

# Biostimulants: Framing a New Tool for Agricultural Innovation

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# THE BIG PICTURE: THE CONTEXT DRIVING THE EMERGENCE OF BIOSTIMULANTS

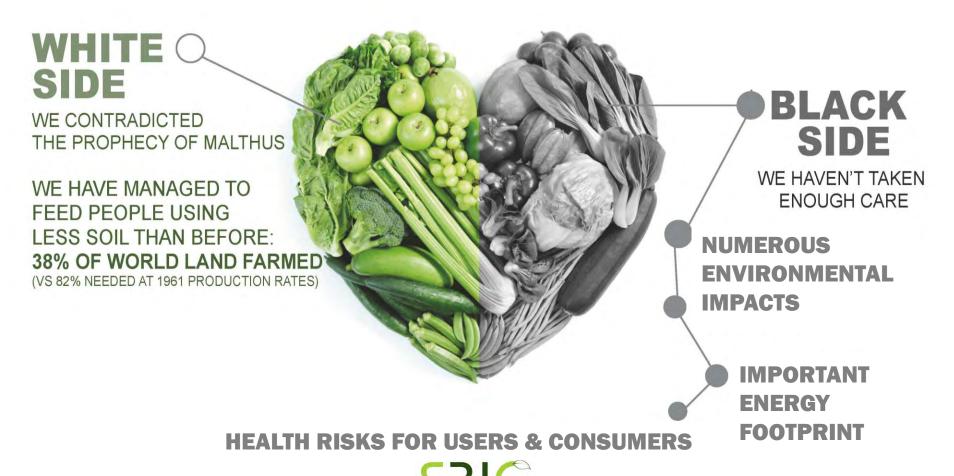


### The paradox for 2030: we need to overcome resource constraints to meet higher demand

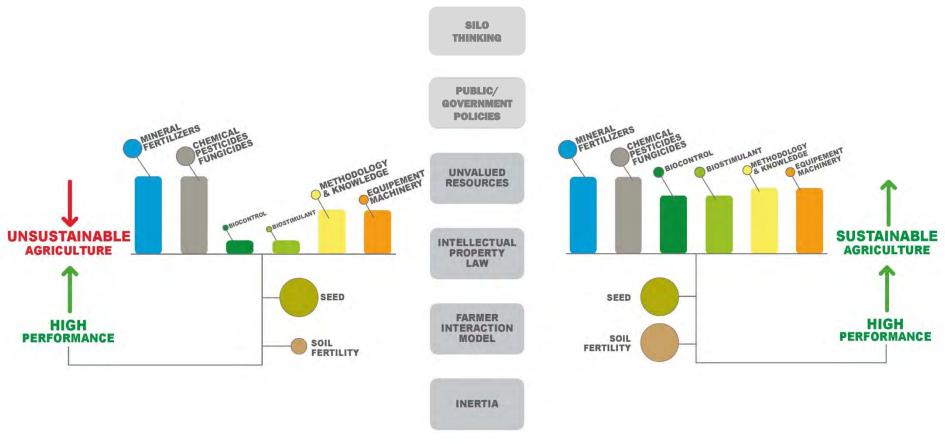




# The Green Revolution was a triumph for increasing the food supply, but also has undesired side effects



# Numerous obstacles prevent bio-based technologies from making their full contribution to a more sustainable system





Ever more demanding consumers have more and more influence on agriculture and how it is



Photo: iStock

ABIM 23 October 2013 - 7

#### Farmers also need many things from agriculture

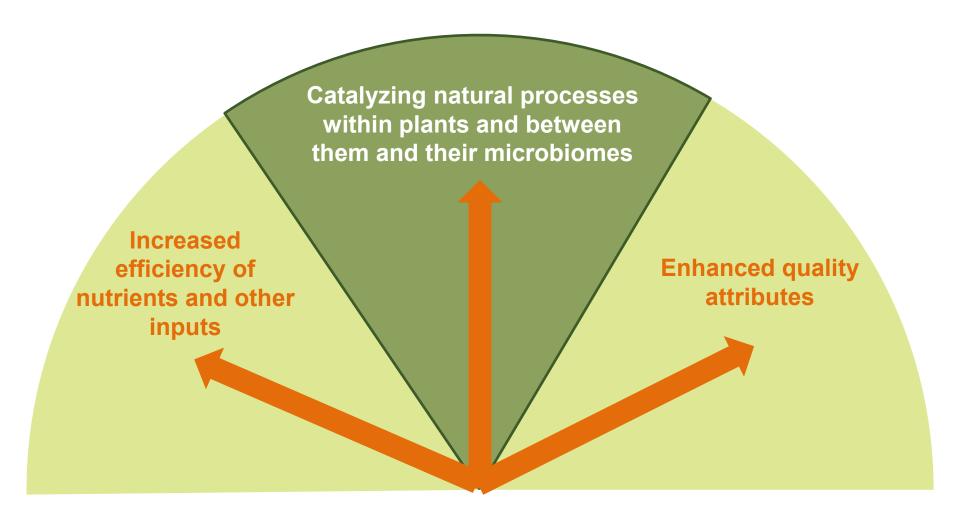




### THE ROLE OF BIOSTIMULANTS IN SUSTAINABLE INTENSIFICATION



#### Biostimulants are enablers





### Biostimulants support the 3 pillars of the EU's 2020 Strategy



Smart growth



Inclusive growth

Sustainable growth

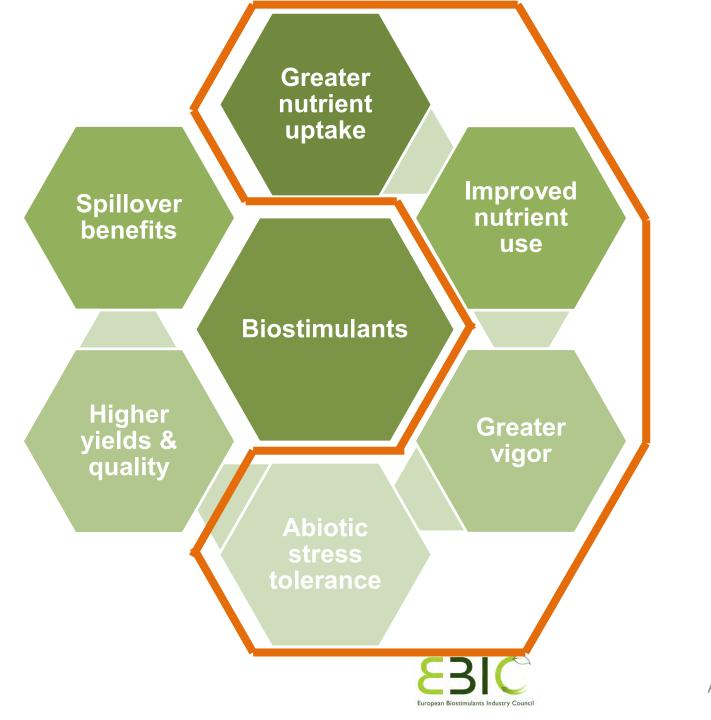




# "Biostimulants are defined more by what they do than by what they are."

Prof. Patrick du Jardin Université de Liège - Gembloux





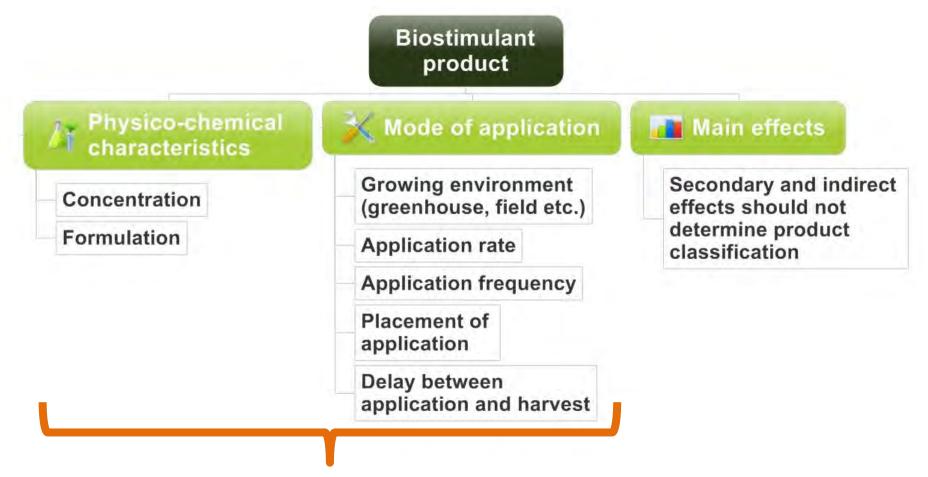
The basis of EBIC's "functional use" definition

#### Plant biostimulants defined:

"A material which contains substance(s) and/or micro-organisms whose function when applied to plants or the rhizosphere is to stimulate natural processes to enhance/benefit nutrient uptake, nutrient efficiency, tolerance to abiotic stress, and crop quality, independent of its nutrient content."



#### A holistic concept of a product



The risk profile can only be derived from this holistic view.



#### EBIC at a glance

- 11 members in June 2011 → 37 members today
- Dedicated to creating a truly European market for biostimulants to achieve:
  - More sustainable agriculture
  - Innovation-based job creation
- Milestones:
  - Secured the place of biostimulants in the revised fertilizer regulation
  - Negotiated a regulatory **definition** with EU authorities and other stakeholders
  - Co-designed (with authorities) an innovative regulatory framework for ensuring safety and quality and fostering continuing innovation and competition
  - Recognized as the global reference for the biostimulant industry
- Launched Code of Conduct for Placing Biostimulants on the Market
   15 October 2013



# APPROPRIATE REGULATION: THE FOUNDATION FOR MARKET DEVELOPMENT



#### Regulatory needs

REGISTRY SYSTEM,

BETTER ABLE TO ACCOMMODATE NEW PRODUCTS AND TECHNOLOGIES THAN TRADITIONAL LIST SYSTEMS

TO LET COMPANIES INVEST:
THE REQUIRED **DOSSIER**SHOULD BE **MANAGEABLE**,
EVEN FOR **SMES** 

FOR RELATED INDUSTRIES

TO REGULATE RELATIONSHIPS

**PROPORTIONATE** 

FAIR—FOR CONSUMERS

TO PROTECT THEM AND GUARANTEE FOOD SAFETY & QUALITY

**NEW REGULATION** 



#### The registry proposed by EBIC

#### **COMPANIES**

#### **Application:**

- Company info
- Product characteristics
- Manufacturing processes
- Declared claim(s)
- Dossier supporting claims\*
- Risk assessment dossier\*
- Synopsis of supporting dossiers

Certificates-on-demand: e.g. Certificate of inclusion in EU registry of fertilizers and related products

#### **AUTHORITIES**

- Passive authorization
- Spot checks: confirmation, requests for more info, withdrawal

Registry / clearinghouse

#### **PUBLIC**

#### **Summary product sheets:**

- Company info
- Product description
- Declared claims
- Synopsis of supporting dossiers
- General safety info



\* Data will be held by companies, accessible to authorities on request.

### "Dual-use products" and fair competition

- ✓ The claims justification needs to be compelling that the product has biostimulant effects otherwise it cannot be registered as a biostimulant.
- ✓ Products need to be registered/authorized for any claims made. According to Dir. 2009/128/EC it is already illegal to make PPP claims for a product that is not authorized for use as a PPP.
- ✓ To make claims of two different natures for an identical (and not just similar) product, a producer must seek authorization under both frameworks; to lighten the burden, only the more stringent risk assessment would apply.
- ✓ In the case of doubt, a procedure will be established for review on a case-by-case basis.
- ✓ The EBIC Code of Conduct requires members to commit to respect these provisions. EBIC offers guidelines to help members comply, especially when products have a different status in various markets.



### Code of Conduct on Placing Plant Biostimulants on the Market

- Launched 15 October 2013
- Implementation steps/resources:
  - Required for EBIC membership
  - Members to develop individual compliance plans
  - Guidelines for communicating about products that are regulated differently in various markets developed
- Process for investigating alleged violations
  - Independent review panel
  - Attempt to seek amicable resolution
  - Expulsion from EBIC as the ultimate recourse
  - Possibility of a quality mark in future



#### Why was the Code developed?

To respond to issues that affect the reputation and market potential of biostimulants and of the companies that produce them by committing to high ethical standards.

- The science behind our products will give customers a choice of effective and proven products (not "snake oil"!).
- The science behind our products will also demonstrate that they are safe for users, consumers and the environment.
- This emerging technology is a unique niche, not an attempt to bypass regulations for registering plant protection products.
- The process for placing biostimulants on the market will not create "disloyal competition".





## The Code is about convergence and iterative adjustments

The Code represents a journey of continuous improvement towards the future European regulation.

Gradual convergence through the application of EBIC's Code of Conduct





Today's practices, based on national rules, where they exist

**Future EU regulation** 

www.biostimulants.eu/ebic-code-of-conduct



#### The beginning of a journey





#### More information

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