

Taller de Economía Circular



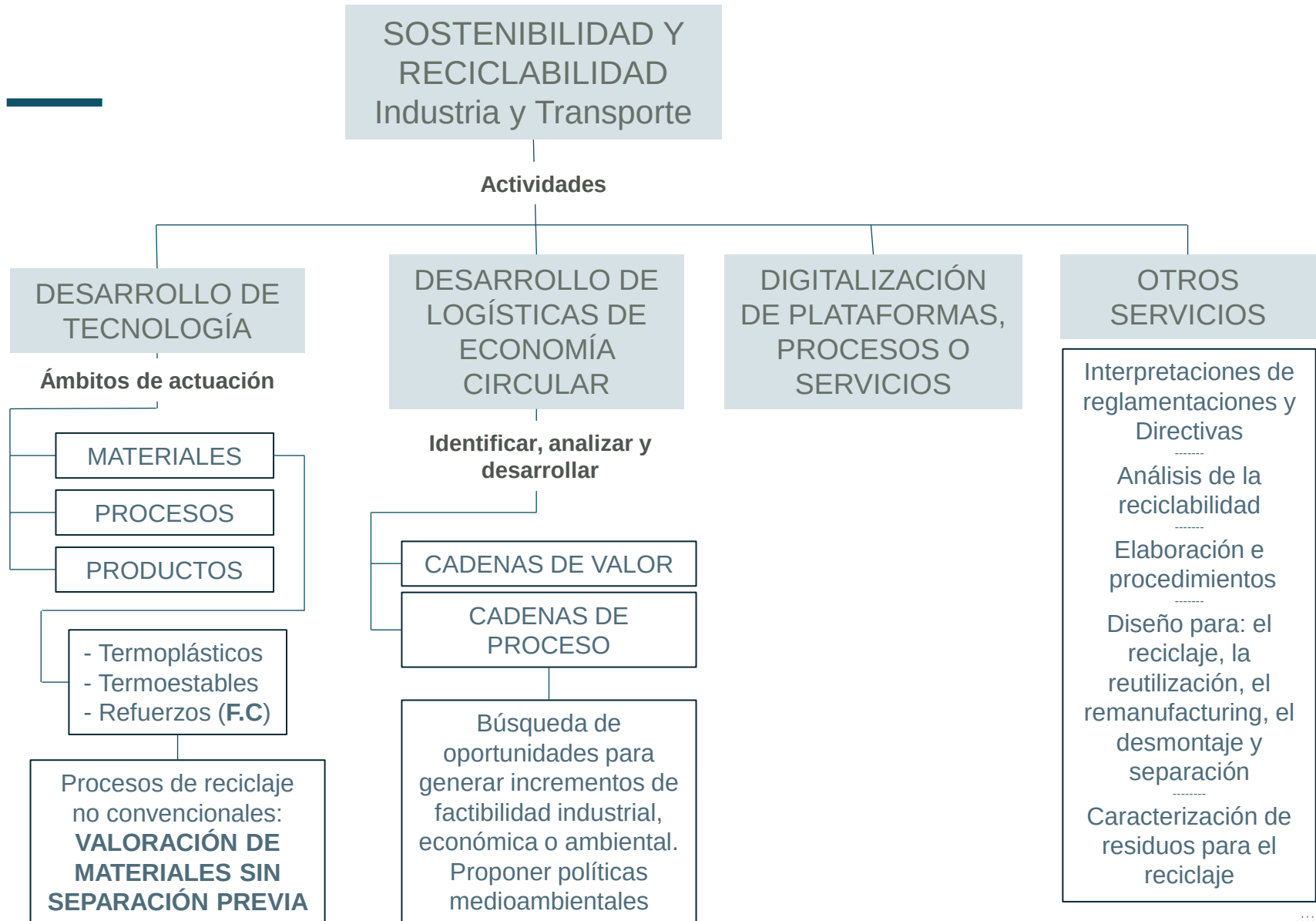
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CIRCULAR ECONOMY

AREAS OF ACTIVITY AND TECHNOLOGIES RECYCLING



WT BLADES MANAGEMENT AND MECHANICAL RECYCLING

- Optimization of reverse logistic schemes for the management of discarded blades in the decommissioning phase.
- Avoiding the adverse impact on the environment of incineration or disposal in landfills.
- Upgraded mechanical recycling processes guaranteeing an optimized recovery of fibers from the composite materials.
- Closed loop recycling by incorporating the recovered material into precast concrete elements or multilayer panels.

WT BLADES MANAGEMENT THERMAL RECYCLING AND COMPOUNDING PROCESS



- Thermal recycling of composite materials, including blades from wind sector.
- Plastic compounding process for introducing the recycled fiber in the automotive sector..
- Platform structure to the composite use case
- Intelligent and 4.0 Compounding process for recycled fiber recovered from Wind sector and others.

We will be in charge of the implantation trials in the Basque Country region for the digital platform





Palas EoL



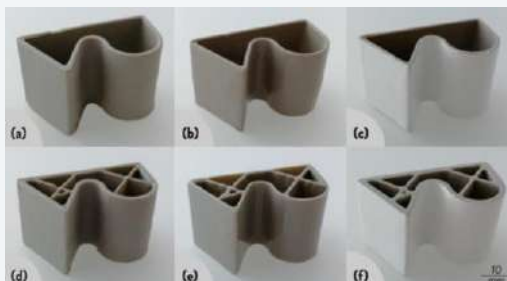
Triturado



Mezcla de materiales



Refuerzo en procesos de moldeo via liquida



Additive manufacturing



Masillas para carrocería



Refuerzos no vistos



Moldes mecanizables



Estructuras y encimeras

LINEAS ESTRATEGICAS I+D A MEDIO O LARGO PLAZO, entre otras

- Recuperación de fibra de carbono y vidrio desde palas de aerogeneradores mediante solvólisis con líquidos iónicos y disolventes eutécticos profundos.
- Estudio de nueva tecnología de reciclado de composites basado en electroquímica a nivel de laboratorio
- Aplicación de fibras de vidrio recicladas en hormigones para impresión 3D
- Recuperación y valorización de fibra de carbono de palas de nueva generación para aplicaciones estructurales

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GRACIAS

THANK YOU

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