

SUCCESS STORY

Securing supply of plastic Parts for a major aircraft manufacturer

CHALLENGES

The COVID pandemic, together with recent climatic episodes and geopolitical events, led to **tensions in the global supply of plastic materials**. With more than 30% of parts containing polymers, but limited global consumption, **aeronautical manufacturers are exposed to risks associated with material shortages**.

SOLUTIONS

To secure availability of polymers for aircraft production:

- We **mapped the use of polymers** in the products and manufacturing processes to **evaluate probability and exposure to material shortages** based on market surveys
- We developed processes and trained resources for **systematic collection and diffusion** of shortage weak signals at company scale
- We assessed and implemented adapted **risk mitigation actions** including localization of material in the Supply-Chain, qualification of alternatives, adjustment of stocks, raw material reservation, Design for Supply or designs adaptation.

KEY DELIVERABLES



Risk analysis

Assessment of both polymer shortage probability and potential impacts



Monitoring system

Tools and organization enabling efficient risk detection and alerts transmission throughout the company



Derisking toolkit

10 processes developed, tested and formalized to fit in customer's context and bring result from day 1

CUSTOMER BENEFITS

15

detailed investigations of polymer families supporting comprehensive risk analysis

20+

crisis solved with no impact on the assembly line

-33%

reduction of crisis occurrence with limited investments thanks to early mitigation



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