

# PHOSPHORUS: CRITICAL RAW MATERIAL

Phosphorus is essential, as nutrient and key element for many applications in different industrial sectors, such as agro-industrial and fisheries as well as Hi-Tech sectors (i.e. lithium-iron-phosphate batteries and lithium-manganese-iron-phosphate batteries). It is included in the list of critical materials for Europe, as it is not available as a primary resource on our continent, currently with a low rate of recycling from secondary sources and not substitutable. As a consequence, we are almost totally dependent on imports from non-European countries.

## THE ITALIAN PHOSPHORUS PLATFORM

The Minister for Environment has promoted the National Phosphorus Platform in 2019, identifying ENEA as Manager, aiming to achieve self-sufficiency for the phosphorus cycle on national basis and coordination with European policies. The Platform includes phosphorus cycle stakeholders (research centres and academy, public and private institutions, companies and associations, civil society).

The platform is member of European Sustainable Phosphorus Platform (ESPP), through subscription of Italian Minister for Environment (<https://www.phosphorusplatform.eu>).



Platform Manager: ENEA

The National Phosphorus Platform is promoted by the Ministry of the Environment and Energy Security

The Italian platform brings together businesses, institutions and associations aiming to close the loop on phosphorus, a critical raw material for Europe, essential in multiple applications.



[www.piattaformaitalianafosforo.it](http://www.piattaformaitalianafosforo.it)

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## Italian Phosphorus Platform

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## OBJECTIVES

### Short term:

To promote the existing best practices for circular phosphorus management.

### Medium-long term:

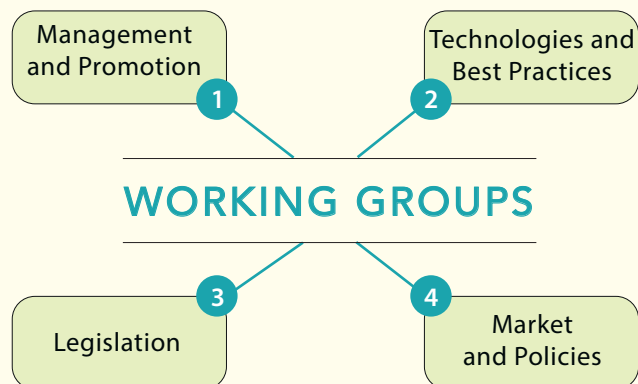
Making our country self-sufficient on phosphorus supply.

## APPROACH

The Platform's approach is based on the principles of the circular economy, therefore on closing the loop of the entire value chain, from primary production to recovery from secondary sources, and is divided into 4 working groups (WPs) addressing the issue from different points of view.

### EQUAL COORDINATION GROUP

Minister for Environment	ENEA
Pietro Cucumile PRESIDENT Franco Bisconti Francesco Beneventi	Claudia Brunori Daniela Claps Roberta De Carolis



Working Group	Role
Working Group 1 <b>MANAGEMENT AND PROMOTION</b>	<ul style="list-style-type: none"> <li>It guarantees the platform coordination and engagement</li> <li>It manages the international activities, in particular with European Sustainable Phosphorus Platform</li> <li>It promotes the platform activities and it keeps the website updated</li> </ul>
Working Group 2 <b>TECHNOLOGIES AND BEST PRACTICES</b>	<ul style="list-style-type: none"> <li>It updates the available innovative technologies for circular phosphorus management</li> <li>It updates the available good practices for circular phosphorus management</li> </ul>
Working Group 3 <b>LEGISLATION</b>	<ul style="list-style-type: none"> <li>It updates the regulatory status</li> <li>It coordinates the proposal for obstacles overcome</li> </ul>
Working Group 4 <b>MARKET AND POLICIES</b>	<ul style="list-style-type: none"> <li>It updates the policies related the phosphorus market</li> <li>It updates the phosphorus market status</li> <li>It manages the National Phosphorus Database</li> </ul>

## HOW IT WORKS

- Periodical plenary meetings
- Periodical working groups meetings
- Information exchange als through website
- Periodically update with Minister for Environment

## HOW YOU CAN PARTICIPATE

The Platform is open to all interested stakeholders.

- Select one or more working groups
- Participate to working groups activities
- Participate to Platform initiatives (events, workshop)
- Contribute with contents for website
- Promote the Platform and its objectives through own channels

## CURRENT PARTICIPANTS

Over 70 organizations:

