



# ENZYMARES

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Project partners (2021/09 – 2025/08)



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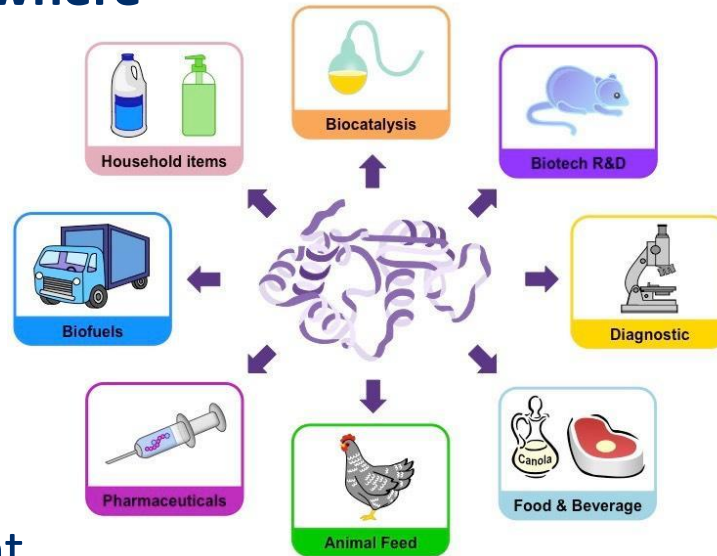


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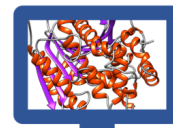
# Enzyme prediction toolbox

Enzymes are everywhere



Several resources...  
marine environment  
has potential!  
> extreme conditions

...but difficult to discover

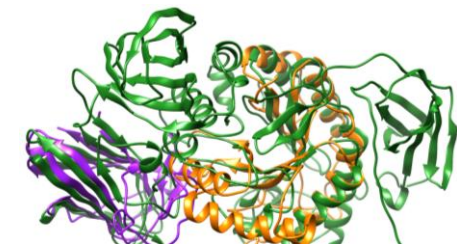


## ENZYMARES

Optimising the enzyme discovery pathway through:

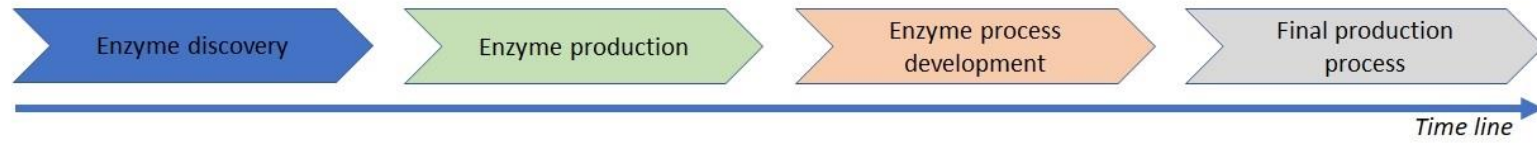
- (1) integrative data analysis of different types of molecular/biological data and **artificial intelligence (AI)** based on **machine-learning**
- (2) inclusion of **ecological information**
- (3) inclusion, at an early stage, of **process parameters and performance needs**

Making sure that enzymes are **indeed fit-for-purpose!**

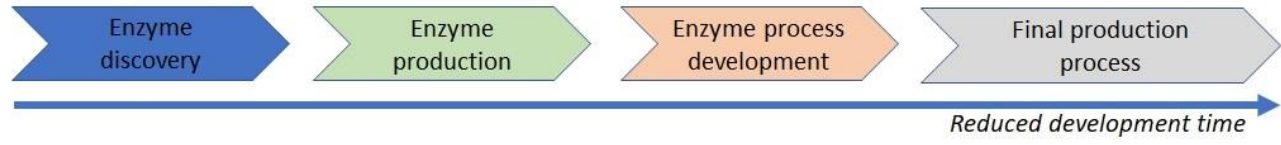
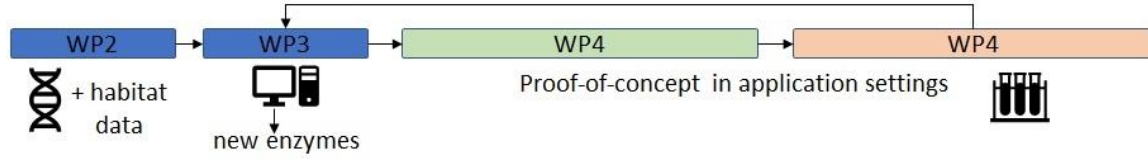


# Tapping a 'new world' of enzymes, provide more sustainable alternatives and reduce the time-to-market

Value chain

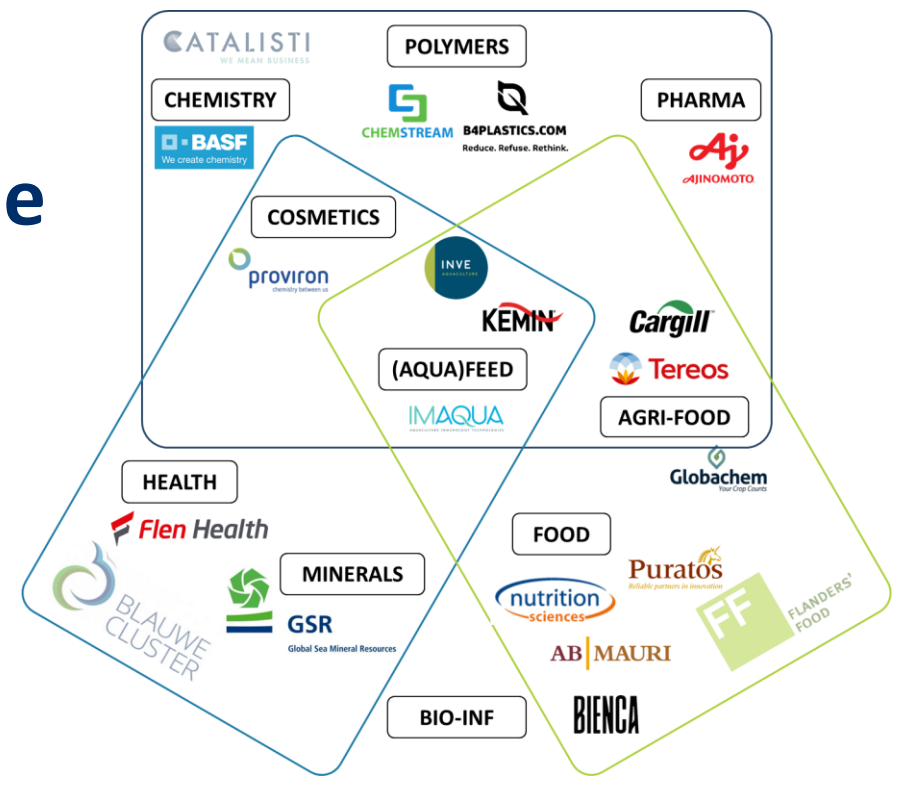


Scope of ENZYMARES in the value chain:



## Valorisation objectives:

- VO1: Valorisation of the enzyme discovery toolbox (data + algorithm pipeline + process know-how)
- VO2: Yielding new or optimised enzymes (product)



Input via SAB 'catalyst' meetings



A funnel of test cases that lead to potential follow-up projects!