

Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research

The growing scope of environment ontology



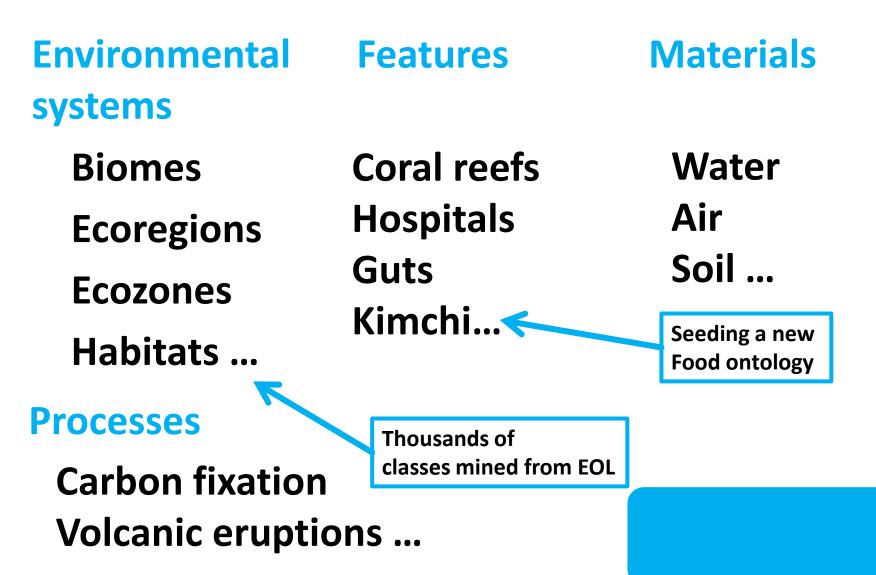
Pier Luigi Buttigieg



A community ontology attempting to clarify the semantics of environmental entities

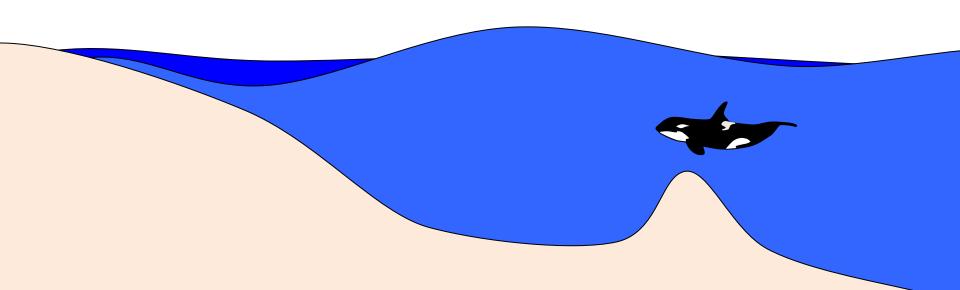
RELATION	CONTINUANT					OCCURRENT
TO TIME GRANULARITY	INDEPENDENT			DEPENDENT		
ORGAN AND ORGANISM	Organism (NCBI Taxonomy)	Anatomical Entity (FMA, CARO)	ients)	Organ Function (FMP, CPRO)	Phenotypic Quality (PaTO)	Biological Process (GO)
CELL AND CELLULAR COMPONENT	Cell (CL)	Cellular Component (FMA, GO)	Environments (EnvO)	Cellular Function (GO)	(, , , , , , , , , , , , , , , , , , ,	
MOLECULE	Molecule (ChEBI, SO, RnaO, PrO)		Ш	Molecular Function (GO)		Molecular Process (GO)

Adapted from the Open Biomedical Ontology (OBO) Foundry proposal





Marine neritic epipelagic biome

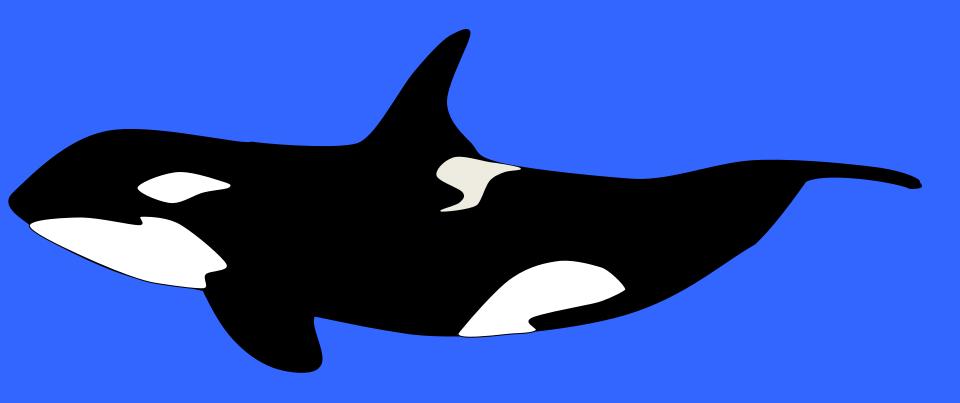


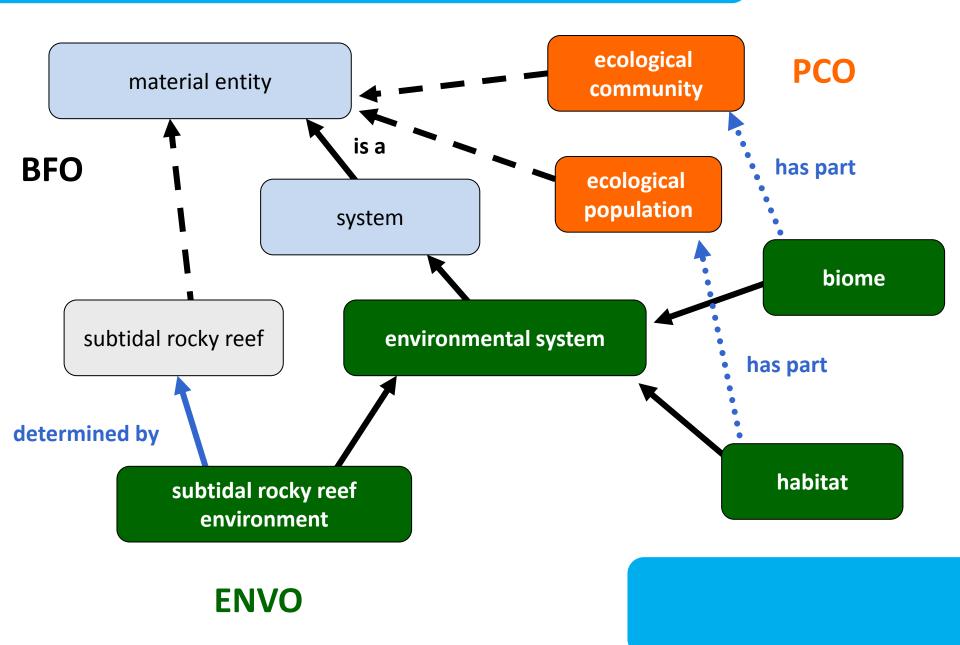
Feature level

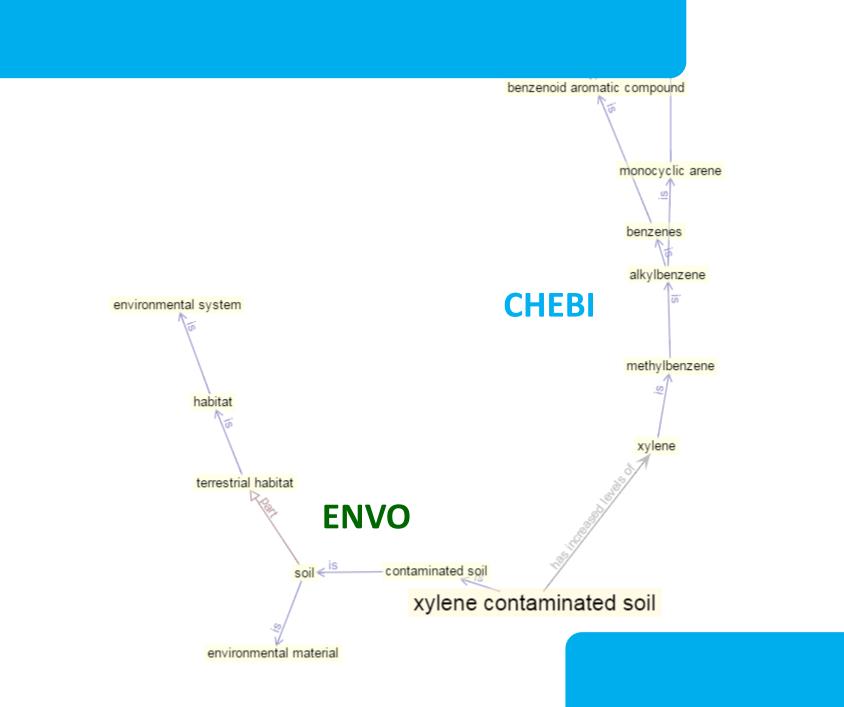
Marine subtidal rocky reef

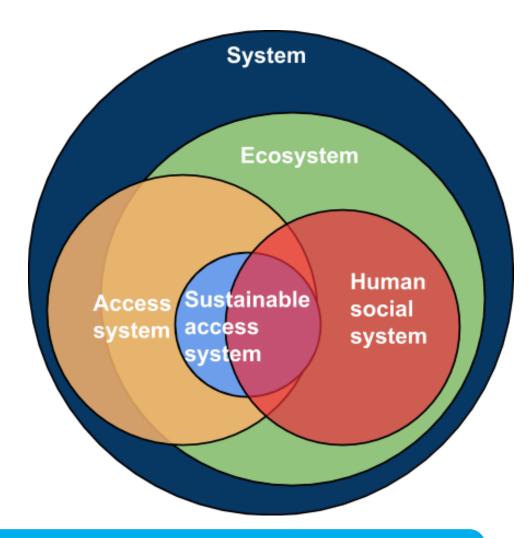


Material level Coastal water











A semantic interface for the Sustainable Development Goals

"Ecosystem services" "Healthy environments, healthy people" "People, Planet, Profit"



Acknowledgements



Antje Boetius



Jacqueline McGlade Ludgarde Coppens Mark Jensen Priyanka DeSouza



Chris Mungall Ramona Walls Evangelos Pafilis Visotheary Ung Mark Schildhauer Barry Smith Suzanna Lewis

Zebra habitat...

...grasslands, savannas, woodlands, thorny scrublands, mountains, and coastal hills

An environment where a zebra was observed...

PUBC-

10.472 (0)

XISL