

#### Redrisk

### **Reduction of Risk in Shellfish Harvesting Areas**

**Monique Pommepuy** 



Pillar 3: Seafood Safety Projects (B Doré, Pillar coordination)

<u>Partners</u>: Ifremer (FR, coordination), Cefas (UK), Marine Institut (IR)Univ.

Santiagio and Barcelona (Spain),

"attached" partner: SAMS (Scotland)



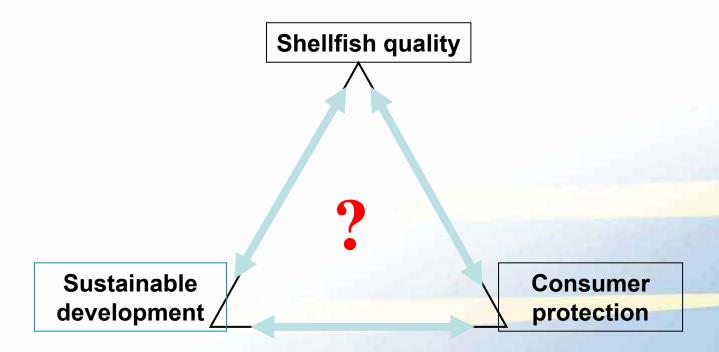
- Seafood is generally recognised as a wholesome, safe and nutritious food.
- However a number of well defined and potential health risks are linked to seafood consumption
- SEAFOODplus strategy to concentrate on the major identified health risks



Pillar 3 objectives To make seafood safe for the consumer, by avoiding risks caused by bacterial & viral contamination, and the formation of biogenic amines in seafood.

Redrisk one of the sub-projects pillar 3





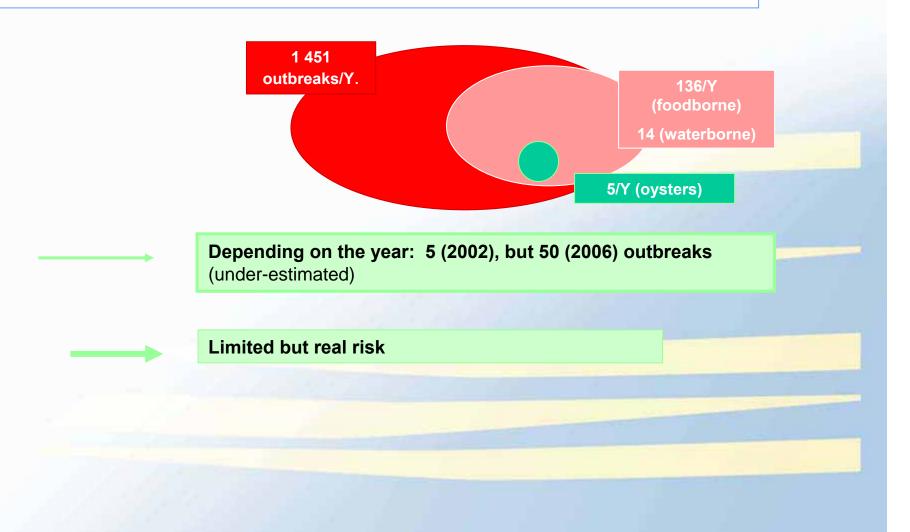
## How to solve the problem?

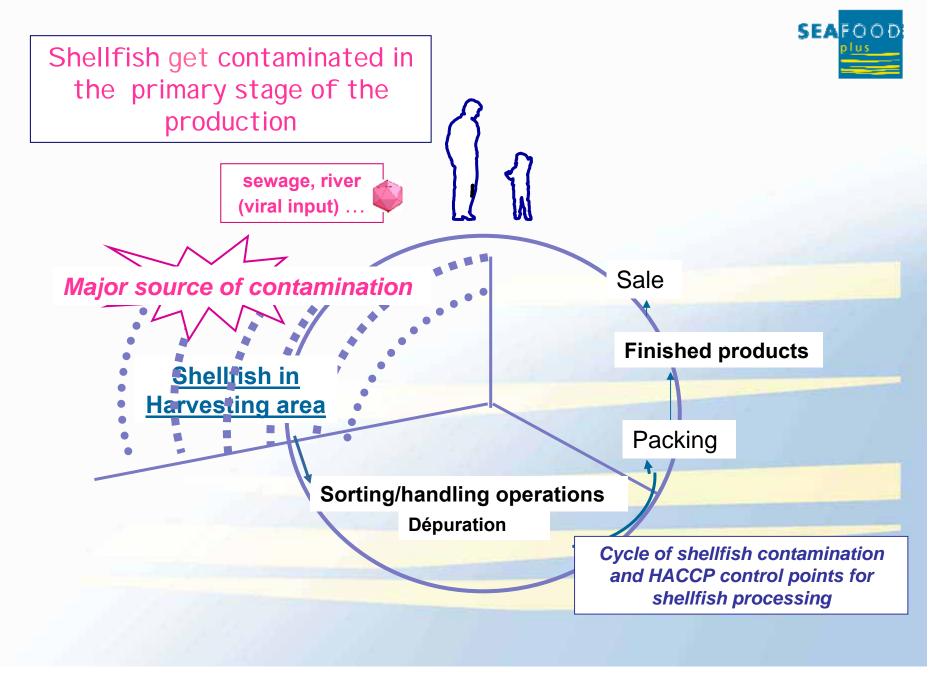
Seafoodplus/REDRISK Project : Open discussion between the different partners to find way to reduce the risk



#### Shellfish risk ?: viral outbreak European survey (3 years)

(data from « FOODBORNE VIRUS IN EUROPE » EU project - M Koopman )







# **REDRISK Objectives**

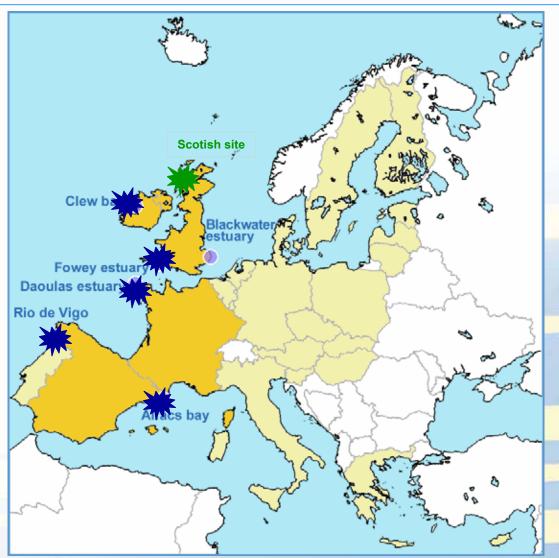
- to identify pollution sources in harvesting areas
- to determine impact of pollution sources and environmental conditions on virus contamination.



This will provide a framework for a risk management approach to controlling the viral risk associated with shellfish during primary production.

## Six sites: I rish, Great Britain, French, Spanish sites





# **REDRISK**



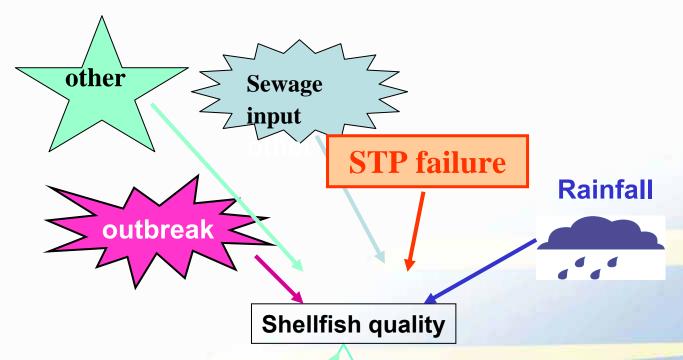
The effort is focused on 2 actions:

1. to understand the factors leading to viral contamination during the primary production

2. to define the best way for risk control.

### 1. Factors leading to shellfish contamination





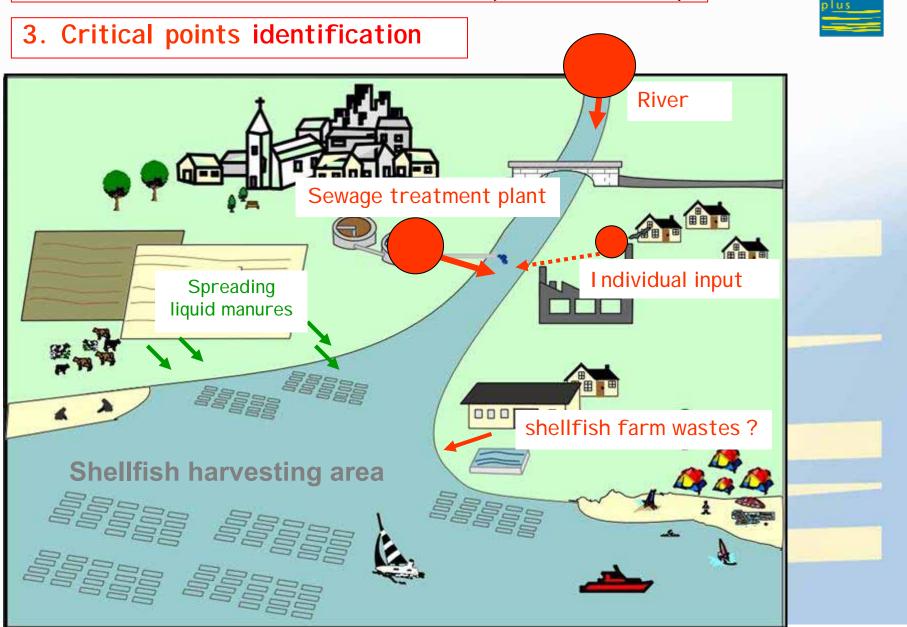
To collect information on sites

To determine the impact of the different factors

Sustainable development

Consummer protection

#### 2. Microbial sources identification (Human/Animal)



SEAFOOD

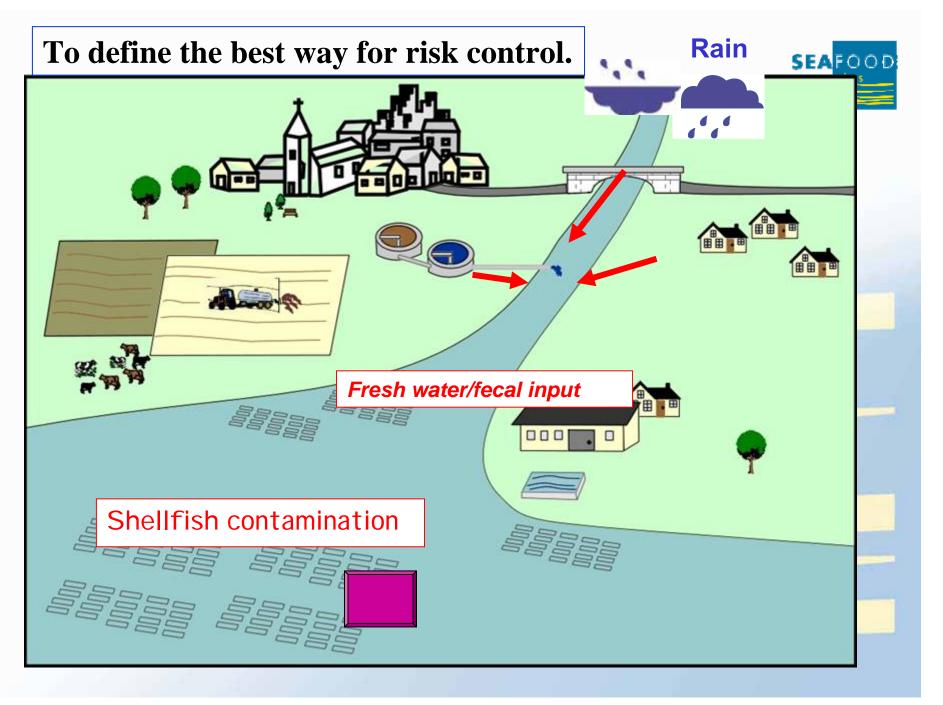
# **REDRISK**

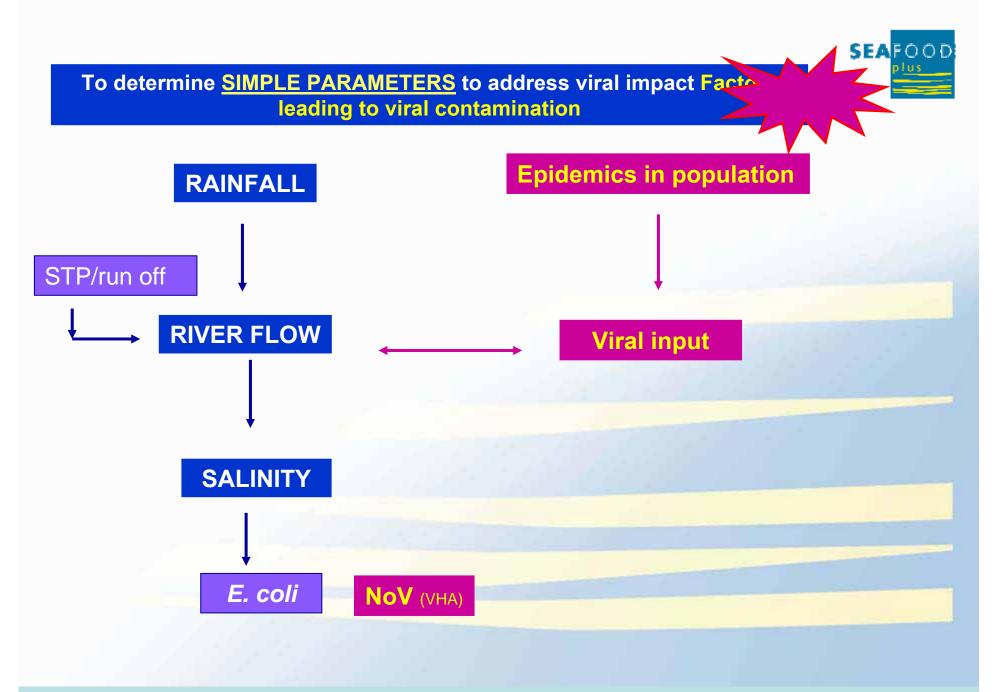


The effort will be focused on 2 actions:

1. to understand the factors leading to viral contamination during the primary production

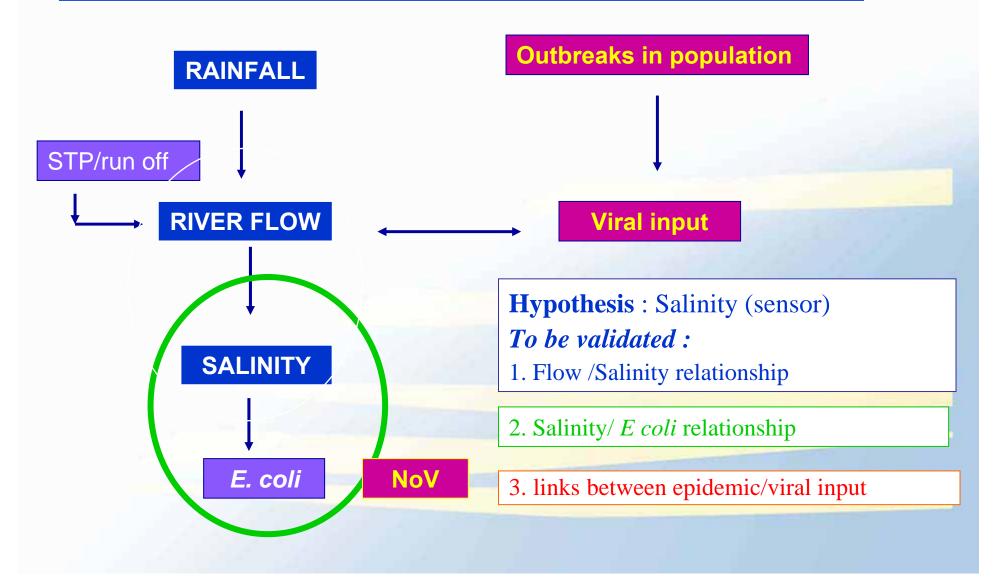
2. to define the best way for risk control.







#### To validate simple parameterd to address viral impact



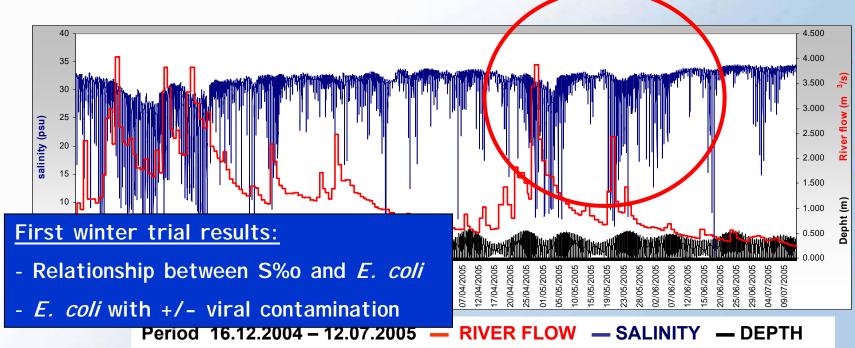




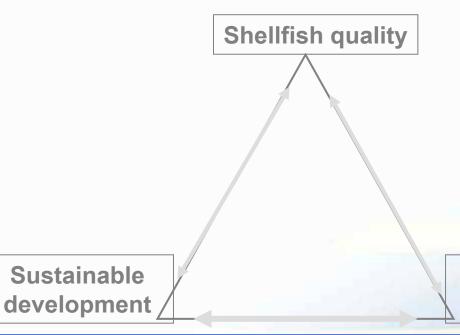
#### **Daoulas estuary : recorded salinity station**

Salinity sensorStation C

Rainfall/Fresh water input: Salinity effect



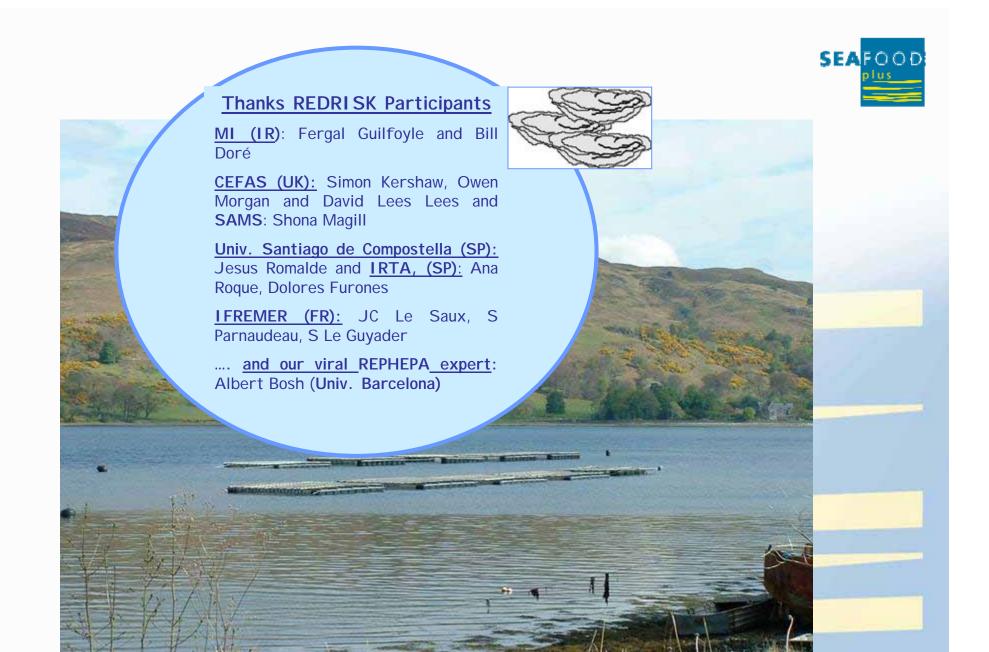




**Consumer** protection

#### First conclusions

- ❖ Initial risk assessment confirmed.
- ❖ Possible correlation between environmental factors and microbiological contamination.
  It may not be a simple relationship & could be depending on the site
- ❖ How to manage the risk? Different ways are investigated from specificity N/S sites...: this could be early warning systems based on salinity sensors, population survey....





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