



EU 2020 AND BEYOND
THE ROLE OF BIOTECHNOLOGY
IN EUROPE'S RESPONSIBLE INNOVATION

EUROPA BIO™

Industrial Biotechnology

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Council, EuropaBio



Bio-based products in our daily life



Cosmetics

- More than 60% saving in energy consumption
- More than 60% saving in CO2 emissions

Vitamins – B2

- 40% cost reduction
- 80% reduction in the use of non-renewable resources
- 66% reduction in emissions to water



Bio-based products in our daily life



Food - Baking

- Allow bread to stay fresh and moist longer
- Maximise the fermentation process
- Bleach and strengthen dough

Bio-based Polymers

- Up to 65% reduction in petroleum use & 68% reduction in GHG emissions
- Applications: carpeting, fabrics for clothing & interiors, personal care products, automotive components, food packaging, de-icing fluids, etc.



Bio-based products in our daily life



Dyes for the textile industry

- Production of chemical-based dyes requires temperature up to 70-90° in harsh conditions
- The biological synthesis of these colorants can be obtained at ambient temperature, under mild conditions



Biofuels

- Reduction of dependency on fossil fuels
- Up to 90% reduction of GHG emissions



Antibiotics - Cephalexin

- 13 chemical steps replaced by 1 biotechnological step
- 3 million doses of antibiotic / day
- 90% reduction of solvents
- 75% reduction of CO₂ emissions



Pulp and paper production & bleaching

- Reduction of the amount of chlorine chemicals by 10% to 15%
- Up to 40% reduction of energy during bleaching process

Today and in the Future

