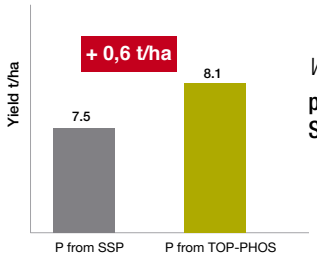
From the science to the field

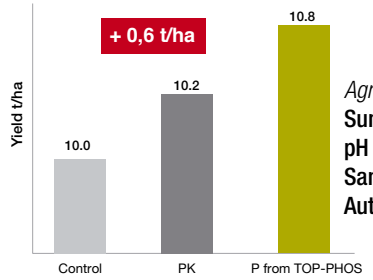
➔ On cereals

TOP-PHOS effect on wheat yields



Wheat trail CAB terra Institute, 2013
pH 8
Same P input

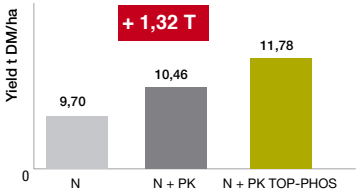
TOP-PHOS effect on wheat yields



Agroressources, 2014 and 2015
Summary of 3 wheat trials
pH 6,9
Same P input,
Autumn application

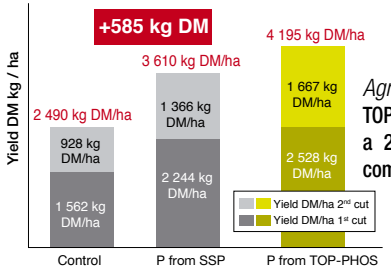
➔ On forage crops

TOP-PHOS effect on silage maize yields



Agro Purpan University, 2013
pH 7,1
Same N, P and K input

TOP-PHOS effect when reducing inputs
Reseeding grass, cumulated DM in 2 cuts



Agroressources, 2011
TOP-PHOS: 585 kg of DM/ha despite a 25% decrease in P_2O_5 application compared to control

TOP-PHOS®

Fertiliser TOP-PHOS technology

REGULATORY INFORMATION

TOP-PHOS 23
EC FERTILISER
Single superphosphate
0-23-0 (24)

23%	**PHOSPHORUS PENTOXIDE (P_2O_5)** soluble in neutral ammonium citrate which 21,4 % phosphorus (P2O5) soluble in water
24%	**total SULPHUR TRIOXIDE (SO_3)**

RECOMMENDATIONS

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GROUPE ROULLIER

MN6D101 1736 - Photos : Istock - Groupe Roullier

TOP-PHOS®

TOP-PHOS

23

New generation phosphorus

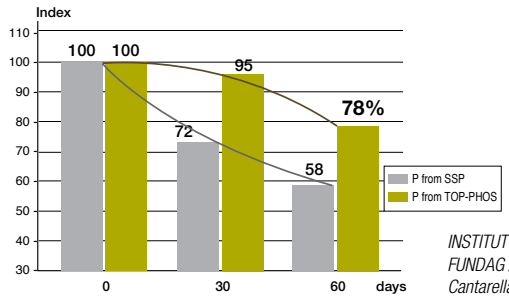
TOP-PHOS®

New generation phosphorus

1 A quick and resistant phosphorus

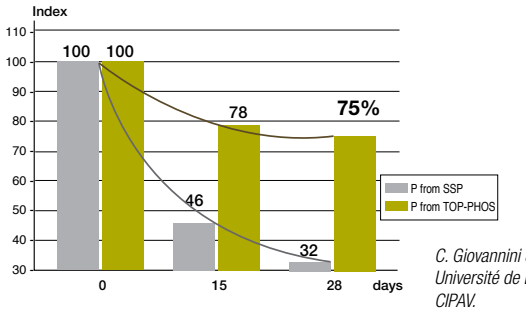
➔ A new form of phosphorus with strengthened protection for a sustainable action.

% P available in an acidic soil



INSTITUT AGRONOMIQUE / FUNDAG / TIMAC ; Heitor Cantarella, IAC, Brazil

% P available in an alkaline soil

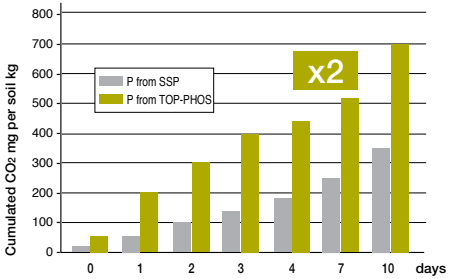


C. Giovannini & al, 2012; Université de Bologna and CIPAV.

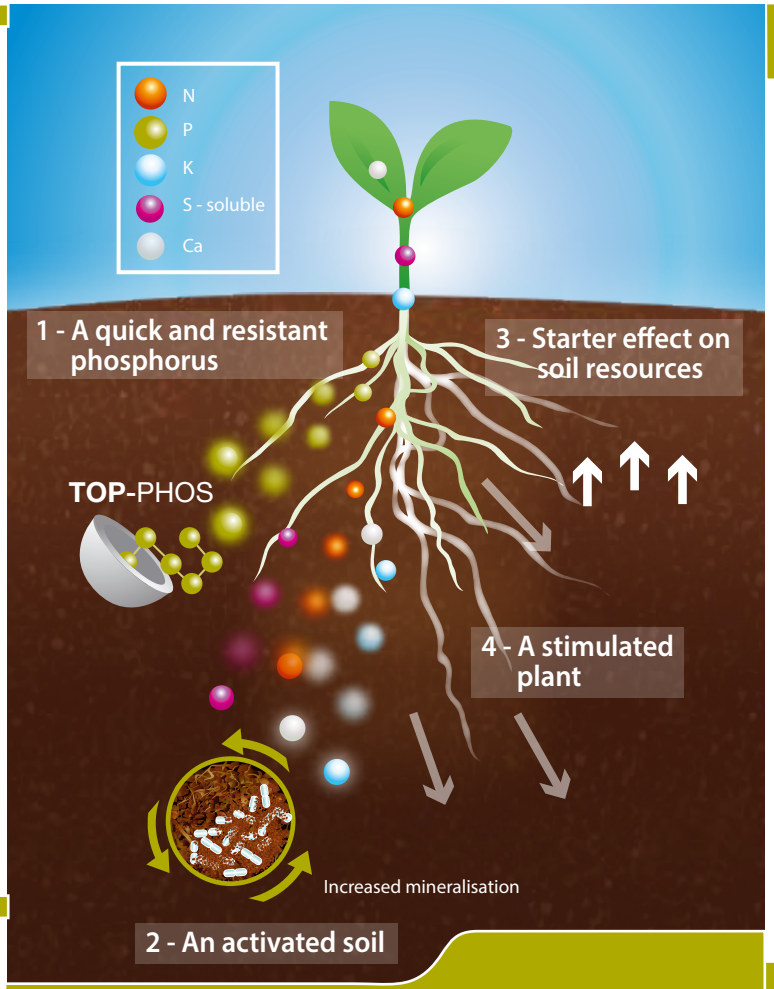
2 An activated soil

➔ A stronger action on microbial life.

Action of TOP PHOS on microbial life



(Bologne University, 2009)



TOP-PHOS

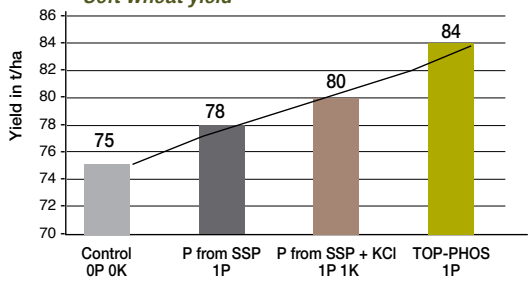
- A unique patented new form of phosphorus, registered under REACH in 2014
- An activated soil
- A stimulated plant
- A starter effect

➔ **An effective nutrition for an efficient, sustainable and environmentally friendly agriculture**

3 Starter effect on soil resources

➔ Trials on soft wheat

Soft wheat yield

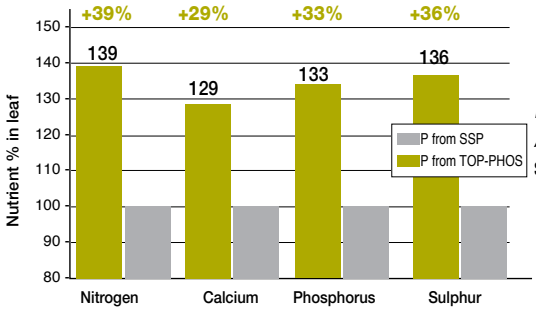


Small plot trial with an arable distributor

TOP-PHOS releases potash from the soils

➔ Trials on Ryegrass from Italy

Nutrient % in leaf after harvest, ray grass

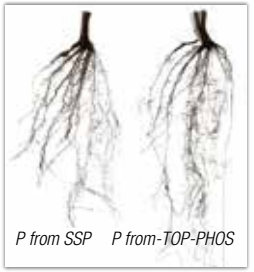


Lara Europe Analysis, **same P inputs**

TOP-PHOS improves the mineral elements availability from the soil and the quality of yields.

4 A stimulated plant

➔ More roots growth



TOP-PHOS :

Positive effect on roots volume (+55%), Phosphorous uptake (+25%) and crop yield

International congress on Phosphorous, 2014

Poster, AGROSCOPE Institute, Roullier R&D