



**Integrating agroecology
with the downstream:
non-food value chains**

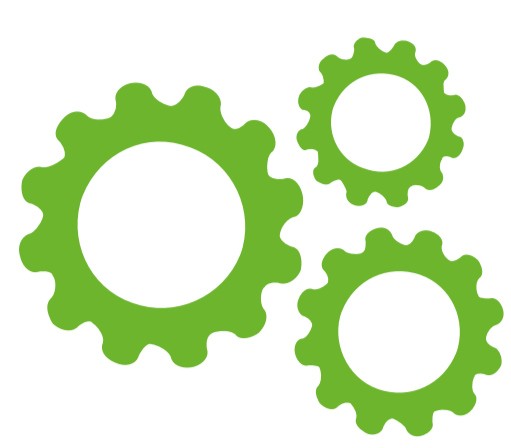


**AGRI
Innovation** summit 2019

Operational Group

Noir & Sens

Noir & Sens



Practical problem

Industrial tool to upgrade low quality regional woods by superficial burning.



Partners

Moreau, oak sawmill-ITECH SYSTEM, IR thermal elements-Art In Progress, La Racine, design & market studies-FCBA, laboratory-Arbocentre, coordinator.



Calendar

Start: 01/01/2017
End: 01/01/2020



Budget

Total amount:
€228,883.53

Objectives of the project

Noir & Sens aims to develop an industrial burning tool, reliable and energy efficient, and also to identify markets and products where lower quality burnt regional woods will have sufficient added value to be competitive. Using design to create regional burnt wood product ranges that will have a significant economic impact and disseminate this technique of wood transformation. Replacement of energy-intensive products or chemically-treated wood by local wood with surface burning and recyclable.

Main activities

- Trials and technical optimization of wood burning oak (sapwood), poplar and pines;
- Develop an industrial burning tool, reliable and energy efficient;
- Identify markets and products with burnt oak, poplar and pines (with new uses with higher quality);
- Develop short supply chains for local wood.

Expected results

- Development of valuable techniques of surface heat treatment of wood and timber from different wood species;
- Development of an efficient prototype, low energy consumer, for wood surface burning, that could result in an industrial tool of surface heat treatment of wood and timber;
- Ranges of burnt wood products that will have sufficient added value and economic impact on lower quality regional woods;
- Launch and commercialization of several product lines of second quality local wood products;
- Increased demand on local wood and timber;
- Indirect development of forestry, and its amenities, and of all the ecosystem services provided by the forest.

Results so far/first lessons

Wood burning is efficient and needs low energy. We have to improve stabilization of black carbon on wood surface. First identification of new opportunities for burnt wood: outdoor uses such as fences, backyard composters, benches, square foot garden, cladding...; indoor uses such as shelves, coat hangers, tables, bookshelves...

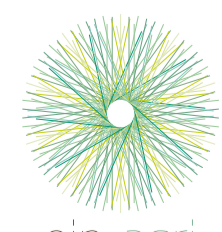
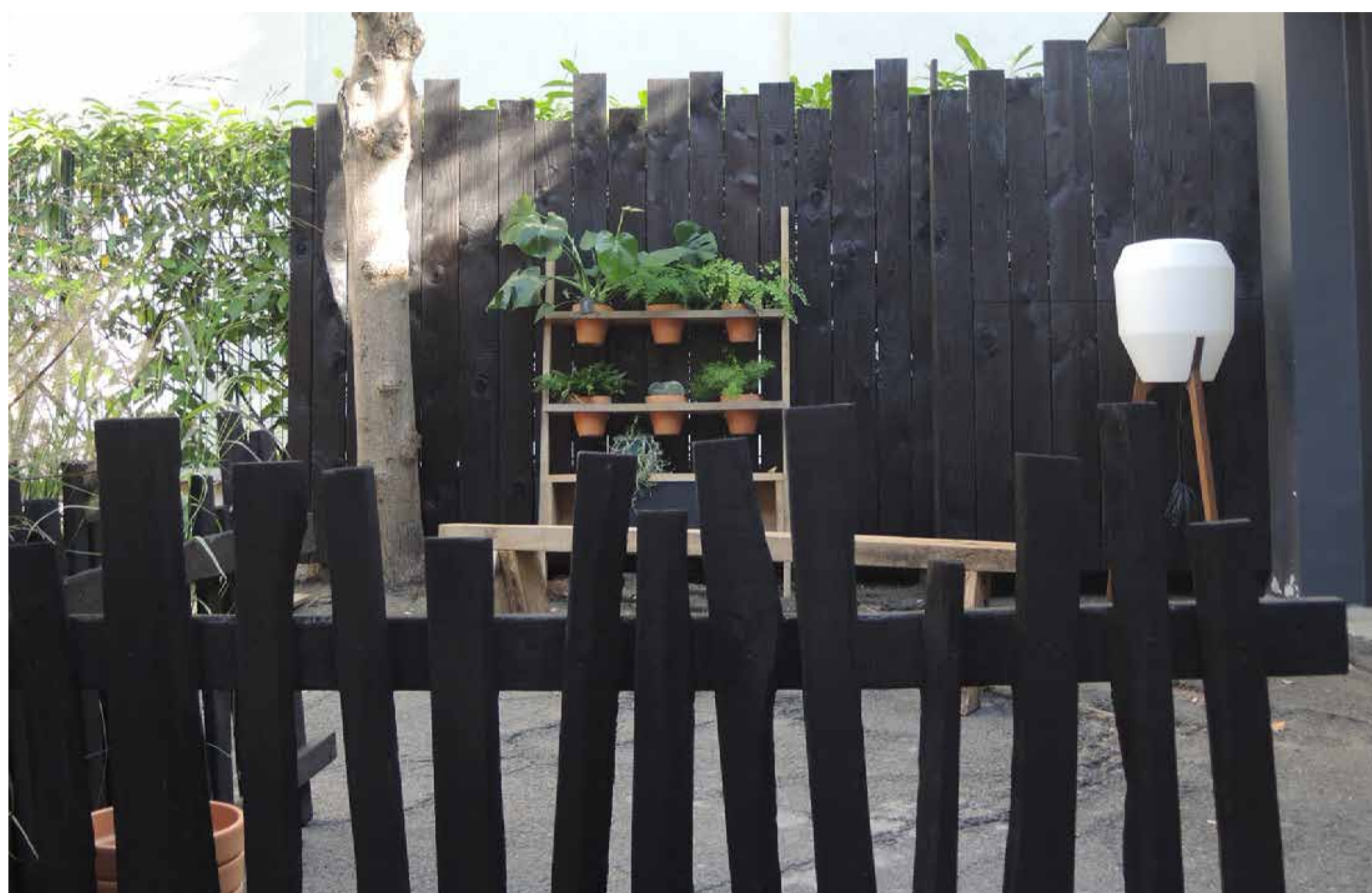
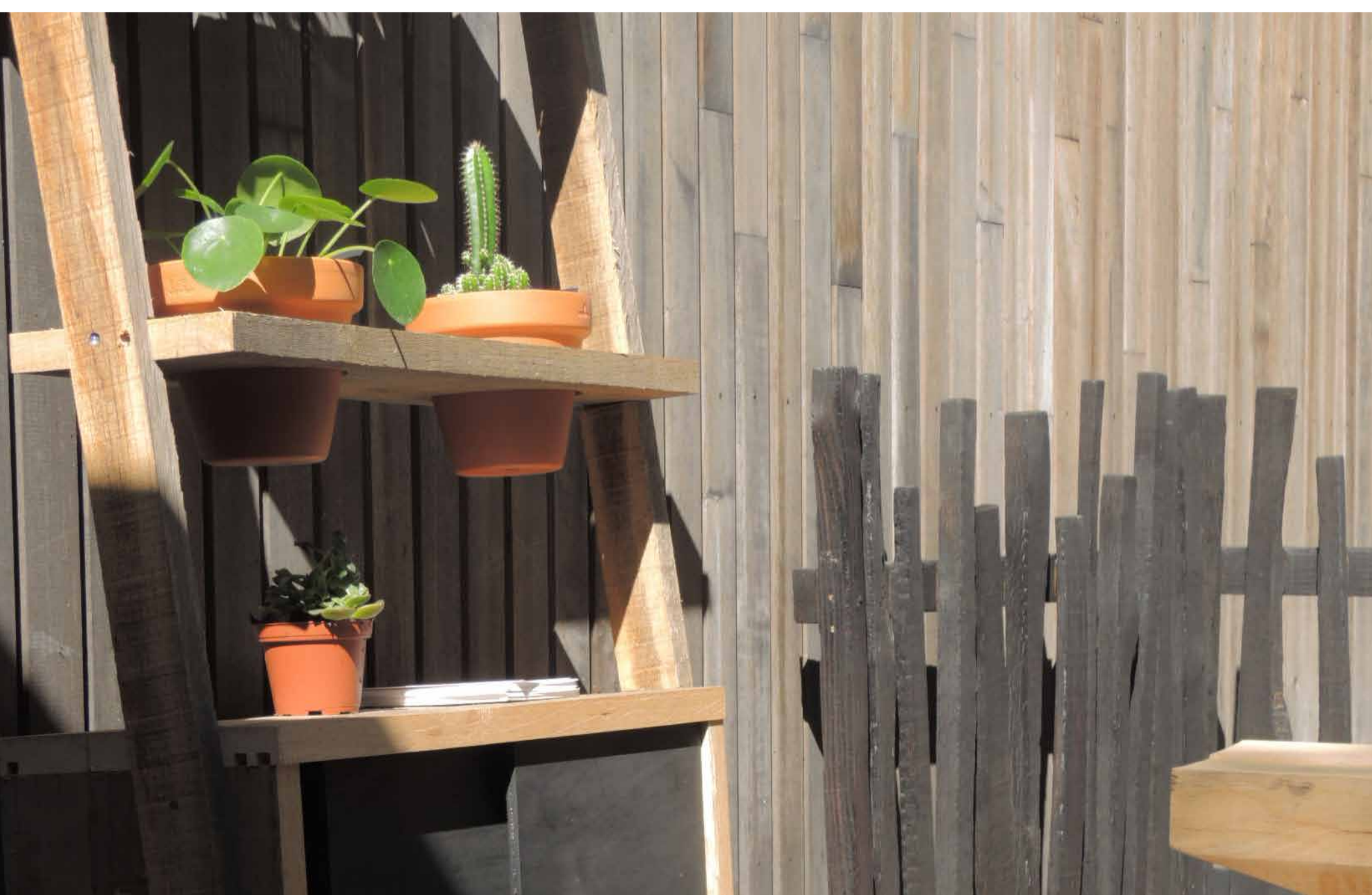
Who will benefit

Customers, forest and wood industry

Supported by:



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