





The phosphorus issue in the new Regulation of fertilizers: the vision of Assofertilizzantii

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www.smart-plant.eu/ENE3











WHO WE ARE

Assofertilizzanti is one of Federchimica's (National Association of the Chemical Industry) 17 Associations that safeguards and represents all the productive divisions of the fertilizers sector.

54 affiliate members



3 groups

mineral fertilizers

1 bilion €

Turnover

- organic-mineral and organic fertilizers, soil improver and growing media
- specialities biostimulants

90% market representation













PHOSPHORUS SCENARIO

importance of phosphorus

- phosphate (P) fertilizers are essential for food production
- it is a component of nucleic acids, lipids and a key to energy transfer

source

obtained from **rock phosphate** mines, **animal by products** or **by-products**







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2015/16

2016/17





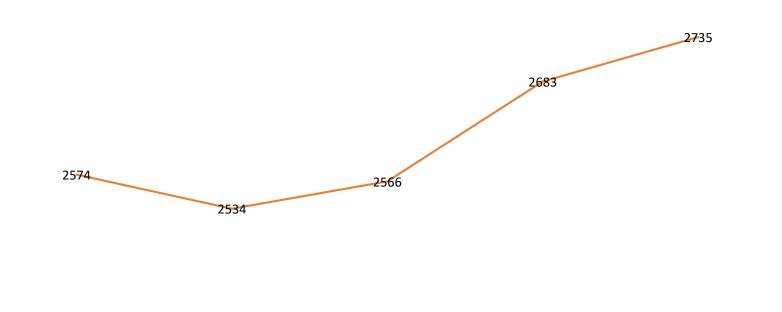
2021/22

2026/27



PHOSPHORUS SCENARIO

PHOSPHORUS CONSUMPTION (kt)



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2017/18











REGULATION AND POLITIC



Which factors will influence the consumption of fertilizers in the next 10 years?

- New fertilizer regulation
- Revision of the CAP
- Bioenergy and environmental policy

Main goals

- following the norms in order to be ready for the changes
- drive technological innovation











NEW REGULATION

main goal

- incentivize organic or secondary raw materials recovery
- transforming waste into nutrients for crops
- make easy the access to the internal market

but...

make equal rules and competition with linear economy model



- encourage large-scale production in EU
- CE mark on voluntary basis
- elimination of obstacles to free sales
- integrated and fairer market











NEW REGULATION

EXPLANATORY MEMORANDUM

The main policy objective of the initiative is therefore to incentivize large scale fertilizer production in the EU from domestic organic or secondary raw materials in line with the circular economy model, by transforming waste into nutrients for crops. The proposal will provide a regulatory framework radically easing access to the internal market for such fertilizers, thereby levelling their playing field with that of mined or chemical fertilizers produced in line with a linear economy model.













NEW REGULATION

Unresolved issue

- ROCK PHOSPHATE
 - cadmium content
- ABPs PRODUCTS

 end point issue
- ena point issue
- BY PRODUCTSshall be reached a compromise















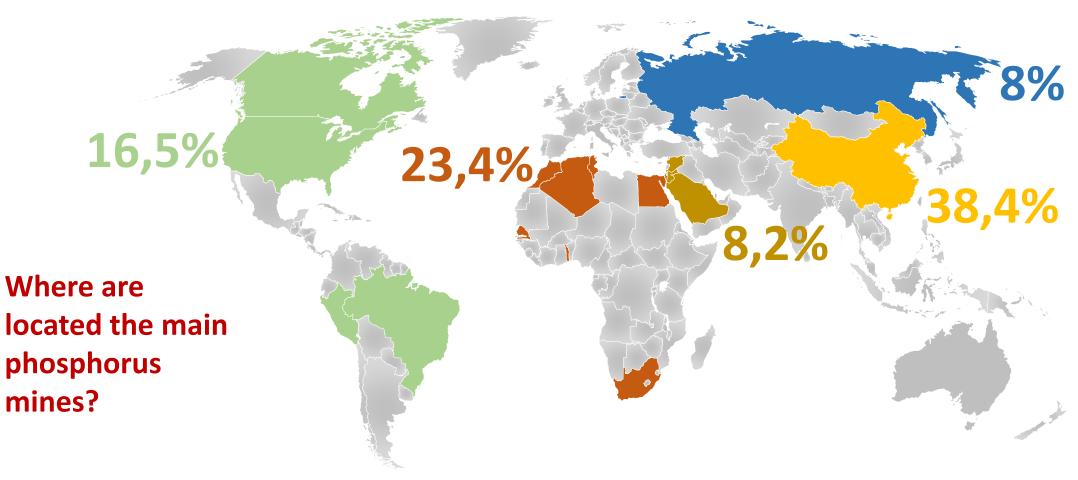








PHOSPHATE ROCKS









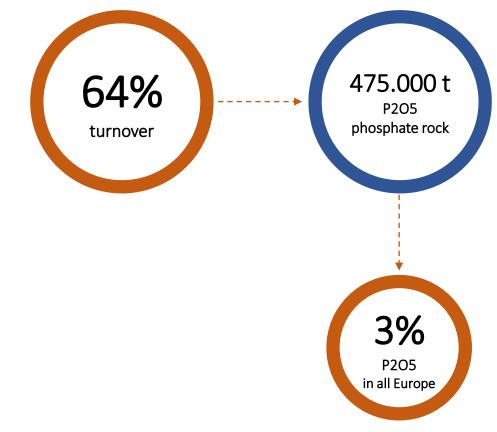






PHOSPHATE ROCKS

Italy totally depends from import

















PHOSPHATE ROCKS

EC proposal introduces restrictive cadmium limits





NOW UNDER TRILOGUE NEGOZIATION

- the IFS study¹ shows that 75 mg/Kg is a sustainable benchmark that guarantees no accumulation of cadmium in the soils
- the limits proposed by EC are not feasible in the time limits proposed
- the decadmiation technologies are not still refined
- distant phosphorus supplies could allow a worsening of carbon footprint caused by an increase of transports and distributions

ORIGINAL PROPOSAL

from starting 60 mg/Kg

to 40 mg/Kg after 3 years

till 20 mg/Kg after 12 years















A natural phosphorus source

- some fertilizers ABPs based have high content of phosphorus (e.g. bone meal with a minimum of 18% of phosphorus)
- Italy is the European leader in the production of organic and organo — mineral fertilizers ABPs based
- all ABP without an endpoint are regulated by Reg. 1069/2009 and Reg. 142/2011

no longer pose any significant risk to public or animal health

What's the matter?

If a raw materials fall within the scope of Regulation (EC) No 1069/2009 and has not reached the end point in the manufacturing chain, the products should be excluded from the scope of the new Regulation.

WE NEEDED AN ENDPOINT!













Currently the endpoint is foresee only for these fertilizers:

- hides and skins
- wool and hair
- feathers and down



excellent nitrogen sources AND PHOSPHORUS?













EC proposal doesn't include by-products

which destiny for struvite, biochar, sewage sludge, etc...?

Under discussion two proposals:

- European Parliament
- European Council



EUROPEAN COUNCIL

Includes by products as raw material if they are complying within:

- the meaning of Directive 2008/98/EC
- REACH registration













OUR POSITION

WHAT WE

safeguard the agriculture sector, THINK without unjustified restrictions for phosphates fertilizers



HOW?

- choices based on **scientific data**
- make a **risk assessment evaluation** as for the major part of substances of very high concern
- **safeguard** the SMEs R&D investments













OUR POSITION

Cleaner soil and healthier food

circular and linear models must guarantee it in a sustainable way

