

ReclaimER

TECNOPOLO

Project presentation



13-11-2023





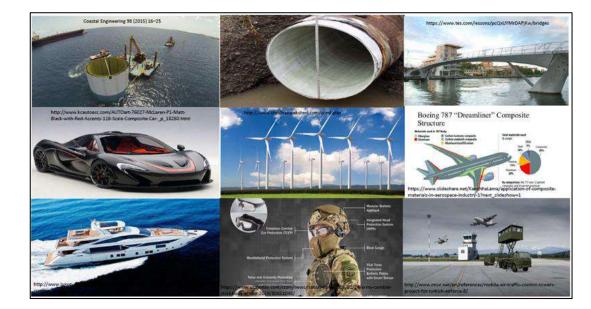
Analisi della domanda di mercato

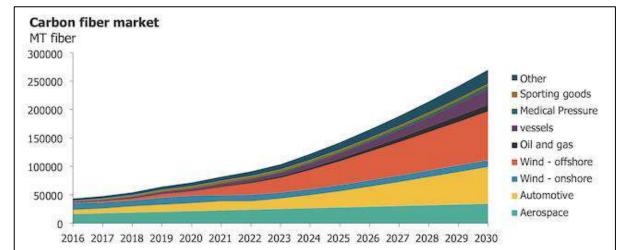
Carbon fibre reinforced polymers (CFRP) materials are suitable for an increasing variety of industrial applications, including aerospace, automotive, construction, energy, and sport, due to their properties such as **strength-to-weight ratio** and **extended service life** (1).

For this very reason, this has led to an increase in the use of this composite material in Europe, which in turns is expected to lead to managing a large amount of this End-Of-Life material in the next years (2). The said trend, already growing in the last years, is expected to grow further by 2030.

However, the growth in demand for composite material, is combined with the **problem of recycling and reusing of all the end-of-life composite material products** by 2025, a problem that will continue to be central if it is accompanied by the increasing use of composite material in the coming years.

- (1) Chung, 2010; Rani et al., 2021; Witten & Mathes, 2020; Zhang et al., 2020; Zimmerli et al., 2010
- (2) Rajak et al., 2021; Witten & Mathes, 2020







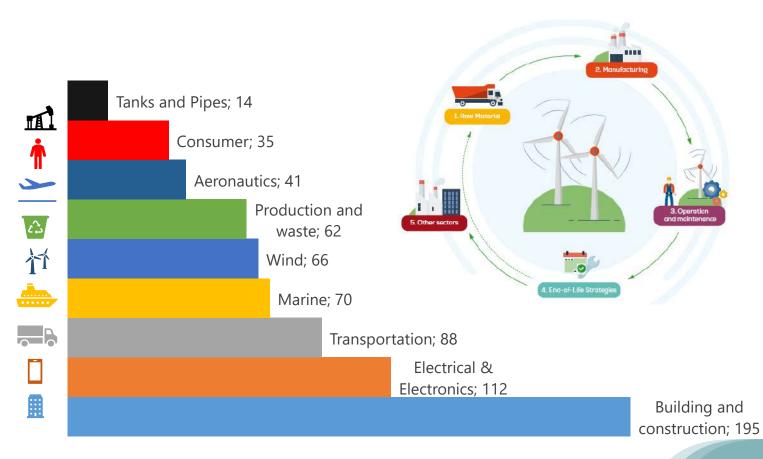


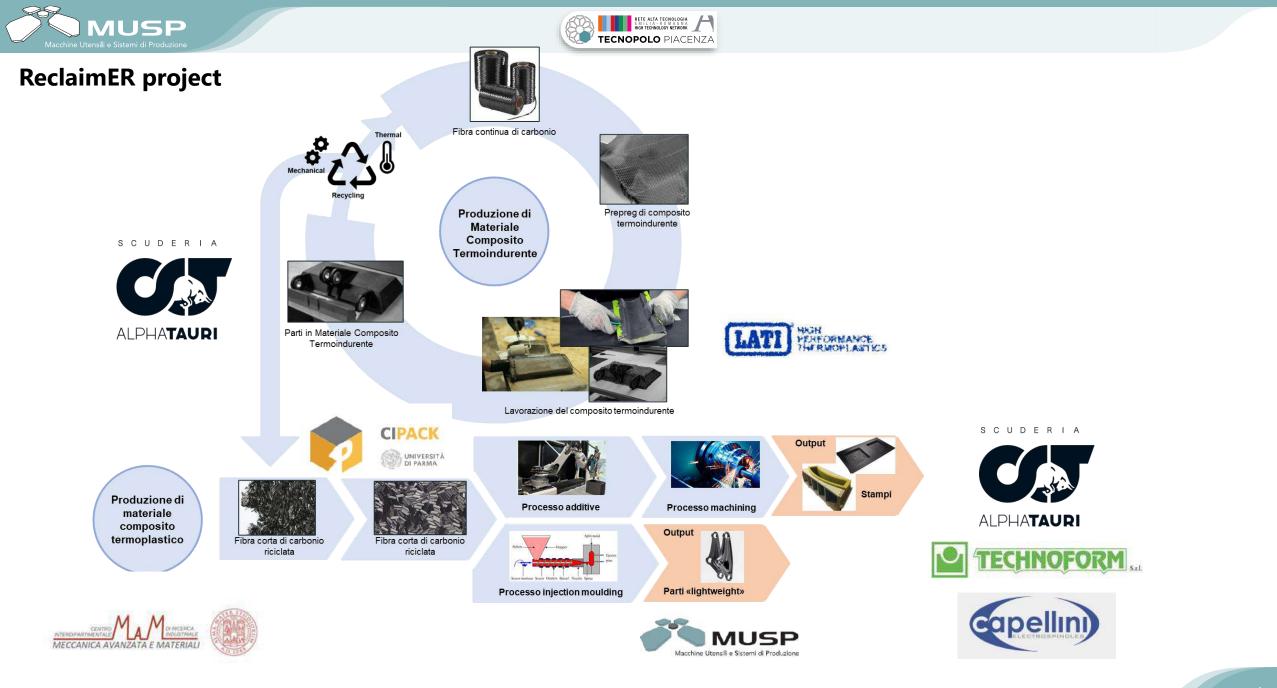
Analisi della domanda di mercato



Il rapporto **resistenza/peso** e le proprietà di **lunga durata** dei materiali compositi li rendono adatti ad applicazioni industriali in diversi settori

volume elevato di materiali compositi a fine vita nel 2025



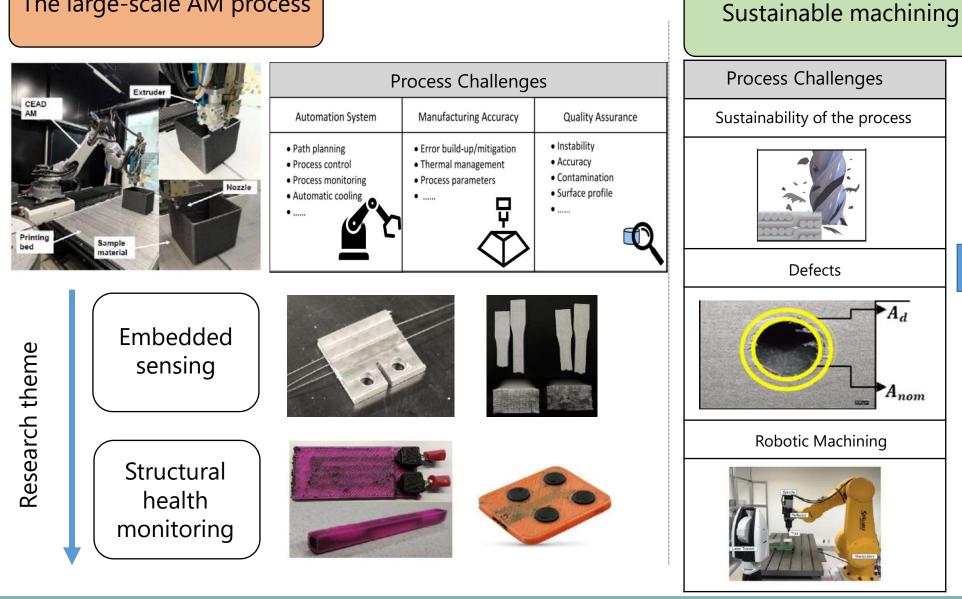


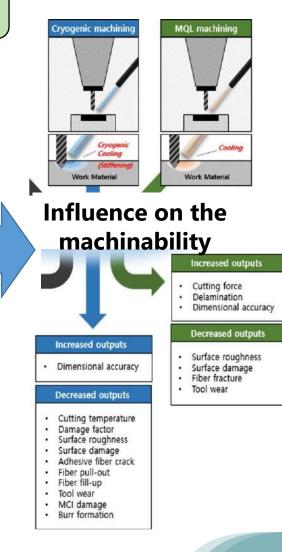




Scientifical challenges

The large-scale AM process





Ad

Anom



Grazie per l'attenzione

H HILL DATED



