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AIRBUS Atlantic

Brief Description of the Challenge Sponsor	Founded in 2022, Airbus Atlantic is a world leader in aerostructures and aircraft seats, with nearly 900 employees in Rochefort focused on assembly, premium seat production and after-sales service.
Context of the proposed challenge	The **circularity of aluminum alloys** is becoming a strategic issue for the aerospace industry in the face of **increasing resource scarcity, energy constraints and climate risks**. Its implementation would reduce dependency on natural resources, save energy, ensure sufficient material supply in a constrained low-carbon future and reduce environmental impact through better waste management.
Description of the challenge	Currently, **machining chips are mixed after milling, which does not allow re-use as aerospace material**, resulting in their downgrading in everyday applications such as food cans. The challenge is to **set up a suitable post-machining sorting system** that sorts the chips into different types of aluminium alloys.
Key words	**Circularity - Aluminum alloys - Chips – Sorting – Secondary material**
Type of solution	Methodology and/or Technological solution