

SUMMARY

FENIX is an EU Horizon 2020 research project of 36 months duration (1st January 2018 – 31 December 2020). The project will study innovative circular business models and test them into practice through a series of dedicated pilot plants. The final aim is the demonstration of real benefits coming from the adoption of circular economy principles.

Main target groups

- Industrial plant manufacturers
- Waste management companies
- Materials recovery companies
- Automation suppliers
- Additive manufacturing companies
- Environmental authorities

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H2020 Research and Innovation Action

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MAIN OUTPUTS

Define a set of potential B2B and B2C business models and industrial strategies in several manufacturing sectors.

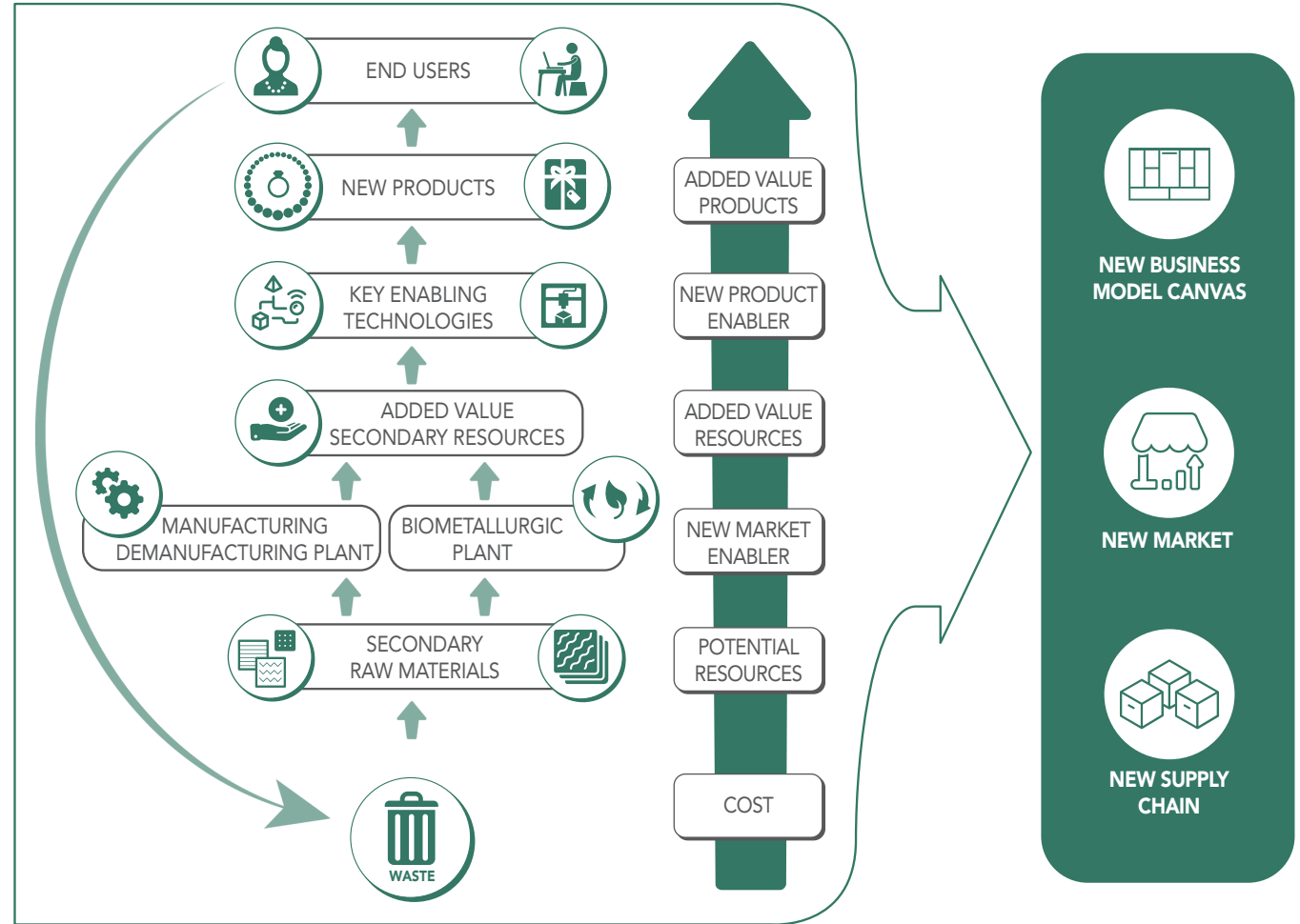
Implement novel supply chains focused on the sustainable and functional recycling of secondary raw materials.

Demonstrate, through a set of dedicated pilot plants, the real implementation of a circular economy.

Validate how KETs could support the evolution of current end-of-life processes towards a sharing of information with all the end-users (both industrials and consumers).

Prove how production process flexibility could be exploited to easily reuse/reconfigure capacity all over Europe for several supply chains, what are the processes enabling their integration (and the creation of new ones) and how they could be able to offer new business opportunities from the treatment of different kinds of materials and the development of sustainable product-services.

TECHNICAL APPROACH



FENIX WILL USE



Three independent pilot plants, combining semi-automated assembly/disassembly, chemical materials recovery and additive manufacturing processes for demonstrating into practice the real benefits coming from the adoption of circular economy principles



Industry 4.0 and IT customized tools enabling the acquisition and usage of field data, coming from IoT sensors



Computing simulation to verify both the theoretical performance and process reconfiguration of each pilot plant