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Regional Research Vessels foreseeable evolution

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Introduction

RRVs serve a crucial role in supporting science along the European coastal zone where the human impacts of development and resource use are greatest.

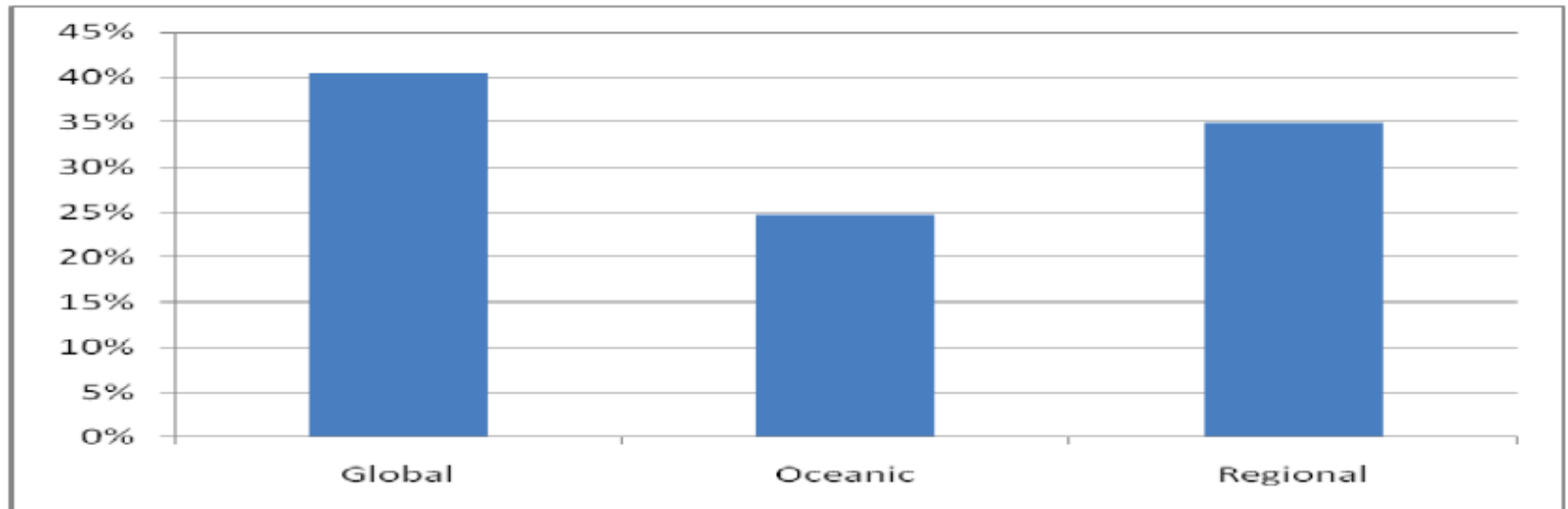
A picture of the existing RRVs and their foreseeable evolution is necessary to define an effective strategic view of European Regional fleets.

- ✓ **Present situation of RRVs**
(*EurOcean_RV Infobase*)
- ✓ **New/refit planned RRVs for the next 10 years**
(*Questionnaire*)



RRVs present situation

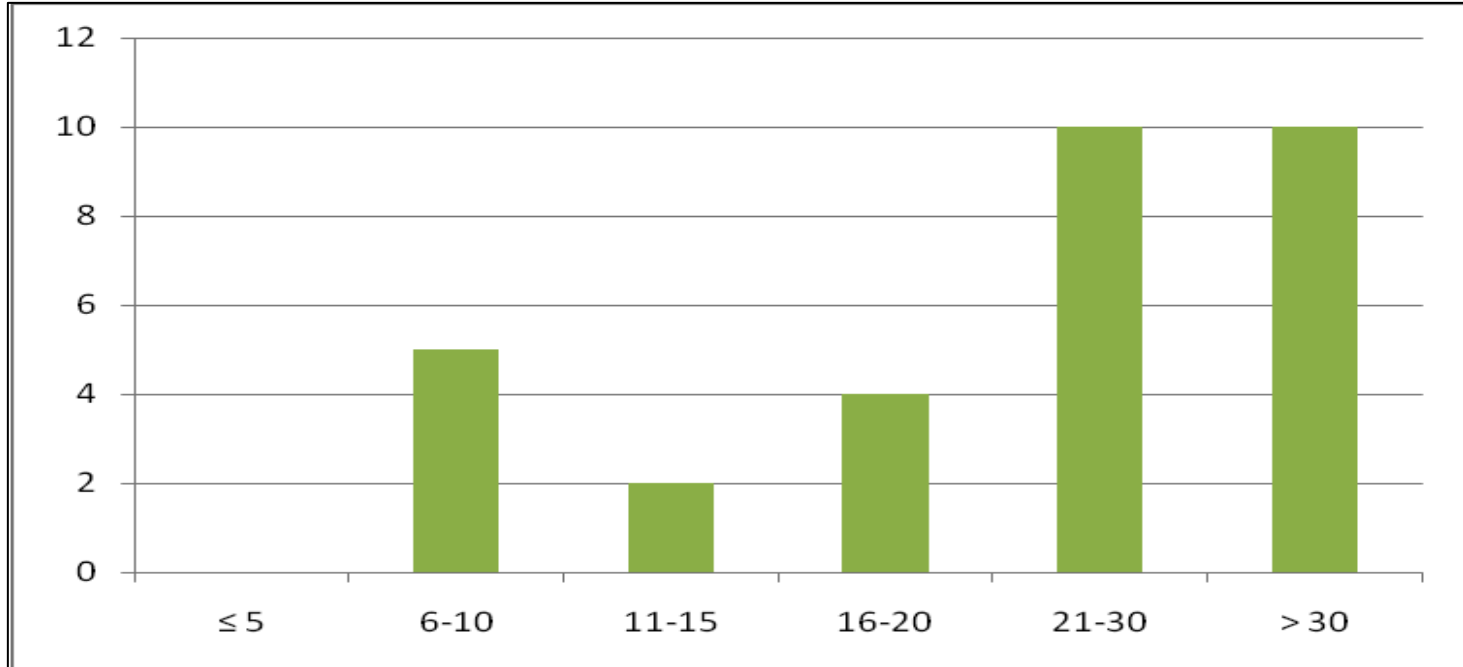
- ✓ RRVs represent the 35% of the total European research vessels
- ✓ 15 operating countries



Current European research fleets composition (%)



RRVs age distribution



the 65% is more than 20 years old



New/refit planned RRVs

Several initiatives are operating to a significant renovation of the European regional fleets.

20 new or refit vessels will be available during the next 10 years with a significant rejuvenation of the regional fleet:

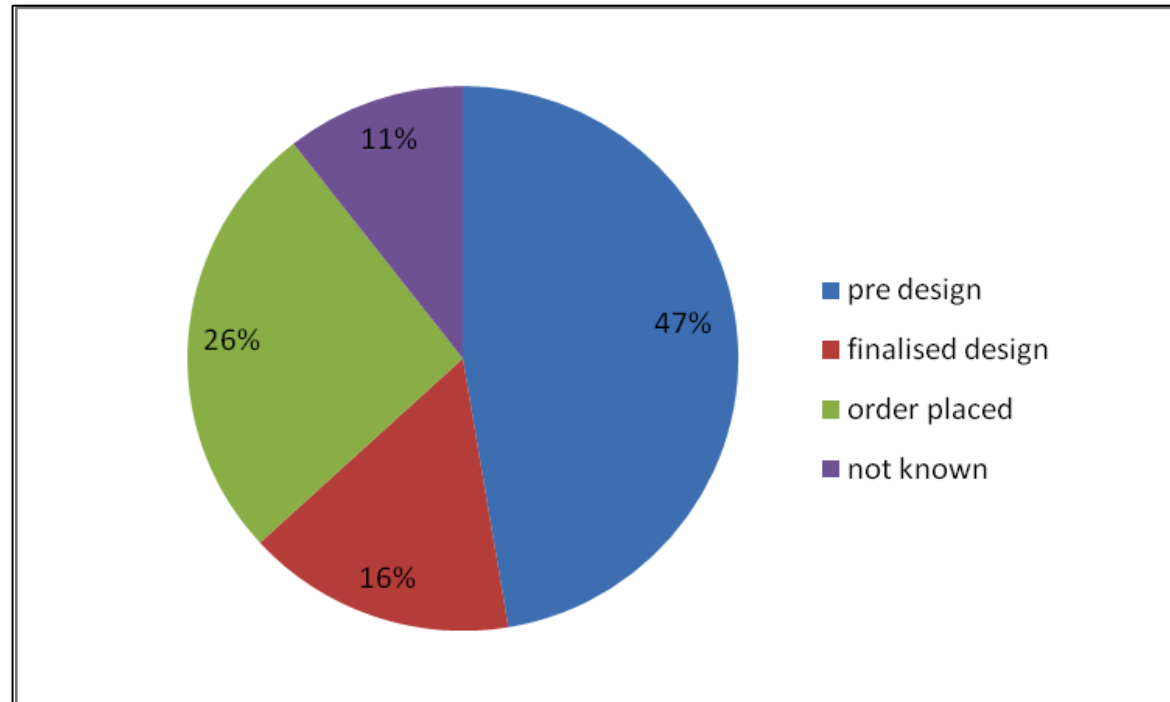
- ✓ **4 refits** of existing vessels,
- ✓ **6 replacements** of old with new vessels,
- ✓ **10 new vessels** which will go to increase the vessel number.



Projects distribution per country



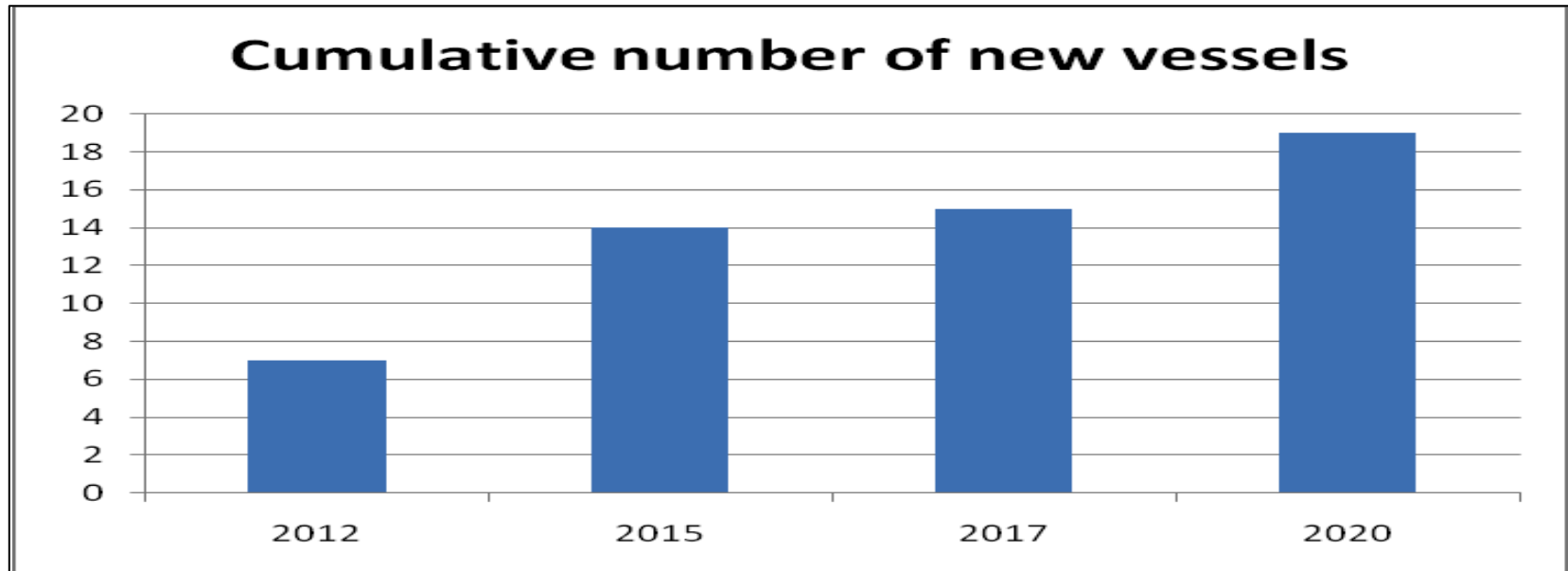
Present status of projects



less than 40% is in an advanced phase (order placed or finalised design), while a significant percentage is still at the pre-design phase



Progression of the new RRVs availability



approximately the 74% of vessels would be ready in 2015, with a significant reduction of the fleet age



Principal features of new vessels

- ✓ length roughly uniformly distributed, with a certain prevalence of length greater than 40m
- ✓ more than the 70% of vessels may host scientific teams of 10-20 units
- ✓ almost all vessels assign special efforts to reduce radiated noise and vibration and to install the dynamic positioning
- ✓ beside the most traditional equipment, both ADCP and multibeam are frequently installed on board
- ✓ ROV and AUV of reduced dimension may operate in almost all vessels



New/refit planned RRVs

Country	Project description	Status project	Scheduled year	Funding
Belgium	Replacement of RV "Belgica"	pre-design	2015	National + Regional
	New RV	order placed	2012	Regional
Denmark	Replacement of RV "Adolf Jensen"	order placed	2012	-
	Replacement of RV "Havfisken"	finalised design	2012	-
	Replacement of RV "Genetica I"	pre-design	2013	
Estonia	New RV	-	after 2020	National + European
France	New RV	pre-design	2017	National
	New RV	pre-design	2015	National + Regional + Others
Germany	Refitting of RV "Prof. Albrecht Penck"	-	2011	-
Italy	New RV	pre-design	2015	National + European
Lebanon	New RV	finalised design	-	National + Regional + European
Norway	Replacement of RV Håkon Mosby"	pre-design	2015	National
Poland	Vessel refitting	order placed	december 2010	National
Spain	Replacement of RV "Garcia del Cid"	pre-design	2015	National + European
	Refitting of RV "Francisco de Paula Navarro"	finalised design	2010	National + Regional
	New RV	order placed	2012	National
	New RV	order placed	2014	National
Turkey	Refitting of existing fisheries RV	pre-design	-	National
	New RV	pre-design	-	National
	New RV	pre-design	2012	National + Others

