

Product Biodiversity Footprint

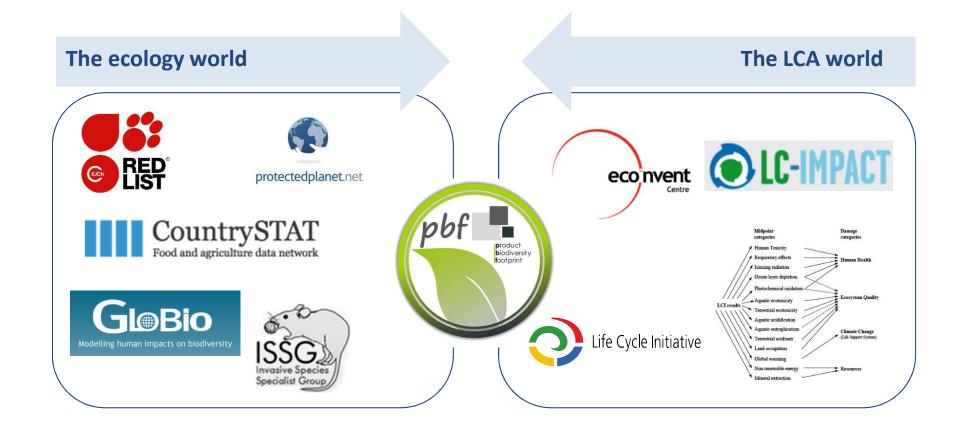
avniR 7 November 2018





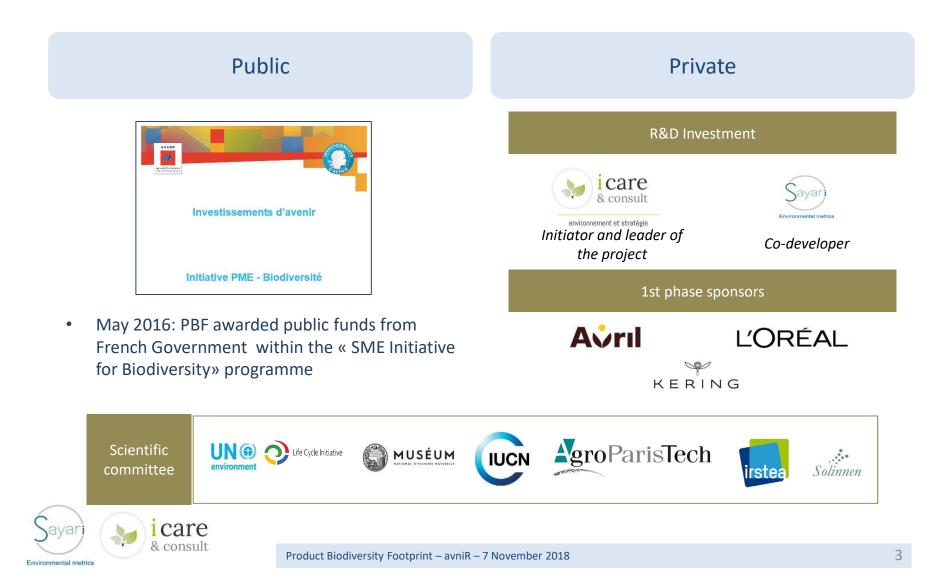
Product Biodiversity Footprint – avniR – 7 November 2018

PBF way: find a proper trade-off between Ecology & Life Cycle Assessment experts

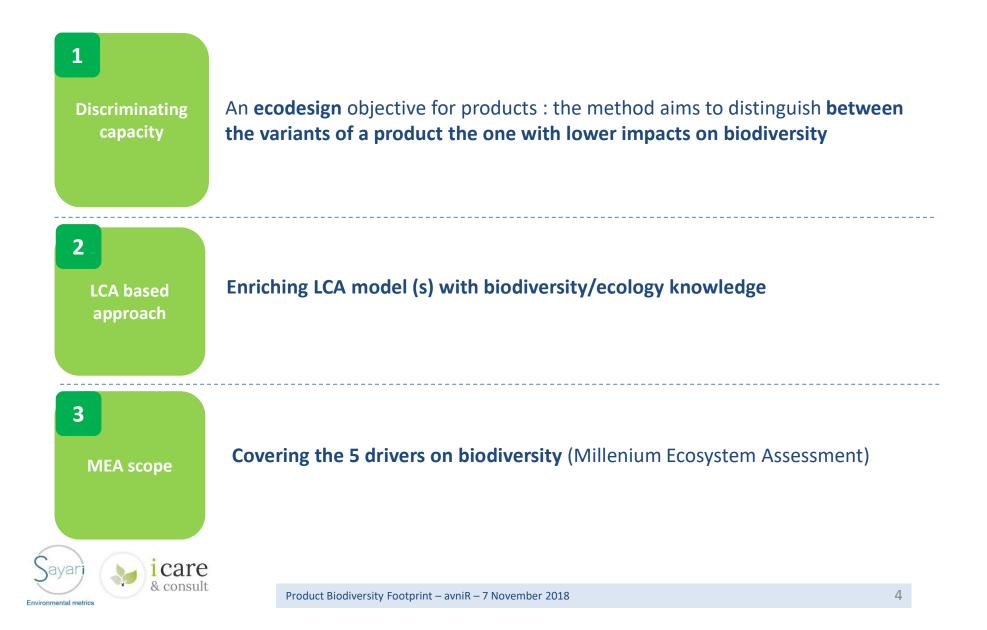




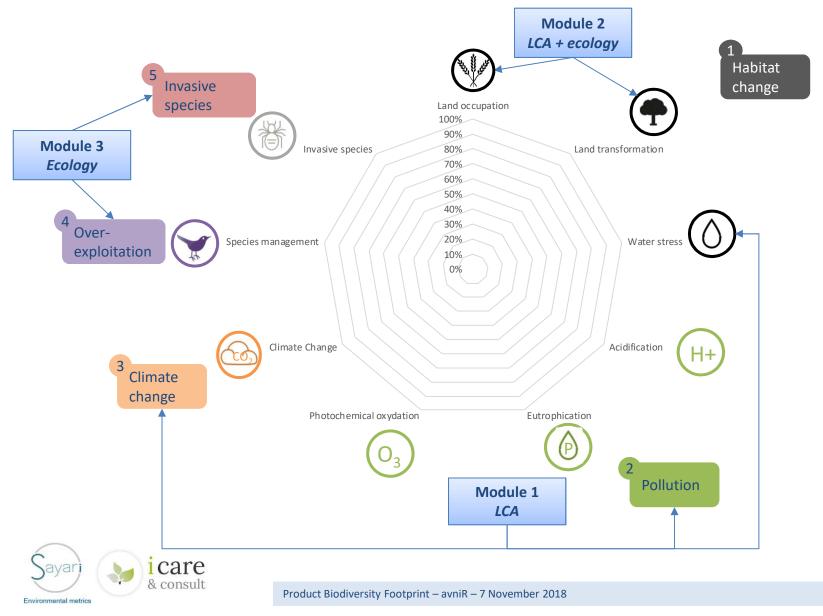
2016: launch of Product Biodiversity Project Phase 1 : a public-private initiative



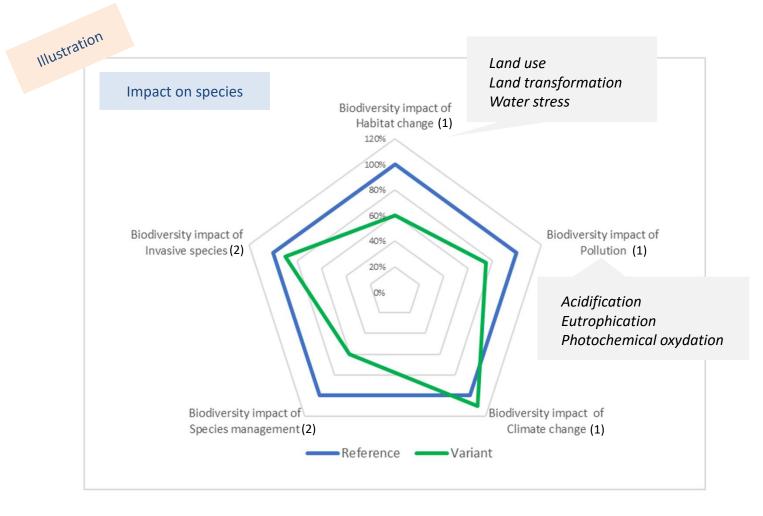
PBF Objectives & Features



Product Biodiversity Footprint : 9 indicators



PBF result: a comparative impact on the 5 pressures on biodiversity

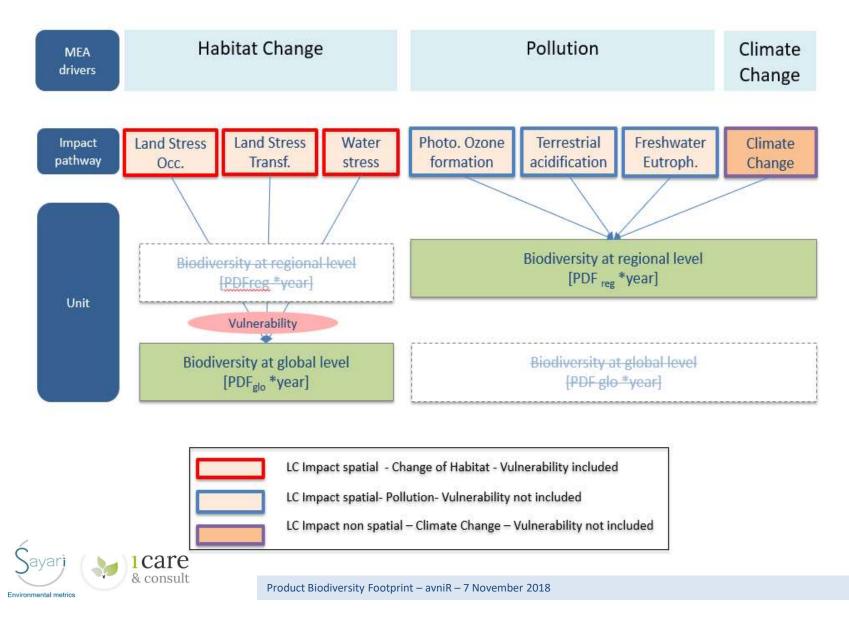


(1) Impact assessed on pdf.year: Potential Disappeared Fraction of species per year



(2)

Module 1 : based on LC-Impact ®



Framework 🔪 🛽 🛚

M2

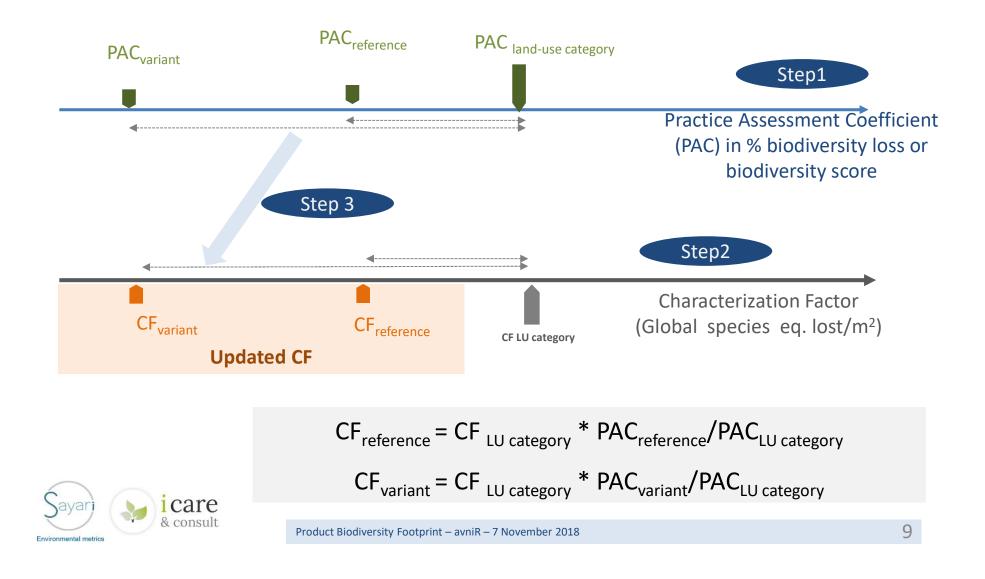
Module 2 : improve the CF used in module 1 for land occupation and transformation

CF category for module 1	CF category	y for module 2
Land use type	Case study	Variants on LU Practices
Forest, used, extensive		
Forest, used, intensive		
Pasture/ meadow	Cashmere	Standard/ specific Kering
Agriculture, arable	Rapeseed	Standard/ "fleur de Colza"
Agriculture, permanent crops	Palm oil	Standard/ SPOTS project
Artificial areas, urban	Factory/ transport	

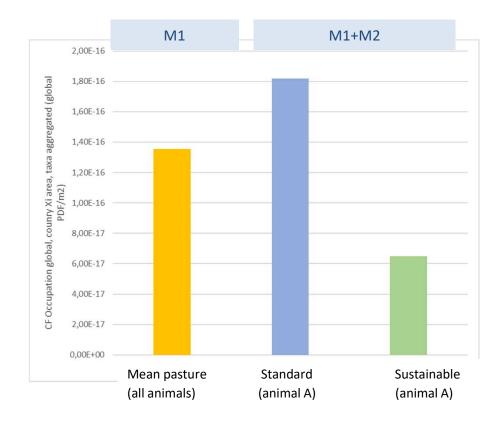


M2

Module 2: assessment of updated CF with Practice Assessment Coefficient (PAC)



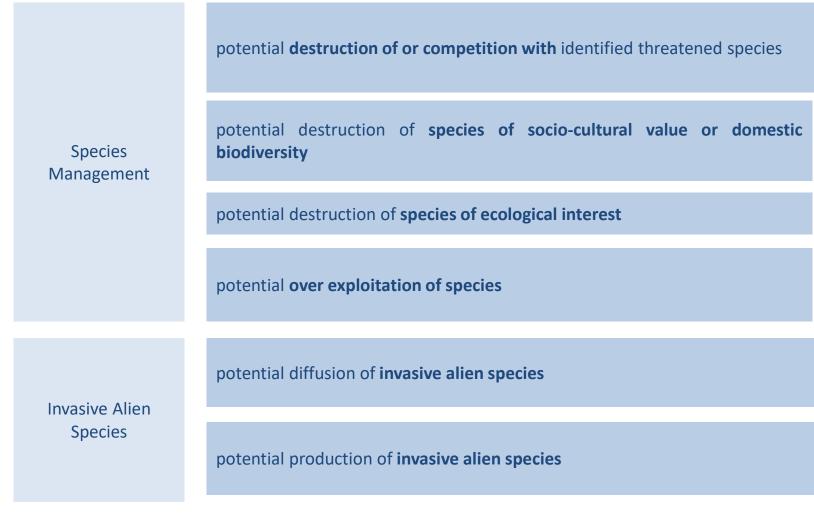
Example on pasture fictive case





• M3

M3 - Two additional indicators with sub-indicators



Sayari icare Environmental metrics

Case study

Product case study

Ecological literature

mobilized to assess

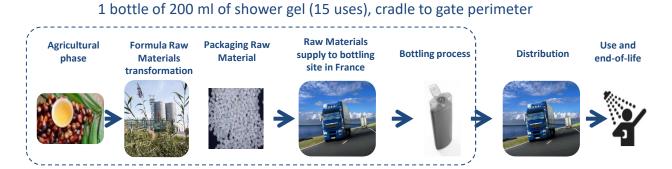
impact of practices

on biodiversity

Environmental metrics

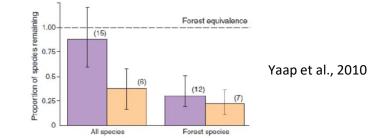
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- Variant in agricultural phase : Culture of palm oil in Malaysia
 - ✓ Sustainable Palm oil culture, from SPOTS project (biodiversity practices and lower yield) versus standard culture

Use of studies which report palm oil impact on species richness in palm oil plantation compared to primary forest in Malaysia (Azhar et al., 2011; Fitzherbert et al., 2008; Yaap et al., 2010).





Key take-aways from the company



Today

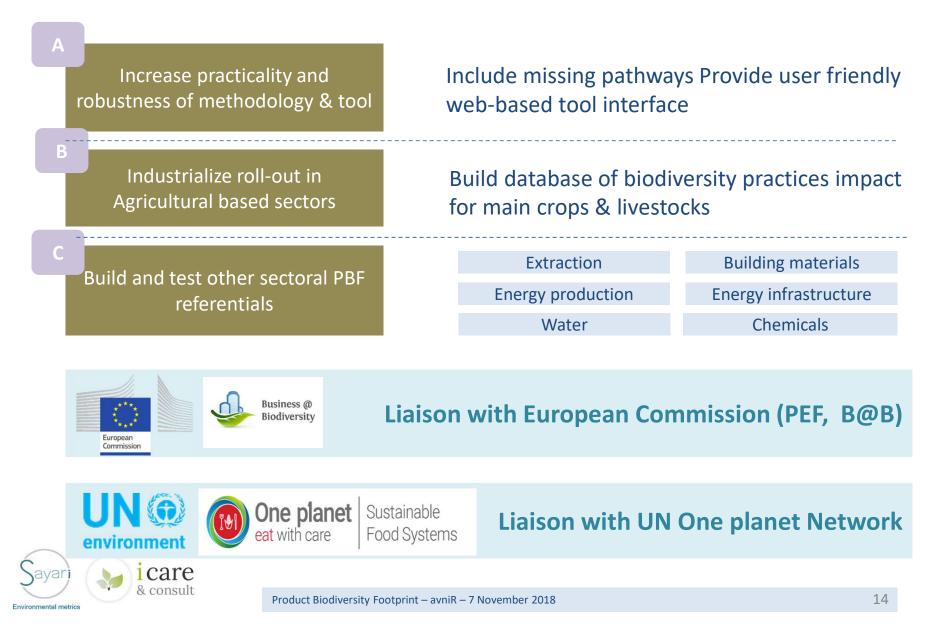
- PBF method useful to compare the potential benefit for biodiversity of a sustainable variant scenario relative to a standard one
- compare 2 actual scenarii | 1 actual scenario to 1 virtual one to guide eco-design

Expected tomorrow

- Increase robustness of the method with further impacts (*e.g.* ecotoxicity)
- Towards a single score to facilitate interpretation/communication of results and decisionmaking
- An streamlined use of module 2 and 3 use through :
 - database compiling impacts from practices (literature)
 - User guidelines
 - User-friendly tool embedded in company decision support toolkit



Phase 2 to start end 2018 - three main workpackages





Case studies recruitment still open for phase 2

THANK YOU!

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