

new life for Rice by-products and agricultural wastes: Insects bioconversion for Fish Feed production (**newRIFF**)

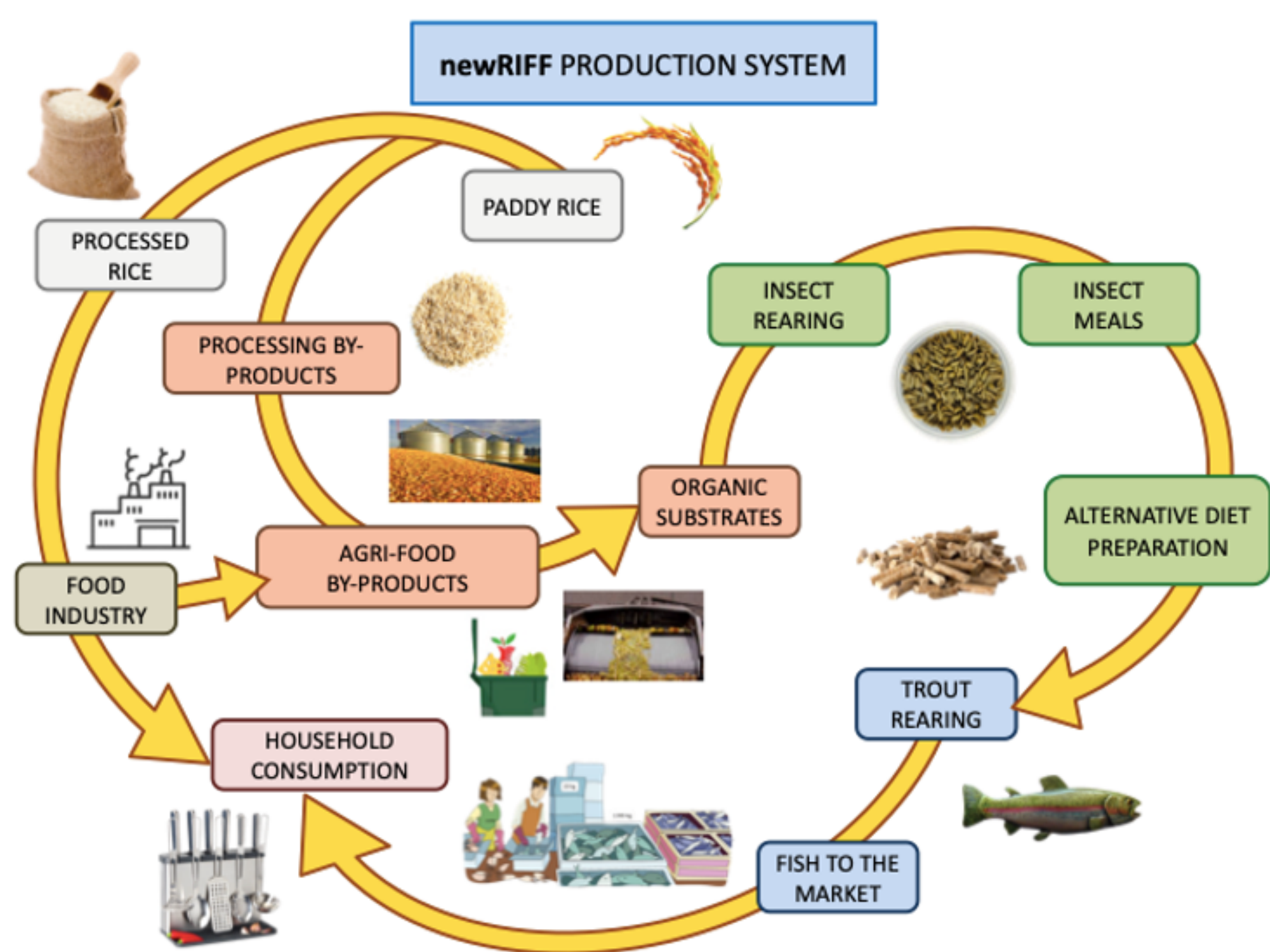
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PROJECT AIMS



Test the use of **paddy rice processing by-products**, and **other by-products matrices**, as a substrate for **insect rearing** (*Hermetia illucens* & *Tenebrio molitor*).

Tests of insects produced as feed ingredients for **rainbow trout** (*Oncorhynchus mykiss*).

PROJECT WORK PACKAGES (WP)



WP1

Test the activities of **two insect** species as bio-converters of mix of agricultural organic matrices into protein source for farmed fish

WP2

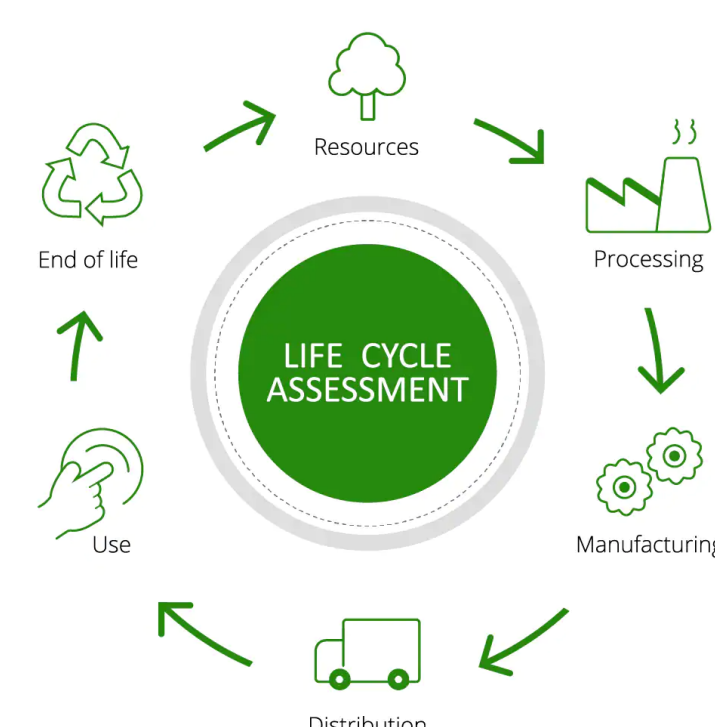
Assess the **productive performances of trout** fed with traditional protein sources diets partially substituted by insect meal

WP3

Evaluate the **nutritional quality and the safety** of the produced fish;

WP4

Evaluate economic, environmental and social **sustainability** of the **newRIFF** production process



At the same time, a market analysis will be performed and the results of the different WPs will be used to support policy development

PROJECT EXPECTED IMPACTS



- Valorize locally available **by-products** (rice) as **insect-rearing substrate**
- Reduce the consumption of imported **protein sources for aquaculture**
- Obtain **high-quality and safe** fish production
- Reduce the **environmental, economic, and social impact** of production
- Increase **consumer acceptance** and willingness to pay
- Support **policy development**

FURTHER INFORMATION

