

The Technopole supports the economic diversification of New Caledonia through transfer, innovation and the sustainable development of natural resources.

Our activities are deployed throughout New Caledonia

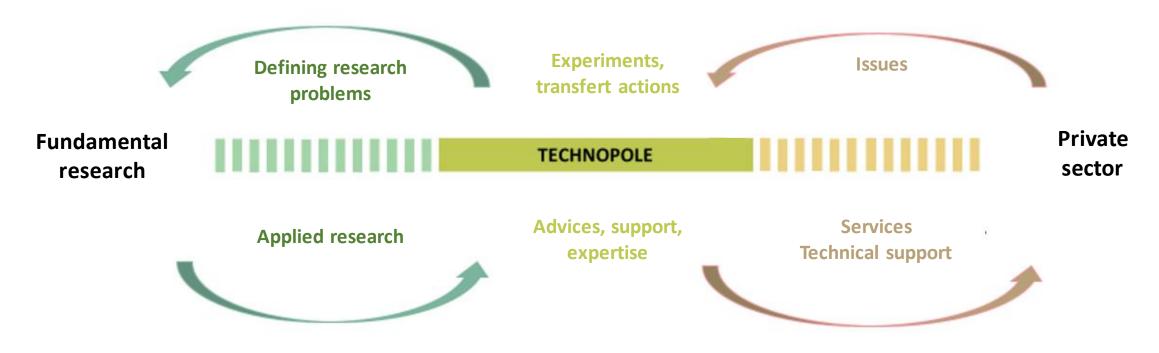
13 sites

9 sector-base experimental plateforms

68 employees



# Research, experimental development, tranfer, innovation to promote economic development and diversification of sectors







Expérimentation Transfert Innovation Accompagnement

Marine & Land technical divisions aims:



- →Optimize production systems
- →improve quality
- → Contribute to the diversification of sectors



Expérimentation Transfert Innovation Accompagnement



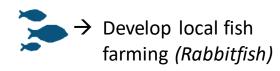
## **Marine division**

## Shrimp & diversification



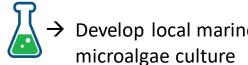
## Marine pisciculture





## Microalgae





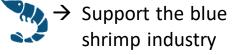
## **Coastal and offshore** fisheries observatories



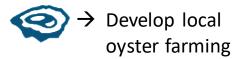
→ Manage sustainable

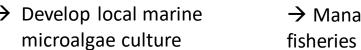






→ Sanitary monitoring











## **Fields crops**



## **Market gardening**







- → Develop, experiment and improve the cultivation of adapted species
- → Increase food self-sufficiency
- → Reduce dependence on imports

## **Tropical tuber**



→ Multiplication and improvement of cropping systems

Bee keeping



- → Support the honeybee sector
- → Sanitary monitoring







## **Innovation divison**

# Business incubator & accelerator



- → Provide assistance to enhancement & extension of innovations brought by private project holders or internally
- → Competencies in intelectual an industrial property





- → Support the development of agri-food industries
- → Improve competitiveness and increase food autonomy





Water quality challenges in aquaculture and agriculture





## Water quality challenges in aquaculture and agriculture

**Aquaculture** 

**Environmental impact** 

Agriculture

#### **Breeding impacts:**

- → Pond waste water
- → Sea farming (cages and oyster beds)





### **Impact of fertilizers**

- → Often over-dosed
- → Often spread all at once

## Impact of phytosanitary products

- → Often over applied
- → Efficiency depends on water



Expérimentation	
Transfert	
Innovation	D1100101010101010101
Accompagnement	TAJB A A A

## Water quality challenges in aquaculture and agriculture

## **Aquaculture**

#### **Sea Water**

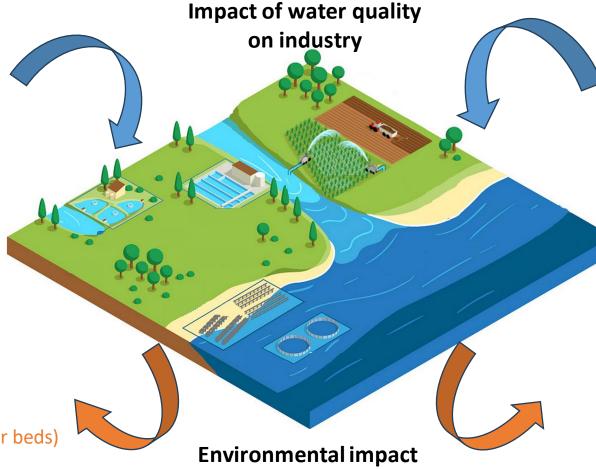
- → Hatchery
- → Pond culture
- → Sea cages
- → Filter organisms as oysters
- → Quality of product

#### **Fresh Water:**

→ Hatchery

#### **Breeding impacts:**

- → Pond waste water
- → Sea farming (cages and oyster beds)



## Agriculture

#### Rain & irrigation water:

- → Can lead to deficiences or excesses
- → Impact on the effectiveness of phytosanitary products (neutralized by positive ions)
- → Fertilizer optimisation

### **Impact of fertilizers**

- → Often over-dosed
- → Often spread all at once

## Impact of phytosanitary products

- → Often over applied
- → Efficiency depends on water





## Thank you for your attention