	192	agri-environmental	Spain	latent class	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)
Micha et al. (2015)	primary	204	agri-environmental	Greece	ordered probit	self-reported adoption (traditional discrete choice)	Land Use Policy (Q1)
Kuhfuss et al. (2015)	primary	317	agri-environmental	France	random parameter logit	self-reported intention to adopt (choice experiment)	European Review of Agricultural Economics (Q1)
Raggi et al. (2015)	secondary	341	agri-environmental	Italy	a-spatial fractional logit	actual (traditional discrete choice)	Land Use Policy (Q1)
Alló et al. (2015)	primary	359	agri-environmental	Spain	ordered logit	self-reported intention to adopt (choice experiment)	Journal of Agricultural Economics (Q1)
Lienhoop and Brouwer (2015)	primary	217	agri-environmental	Germany	random parameter logit	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)
Brouwer et al. (2015)	primary	482	agri-environmental	The Netherlands and Germany	latent class	self-reported intention to adopt (choice experiment)	Journal of Forest Economics (Non-Q1)
Dinis et al. (2015)	primary	352	organic	Italy and Portugal	binary logit	self-reported adoption (traditional discrete choice)	Agricultural Systems (Q1)

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Table S2 To be continued

Unay-Gailhard and Bojnec (2016)	secondary	3 488	agri-environmental	Slovenia	binary logit	actual (traditional discrete choice)	Journal of Cleaner Production (Q1)
Zandersen et al. (2016)	primary	527	other	Denmark	latent class + binary probit	self-reported intention to adopt (choice experiment)	Ecological Economics (Non-Q1)
Sardaro et al. (2016)	primary	600	agri-environmental	Italy	latent class	self-reported intention to adopt (choice experiment)	Biological Conservation (Q1)
Villanueva et al. (2017a)	primary	327	agri-environmental	Spain	error component random parameter logit	self-reported intention to adopt (choice experiment)	Journal of Environmental Planning and Management (Non-Q1)
Villanueva et al. (2017b)	primary	327	agri-environmental	Spain	bivariate probit	self-reported intention to adopt (choice experiment)	Journal of Agricultural Economics (Q1)
De Salvo et al. (2018)	primary	125	agri-environmental	Italy	random parameter logit + linear regression	self-reported intention to adopt (choice experiment)	New Medit (Non-Q1)
Bartolini and Vergamini (2019)	secondary	72 686	agri-environmental	Italy	multinomial logit	actual (traditional discrete choice)	Sustainability (Non-Q1)
Rodríguez-Entrena et al. (2019)	primary	327	agri-environmental	Spain	bivariate probit	self-reported intention to adopt (choice experiment)	Canadian Journal of Agricultural Economics (Non-Q1)
McGurk et al. (2020)	primary	800	agri-environmental	Ireland	bivariate probit	self-reported intention to adopt (contingent valuation)	Journal of Environmental Management (Q1)
Bonke and Musshoff (2020)	primary	172	other	Germany	binary logit	self-reported adoption (traditional discrete choice)	Agronomy for Sustainable Development (Q1)
Hannus et al. (2020)	primary	554	other	Germany	random parameter logit	self-reported intention to adopt (choice experiment)	Journal of Environmental Management (Q1)

Table S2 To be continued

	secondary + primary	12 100 +	agri-environmental		Poland	binary logit	actual (traditional discrete choice)
Wąs et al. (2021)		594					Land Use Policy (Q1)
Tyrväinen et al. (2021)	primary	471	other		Finland	random parameter logit	self-reported intention to adopt (choice experiment)
Cullen et al. (2021)	secondary	23 789	agri-environmental		Ireland	random effect logit	actual (traditional discrete choice)
Sardaro et al. (2021)	primary	397	agri-environmental	grapes	Italy	latent class	self-reported intention to adopt (choice experiment)
Villamayor-Tomas et al. (2021)	primary	1 500	agri-environmental		Switzerland	conditional logit	Sustainability (Non-Q1)
Bjørnåvold et al. (2022)	primary	110	agroecological		France	random parameter logit	self-reported intention to adopt (choice experiment)
Bonfiglio et al. (2022)	secondary	51 450	organic		Italy	multinomial logit	Ecological Economics (Q1)
Tsakiridis et al. (2022)	primary	130	agri-environmental		Ireland	binary probit	actual (traditional discrete choice)
Massfeller et al. (2022)	primary	110	agri-environmental		Germany	binary probit	self-reported adoption (traditional discrete choice)
Blasch et al. (2022)	primary	250	other		Italy	random parameter logit	self-reported intention to adopt (contingent valuation)
Zemo and Termansen (2022)	primary	461	agri-environmental		Denmark	random parameter hybrid choice	Land Use Policy (Q1)
							European Review of Agricultural Economics (Non-Q1)
							European Review of Agricultural Economics (Non-Q1)

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Table S2 To be continued

Šumrada et al. (2022)	primary	437	agri-environmental	Slovenia	binary logit	self-reported intention to adopt (choice experiment)	Journal for Nature Conservation (Non- Q1)
Payen et al. (2022)	primary	400	other	grapes France	binary logit	self-reported adoption (traditional discrete choice)	Environmental Science and Policy (Q1)
Tyllianakis et al. (2023)	primary	153	agri-environmental	United Kingdom	latent class	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)

Source: Authors' elaboration

Table S3. Factors occurring less frequently in the literature

Type of factor	Factor	Significance	Literature	Factor	Significance	Literature
Internal factors	married	+	Murphy et al. (2011)	irrigation	–	Payen et al. (2022)
	irrigation water available	+	Murphy et al. (2014)		–	Rodríguez-Entrena et al. (2019)
		+	Dinis et al. (2015)	belonging to irrigation district	+	Rodríguez-Entrena and Arriaza (2013)
	ownership	+	Zandersen et al. (2016)		–	Ruto and Garrod (2009)
		ns	De Salvo et al. (2018)	rented land	ns	McGurk et al. (2020)
		–	Bartolini and Vergamini (2019)		–	Bonke and Musshoff (2020)
		–	Wąs et al. (2021)		–	Šumrada et al. (2022)
	previous participation environment in scheme	ns	Barreiro-Hurlé et al. (2008)			
	insurance	–	Defrancesco et al. (2008)	export to foreign market	–	Beltrán-Estève et al. (2012)
	machinery	–	Cullen et al. (2021)			
External factors		ns	Payen et al. (2022)	knowledge of CAP	–	Šumrada et al. (2022)
	belief in government	ns	Barreiro-Hurlé et al. (2007)			
		ns	Calatrava Leyva et al. (2016)			
	concern about what society thinks of my farm	ns	Polman and Slangen (2008)	Perception of benefit of cover crops	+	Villanueva et al. (2017b)
		ns	Peerlings and Polman (2009)		+	Rodríguez-Entrena et al. (2019)
	risk perception	–	Wossink and van Wenum (2003)	Perception of economic benefit from soil protection	+	Villanueva et al. (2015)
		–	Giovanopoulou et al. (2011)			
		–	Läpple and Rensburg (2011)			
		–	Mzoughi (2011)			
	credit access	–	Sardaro et al. (2011)	frequency of advice	+	Villanueva et al. (2017a)
Contextual factors		+	Sardaro et al. (2021)			
	information from other farmers	ns	Dinis et al. (2015)	public extension service use	+	Calatrava Leyva et al. (2007)
					+	Polman and Slangen (2008)
	information from the Internet	ns	Dinis et al. (2015)	Information from Universities	+	Peerlings and Polman (2009)
Financial factors	information from financial entities	+	Barreiro-Hurlé et al. (2008)			

ns – not significant; – and + – negative and positive significant

Source: Authors' elaboration

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Table S4. Vote-counting results for factors associated with pro-environmental behaviour

Reference	Personal knowledge and capabilities										Contextual factors			Personality traits	
	farm size	schooling level	farm income	off farm income	training	full time livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
Vanslebrouck et al. (2002)	–	+					+		–					ns	
Amigues et al. (2002)	ns	ns	–						ns						
Damianos and Giannakopoulos (2002)				+					–						
Dupraz et al. (2002)	+	+		–		–			–					+	
Mathijs (2003)	ns				+	ns			–						
Wossink and van Wenum (2003)	ns			ns			ns		ns						
Sayadi et al. (2005)					+			–	–		+				
Parra-López and Calatrava-Requena (2005)			–		+						+				
Genius et al. (2006)	ns	+		+					–			+		+	
Calatrava-Leyva et al. (2007)								+	–			–			+
Defrancesco et al. (2008)		ns	–	+						ns					
Barreiro-Hurlé et al. (2008)		+	–			+			+		+		+		+
Polman and Slagen (2008)	ns	ns		+					–		–				

Table S4 To be continued

Reference	Personal knowledge and capabilities										Contextual factors			Personality traits		
	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
Ruto and Garrod (2009)	+	ns		+				–		–					+	
Ducos et al. (2009)	+	+			+		+			–		+				+
Peerlings and Polman (2009)	ns	+		+						ns		ns				
Espinosa-Goded et al. (2010)					+							ns	+	+		
Franco and Calatrava (2010)	ns							+								
Läpple and Van Rensburg (2011)	–	+		ns			–			–				ns	+	
Giovanopoulou et al. (2011)		+								–			+		+	+
Murphy et al. (2011)	+	–	ns		+		–	–		–						
Mzoughi (2011)		+								ns	ns					
Lindhjem and Mitani (2012)	+	ns	ns							ns	ns	ns				
Beltrán-Esteve et al. (2012)	–	+			+	ns				–	ns	ns				
Broch and Vedel (2012)	ns		–													
Grammatikopoulou et al. (2013)		ns	ns							ns	ns				+	
Liekens et al. (2013)	–		+							–	–					

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Table S4 To be continued

Reference	Personal knowledge and capabilities										Contextual factors			Personality traits		
	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
Rodríguez-Entrena and Arriaza (2013)	+				+	+		+								
Malá and Malý (2013)	–									–	+					
Giannakis (2014)	–	+			ns			–		+	+	–				
Murphy et al. (2014)	+		–				–	+		–						
Schulz et al. (2014)	ns					+	ns			ns						
Campus (2014)		+								–	ns					
Villanueva et al. (2015)	+	+			+					–						
Micha et al. (2015)		ns				–				–		ns				
Kuhfuss et al. (2015)	ns															
Raggi et al. (2015)					ns	ns	ns		+	ns						
Alló et al. (2015)	+	–								–						
Lienhoop and Brouwer (2015)		+								–			+	ns		
Brouwer et al. (2015)	+														+	
Dinis et al. (2015)	+				+						+	ns				
Unay-Gailhard and Bojnec (2016)	+			+					ns							

Table S4 To be continued

Reference	Personal knowledge and capabilities										Contextual factors			Personality traits		
	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
Zandersen et al. (2016)					+					–						
Sardaro et al. (2016)	–	–		–												
Villanueva et al. (2017a)	–	+			+				+	ns			+			
Villanueva et al. (2017b)	+									–						
De Salvo et al. (2018)		ns														
Bartolini and Vergamini (2019)	+	+			+		ns			–			ns			
Rodríguez-Entrena et al. (2019)	+	+			+			ns		–						
McGurk et al. (2020)	+		–				+			ns						
Bonke and Musshoff (2020)	ns	ns				ns				ns						
Hannus et al. (2020)		+						–		–		ns				
Wąs et al. (2021)	ns	ns					+	–	+	+						
Tyrväinen et al. (2021)	–	+	–							–	–					
Cullen et al. (2021)	+		–					+		–						
Sardaro et al. (2021)	–	+				–		ns			ns					

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Table S4 To be continued

Reference	Personal knowledge and capabilities										Contextual factors			Personality traits		
	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
Villamayor-Tomas et al. (2021)	ns		ns									+				
Bjørnåvold et al. (2022)	ns		ns		ns									ns		
Bonfiglio et al. (2022)		+					–			–		+				
Tsakiridis et al. (2022)					+	ns	ns			+						
Massfeller et al. (2022)	ns	ns					ns			ns	ns					
Blasch et al. (2022)	ns		ns							+			+			+
Zemo and Termansen (2022)	+					–				ns	ns	+				
Šumrada et al. (2022)	+	ns	ns				ns			–			+			
Payen et al. (2022)	ns	ns								ns	ns		ns			
Tyllianakis et al. (2023)		ns	ns			–				–						
n° papers appearing	46	38	18	9	16	16	15	14	6	51	16	14	12	7	7	5
n° papers being significant	29	24	10	7	14	11	9	11	5	37	6	8	9	4	6	5
n° papers having + significance	19	21	1	6	13	7	4	6	4	5	3	6	8	4	6	5

Table S4 To be continued

	Personal knowledge and capabilities										Contextual factors			Personality traits		
	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
n° papers having – significance	10	3	9	1	1	4	5	5	1	32	3	2	1	0	0	0
% significance	0.63	0.63	0.55	0.77	0.88	0.69	0.6	0.78	0.83	0.72	0.37	0.57	0.75	0.57	0.85	1
% total significance (related to the total sample)	0.43	0.36	0.15	0.10	0.21	0.17	0.13	0.16	0.08	0.56	0.09	0.12	0.13	0.06	0.09	0.07

ns – not significant; – and + – negative and positive significant
Source: Authors' elaboration

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Table S5. Pearson's χ^2 test among the most frequent factors

	Age vs. farm size	Age vs. schooling level	Age vs. farm income	Farm size vs. farm income	Farm size vs. training	Farm size vs. schooling level
Pearson's χ^2 test	12.13**	8.24 ^{ns}	1.20 ^{ns}	13.15**	4.51 ^{ns}	13.02**

** significance at the 5% level; ^{ns}non statistically significant, Benjamini–Hochberg correction was applied; factor pairs without sufficient observed frequencies that did not meet Pearson's χ^2 requirements are not reported in this table

Source: Authors' elaboration

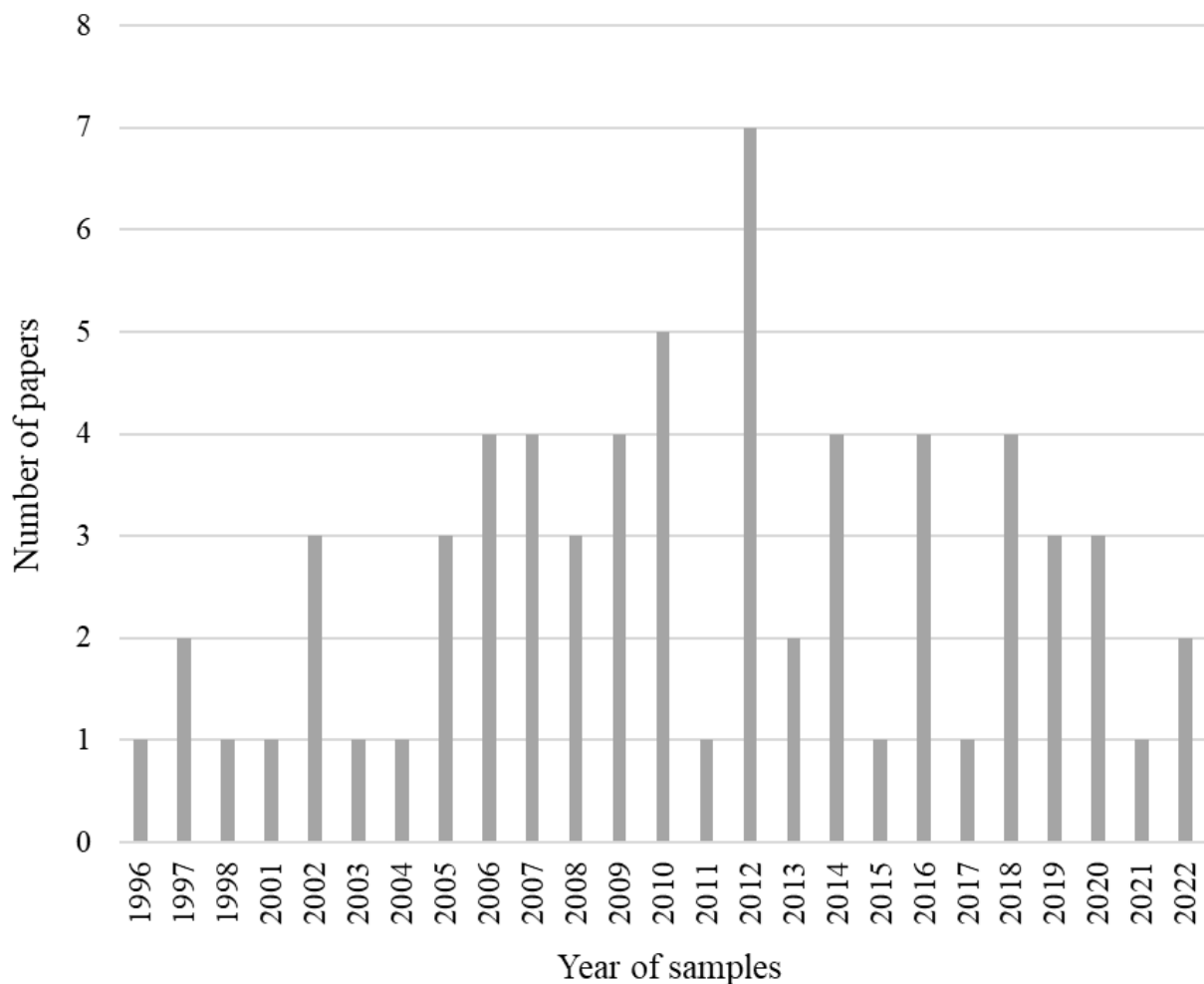


Figure S1. Distribution of sample years across studies

Source: Authors' elaboration

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