

Precursors to circularity	Circularity 1.0 and 2.0: Techno-fixes to waste		Circularity 3.0: Integrated socio-economic approaches to resources, consumption and waste			
	Circularity 1.0: Dealing with Waste	Circularity 2.0: Connecting Input and Output in Strategies for Eco-Efficiency	Circularity 3.1 Reformist views on the Circularity		Circularity 3.2 Transformational views of Circularity and visions of the Global South	
Preamble Period		Excitement Period		Validity Challenge Period		
1945-1980		1980-2010		2010-present		
Gandhian economics (Kumarappa, 1945)	Waste-Water Treatment (Holcomb,1970)	Industrial Ecology (Frosch and Gallopoulos, 1989)	First holistic Circularity frameworks	New holistic Circularity views	Transformational views of Circularity	Non-western visions of Circularity
The Economics of the Coming Spaceship Earth (Boulding, 1966)	Solid Waste Management and Recycling (Levick and Davies, 1975)	Circular Economy (Pearce and Turner, 1989)	Rio Declaration on Environment and Development (UN, 1992)	Blue Economy (Pauli, 2010)	Transition Movement (Hopkins, 2008)	Buen Vivir/ Sumark Kawsay (Government of Ecuador, 2008)
The tragedy of the Commons (Hardin, 1968)		Eco-design /Design for environment (Ryan <i>et al.</i> , 1992)	Regenerative design (Lyle, 1994)	Material Efficiency (Allwood <i>et al.</i> , 2011)	Degrowth (Latouche, 2009)	Ubuntu (Shumba, 2011)
The Population Bomb (Ehrlich, 1968)	Bio-Digestion (Hughes, 1975)	Cyclic Economy (Tibbs, 1993)	Natural Capitalism (Hawken <i>et al.</i> , 1999)	Third Industrial Revolution (Rifkin, 2013)	Eco-socialism (Löwy, 2011)	Ecological Civilization (Zhang <i>et al.</i> , 2011)
The entropy law and the economic process (Georgescu-Roegen, 1971)	Energy Recovery (Boyle, 1977)	Industrial Metabolism (Ayres and Simonis, 1994)	Sound Material-Cycle Society (Government of Japan, 2000)	Eco-system Economy (Scharmer and Kaufer, 2013)	Laudato Si' (Pope Francis, 2015)	Ecological Swaraj (Kothari et al., 2014)
The Closing Circle (Commoner, 1971)		Cleaner Production (Baas, 1995)	Cyclical Economy (Young <i>et al.</i> , 2001)	Regenerative Capitalism (Fullerton, 2015)	Transition design (Irwin, 2015)	Suma Qamaña / Vivir Bien (Artaraz and Calestani, 2015)
Social Ecology (Bookchin, 1971)		Reverse Logistics (Rogers and Tibben-Lembke,1998)	Materials Matter (Geiser, 2001)	Sharing Economy (Frenken, 2017)	Economy for the Common Good (Felber, 2015)	Buddhist, Confucian and Taoist ecology (Arler, 2018)
Limits to Growth (Meadows et al., 1972)		Eco-industrial parks and networks (Côté and Cohen-Rosenthal, 1998)	Cradle to Cradle (McDonough and Braungart, 2002)	Doughnut Economics (Raworth, 2017)	Post-growth (Jackson, 2016)	Radical Pluralism / Pluriverse (Kothari <i>et al.</i> , 2019)
Ecological Design (Papanek, 1972)		Biomimicry (Benyus, 1998)	The Natural Step (Robert, 2002)	Symbiotic Economy (Delannoy, 2017)	Permacircular Economy (Bourg, 2018)	
Small is Beautiful (Schumacher, 1973)		Product Service System (Goedkoop et al., 1999)	Performance Economy (Stahel, 2010)	Social Circular Economy (Social Circular Economy, 2017)	Voluntary Simplicity (Trainer and Alexander, 2019)	
Conviviality (Illich, 1973)		Extended Producer Responsibility (Lindhqvist, 2000)		Spiral Economy (Ashby <i>et al.</i> , 2019)	Convivalism (Caillé, 2019)	
Steady-state economics (Daly, 1977)		Industrial Symbiosis (Chertow, 2000)		Coviability (Barrière et al., 2019)		
Permaculture (Mollison and Holmgren, 1978)		Closed-loop Supply Chain (Guide et al., 2003)				
Décroissance (Gorz, 1980, first published in French in 1975)		Biobased Economy / Bioeconomy (OECD, 2004)				
Deep Ecology (Næss and Rothernberg 1989, based on 1976 book in Norwegian)		The Biosphere Rules (Unruh, 2008)				
Overshoot (Catton 1980)						