

# Work Packages

01

## Blueprinting the regional clusters

Test and demonstrate the N&P circular systems in the 3 pilot regions.

02

## Monitoring & assessing the benefits

Assess and validate the sustainability and impacts of the circular N & P systems demonstrated in the 3 pilot regions.

03

## Supporting the transition

Shaping the transition to innovative circular systems for the conversion of human sanitary waste into safe bio-based N & P fertilisers.

04

## Building the governance framework

Develop the P2GreenN cross-cutting governance framework.

05

## Upscaling the impact

Implement a series of actions that will allow P2GreenN's innovative and transformative circular solutions to be adopted and scaled within follower regions and across the EU.

06

## Communication, Exploitation, Dissemination

Raise awareness and promote P2GreenN's innovative governance solutions across Europe.

07

## Project Management

Ensure efficient and timely implementation of the project.



3	PILOT REGIONS	32	ORGANIZATIONS
4	FOLLOWER REGIONS	13	COUNTRIES

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**TURNING HUMAN  
SANITARY WASTE  
INTO FERTILIZER**



## What is behind the idea?

Agriculturally grown food is produced with the addition of energy-intensive fertilizers, the consumer consumes it and this is where the chain ends. But it makes more sense to develop a cycle that eliminates fertilizers from costly production and negative effects on our environment, as well as the waste of nutrient-rich wastewater from cities.



## About the project

December 1, 2022 was the starting date for our four-year EU project P2GreenN, which will develop, test and adapt the use of human sanitary waste to produce safe, bio-based fertilizers for agriculture. Our consortium of 32 European partners scored well with the Horizon Europe program and we have been awarded the contract to implement this unprecedented project.

Vast amounts of wastewater with a high nutrient content disappear daily into the sewers of large cities. On the other hand, agriculture, using conventional fertilizers, struggles to produce good yields in the fields to feed the growing world population. What some have too much of, others have too little of. There must be a solution to this.



## What is the solution?

The circle can be closed by using human sanitary waste and converting it into bio-based fertilizers, utilizing important nutrients that are produced in large quantities every day anyway. The key lies in nutrient recovery.



**The focus here is on the nutrients nitrogen and phosphorus. These two are the most important nutrients for maintaining soil fertility and increasing agricultural production. At the same time, considerable amounts of nitrogen and phosphorus are generated daily with human sanitary waste in cities or urban areas.**



## Vision

Develop and demonstrate viable and sustainable approaches to nutrient recovery from sanitary waste.



## Mission

Develop, test and adapt the use of human sanitary waste to produce safe, bio-based fertilizers for agriculture.



Funded by  
the European Union