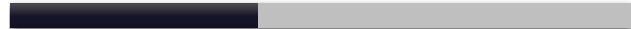







# Keratin materials from feather waste

<p><b>Description</b></p> <p>Industrial feather waste valorisation for sustainable keratin based materials.</p>	<p><b>Objectives</b></p> <ul style="list-style-type: none"> <li>To carry out simulations in the pre-treatment of poultry feathers to optimize it permitting a scale up and to assure that the clean feathers will be free of any microorganism,</li> <li>To perform simulations of conversion technologies to process feathers for producing new bio-based raw materials,</li> <li>To establish feather sanitation and to ensure the hygienic conditions and to reduce risks to a minimum level assuring the highest safety.</li> </ul>
<p><b>Activities</b></p> <ul style="list-style-type: none"> <li>Process simulation,</li> <li>Risk assessment.</li> </ul>	<p><b>Challenges</b></p> <ul style="list-style-type: none"> <li>Input data complex to collect </li> <li>Technical knowledge required </li> <li>Legal &amp; legislation barriers </li> <li>Technology readiness level </li> </ul>
<p><b>Expected outcomes</b></p> <ul style="list-style-type: none"> <li>Improving feather waste pre-treatment and conditioning processes,</li> <li>Optimizing the isolation of keratin and other feather-based raw materials,</li> <li>Validation of the feather-based raw materials for bio-based end products.</li> </ul>	

