

LIFE M3P

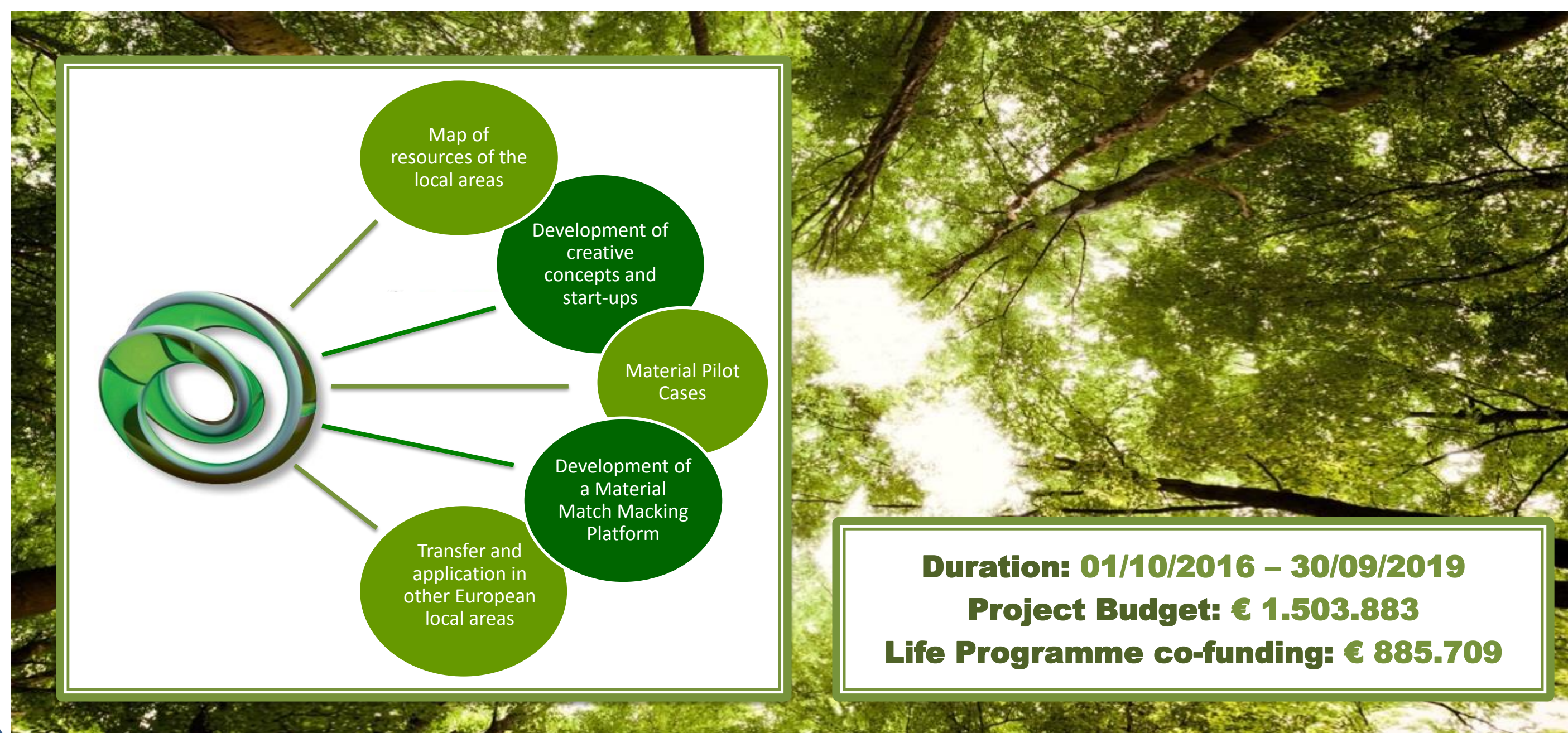
AN ON-LINE PLATFORM FOR THE MATERIAL MATCH MAKING: A MODEL TO APPROACH THE INDUSTRIAL SYMBIOSIS

LIFE M3P PROJECT

The Life M3P project - Material Match Making Platform for promoting the use of industrial waste in local networks is focused on Circular Economy and Industrial Symbiosis and it aims to develop an industrial waste valorization system, based on the characterization and classification of their properties, using an on-line platform dedicated to combining materials and waste.

The study of a model of local collaboration on materials will allow companies to act consciously as "sustainable geographical area" and it will provide to small and medium companies useful operational tools for the materials efficiency.

The Life M3P project will also promote the research for new applications of waste, based on creative features, looking for innovative solutions or replacements of used materials.



LIFE M3P PLATFORM CHARACTERISTICS

Life M3P is one of pilot cases based on Open 2.0, a free environment developed by Lombardy Region under Open Source GPL3 License

It is based on a plugin model architecture: personalized, flexible, updatable

- Application plug-in store;
- Native plug-in with Science, Research and Technologies database (European Enterprise Network – EEN, Questio, etc.);**
- Flexible to access new databases (i.e. waste database);
- Social plugins to manage community and relations between users;
- Project management tools;
- Translation tools in different languages.

Matching through different search models:

- Search by free or fixed Tag definition;
- Search by full text (fuzzy logic);
- Artificial Intelligence search with semantic rules.**

TIMETABLE

End 2017	Middle 2018	End 2018	Spring 2019
Alfa version	Beta public version	Final public release	Revision and update

WHY A PLATFORM

The new paradigm of the circular economy requires "re-thinking" of the entire life cycle of each production process to optimize the use of resources and the resulting human pressure on the environment.

It is increasingly urgent to enter at each level of the process of designing, producing and consuming goods, ensuring that residues and waste are reinstated in the economic cycle.

Thinking innovatively about material efficiency also means working on other sectors, as well as the primary one in which a company operates, and evaluating the features and functionality of the materials that are not considered or investigated before.

The platform is based on the characterization of materials (used and waste) and the technologies and processes required for their treatment, using intelligent analysis techniques. The information collected and appropriately entered into a dedicated database will allow users to match demand between materials and waste, thus providing a powerful tool for promoting the concept of circular economy.

DESCRIPTION

The platform envisages the use of open data and the introduction of semi-automatic analyzes through the use of matching mechanisms based on smart-tags and semantic analysis.

The databases that will be used in the process will range from waste to technologies and patents, enabling research and interaction from a variety of topics, not just related to refusal.

Through a customizable interface, an own environment of working can be defined by each user. Search systems can be used to find any match by waste or technology, but also to find project proposal, collaboration opportunities, technology review, contact opportunities by industrial sector or geographical industrial area, etc.

Life M3P platform will be the place where matching between materials, not only from waste, is the 4.0 tool for "have and offer" companies. An Industrial 4.0 symbiosis virtual modeling will be performed in Life M3P platform. Industry 4.0 paradigm is compliant with circular economy and together they created the new generation of enterprise 4.0 where production, waste, raw materials, distribution, customer survey will be redesigned according to the new model of sustainable economy.

Life M3P platform is designed as a tool that helps to match material needs of industry 4.0.

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