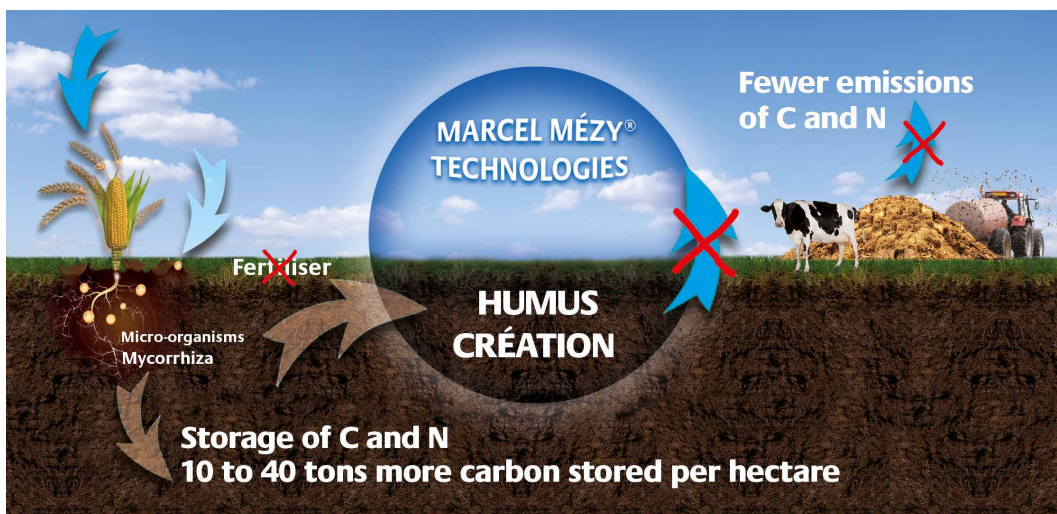




Sols remediation



THE 3RD AGRICULTURAL REVOLUTION STORE CARBON IN THE SOIL – REDUCE EMISSIONS



USING MICRO-ORGANISMS TO REDUCE GREENHOUSE GASES

With 30 years hindsight and 10 000 farms using the concept, Marcel Mézy® Technologies are proving to the world that it is possible to store carbon and nitrogen in the soil and substantially reduce greenhouses gases generated by intensive farming. Indeed, use of chemicals, heavy works of soil, manure and livestock buildings are sources of GHG. Marcel Mezy® Technologies have been subject to numerous official experiments, the results attest their efficiency in favour of the environment for the quality of soil, air and water.

10 TO 40 ADDITIONAL TONS OF CARBON STORED PER HECTARE BY QUICKLY PRODUCING HUMUS IN THE SOIL

Increasing the production of humus in the soil enables, among others, carbon and nitrogen sequestration, reducing the evaporation of those elements in the form of greenhouse gases.

Real ally of nature, Bacteriosol® techology is unique. It is based on a selection of spontaneous microorganisms, which are then seeded to provide the soil with a real ecosystem. It quickly produces and transforms organic matter, by capturing

elements in the air (nitrogen, CO₂) and reorganizing the organic and mineral matter of the soil, to create and increase humus in the soil and restore its natural fertility. It thus helps to reduce or eliminate the use of chemical fertilizers. Humus is a genuine carbon and nitrogen sink reducing CO₂ and nitrogen emissions in the air.

REDUCTION BY 82% OF NITROGEN EMISSIONS INSIDE LIVESTOCK BUILDINGS REDUCTION BY 36% OF NITROGEN EMISSIONS DURING STORAGE OF BIOGAS DIGESTATES

Bacteriolit® technology is used with all forms of organic matter (manure, green waste ...). Also applied by seeding, it increases their fertilizing value while reducing odors. Its use in livestock buildings significantly reduces ammonia emanations and highly contributes to the health and comfort of animals and breeders.

MAINTAINING HIGH YIELDS IN AN ECO-FRIENDLY SYSTEM

These fertilization technologies, structure, balance and enrich the soil, which facilitates work while reducing equipment wear and fuel consumption. They allow high yields, even in organic farming, and improve the quality of livestock and crop production. They protect groundwater, by greatly reducing leaching of soluble elements, including nitrates. The 10 000 farms that have adopted these technologies are actively contributing to the reduction of greenhouse gas emissions.

Expérimentations réalisées par des organismes officiels.

Résultats disponibles sur

www.marcel-mezy-environnement.com

Experiments conducted by official bodies.

Results available on www.marcel-mezy-environnement.com

REDUCTION OF GREENHOUSE GASES

- 2.3x less CO₂ consumed for manufacturing it than conventional nitrogen fertilizer (Grignon positive energy, AgroParisTech 2006)
- 45% cost reduction in equivalent CO₂ by decreasing chemical fertilisers use (Prof. M. Mazoyer, AgroParisTech 2005)
- 82% reduction of nitrogen emissions in poultry houses (Poultry Institute, ITAVI, 2006)
- 43% to 50% reduction of dry matter losses of manure (INRA 2002, AgroParisTech 2010)
- 36% reduction of nitrogen emissions from biogas digestates (Hessenwasser, Germany 2014)

ECONOMY AND PROTECTION OF WATER RESOURCES

- Less water pollution, by nitrates particularly (Agra-Ost Belgique, Lara Europe Analyses)
- Reduction of irrigation by 1/3 (M. JF Berthoumieu, Agralis 2012)
- Removal of P and K fertilisers and reduction of nitrogen by 50% (Pr. M. Mazoyer, AgroParisTech, 2005)
- Increase of plant biodiversity by 70% (M. Yves Angoy, 2005)

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