



## Eco-Efficient Dry Wool Scouring with total by-products recovery

### WDS project

The Eco-Efficient Dry Wool Scouring with total by-products recovery - WDS aims at a sustainable and innovative wool scouring process.

The LIFE WDS project has a budget of 1.540.870 € and it is 49% co-financed by the LIFE+ Environment Policy and Governance financial instrument. (LIFE11ENV/ES/588).

The LIFE WDS project started in September 2012 and it ran for three and a half years. **WDS comes to its end! Watch the WDS video on [www.life-wds.eu](http://www.life-wds.eu)**

### WDS Objectives achieved

- ✓ Valuable clean scoured wool.
- ✓ Recovery of grease wool components to obtain by-products with a market value: wool grease-lanoline, dust and vegetable fiber.
- ✓ Reduction in water and energy consumption in comparison to the conventional aqueous process.
- ✓ Reduction in wastewater effluents, avoiding complex and expensive treatments.
- ✓ Technical and economic process feasibility.

### WDS vs current Wool scouring process

- ✓ Better quality of scoured wool: whiter, cleaner, lower grease content.
- ✓ Recovery of 95% wool grease and ~100% wool dust, valuable as lanoline and fertilizers, respectively.
- ✓ Reduction of 75% water consumption.
- ✓ Reduction of 75% wastewater effluents. Effluents with low Chemical Oxygen Demand (COD) <75% lower than the current wool scourers.
- ✓ Reduction of 75-100% detergents and chemicals.



### Meetings

22.10.2015. Administrative and technical Meeting, at TAVARES Guarda (Portugal). Partners visited the Tavares scouring plant and they could check the improved quality of the WDS wool obtained.

### Dissemination and Networking activities

RMT attended the “**European Conference on Wool Scouring in Europe: a pressing environmental need for the future of the industry**” on 4-6<sup>th</sup> November 2015 organised by ATELIER-Laines d’Europe (Sauges, France). They disseminated the WDS project to a broad public of the textile sector.



The Wooldryscouring (WDS) project held its **Final workshop** on 4 February 2016 in Barcelona. Partners presented the results of the innovative and sustainable Dry Wool Scouring process. Almost 40 participants attended from Belgium, France, Germany, Italy, UK and Spain, representing the wool processing industry of Europe. The workshop counted with key speakers from the wool sector like coordinators of **GreenWoolf Life project from CNR-ISMAL, Value4Wool Eco-Innovation from IFN-Group, and Atelier-Laines d’Europe**. There was an interesting round-table about Present&Future Wool Scouring in Europe. In the afternoon, attendees visited the WDS prototype at RMT’s facilities.



**We want to acknowledge the Life Programme, WDS partners and stakeholders for their support and collaboration, which contributed to WDS project's success.**

### WDS Consortium



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