

Water footprint as part of a "footprint family"

**Sustainable Agriculture Flagship** 

**Brad Ridoutt**WULCA, SETAC Europe, Sunday May 12, 2013



## So many footprints...what do they mean?

Work environmental footprint Food to energy footprint Emission footprint Economic footprint Social footprint ecological footprint Grazing land footprint Job footprint Corruption footprint Environmental footprint Climate footprint water footprint CO2 footprint Online social footprint **GHG** footprint Financial footprint Forest footprint carbon footprint GWP footprint Water pollution footprint nitrogen footprint Land use footprint Water availability footprint Waste footprint Methane footprint Chemical footprint Water scarcity footprint Exergy footprint Biodiversity footprint Water stress footprint Human rights footprint Blue water footprint Human footprint Phosphorus footprint **Energy footprint** Green water footprint Fishing grounds footprint Wind energy footprint Nuclear energy footprint Crop land footprint Grey water footprint Renewable energy footprint Built-up land footprint Solar energy footprint Agricultural land footprint Fossil energy footprint Poverty footprint Health footprint Land footprint

If our vision is "A world where life cycle approaches are mainstreamed"... guidance on defining and developing LCA-based footprints is needed

- Footprints are the means of communicating LCA information to the mainstream: i.e. remote and non-technical audience
- Footprints not grounded in LCA are problematic:
  - Environmental relevance?
  - Double counting
  - How to make sense of multiple footprints
  - Results may contradict LCA
- Footprints are not just new names for existing impact category indicators
- Universal footprint definition needed
  - Differentiation from typical life cycle impact category indicators
  - Guidance to support evolution of coherent footprint indicators in support of our vision
- Risks of not acting
- Reference: Ridoutt and Pfister 2013 Towards an integrated family of footprint indicators. Journal of Industrial Ecology (DOI: 10.1111/jiec.12026)



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## Thank you

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