



*Transforming science into
business*

**Un socio para hacer negocios
Un aliado para desarrollar la estrategia**

www.azti.es

Aquaculture

Feed

Product's Shelf life techn.

Bioactive compounds

Sustainability

Animal welfare



Proyect LIFE+2013

**Environmental impacts on bacterial
ecology of bacteriophage use in
aquaculture
-Enviphage-**



1. Presentation

Title

**Environmental impacts on bacterial ecology of
bacteriophage use in aquaculture
-Enviphage-**

Budget:

Total project budget: 820,622€

EU financial contribution 410,310 €

Lenght:

Start: 01/07/2014

End: 30/06/2017



2. Partners

Beneficiary:

AZTI-Tecnalia



- Aveiro University
- Biopolis
- Aguacircia-Piscicultura Lda.



3. Actual problem



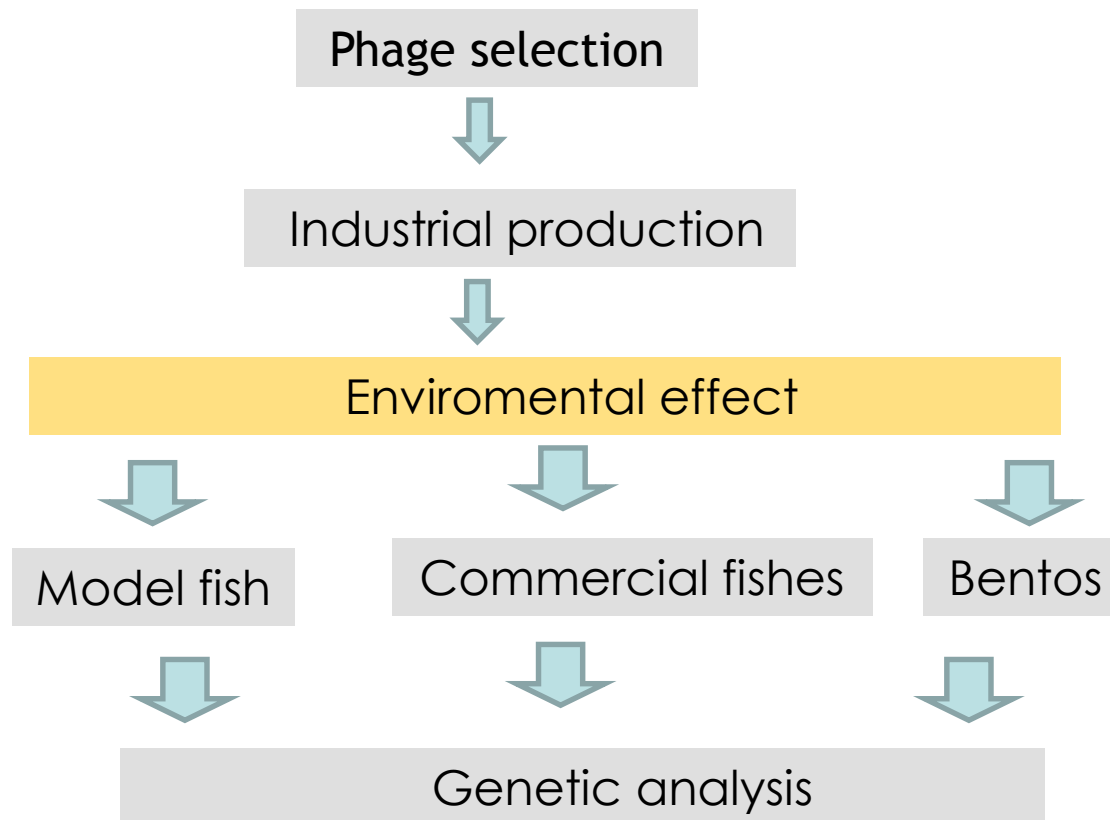
- High mortality in aquaculture systems due bacterial infections
- Antibiotics have a great impact in enviromental and health due resistences
- Alternatives (like vaccination) can't be used with fryes.
- Phagothorapy is an alternative, but not tested in real conditions
- Environmental studies requiered for safety evaluation.



4. General objective

The general objective of this project is to demonstrate that phages use has limited effects in environmental bacterial ecology

1. Technical overview





2. Cronograma

TIMETABLE

Action		2014				2015				2016				2017			
Action number	Name of the action	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
A. Preparatory actions:																	
A.1	A1.- Bacteriophage selection			■	■												
A.2	A2.- Bacteriophage production at industrial scale				■	■	■										
B. Implementation actions:																	
B.1	B1.- Phagotherapy at industrial scale					■	■	■									
B.2	B2.- Effects of phage-treatment on animal models					■	■	■	■	■	■						
C. Monitoring of the impact of the project actions:																	
C.1	C1.- Phages effects on bacterial ecology: Short and long term analysis								■	■	■	■	■	■	■	■	
C.2	C2.- Phages effects on commercial fishes								■	■	■	■	■	■			
C.3	C3.- Analysis of the socio-economic impact of the project												■	■	■		
D. Communication and dissemination actions:																	
D.1	D1.- Dissemination and communication plan			■		■			■	■			■	■	■		
D.2	D2.- Web page and social webs of the project			■		■			■	■			■	■	■		
D.3	D3.- Project identification			■													
D.4	D4.-Dissemination material			■	■	■	■	■	■	■	■	■	■	■	■	■	
D.5	D5.- Publications and mass media			■	■	■	■	■	■	■	■	■	■	■	■	■	
D.6	D6.- Events: Ferias and Congress			■	■	■	■	■	■	■	■	■	■	■	■	■	
D.7	D7.- Layman report													■	■		
E. Project management and monitoring of the project progress:																	
E.1	E1.- Project management			■	■	■	■	■	■	■	■	■	■	■	■	■	
E.2	E2.- Project quality control			■	■	■	■	■	■	■	■	■	■	■	■	■	
E.3	E3.- Communication after LIFE+													■	■		
E.4	E4. Networking with other projects			■	■	■	■	■	■	■	■	■	■	■	■	■	



www.azti.es | www.alimentatec.com | www.itsasnet.com | www.foodtrendtrotters.com
T. +34 94 657 40 00

Txatxarramendi ugartea
z/g
48395 Sukarrieta, Bizkaia

Herrera Kaia, Portualdea
z/g
20110 Pasaia, Gipuzkoa

Astondo Bidea, Edificio 609
Parque Tecnológico de
Bizkaia
48160 Derio, Bizkaia