**Recycling of automotive waste for the recovery of precious and critical metals: Treasure Horizon 2020 project**

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Electronic waste in the automotive sector is a valuable source of critical raw materials. Currently, because of the absence of dedicated European/national regulations for the recycling of car electronics components, the management practices show a low circularity level. Therefore, End-of-Life Vehicles dis shredded by the dismantlers and the electronic components are not disassembled. This way of operating causes the loss of valuable and critical materials which has a negative environmental impact. Treasure Horizon 2020 project wants to support the transition of the automotive sector towards circular economy through the adoption of innovative technologies. Dedicated pilot plants exploit the advanced technologies to establish a new supply chain in the automotive sectors. Plants are related to car electronics disassembly, car electronics recycling and reuse of secondary materials from car electronics in new applications. New business opportunities will be created in the car electronic market, information on disassembly procedures will be provide to the dismantlers and the recovered materials will be reused by the carmakers to produce new electronic components for the automotive sector. University of L’Aquila is involved in the present project for the development of hydrometallurgical processes on lab-scale for different set of critical materials (printed circuit boards, in-mold electronics, and indium tin oxide glass of LCD modules) in order to setup dedicated materials recovery processes. In addition, the reconfiguration of the pre-existing hydrometallurgical pilot plant is also planned with the aim of making it more flexible to the treatment of different types of materials and to ensure better connections with the pilot plants line. Testing and optimization of the recovery processes will be performed also on pilot scale. Based on the results, materials and energy balances will be described and technical-economic feasibility will be evaluated, taking into account also the environmental sustainability.