

PARTNERS



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CONTACT US



coordination@life-all-in.eu



www.life-all-in.eu



linkedin.com/company/life-all-in



twitter.com/LIFE_ALLIN



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LIFE ALL-IN

Integration of the substrate and AHP production process reducing raw materials and steps along the supply chain.

LIFE19 ENV/IT/000230

SUMMARY

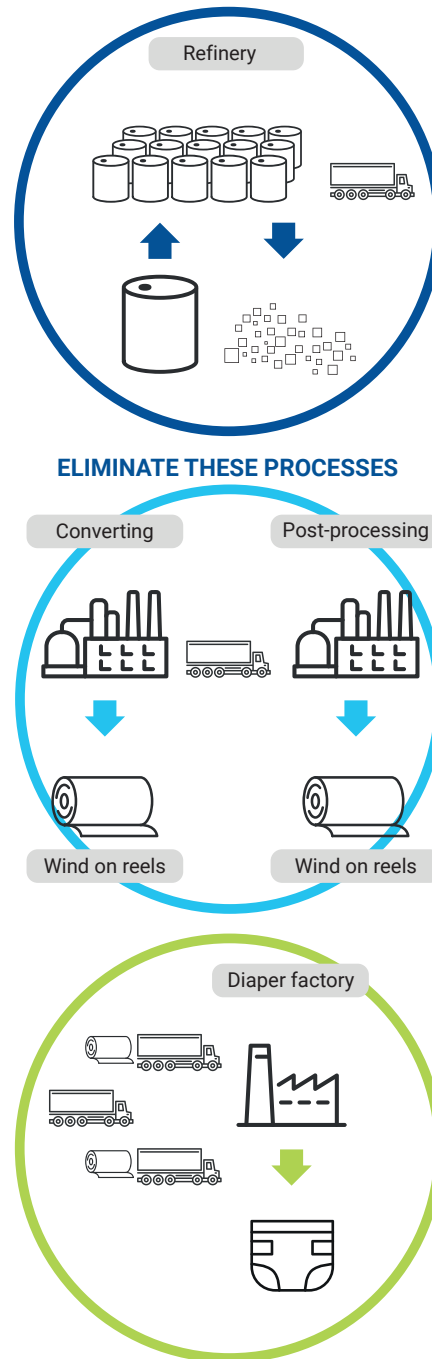
LIFE ALL-IN aims to launch an innovative eco-friendly integrated process that, for the first time, combines, on the same machine, the AHPs production process with processes for the on-line manufacturing of raw materials usually manufactured offline as well as raw materials transformation processes. The technology led to the design of a one-of-a-kind production line that combines the non-woven conversion and post-processing phases together with the final diaper assembly, allowing significant materials saving and CO2 emissions decrease as well as notable costs reduction.

OBJECTIVES

LIFE ALL-IN objectives are:

- A decrease of the raw materials amount used in AHPs manufacturing, keeping the same or better functionality, efficacy and overall performances;
- A reduction of the number of the steps along the raw materials supply chain, thus saving the total energy needed for the process to be operated, the materials used for reels and components packaging and the CO2 related to materials transportation.

ALL-IN NEW FLOW



IMPACT

The expected impacts at the end of LIFE ALL-IN project are:

ENVIRONMENTAL

To save, within three years from the end of the project, up to thousands of tons of raw materials used for AHPs manufacturing, reducing in turn the amount of generated waste, to decrease CO2 emissions thanks to the reduction of several steps along the raw materials supply chain, and to save energy along the whole AHPs production process.

TECHNICAL

The technological challenge of LIFE ALL-IN consists of the integration of different kind of manufacturing and transformation processes maintaining the same or even improving product performances. This will impact the whole AHPs and non-woven sector, leading SMEs but also large industries towards a lower-cost business model and more environmental- friendly processes.