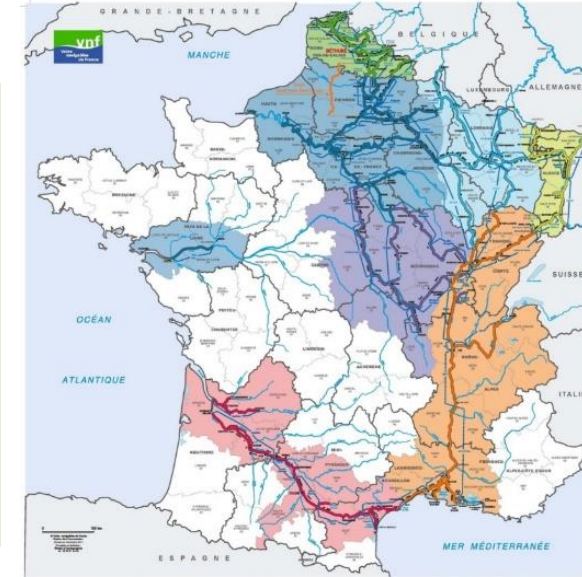




# The French IWT fleet



# Voies navigables de France



Public administrative establishment

Missions :

- Develop logistics and freight transport
- Participate in the planning and economic and tourist development of the territories, enhance the public river domain
- Ensure hydraulic management and water resource management, preserve biodiversity

## Some figures

### Staff

4 300 agents

### IWT net → 6700 km

1868 km high gauge ,  
 705 km CEMT (III&IV),  
 4281 km small gauge (I&II),  
 1647 km < 250 T

40 000 ha : public river domain.

### 4000 ouvrages

356 dams,  
 >1600 locks,  
 3756 km of dike,  
 316 water alimentation systems (reservoir dams, gullies, pumping station, bypass of locks, etc.)  
 27 tunnels et 117 canal bridge

# Types of units : 4 uses



**Cargo vessel**



**Sightseeing vessel**



**River cruises ships**



**Pleasure boat**

# Fleet → mapping

Type of fleet	Usage	Number 2018	Average power	Average annual operation (in hours)
Barges	Cargo	400		
Propelled vessel		800	500 kW	2 500
Rivers cruises ships	Cruise	188	1 400 kW	1 770
Hotel barges		89	190 kW	560
Sightseeing	Passengers transport	326	260 kW	4 320
Private	Pleasure	12 900		246
Locative		1 400	40 kW	1 344

# Fleet 2030

## Challenges for all sectors of river activity

### Tightening of environmental requirements

**EU** : FIT 55, taxonomy, GBER 2022, CCNR etc..

**Local** : collectivités (Olympic games 2024, Low Emissions Zones)

→ - 35 % émissions (CO<sub>2</sub>, NO<sub>X</sub>, PM) à 2035

→ 0 émissions à 2050

### VNF's strong commitments to support and initiate the energy and environmental transition

« Vert le fluvial »



Commitments for Green Growth of the river sector (ECV)



### OTHERS ISSUES

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→ renewal of actors

→ Adapt boats to infrastructures

# Transport system issues

## Innovation Transport system committee

The main issues are dealt with within 7 internal VNF task forces

1. Greening of fleets
2. Alternative energies and fuels
3. Electric stations
4. Autonomous Navigation
5. Digitalisation
6. Logistic
7. Wastes Management

# Greening

## Task force 1 - GREENING

- Greening roadmap
- Indicators
- Technical Sourcing
- Knowledge of uses
- Greening trajectory et financial impact
- Communication of the best practices



## Task force 2 - Alternative energies and fuels

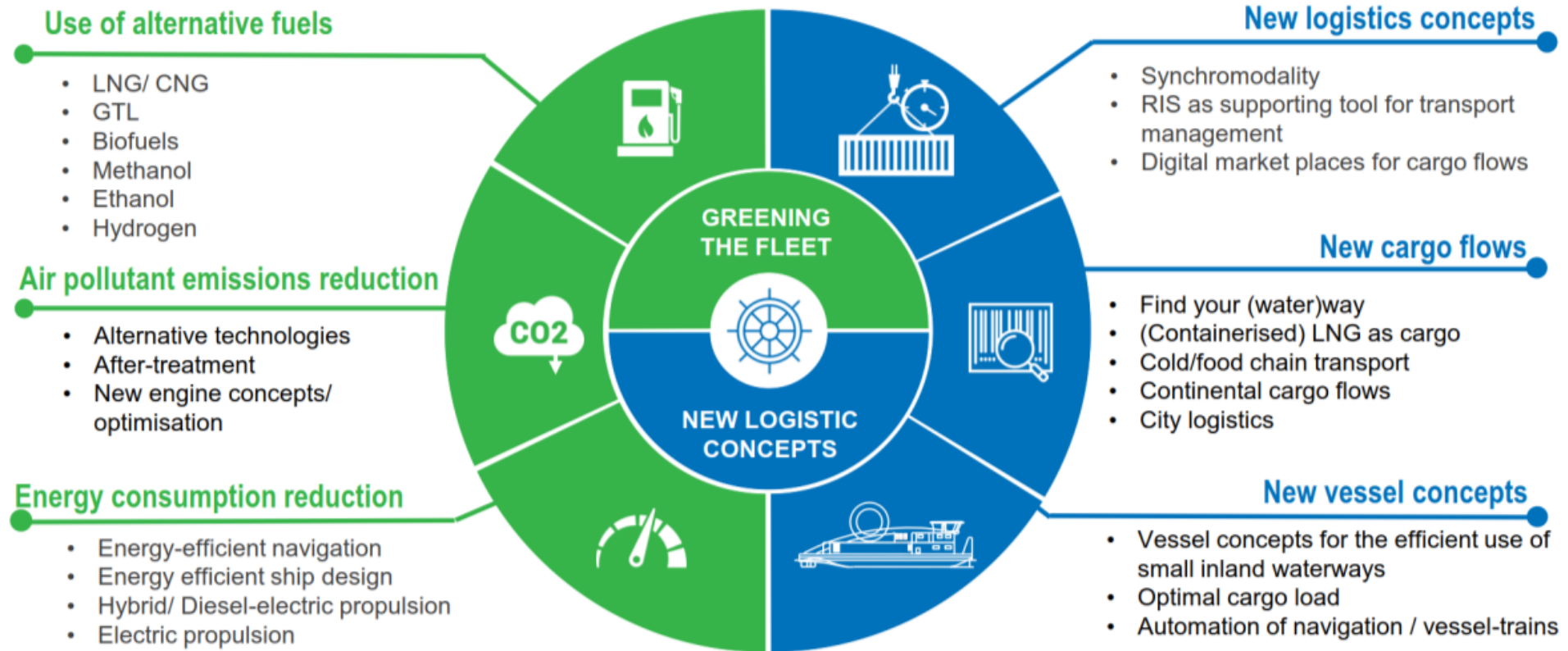
- Alternative fuels refueling schemes (Nord, Seine et Rhône Saône)
- Prospective
- Production near the river?



## Task force 3 - ELECTRIC STATIONS

- Mesh
- Exploitation
- Tarification et facturation
- Financement

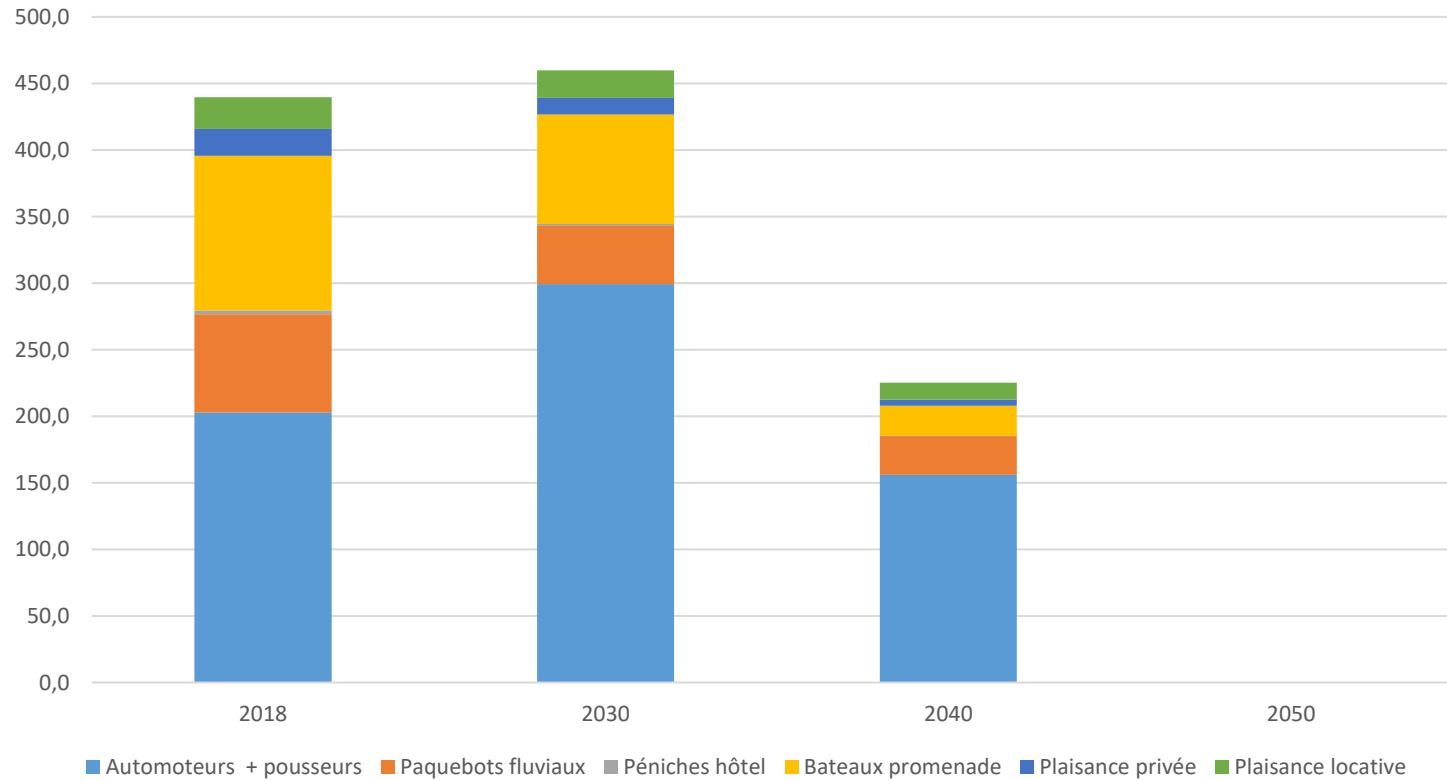
# Summary of technical avenues under analysis





# Greening Trajectory

Assment emissions of CO2 (en kt)

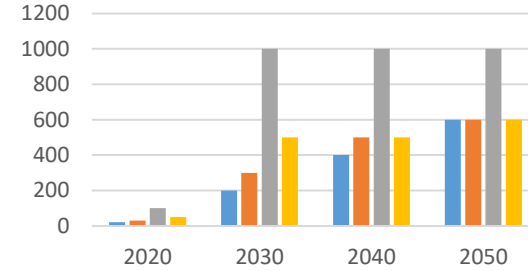


# Vision 2050 : deployment trajectory

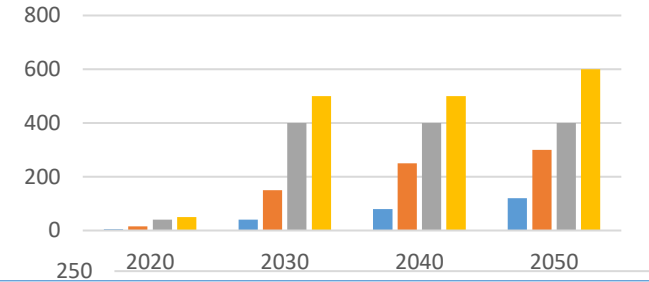
## Cargo



Number of opérations

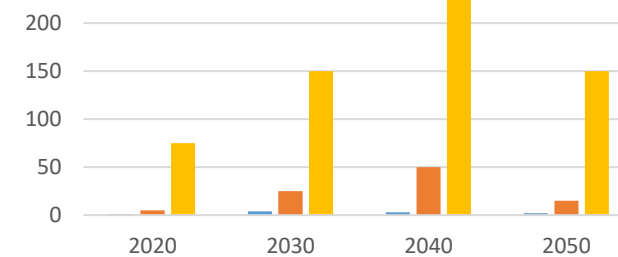
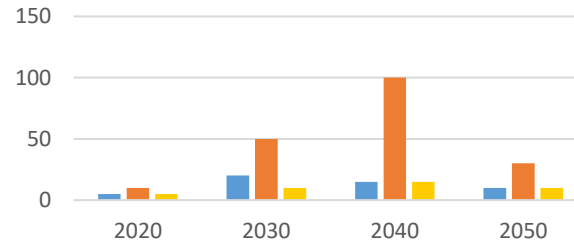


Financial needs (M€)



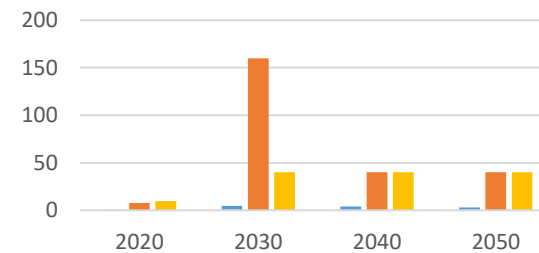
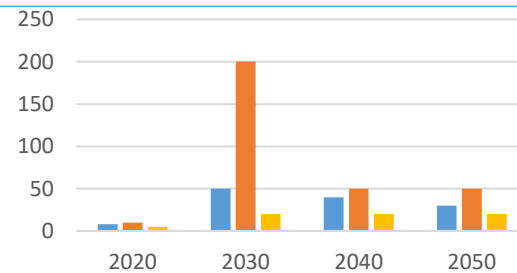
Un besoin global de financement d'ici 2030 de 1 milliard d'euros

## Cruise



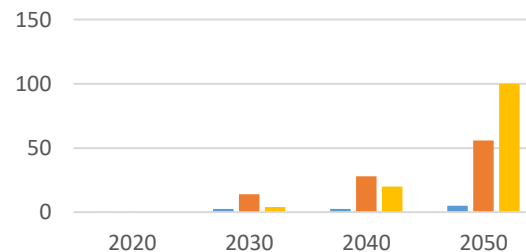
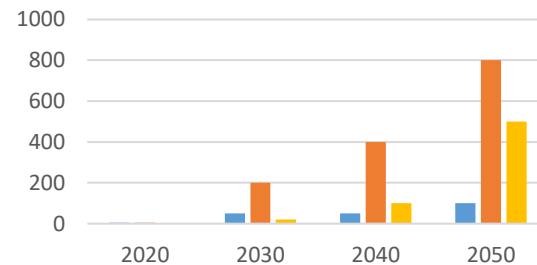
Un besoin global de financement d'ici 2030 de 260 millions d'euros

## Passengers Transportation



Un besoin global de financement d'ici 2030 de 200 millions d'euros

## Pleasure



Un besoin global de financement d'ici 2030 de 20 millions d'euros

How to finance ?

# Le PAMI 2018-2022

## SUBSIDIES PROGRAM

### **AIDES A VOCATION « ENVIRONNEMENTALE »**

Encadrées par les articles 25, 36, 38,41 et 49 du règlement  
(UE) N°651/2014 de la commission du 17 juin 2014 dit RGEC 2014.

#### **VOLET A - GREENING**

#### **D - INNOVATION**

### **AIDES A VOCATION LOGISTIQUE**

*Encadrées par la notification propre du PAMI*

#### **VOLET B – LOGISTIC INTEGRATION**

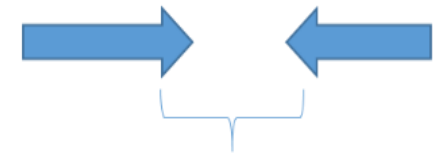
#### **VOLET C – RENEWAL OF PILOTS**

# Le PAMI 2018-2022 en détails

Objectif de l'aide	Type de projet	AIDE VNF	
		Intensité	Plafond
Réduire les consommations et les émissions polluantes	Travaux (exemple : remotorisation)	40%	150 000 €
Réduire et traiter les rejets à l'eau ou déchets	Travaux (exemple : cuve)	30%	70 000 €
Améliorer l'hydrodynamique des bateaux	Travaux (exemple : refonte formes arrières)	30%	150 000 €
Optimiser de l'énergie à bord	Travaux (exemple : panneaux photovoltaïques)	30%	40 000 €
Capter de nouveaux trafics ou pérenniser des trafics existants	Travaux d'adaptation	30%	230 000 €
	Etudes	50%	100 000 €
	Construction / achat	20%	200 000 €
Optimiser la desserte des ports maritimes	Etudes	50%	100 000 €
	Travaux d'adaptation	30%	90 000 €
	Construction	20%	400 000 €
Acquisition d'instruments et logiciels d'aide à la navigation ou à l'exploitation du bateau	Travaux (exemple radar)	30%	20 000 €
Accompagner le renouvellement des acteurs et de la filière	Achat du premier bateau	20%	60 000 €
Favoriser l'innovation	Projets Recherche fondamentale	50%	300 000 €
	Recherche industrielle	50%	300 000 €
	Développement expérimental	25%	300 000 €
	Etude de faisabilité	50%	100 000 €

# 2023 – 2027 : SETTING UP

Porteur de projet



1 seule convention globale de financement



GLOBAL BUDGET : 30 M€