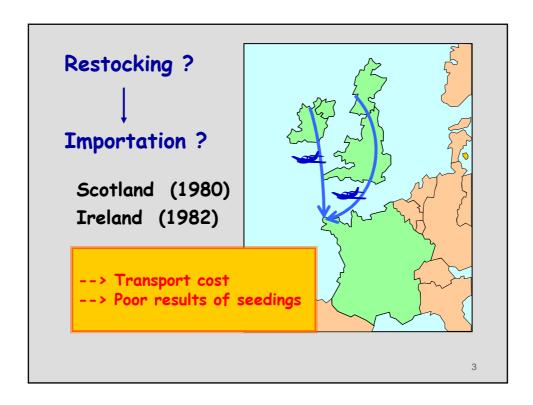
CONTRAINTES au développement de la coquille Saint-Jacques



extrait de: 1983-2002: the 20-year development of the King scallop (*P. maximus*) sea-ranching industry in the bay of Brest (France): historical record, results, prospect.

P.G. Fleury, J.P. Carval, M.L. Muzellec, A. Gérard, J. Barret, J.C. Cochard & J.C. Dao

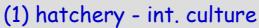
Restocking? — Collecting in the wild? ---> NO RESULT



Limits - Fragility of the industry (1) hatchery - intermediate culture

- ± Algae production (quantity, quality),
- ± Maturation of breeders,
- ± Rearing prophylaxis,
- ± Stress due to transfer to the sea,
- ± Vermins (Gymnodinium, Polydora),
- ± Over-densities in hatchery and at sea (limit of the equipment capacity).

Research





- continuous algae cultures,
- continuous larval rearings,
- probiotics,

→ Remote-settlement and transfer to the sea :

- métamorphosis on transportable structures allowing an early transfer without detachment,
- → Intermediate culture :
 - transportation of spat in vivier-lorry,
 - new equipements, less costly,
 - qualification of new sites for int. culture.

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Limits - Fragility of the industry (2) seedings - recapture

- ± Stress of juveniles when seeded,
- ± Reduction of the propice seeding area (crepidula, ...),
- ± Predators: starfish, whelks, crabs, ...
- ± Too powerful engines of dredging boats,
- ± Long rearing cycle and complex management (animals, equipments, seeding and fishing areas).

Research (2) seedings - recapture

→ Seedings :

- criteria for juvenile vitality,
- behaviour at seeding (recessing, escape to predation),
- seeding size of animals according to seasons,
- Crepidula avoidance,
- qualification of new seeding sites.

→ Recapture:

- effiency of dredges,
- assessment of recaptures.

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Juvenile production

☆ Tinduff hatchery

= 20 millions Post-larva /year

+ extending (2003)

aim: 10 M. P-I. \rightarrow 500 mt./year But not possible for more ...

2nd hatchery in project

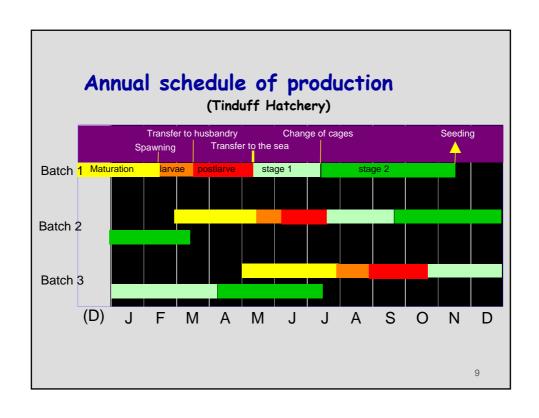
- fundings?
- organization?

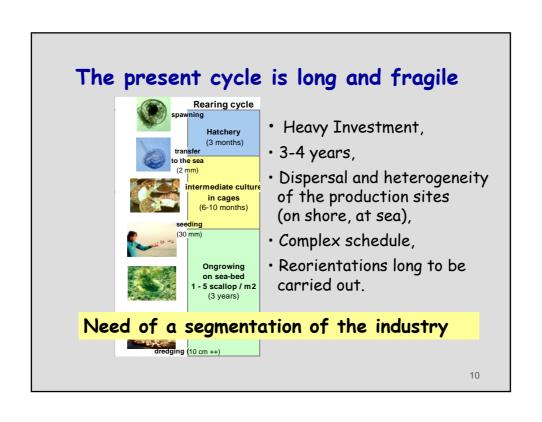
☆ Importations of spat

- what size ?
- how? vivier-lorries?









Towards a segmentation?



Hatcheries
<-- Post-larvae supply

Importations
<-- Juvenile supply
Spat ongrowers

Fishermen
(and oysterfarmers)
<-- Market

11

Trumps of a 20-year old know-how

- · Technical and biological knowledge
- · Choice of sites, of animals, of equipments
- · Management of seeding and fishing areas
- · Management of an increasing production
- · Information of actors
- · Etc.

Conclusions

- 1) An **established production** (+ 200 t) in the bay of Brest but set up with an **heavy investment**.
- 2) A main interest for the coastal management, with an increasing demand from other scallop-fishing areas.
- 3) The need of a segmentation of the industry for the emergence of new projects (to reduce investment costs and delays of first financial incomings).
- 4) A 20-year old know-how of the Brest team, a must for the development of the whole French scallop industry.

Should be continued \dots 13