NOBEL - Novel business models and mechanisms for the sustainable supply of and payment for forest ecosystem services

ForestValue

ERA-NET Cofund - Innovating the forest-based bioeconomy



Project NOBEL is supported under the umbrella of ERA-NET Cofund ForestValue by BMLFUW (AT), ANR (FR), FNR (DE), Vinnova/Formas/SWEA (SE), MINECO-AEI (ES), RCN (NO) and FCT (PT).

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Challenges in Forest Management for Providing Forest Ecosystem Services

- demand for timber, non-timber products and ecosystem services is increasing due to growing populations and socio-economic changes
- many important services have no direct monetary value
- forest management often favour timber production over other services
- changing environmental and socio-economic conditions cause uncertainties
- need for policy recommendation and economic incentives



Project objectives of NOBEL

- Design innovative methodologies for assessing the economic, social and environmental values of forest products and services at regional and national scale
- develop business models, mechanisms and novel public policies to internalise the socio-economic value of non-market forest ecosystem services
- combine business models with public policy instruments for implementing PES and deduct trade-offs in pilot demonstrations
- demonstrate and compare alternative PES schemes, including an innovative web-based auction platform





Pilot demonstrations

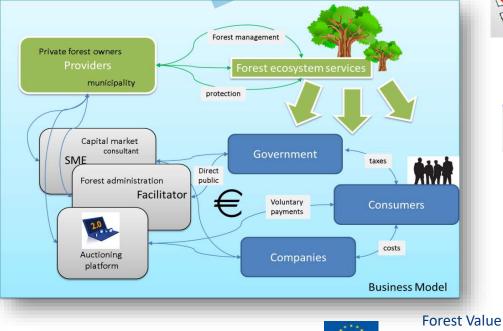
Nr.	Region	Short characterisation	FES considered	Business Modell
PD1	ZIF_VS Northwest Portugal	pure and mixed mediterranean forests of eucalypt (<i>E. globulus</i>) and maritime pine (<i>P. pinaster</i>), land owned by communities, private and non-industrial owners	TB, CB BD, RC, NHR	BM1, BM2, BM3, BM4
PD2	Käringberget, Västerbotten, Boreal zone, Sweden	Boreal forest dominated by Scots pine(<i>Pinus sylvestris</i>) and Norway spruce (<i>Picea abies</i>), forest la divergence owned company	TB, NTFP, RC, CB	BM1, BM2, BM3, BM4
PD3	Cerdanya, Pyrenees, Catalonia in northeast Spain	mixed mediterranean forests of Pine (uncinata) and fir(Abies alba) forests or	FP, , RC, NHR	BM1, BM2, BM4
PD4	Ennstaler Alpen, Styria, Austria	Montane to subalpine mixed forests of E. Beech (<i>Fagus sylvatica</i>), Silver Fir <i>A</i> (<i>Larix decidua</i>) private and	TFP, , NHR	BM1, BM2, BM3, BM4
PD5	Lorraine, Northeast France,	Forests are dominated by sessile oak beech (Fagus silvatica), forests are n third is owned by mu	CB, RC	BM1, BM2, BM3, BM4
Forest ecosystem services: TP : timber production NTFP : non-timber forest products CB: carbon sequestration RC: recreation (sports, hunting) BD: biodiversity conservation WSR: water, soil and nutrient regulation NHR: natural hazard regulation		embedded (e.g. ecotour BM 2 Voluntary PES: vo companies, companies may pass BM 3 Selling ES to Government Agencies: Loc providers for the service and pass the costs to consu BM 4 Business as usual: FES providers are selling tim		ervices usiness nt pays FES fees fees
07.06.2019		products on the market Forest Value ERA-NET Cofund		4



Design innovative forest management plans

Predict effects of forest management with ecosystem models





quantification of FES with indicators

assess economic value of FES



quantify acceptable value tradeoffs with optimization tools

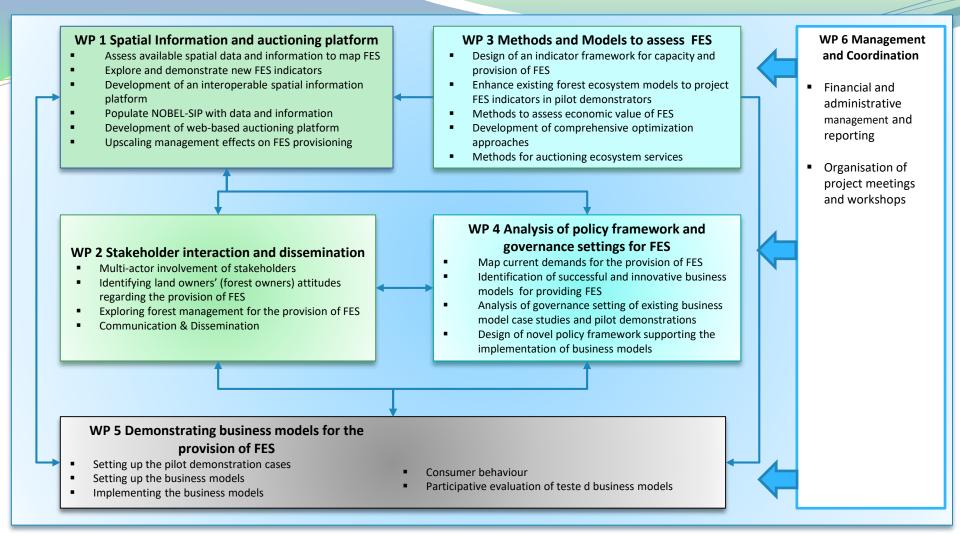
methods and mechanisms for web-based auctioning

implement business models



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Partners

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