Valofungi: Extra value of mushrooms by-products

Pleurette A



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Co-Founder - Business Director R&D Chief Innovator









Agri - Agro Food innovative company

- Created on 23rd August 2016 on circular economy principles
 Innovations in the field of urban agriculture
 Innovations in the field of vegan products
- Incorporated on fresh vegetable Market Place of Lille, 2nd most important "Marché d'Intérêt National" in France
- ▶ 2018: 9 FTE, 0,5M EUR turnover as annual trend
 - 2019: 15 FTE, 1,2M EUR turnover as annual target
- Incubated by Euralimentaire for our waste to mushroom project urban agriculture project (piloted by Eurasanté, top 15th European incubators)
- Supported by the French Public Investment Bank
 Soutenu par







Our innovative company in circular economy fields

► Growing oyster oyster mushrooms in former shipping containers





THE MUSHROOM REVOLUTION

ECO-ORGANIC MUSHROOM FARM

FROM WASTE TO MUSHROOM

▶ Growing shiitakes, nameko, eryngii in city underground former stone quarries







Our food current innovations: description

Organic, vegan, soya-free, gluten free bolognese sauce







FROM OYSTER-MUSHROOMS BY-PRODUCTS
TO VEGAN FOOD

THE NEW VEGETARIAN SUSTAINABLE GROUND "MEAT"
SOLUTION

Organic, vegan, soya-free, gluten free spreadable appetizers







- ► Cooled (4°C) and unique on the market
- Answering major trends









Other vegetal range of products pending...

Sustainability of the concept

► Use of the waste of the oyster mushroom cultivation industry in Europe to produce vegan & organic gluten free products with our solution to replace meat













Sustainability

▶ Water savings : factor 253 on meat water consumption reduction

Fresh Meat / 26,3% Protein	Fresh Mushroom / 3,31% Protein
1kg = 13500l water	1kg = 6,7l water
(1kg beans = 4100l water)	53,23l water for equivalent amount of protein
253 time less water to produce mushroom based protein	

- Not extracted protein and made from mushroom's stems: adding value to food waste
- ► Agricultural foot print : no soil needed to cultivate mushroom
- ► Environmental damage of animal manure : no damage from mushrooms cultivation
- Mushroom substrate residues : fertilizer for the soils
- Recycling urban residues to cultivate mushrooms: less waste & positive impact on the environment (methan emissions also avoided by use of the residues)
- Reducing gaz emissions: 9% of the CO2 is coming from animal breeding/deforestation



Our projects: Valofungi & Valcoflex

Valofungi Project: 5 steps

- ► Added value **for** mushrooms
- Added value from mushrooms

1. VEGGIE FOOD R&D FROM MUSHROOM BY-PRODUCTS

- ▶ Invest in French R&D internal lab and new proper production facility
- Partner with international players
- Develop more products about mushroom residues upcycled to tasty healthy products:

Other vegetal range of products are under preparation such as vegetarian meatballs, vegeburgers (vegan steaks), gluten free croquettes, mini sausages, ...

Enrol consumers in the Mushroom Revolution and show them the great potentials of the mushrooms!

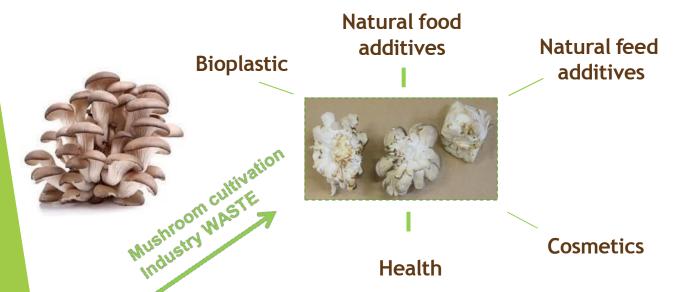


- Plant based protein
- Sustainable protein
- Environmental friendly
- Healthy
- Tasty

Our projects: Valofungi & Valcoflex

Valofungi Project: 5 steps

- ► Added value **for** mushrooms
- Added value from mushrooms
- 2. ENRICH OYSTER-MUSHROOMS WITH D-VITAMINE (fonctionnal food)
- 3. USE OF THE (WASTE OF) MUSHROOMS CULTIVATION INDUSTRY IN EUROPE TO EXTRACT ADDED VALUE MOLECULES AND COMPOUNDS OF INTEREST







Our projects: Valofungi & Valcoflex



Valofungi Project: 5 steps

- Added value for mushrooms
- Added value **from** mushrooms

4. AFTER GETTING SUPERFOOD FOR HUMANS, FORMULATE SPENT CULTIVATION SUBSTRATE FOR FARMER AS SUPERFOOD FOR ANIMAL

Added value in cattle feeding: enhanced digestibility, proteins easily available, less harmful gazes emissions after cow digestion

5. MEDICINAL ORGANIC

Lots of mushrooms coming from China: not organic for EU Health market Functional beverages could be developed such as coffee or thee boosting health benefits

Valcofex Project: 5 steps

- Valorisation of coffee extracts: cosmetics
- Cascading extractions of coffee grounds









We already collect and process coffee waste for 4 years...

The future of Pleurette: Newcorp



Our goal is to value the full potential of coffee grounds extraction with a dedicated biomicrorefinery



- --> look for partnering & funding for R&D project
- -> 4 years collaboration with Cabeco (Belgium)
 - -> cosmetic project fully ready in 20 months

Pleuvette FROM URBAN WASTE TO MUSHROOM

► FROM MUSHROOM BY-PRODUCTS TO VEGAN FOOD

Thank you!
Questions?





