

Appendix Table 1: Comparison of CICES, the MA and TEEB Classifications (adapted from MAES, 2012)

Source: Haines-Young, R. and M. Potschin (2014): Typology/Classification of Ecosystem Services. In: Potschin, M. and K. Jax (eds): OpenNESS Ecosystem Services Reference Book. EC FP7 Grant Agreement no. 308428. Available via: <http://www.openness-project.eu/library/reference-book>

<i>CICES for ecosystem service mapping and assessment</i>			
<i>CICES for ecosystem accounting</i>			
Section	Division	Group	Class
<i>This column lists the three main categories of ecosystem services</i>	<i>This column divides section categories into main types of output or process.</i>	<i>The group level splits division categories by biological, physical or cultural type or process.</i>	<i>The class level provides a further sub-division of group categories into biological or material outputs and bio-physical and cultural processes that can be linked back to concrete identifiable service sources.</i>
Provisioning	Nutrition	Biomass	Cultivated crops
			Reared animals and their outputs
			Wild plants, algae and their outputs
			Wild animals and their outputs
			Plants and algae from in-situ aquaculture
			Animals from in-situ aquaculture
		Water	Surface water for drinking
			Ground water for drinking
	Materials	Biomass	Fibres and other materials from plants, algae and animals for direct use or processing
			Materials from plants, algae and animals for agricultural use
			Genetic materials from all biota
		Water	Surface water for non-drinking purposes
			Ground water for non-drinking purposes
	Energy	Biomass-based energy sources	Plant-based resources
			Animal-based resources
		Mechanical energy	Animal-based energy

MA	TEEB
<i>MA provides a classification that is globally recognised and used in sub global assessments.</i>	<i>TEEB provides an updated classification, based on the MA, which is used in on-going national TEEB studies across Europe.</i>
Food	Food
Water	Water
Fibre, Timber, Ornamental, Biochemical	Raw materials, medicinal resources
Genetic materials	Genetic materials

Appendix Table 1, cont. (Comparison of CICES, the MA and TEEB Classifications – adapted from (MAES, 2012))

CICES for ecosystem service mapping and assessment								
CICES for ecosystem accounting								
Section	Division	Group	Class					
Regulation & Maintenance	Mediation of waste, toxics and other nuisances	Mediation by biota	Bio-remediation by micro-organisms, algae, plants, and animals	Water purification and water treatment, air quality regulation	Waste treatment (water purification), air quality regulation			
			Filtration/sequestration/storage/accumulation by micro-organisms, algae, plants, and animals					
		Mediation by ecosystems	Filtration/sequestration/storage/accumulation by ecosystems					
			Dilution by atmosphere, freshwater and marine ecosystems					
			Mediation of smell/noise/visual impacts					
		Mediation of flows	Mass flows			Mass stabilisation and control of erosion rates	Erosion regulation	Erosion prevention
						Buffering and attenuation of mass flows		
			Liquid flows			Hydrological cycle and water flow maintenance	Water regulation	Regulation of water flows, regulation of extreme events
	Flood protection							
	Gaseous / air flows		Storm protection	Pollination	Pollination			
			Ventilation and transpiration					
	Maintenance of physical, chemical, biological conditions		Lifecycle maintenance, habitat and gene pool protection	Pollination and seed dispersal	Pest regulation	Biological control		
				Maintaining nursery populations and habitats				
		Pest and disease control	Pest control	Disease regulation				
			Disease control					
		Soil formation and composition	Weathering processes	Soil formation (supporting services)	Maintenance of soil fertility			
			Decomposition and fixing processes					
		Water conditions	Chemical condition of freshwaters					
			Chemical condition of salt waters					
		Atmospheric composition and climate regulation	Global climate regulation by reduction of greenhouse gas concentrations	Atmospheric regulation				
			Micro and regional climate regulation			Air quality regulation	Air quality regulation	

Appendix Table 1, cont. (Comparison of CICES, the MA and TEEB Classifications – adapted from (MAES, 2012)

<i>CICES for ecosystem service mapping and assessment</i>			
<i>CICES for ecosystem accounting</i>			
Section	Division	Group	Class
Cultural	Physical and intellectual interactions with biota, ecosystems, and land-/seascapes [environmental settings]	Physical and experiential interactions	Experiential use of plants, animals and land-/seascapes in different environmental settings
			Physical use of land-/seascapes in different environmental settings
		Intellectual and representative interactions	Scientific
			Educational
			Heritage, cultural
			Entertainment
			Aesthetic
	Spiritual, symbolic and other interactions with biota, ecosystems, and land-/seascapes [environmental settings]	Spiritual and/or emblematic	Symbolic
			Sacred and/or religious
		Other cultural outputs	Existence
			Bequest

MA	TEEB
Recreation and ecotourism	Recreation and tourism
Knowledge systems and educational values,	Inspiration for culture, art and design, aesthetic information
Spiritual and religious values	Information and cognitive development