



High Performance Bio-based Functional Coatings for Wood and Decorative Applications

Social impacts and acceptance study of biobased solutions in Perfecoat:

Methodology and preliminary results







This project receives funding from the Bio-based Industries Joint Undertaking (JU) under the European Union's Horizon 2020 research and innovation programme under grant agreement No 101022370. The JU receives support from the European Union's Horizon 2020 research and innovation programme and the Bio-based Industries Consortium.



Objectives



Identify and assess the potential social impacts of the new solutions, with a special focus on social acceptance and perceived transition potential.





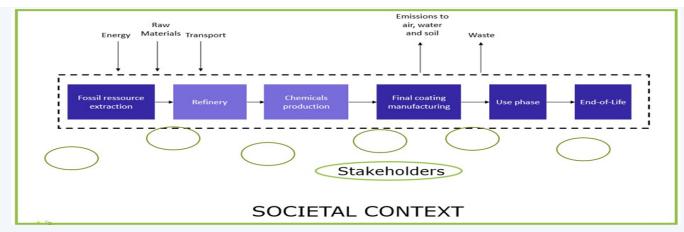


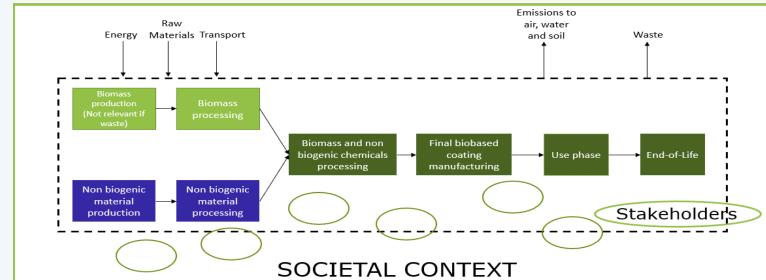


Scope



Fossil-based coatings





Bio-based coatings



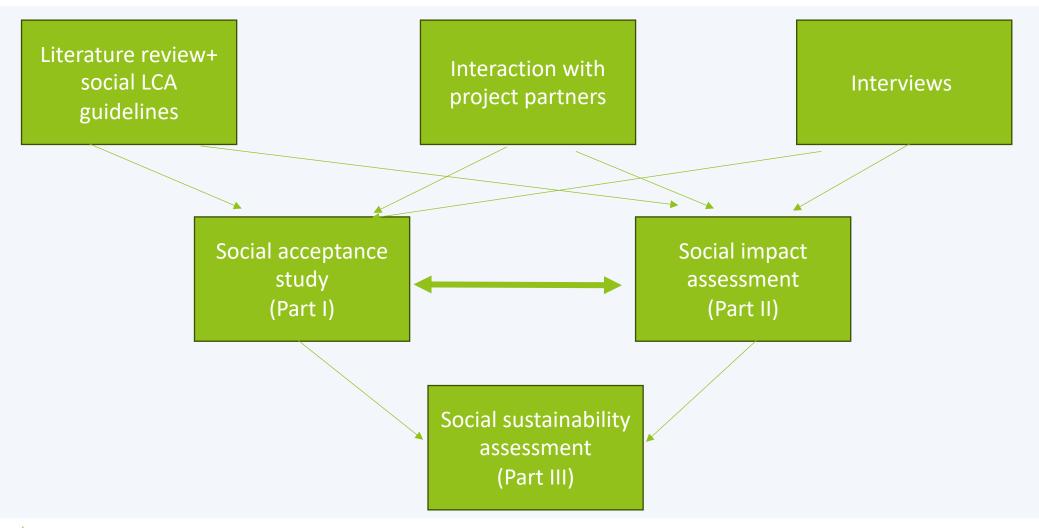








Social sustainability: methodology





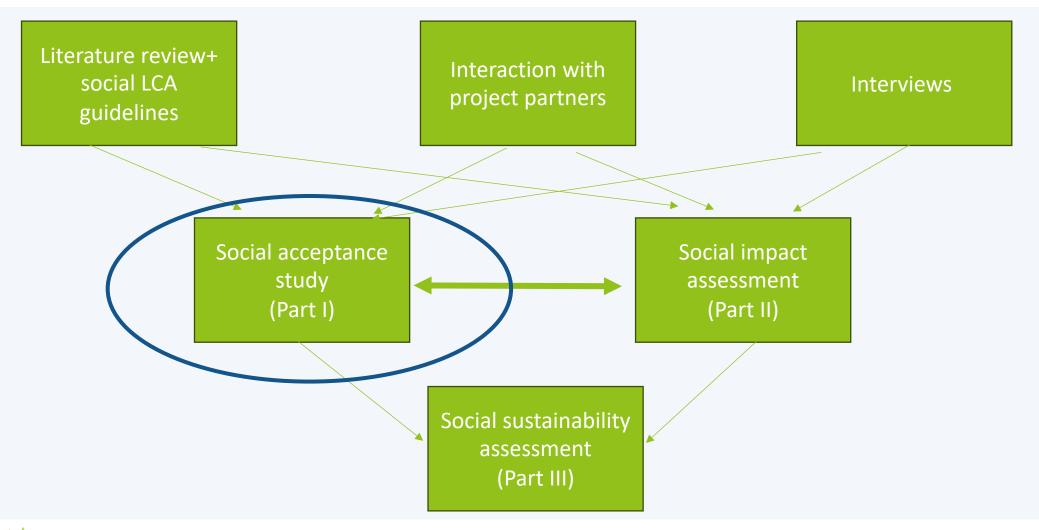








Social sustainability: methodology











Social acceptance (Part I): preliminary results

SINTEF

Socio-political acceptance:

- <u>Drivers at an overarching policy level</u> (e.g., EU Green Deal, bioeconomy strategy and circular economy action plan of the EU, etc.)
- Perceived lack of direct incentives
- Mixed effects of eco-labels





Images from PowerPoint archive









Social acceptance (Part I): preliminary results



Market acceptance:

- Increased importance to document sustainability
- <u>Lack of explicit and specific sustainability targets, to guide suppliers</u> with some exceptions
- High costs and prices constitute a major barrier
- <u>Users still need to be convinced on several coating</u> functionalities.
- For the <u>value chain actors</u>, compatibility of new, biobased solutions with the <u>existing plant</u> and production processes is crucial



Image from PowerPoint archive









Social acceptance (Part I): preliminary results

SINTEF

Community acceptance:

- Land use and the risk of indirect land use change
- Reliable supply of sustainably produced biomass is necessary,
- Transparency regarding raw material origin
- Assumptions regarding <u>human rights and</u> <u>labour rights</u>
- Varying requirements among customers on aspects that could influence community acceptance



Image from PowerPoint archive



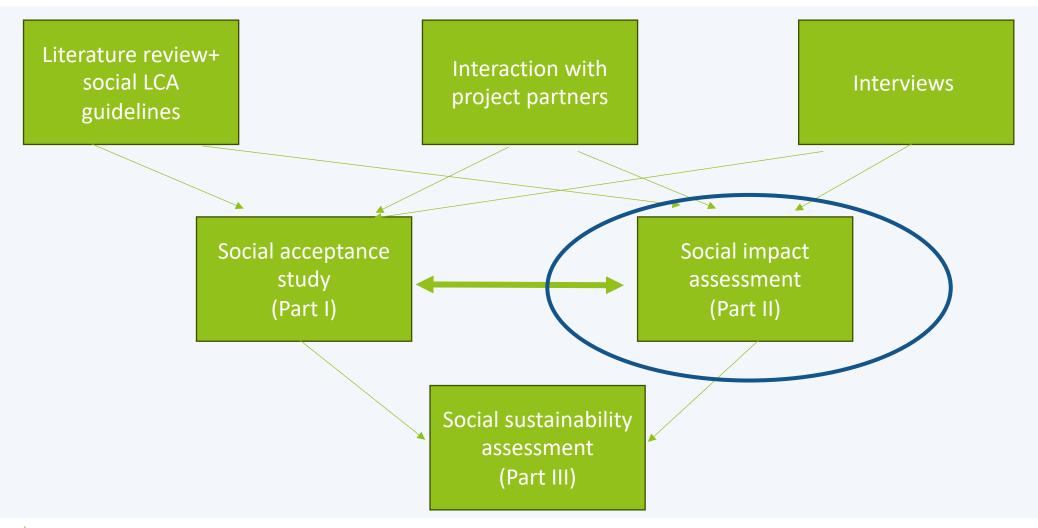








Social sustainability: methodology











Social impact assessment (Part II): categories emphasized by partners



Value chain segment	Stakeholder category	Impact category	Impact subcategory
Biomass production and collection	Local community	Contribution to local economy	contribution to economic development
			contribution to employment
	General society	Food security	food security
Biomass processing	Local community	Contribution to local economy	contribution to economic development
			contribution to employment
Final coating manufacturing	Workers	Health and safety	health and safety of workers
	Local community	Contribution to local economy	contribution to employment
Use	Consumers	Health and safety	health and safety of end-users
		Social acceptance	feedback mechanisms
			transparency
End-of-life	Local community	Health and safety	health and safety of local community



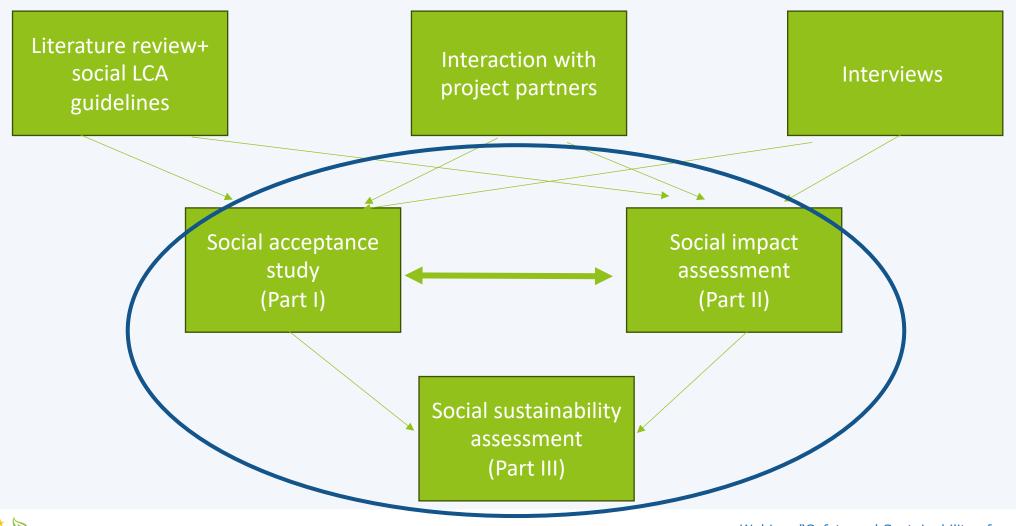








Social sustainability – current status













Final reflections

- Few studies on social sustainability of the biobased coatings
- Challenging data access
- Complex value chains
- Early-stage development
- Increasing focus on social sustainability and sustainability in general
- Close follow-up and interaction are crucial











Thank you for your attention!





