

Scaling Recycling: CARBON BLACK FROM WASTE TIRES PYROLYSIS (CABWAT)

- 1. Themes/technology/topic of focus + key elements of the project:** New material is obtaining a to valorize the solid waste produced in **gasification** process **scrap tires** and to obtain a raw material with added-value from waste Raw material obtained: Demineralized carbon black Activated **carbon black**, and **ZnO** like additive for the rubber.
- 2. Expected synergies and complementarities:** Tire manufacturers enterprise, companies dedicated to the waste management and recycling.
- 3. Outcomes:** The process proposed would form an attractive and profitable **valorization** loop for all products derived from **waste tire**. Provide **economic viability** to the process of **recycling scrap tires** by obtaining **raw materials** of added value of various sector. The **circular economy** by the valorisation of rubber waste.
- 4. Market & Business opportunities:** Provide **economic viability** to the process of **recycling scrap tires** by obtaining **raw materials** of added value of various sector (additives to include in the rubber synthesis). The **circular economy** by the valorisation of rubber waste.
- 5. PARTNERS identified:** Lamimer –FGP (Spain CLC- South); CSIC- National Center for Metallurgical Research (Spain CLC- South); ENEA (Italy CLC-South) and Ingaroil (Spain Company).
- 6. Wanted additional partners :** Currently, all partners are from CLC-South, so we need partner from other CLC. We wanted as additional partners to closed the cycle:Tire, rubber, coat or conveyor belt **manufacturer enterprise**. Final user of **ZnO**, user of **activated carbon** and **Technological centre** expert in rubber synthesis.

PROCESS DIAGRAM

