

The 2008 *MarinERA* Guide to:



European Marine Science & Technology Policies and Research Funding Programmes.

MarinERA (2004-2008) (www.marinera.net) is a *pilot* FP6 ERA-NET partnership of leading Marine Research Funding Organisations from 13 European countries. Currently, the *MarinERA* partners fund over 900 competitive marine research projects worth over €274 million in grant-aid to their national marine research communities. This funding is additional to the very significant research funding allocated directly by Member State governments to public research institutions and to the higher education sector.

In June 2007, the *MarinERA* Project published a short guide (www.marinera.net/dissemination/brochures.html) to its members' Marine Science and Technology Policies, *competitive* Marine Research Funding Programmes and Specialist Marine Research Infrastructures.

This brochure updates and extends this information to include data on both *MarinERA* and non-*MarinERA* partner countries (see Geographic Coverage). It contains information on **National S&T Policies and Strategies**, **Marine Research Policies** and competitive **Marine Research Funding Programmes** and identifies the lead **National Marine Research Funding Organisation or Agency**.

Geographic Coverage:

MarinERA Partner Countries: Belgium, Finland, France, Germany, Greece, Ireland, Malta, Norway, Poland, Portugal, Spain, The Netherlands, UK.

Non-MarinERA Partner Countries: Bulgaria, Croatia, Cyprus, Denmark, Estonia, Iceland, Italy, Latvia, Lithuania, Romania, Slovenia, Sweden, Turkey.

Information on **Specialist Marine Research Infrastructures** is not included here and the interested reader is directed to the *MarinERA* Infrastructures Portal (<http://www.marinera.net/marine/index.html>) and its partner EuroOCEAN Infrastructures database (www.eurocean.org).

The data included here was sourced from national representatives during three Regional *MarinERA* Workshops: the Baltic Sea (Tallinn, April 2008); the Atlantic (Oslo, May 2008); and the Mediterranean/Black Sea (Athens, June 2008). These Workshops brought together representatives of the main Marine Research Funding Organisations of these regions.

Other useful sources of information:

ERA-WATCH (<http://cordis.europa.eu/erawatch/index.cfm>). The ERA-WATCH website provides an excellent inventory and database of high-level information on National Research Systems and S&T Policies.

EU Maritime Affairs (http://ec.europa.eu/maritimeaffairs/index_en.html). The EU Maritime Affairs (DG MARE) website provides a useful source of information on EU Marine Research Policies and Strategies and Member State Profiles.

EuroOCEAN (www.eurocean.org). The European Centre for Information on Marine Science & Technology (EuroOCEAN) website provides access to a range of marine S&T information portals and websites.

Marine-Board-ESF (www.esf.org/marineboard). The MB-ESF website provides up-to-date information on the activities of the Marine Board. MB-ESF provide support services for a number of marine related ERA-NETs.

Copies are available from:

The MarinERA Secretariat
Wandelaarkaai 7
8400 Oostende
Belgium

Copies can be downloaded from:

<http://www.marinera.net/dissemination/brochures.html>

October 2008

Country	Member State S&T Policy ¹	Sectoral S&T Policy relevant to Marine	Relevant RTD Programme	Duration	Managed By
Belgium	Federal: www.dekamer.be/FLWB/PDF/52/0995/52X0995013.pdf Flanders: http://jss.vlaamsparlement.be/docs/stukken/2004-2005/g94-1.pdf French speaking community: www.enseignement.be/info/inf/10000 Walloon Region: http://recherche-technologie.wallonie.be/?LANG=en Brussels Capital Region: www.irisnet.be/index_en.htm		SSD - Science for a sustainable development. • www.belspo.be/SSD • www.belspo.be/northsea	2005 – 2010	Belgian Federal Science Policy Office www.belspo.be
Bulgaria	National Strategy for Scientific Research 2005–2013 (project not adopted yet) www.minedu.bg/opencms/export/sites/mon/lefi_menu/documents/strategies/strategia_ni.pdf		Development of Scientific Potential www.nsfb.net/	2005–2013	National Science Fund www.nsfb.net
Croatia	Science & Technology Policy of the Republic of Croatia www.hatz.hr/policy2010.pdf	Action Plan 2006–2010 http://public.mzos.hr/Default.aspx?see=2193 includes “Adriatic Sea, Coasts and Islands”			Ministry of Science, Education and Sport http://public.mzos.hr
Cyprus	National Framework Programme for Research and Technological Innovation (2008–2010) http://crpf.metacanvas.com/EN/national_programmes/desmi_2008_index.html	Sustainable Development Programme (Pillar 1: Strategic and Multithematic Research http://crpf.metacanvas.com/EN/national_programmes/desmi_2008_index.html	Sustainable Development Programme (Pillar 1: Strategic and Multithematic Research http://crpf.metacanvas.com/EN/national_programmes/desmi_2008_index.html	2008–2010	Research Promotion Foundation (RPF) http://crpf.metacanvas.com/EN/ipe_info/general_info.html
Denmark ²	FORSK2015 / RESEARCH2015 http://fi.dk/site/research2015		Danish Research Fund http://fi.dk/site/english/councils-commissions-committees/scientific-research-council	2006–2015	Danish Natural Science Research Council http://fi.dk/site/english/councils-commissions-committees/scientific-research-council
Estonia ²	Estonian Research and Development and Innovation Strategy 2007–2013 “Knowledge-based Estonia” http://www.hm.ee/index.php?0&popup=download&id=6175 Successful Estonia 2014 http://www.rigikantselei.ee/failid/EE2014.doc.pdf		BONUS+ Joint Baltic Sea Research Programme www.bonusportal.org	2008–2011	Estonian Science Foundation www.esf.ee
Finland ²	Science and Technology Policy Council of Finland – Science, Technology Innovation Report 2006 http://www.minedu.fi/OPM/Tiede/tiede_ja_teknologianeuvosto/julkaisu/linjaraportti_2006.html?lang=en	Action Plan for the Protection of the Baltic Sea and Inland Watercourses http://www.ymparisto.fi/default.asp?contentid=200864&lan=EN	BO+US+ Joint Baltic Sea Research Programme www.bonusportal.org	2008–2011	Academy of Finland www.aka.fi

Country	Member State S&T Policy ¹	Sectoral S&T Policy relevant to Marine	Relevant RTD Programme	Duration	Managed By
France	National Programming Law for Research (April 2006) http://www.enseignementsup-recherche.gouv.fr/cid20475/rapport-mise-application-loi-programme-pour-recherche.html	Ifremer Strategic Plan (2005 – 2008) http://www.ifremer.fr/francais/institut/reference-plan-strategique-2005.pdf Pending: Ifremer Strategic Plan (2009–2013)	PNEC (the National Programme for Coastal Ecology Research) managed by Ifremer - www.insu.cnrs.fr/a334.pnec.html LITEAU (National Programme for Coastal Management) managed by the Ministry for Ecology, Energy, Sustainable Development, Territory Planning (MEEDDAT) - www.developpement-durable.gouv.fr/index.php3 LEFE (Les Enveloppes Fluides et Environnement) managed by INSU - www.insu.cnrs.fr/a1713/lefe-enveloppes-fluides-environnement.html EC2CO (Continental and Coastal Ecosystem) managed by CNRS - www.cnrs.fr/prg/PIR/programmes/ee2co.htm		Agence Nationale de la Recherche (ANR) www.agence-nationale-recherche.fr
Germany ²	"Igniting ideas" - The High-tech Strategy for Germany www.bmbf.de/pub/bmbf_his_en_kurz.pdf	National Research Programmes of the German Federal Government www.fz-juelich.de/ptj/national-funding			Julich (PJT), Division MGS www.fz-juelich.de/ptj
Greece	Strategic Plan for Development of Research Technology and Innovation in the framework of NSRF 2007–2013 www.espa.gr/media/documents/NSRF_VERSION_GR_SFC_120307.pdf	Marine S&T components are included under the thematic priorities: • Agriculture and Fisheries • Environment • Space and Security	Strategic Plan for Development of Research Technology and Innovation in the framework of NSRF 2007–2013 www.mnec.gr/export/sites/mnec/en/economics/National_Strategic_Reference_Framework_for_2007-13/ESPA_eng.pdf	2007–2013	General Secretariat for Research and Technology www.gsrt.gr
Iceland	Science and Technology Policy www.vti.is/english	The Ocean (Ministry of Fisheries and Agriculture) http://eng.sjavarutvegsraduneyti.is/Publications/mr/863	AVS: Fisheries Research Fund www.avs.is RANNIS Individual Project Funds www.rannis.is	2006–2009	The Icelandic Centre for Research RANNIS www.rannis.is
Ireland	Strategy for Science, Technology and Innovation (2006–2013) http://www.entemp.ie/science/technology/sciencestrategy.htm	Sea Change: A Marine Knowledge, Research & Innovation Strategy for Ireland (2007–2013). www.marine.ie/home/SeaChange.htm	National Development Plan – Marine Sub-Programme (2007–2013). www.marine.ie/home/funding MarineNDP2007_2013	2007–2013	Marine Institute www.marine.ie
Italy	Italian Science and Technology Policy, Linee Guida per La Politica Scientifica e Tecnologica Del Governo. http://www.miur.it/UserFiles/1027.pdf	FIRB: Fondo per gli investimenti della Ricerca di Base, http://firb.miur.it PRIN: Progetti di Ricerca di Interesse Nazionale http://prin.miur.it/ PON (Programma Operativo Nazionale) Ricerca e POR (Programmi Operativi Regionali) • http://www.ponricerca.miur.it/Public/PonRicerca/F1327/F1327.aspx • http://www.ponricerca.miur.it/Public/PonRicerca/F1720/F1720.aspx			Ministero dell'Università e Ricerca (MIUR) www.miur.it

Country	Member State S&T Policy ¹	Sectoral S&T Policy relevant to Marine	Relevant RTD Programme	Duration	Managed By
Latvia ²	Guidelines for Development of Higher Education, Science and Technologies 2002–2010 http://cordis.europa.eu/crawatch/index.cfm?fuseaction=policy.document&uid=7D87A74A-EC7C-5397-E2E3B838404C79B9		KALME: National Research Program: Climate Change Impact on Water Environment in Latvia. http://kalme.daba.lv/en/ BONUS+ Joint Baltic Sea Research Programme www.bonusportal.org	2002–2010 2008–2011	Latvian Council of Science www.lcp.lv
Lithuania ²	Evolving Lithuanian S&T Policy - see: http://cordis.europa.eu/crawatch/index.cfm?fuseaction=ri.content&topicID=612&countryCode=LT&parentID=12		BONUS+ Joint Baltic Sea Research Programme www.bonusportal.org	2008–2011	Science Council of Lithuania http://www.lmt.lt/indexe.php Ministry of Education & Science www.smm.lt/en
Malta	National Strategy for Research and Innovation - Building and Sustaining the Research and Innovation Enabling Framework (2007–2010): www.mcast.gov.mt		National Research & Innovation Programme www.mcast.gov.mt	2007–2010	Malta Council for Science & Technology (MCST) www.mcast.gov.mt
Netherlands	Science, Technology and Innovation in the Netherlands: Policies, Facts and Figures 2006 http://www.minocw.nl/documenten/Science-Technology-Innovation-brochure-2006.pdf Innovation Agenda http://www.innovatieplatform.nl/index.cfm/v/Innovation_agenda/vid/1D82BF8B-F42E-0FC6-6D3-4060AB5311F0E	NWO Strategy (2007–2010): Science Value! http://www.nwo.nl/nwohome.nsf/pages/NWOP_5SME25_Eng Maritime Innovation strategy (only in Dutch) http://www.sentemovem.nl/innovatieindialog/innovatieprogrammas/maritiem.asp A new Science Policy Strategy (2008–2012) is in preparation.	National Programme for Sea and Coastal Research http://www.nwo.nl/nwohome.nsf/pages/NWOP_63JL4D_ENG	2008–2012	Netherlands Organisation for Scientific Research (NWO) www.nwo.nl
Norway	Norwegian Research Policy www.regjeringen.no/en/dep/kd/Selected-topics/research/research-policy.html?id=443398 Main Strategy of the Research Council http://www.rcn.no/en/Article/Main+strategy+of+the+Research+Council/1193731376993	See Relevant RTD Programmes →	Oceans and Coastal Areas (HAVKYST) www.forskingsradet.no/havkyst Aquaculture – An Industry in Growth (HAVBRUK), www.forskingsradet.no/havbruk Climate change and impacts in Norway (NORKLIMA), www.forskingsradet.no/norklima	2006–2015	The Research Council of Norway www.rcn.no
Poland ²	National Foresight Programme “Poland 2020” http://foresight.polska2020.pl/mis/en/ National Scientific Research and Experimental Development Programme (in preparation)	Recommendation by the Polish National Scientific Committee on Oceanic Research identifying significant research areas (1999) www.iopan.gda.pl/oceanologia/411druet.pdf (update in preparation) Strategy for the Development of Fisheries, 2007–2013 www.minrol.gov.pl/DesktopDefault.aspx?TabOrgId=1554&LangId=0	BONUS+ Joint Baltic Sea Research Programme www.bonusportal.org National Strategic Programmes (in preparation) Sustainable Development of Fisheries and Coastal Areas www.minrol.gov.pl/DesktopDefault.aspx?TabOrgId=1554&LangId=0	2008–2011 2007–2013 2007–2013	Ministry of Science and Higher Education (MSHE) www.mnisw.gov.pl National Centre for Research and Development (NCBR) www.ncbr.gov.pl
Portugal	Plano Tecnológico/ Technological Plan (2005–2010) www.planotecnologico.pt/document/technological_plan_presentation_document.pdf Um Compromisso com a Ciência / A Compromise with Science www.mctes.pt/docs/ficheiros/Ciencia_2007_2009_REV.pdf	Estratégia Nacional para o Mar / National Ocean Strategy http://www.emam.mdn.gov.pt/National_Ocean_Strategy_Portugal_en.pdf			Fundação para a Ciência e Tecnologia (FCT) Science and Technology Foundation http://alfa.fct.mctes.pt/navegador

Country	Member State S&T Policy ¹	Sectoral S&T Policy relevant to Marine	Relevant RTD Programme	Duration	Managed By
Romania	National R&D Policy www.mct.ro/ancs_web/index.php?action=view&idcat=20 <i>page under construction</i>		The National Plan for Research, Development and Innovation : www.ancs.ro/ancs_web/img/files_up/1188313586PN2%20eng.pdf	2007–2013	National Centre for Programme Management (CNMP) www.cnmp.ro National Authority for Scientific Research (ANCS) www.ancs.ro
Slovenia	National Research & Development Programme (2006–2010) www.mvzt.gov.si/en/legislation/				Ministry of Higher Education, Science & Technology www.mvzt.si
Spain	The Spanish National Plan for Scientific Research and Innovation (2008–2011) www.micinn.es	The National Plan follows a bottom-up approach without defined objectives. There are Fundamental, Applied, Experimental and Innovation Programmes through which a proposal can be submitted. www.plannacionalidi.es	<p>National Research and Innovation Programme www.plannacionalidi.es/</p> <p>Regional Research Funding Programmes which have a significant marine research element include:</p> <ul style="list-style-type: none"> • IN.CI.TE. Plan Galego de I+D+iT 2006–2010 (www.conselloriadga/dsidi) Consellería de Innovación e Industria, Xunta de Galicia. • Plan Andaluz de Desarrollo e Innovación 2008–2013 (www.juntadecandalucia.es/innovacionciencia/empresa/ifapa/) Consejería de Innovación Ciencia y Empresa, Junta de Andalucía. • Departamento de Educación, Universidades e Investigación (www.hezkuntza.ejgv.euskadi.net/r43-5552/es/contenidos/informacion/dib4/es_2035/proyectos_c.html) Gobierno Vasco. • Pla de Recerca e Innovació de Catalunya 2005–2008 (www10.gencat.net/pricatalunya/) Departament d'Innovació Universitat i Empresa, Generalitat de Catalunya. • Pla de Ciència, Recerca e Innovació 2005–2008 (www.caib.es/root/index.do) Direcció General de Recerca, Desenvolupament Tecnològic i Innovació, Govern de les Illes Balears. • Pla València de Investigació Científica i Tècnica 2008–2011 (www.gva.es) Conselleria d'Educació, Generalitat Valenciana. 		Ministry of Science and Innovation www.micinn.es

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Sweden ²	Swedish Research Bill in preparation for launch in October/November 2008	Strategy for Fish and Fisheries Research (2004) http://www.formas.se/upload/dokument/PDF%20filer/strategi_for_fisk_och_fiskeforskning.pdf Swedish Environmental Objectives (2008) http://www.miljomal.nu/english/english.php	FORMAS Research Programmes, http://www.formas.se/formas_templates/Page_928.aspx BONUS+ Joint Baltic Sea Research Programme www.bonusportal.org	2008–2011 2008–2011	Swedish Research Council (FORMAS) www.formas.se
Turkey	National Science & Technology Strategy (2005–2010). www.f7.org.tr/home.do?ot=1&sid=5000&pid=547	A Marine S&T Strategy is currently under development.	The National Strategy is implemented via a suite of 8 Specific Programmes listed at: www.f7.org.tr/home.do?ot=1&sid=5000&pid=547		Scientific and Technological Research Council of Turkey TUBITAK www.tubitak.gov.tr
UK	Science and Innovation Investment Framework (2004–2014) www.hm-treasury.gov.uk/spending_review/spend_sr04/associated_documents/spending_sr04_science.cfm	The Marine Bill www.defra.gov.uk/marine/legislation/index.htm DEFRA Marine Programme Plan 2008–2009 www.defra.gov.uk/marine/pdf/mpp08-09.pdf	NERC strategy (2007 – 2012) Next Generation Science for Planet Earth (www.nerc.ac.uk/publications/strategicplan/nextgeneration.asp). Oceans 2025: Overview of the NERC Marine Centres' Strategic Research Programme 2007 – 2012 (www.oceans2025.org)	2007–2012	Natural Environment Research Council (NERC) www.nerc.ac.uk DEFRA www.defra.gov.uk/evidence/index.htm
Note 1 ERA-WATCH	The ERA-WATCH website contains an excellent summary of participating country S&T Policies, Strategies and Programmes	ERA-WATCH http://cordis.europa.eu/era-watch/index.cfm			
Note 2: Baltic Sea	The EU Baltic Sea countries, including the Russian Federation, have worked together within the BONUS Project to prepare a common Baltic Sea Research Strategy	Baltic Sea Science Plan and Implementation Strategy www.bonusportal.org/modules/system/stdreq.aspx?P=225&VID=default&SID=399707338218037&S=0&C=26399	BONUS+ Joint Baltic Sea Research Programme www.bonusportal.org	2008–2011	BONUS EEIG www.bonusportal.org

BELGIUM

Belgian Science & Technology Policy for the period **2005 – 2010** is described in the different policy notes of the **Federal and Regional Ministers of/for Science (Policy)** www.dekamer.be/FLWB/PDF/52/0995/52K0995013.pdf

Marine Research is supported under the **SSD: Science for a Sustainable Development Programme** (www.belspo.be/SSD) managed by the **Belgian Science Policy** (www.belspo.be). A database of funded projects is available at www.belspo.be/belspo/fedra/pres_en.stm

Other National Research Funding Programmes which have a significant Marine Research element include:

- **Support to the Exploitation and Research of Earth Observation data 2 (STEREO 2)** - <http://eo.belspo.be/Directory/ProgrammeDetail.aspx?progId=7>

BULGARIA

Bulgarian Science & Technology Policy for the period **2005–2013** is described in the **National Strategy for Scientific Research**

(www.minedu.government.bg/opencms/export/sites/mon/left_menu/documents/strategies/strategia_ni.pdf). The marine research component of this Policy/Strategy is not further developed.

National Research Funding Programmes which have a significant marine research element include:

- Development of Scientific Potential (<http://www.nsfb.net/>) managed by the National Science Fund (<http://www.nsfb.net/>).

CROATIA

Croatian Science & Technology Policy for the period **2006–2010** is described in **National Science & Technology Policy for the Republic of Croatia** (www.hatz.hr/policy2010.pdf). A marine research component (Adriatic Seas, Coasts and Islands) is included in the S&T Policy Action Plan 2006–2010 (<http://public.mzos.hr/Default.aspx?sec=2193>). The S&T Strategy is managed by the **Ministry of Science, Education and Sport** (<http://public.mzos.hr>)

CYPRUS

Cypriot Science & Technology Policy for the period **2008–2010** is described in the **National Framework Programme for Research and Technological Innovation (2008–2010)** http://crpf.metacanvas.com/EN/national_programmes/desmi_2008/index.html.

Cyprus currently has no National Marine Research Policy. Projects in the fields of Natural Environment, Rural and Structured Environment, Agriculture, Fisheries, Aquaculture, and Socio-Economic Sustainability can be funded under Pillar 1 of the **Sustainable Development Programme: Strategic and Multithematic Research** (http://crpf.metacanvas.com/EN/national_programmes/desmi_2008/index.html) managed by the **Research Promotion Foundation** (www.research.org.cy). Although a database of funded projects is not currently available, names of funded projects along with the participating partners are published in an RPF magazine.

DENMARK

Danish Science & Technology Policy for the period **2006–2015** is described in **FORSK2015 / RESEARCH2015** (<http://fi.dk/site/research2015>) prepared by the **Danish Agency for Science, Technology & Innovation** (<http://fi.dk/site/english>).

Marine research is catered for mainly under the Research Funding Programmes managed by the **Danish Natural Science Research Council** <http://fist.dk/site/english/councils-commissions-committees/scientific-research-councils/the-danish-natural-science-research-council>. Denmark participates in the **BONUS+ Joint Baltic Sea Research Programme** (www.bonusportal.org).

ESTONIA

Estonian Science & Technology Policy for the period **2007–2013** is described in the **Estonian Research, Development and Innovation Strategy 2007–2013: Knowledge-based Estonia** (<http://www.hm.ee/index.php?0&popup=download&id=6175>). Estonia participates in the **BONUS+ Joint Baltic Sea Research Programme** (www.bonusportal.org). Research funding is managed by the **Estonian Science Foundation** (www.etf.ee).

FINLAND

Finnish Science & Technology Policy for the period **2007–2011** is described in the **Science and Technology Policy Council of Finland – Science, Technology Innovation Report 2006** (www.minedu.fi/OPM/Tiede/tiede-_ja_teknologianeuvosto/julkaisut/linjaraportti_2006.html?lang=en).

An **Action Plan for the Protection of the Baltic Sea and Inland Watercourses** is available at: www.ymparisto.fi/default.asp?contentid=200864&lan=EN. Finland manages the **BONUS+ Joint Baltic Sea Research Programme** (www.bonusportal.org) on behalf of the other Baltic Sea States. Research funding is managed by the **Academy of Finland** (www.aka.fi).

FRANCE

French Science & Technology Policy for the period **2006–2010** is described in the **National Programming Law for Research** (www.legifrance.gouv.fr/affichTexte.do?cidTexte=JORFTEXT000000426953&dateTexte=). The marine research component of this Policy is partly developed in the **Ifremer Strategic Plan (2005–2008)** (<http://www.ifremer.fr/francais/institut/referance/plan-strategique-2005.pdf>).

There is no French National Marine Research Policy. Marine research is addressed through two bilateral agreements negotiated directly by the Ministry for Research with the two main French Research Performing Organisations (Ifremer and CNRS). The strategy is delivered through individual contracts (four years) focused on non-competitive funds only.

The **French Research Council (ANR)** – (www.agence-nationale-recherche.fr) operates thematic programmes under which marine research projects can be competitively funded. A database of funded projects is not available.

Other National Research Funding Programmes which have a significant marine research element include:

- PNEC (the National Programme for Coastal Ecology Research) managed by Ifremer - www.insu.cnrs.fr/a334,pnec.html
- LITEAU (National Programme Coastal Management) managed by Ministry for Ecology, Energy, Sustainable Development, Territory Planning (MEEDDAT) - www.developpement-durable.gouv.fr/index.php3
- LEFE (Les Enveloppes Fluides et Environnement) managed by INSU - www.insu.cnrs.fr/a1713,lefe-enveloppes-fluides-environnement.html
- EC2CO (Continental and Coastal Ecosphere) managed by CNRS - www.cnrs.fr/prg/PIR/programmes/ec2co.htm

GERMANY

German Science & Technology Policy for the period **2006–2020** is summarised in “**Igniting ideas**”- **The High-tech Strategy for Germany** (www.bmbf.de/pub/bmbf_hts_en_kurz.pdf) and further developed in the **National Funding Programme** (www.fz-juelich.de/ptj/national-funding).

While there is no specific marine research funding programme, marine research can be supported under a number of thematic programmes including: Environment & Sustainability; System Earth, Navigation & Marine Technology (www.fz-juelich.de/ptj/national-funding/). Germany participates in the **BONUS+ Joint Baltic Sea Research Programme** (www.bonusportal.org). Research funding is managed by the **Julich (PJT), Division MGS** (www.fz-juelich.de/ptj/).

GREECE

The **Greek Science & Technology Strategy** for the period **2007–2013** is described in the **National Strategic Reference Framework** (www.espa.gr/media/documents/NSRF_VERSION_GR_SFC_120307.pdf) and under the **General Secretariat for Research and Technology (GSRT)** Report “**The Way Forward**” (http://www.gsrt.gr/default.asp?V_ITEM_ID=139).

The marine research component of this Policy/Strategy (under the environment, transport and fisheries components) is further developed in the **Strategic Plan for Development of Research Technology and Innovation in the Framework of NSRF 2007–2013** (www.mnec.gr/export/sites/mnec/en/economics/National_Strategic_Reference_Framework_for_2007-13/ESPA_eng.pdf).

The Strategic Plan, including research funding, is managed by the **General Secretariat for Research and Technology (GSRT)** (www.gsrt.gr).

ICELAND

Iceland’s Science & Technology Policy for the period **2006–2009** is described in **Challenges and Objectives in Science, Technological Development and Innovation by The Science and Technology Policy Council Iceland** - <http://www.vt.is/>. The marine research component of this Policy is further developed in **The Ocean** - <http://eng.sjavarutvegsraduneyti.is/Publications/nr/863>.

The National Marine Research Strategy is implemented through the **Science and Technology Policy Programme** – www.vt.is which is managed by the **Icelandic Centre for Research (RANNIS)** (www.rannis.is). A database of funded projects is available at www.rannis.is.

Other National Research Funding Programmes which have a significant Marine Research element include:

- AVS - a Research fund for Marine and Fisheries: www.avs.is
- The Ministry of Fisheries - www.sjavarutvegsraduneyti.is

IRELAND

Irish Science & Technology Policy for the period **2006–2013** is described in the **Strategy for Science, Technology & Innovation** (www.entemp.ie/science/technology/sciencestrategy.htm). The marine research component of this Strategy is further developed in **Sea Change: A Marine Knowledge, Research & Innovation Strategy for Ireland 2007-2013** (www.marine.ie/home/SeaChange.htm).

Marine research is directly funded through the **National Development Plan – Marine Sub-Programme** (http://www.marine.ie/home/funding/MarineNDP2007_2013) which is managed by the **Marine Institute** (www.marine.ie). A database of funded projects is available at www.marine.ie/home/services/md/pastprojects

Other National Research Funding Programmes which have a Marine Research element include:

- **Renewable Ocean Energy** (www.sei.ie) Sustainable Energy Ireland.
- **The Environment Protection Agency STRIVE Programme** (<http://www.epa.ie/researchandeducation/research>).
- **The Irish Research Council for Science, Engineering and Technology EMBARK Programme** (www.ircset.ie).

ITALY

Italian Science and Technology Policy, Linee Guida per La Politica Scientifica e Tecnologica Del Governo, prepared by the **Ministero dell'Università e Ricerca (MIUR)** (www.miur.it) can be found at <http://www.miur.it/UserFiles/1027.pdf>. This document specifically refers to the period **2003–2006**, but provides the basis for development of the later document for 2005 – 2007 (<http://www.miur.it/UserFiles/1998.pdf>). There is no specific marine component

Marine research is funded transversally through a number of national programmes managed by MIUR including:

- **FIRB: Fondo per gli investimenti della Ricerca di Base**, (<http://firb.miur.it>)
- **PRIN: Progetti di Ricerca di Interesse Nazionale** (<http://prin.miur.it>)
- **PON (Programma Operativo Nazionale) Ricerca e POR (Programmi Operativi Regionali)**:
www.ponricerca.miur.it/Public/PonRicerca/F1327/F1327.aspx
www.ponricerca.miur.it/Public/PonRicerca/F1720/F1720.aspx

Another relevant agency and related call is:

- **Ministero dell'Ambiente e della Tutela del Territorio e del Mare**
http://87.241.41.49/index.php?id_sezione=80

LATVIA

Latvian Science & Technology Policy for the period **2002–2010** is described in the **Guidelines for Development of Higher Education, Science and Technologies 2002–2010** (<http://cordis.europa.eu/erawatch/index.cfm?fuseaction=policy.document&uuid=7D87A74A-EC7C-5397-E2E3B838404C79B9>).

Latvia's marine research strategy is outlined in the **National Research Program: Climate Change Impact on Water Environment in Latvia (KALME)** (<http://kalme.daba.lv/en/>). Latvia participates in the **BONUS+ Joint Baltic Sea Research Programme** (www.bonusportal.org). Research funding is managed by the **Latvian Council of Science** (<http://www.lzp.lv>).

LITHUANIA

The evolving **Lithuanian Science & Technology Policy** is summarised on the ERA-WATCH website <http://cordis.europa.eu/erawatch/index.cfm?fuseaction=ri.content&topicID=612&countryCode=LT&parentID=12>.

Lithuania participates in the **BONUS+ Joint Baltic Sea Research Programme** (www.bonusportal.org). Research funding is managed by the newly established **Science Council of Lithuania** (www.lmt.lt/indexe.php) and the **Ministry of Education & Science** (www.smm.lt/en).

MALTA

Maltese Science & Technology Policy for the period **2007–2010** is described in the **National Strategy for Research and Innovation for 2007–2010**, entitled, **Building and Sustaining the Research and Innovation (R&I) Enabling Framework** (www.mcst.gov.mt).

The marine research component of this Strategy is further developed as part of the environment platform of strategic importance under the National R&I Strategy. The environmental/marine component of the National Research Strategy is implemented through the **National R&I Funding Programme** (www.mcst.gov.mt) which is managed by the **Malta Council for Science & Technology (MCST)** (www.mcst.gov.mt). A database of funded projects is available at www.mcst.gov.mt.

NETHERLANDS

The **Netherlands Science & Technology Strategy** for the period **2008–2012** is currently being prepared by the Ministry of Education and Science. A summary of performance to date is described in **Science, Technology and Innovation in the Netherlands: Policies, Facts and Figures 2006** (www.minocw.nl/documenten/Science-Technology-Innovation-brochure-2006.pdf). The marine research component of this Strategy is further developed in the **NWO Strategy (2007–2010): Science Valued!** (www.nwo.nl/nwohome.nsf/pages/NWOP_5SME25_Eng).

The National Marine Research Strategy is implemented through the **National Programme for Sea and Coastal Research Programme** (http://www.nwo.nl/nwohome.nsf/pages/NWOP_63JL4D_ENG) managed by the **Netherlands Organisation for Scientific Research (NWO)** (www.nwo.nl). A database of funded projects is available at http://www.nwo.nl/projecten.nsf/pages/NWOP_6KRLVE_Eng.

Other National Research Funding Programmes which have a significant Marine Research element include:

- **Maritime Innovation Programme – SenterNovem**
<http://www.senternovem.nl/innovatieindialoog/innovatieprogrammas/maritiem.asp>.

NORWAY

Norwegian Science & Technology Policy for the period **2006 – 2015** is summarised on the **Norwegian Ministry for Research and Education** website (www.regjeringen.no/en/dep/kd/Selected-topics/research/research-policy.html?id=443398) and includes Thematic Priorities in Energy and the Environment, Health, Oceans and Food. The marine research component of this Policy is further developed in the programme plan: **Ocean and Coastal Areas** (www.forskningssradet.no/havkyst).

The **Ocean and Coastal Areas Program** (www.forskningssradet.no/havkyst) is managed by the **Research Council of Norway** (www.rcn.no). A database of funded projects is available at <http://www.forskningssradet.no/en/Project+database/1184150364215>.

Other National Research Funding Programmes which have a significant Marine Research element include:

- **Aquaculture – An Industry in Growth (HAVBRUK)**, www.forskningssradet.no/havbruk.
- **Climate change and impacts in Norway (NORKLIMA)**, www.forskningssradet.no/norklima.

POLAND

Polish Science & Technology Policy for the period **2008–2011** is in preparation and is being informed by the **National Foresight Programme Poland 2020** (<http://foresight.polska2020.pl/mis/en/>). The marine research component of the National Programme is informed by the **Recommendation by the Polish National Scientific Committee on Oceanic Research (1999)** (<http://www.iopan.gda.pl/oceanologia/411druet.pdf>).

Poland participates in the **BONUS+ Joint Baltic Sea Research Programme** (www.bonusportal.org). Research funding is managed by the **Ministry of Science and Higher Education (MSHE)** (www.mnisw.gov.pl) and the newly established **National Centre for Research and Development (NCBiR)** (www.ncbir.gov.pl) via competitive calls in all areas of research, through which marine projects can be funded.

PORTUGAL

Portuguese Science and Technology Policy for the period **2005–2010** is described in **Plano Tecnológico/ Technological Plan (2005–2010)** (www.planotecnologico.pt/document/technological_plan_presentation_document.pdf). The marine S&T component is further developed in **Estratégia Nacional para o Mar / National Ocean Strategy** (www.emam.mdn.gov.pt/National_Ocean_Strategy_Portugal_en.pdf).

The **Programme for the Enhancement of Marine Science and Technology (PDCTM)** is currently under review with a view to being updated to support the implementation of the National Ocean Strategy (see above). Research funding is managed by **Fundação para a Ciência e Tecnologia (FCT) / Science and Technology Foundation** (<http://alfa.fct.mctes.pt/navegador>).

ROMANIA

Romanian Science & Technology Policy for the period **2007–2013** is described in the **National Strategy for Research, Development & Innovation** (www.ancs.ro/index.php?action=view&idcat=20). This strategy is being implemented through the **National Plan for Research, Development and Innovation** (www.ancs.ro/ancs_web/img/files_up/1188313586PN2%20eng.pdf) coordinated by the **National Authority for Scientific Research (ANCS)** (http://www.ancs.ro/ancs_web/index.php?&lang=en&PHPSESSID=1d7f38ba5f1becbf625ae975c10c14b1).

The **Romanian National Plan for Research, Development and Innovation** is built on **six National Programmes** and has **nine Priority Domains**. Marine Research is not a separate priority, nor does it have a separate programme. Proposals for marine research in Romania can be funded under all the six national programmes and most of the nine priority domains. Research funding is managed by the **National Centre for Programme Management (CNMP)** (www.cnmp.ro) and co-ordinated by **National Authority for Scientific Research (ANCS)** (www.ancs.ro).

SLOVENIA

Slovenian Science & Technology Policy for the period **2006–2010** is described in the **National Research & Development Programme** (www.mvzt.gov.si/en/legislation/legislation/). Research funding is managed by the **Ministry of Higher Education, Science and Technology** (www.mvzt.si).

SPAIN

Spanish Science & Technology Policy for the period **2008–2011** is described in the **Spanish National Plan for Scientific Research, Development and Technological Innovation** (www.plannacionalidi.es). The approach is bottom-up without specific thematic components except the in following areas:

- Development and sectoral technological innovation.
- Strategic actions: energy and climate change.

Following this bottom-up approach, marine R&D projects are implemented through the **National Plan for Scientific Research, Development and Technological Innovation** (www.plannacionalidi.es) which is managed by the **Spanish Ministry of Science and Innovation** (www.micinn.es). A database of funded projects is available at www.ciencias-marinas.uvigo.es/proyectosredmar.html.

The National Programme includes: i) competitive calls for R&D; ii) open calls to support shiptime, small equipment, networks and symposiums; iii) transfer of knowledge; and iv) mobility.

Regional Research Funding Programmes which have a significant marine research element include:

- IN.CI.TE. Plan Galego de I+D+iT 2006–210 (www.conselleriaiei.org/ga/dxidi) Conselleria de Innovación e Industria, Xunta de Galicia.
- Plan Andaluz de Desarrollo e Innovación 2008–2013 (www.juntadeandalucia.es/innovacioncienciayempresa/ifapa/) Consejería de Innovación Ciencia y Empresa, Junta de Andalucía.
- Departamento de Educación, Universidades e Investigación (http://www.hezkuntza.ejgv.euskadi.net/r43-5552/es/contenidos/informacion/dib4/es_2035/proyectos_c.html) Gobierno Vasco.
- Pla de Recerca e Innovació de Catalunya 2005–2008 (www10.gencat.net/pricatalunya/) Departament d'Innovació Universitats i Empresa, Generalitat de Catalunya.
- Pla de Ciència, Recerca e Innovació 2005–2008 (www.caib.es/root/index.do) Direcció General de Recerca, Desenvolupament Tecnològic i Innovació, Govern de les Illes Balears.
- Pla Valencia de Investigació Científica i Tècnica 2008–2011 (www.gva.es) Conselleria d'Educació, Generalitat Valenciana.

SWEDEN

Swedish Science and Technology Policy is described in a **Government Research Bill** produced every 3 to 4 years. A new Research Bill covering the period 2008–2011 is expected in November 2008. Marine related priorities are outlined in a **Strategy for Fish and Fisheries Research (2004)** (www.formas.se/upload/dokument/PDF%20filer/strategi_for_fisk_och_fiskeforskning.pdf) and **Swedish Environmental Objectives (2008)** (www.miljomal.nu/english/english.php) including a “balanced marine environment”.

Research funding in the area of sustainable development is managed through the **Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS)** (www.formas.se/), the **Swedish Research Council** (www.vr.se/2.69f66a93108e85f68d480000.html) and to a lesser degree **VINNOVA** (www.vinnova.se/In-English/), all of which implement competitive calls and peer review.

TURKEY

The Turkish Science & Technology Strategy for the period **2005–2010** is described in the **National Science & Technology Strategy** (<http://www.fp7.org.tr/home.do?ot=1&sid=5000&pid=547>). The marine research component of this Strategy is currently being developed.

The **Turkish Science and Technology Research and Funding Programme** consists of a suite of 8 specific funding programmes (see below) (www.fp7.org.tr/home.do?ot=1&sid=5000&pid=547) and is managed by the **Scientific and Technical Research Council of Turkey TUBITAK** (www.tubitak.gov.tr).

Turkish Science and Technology Research Programmes, supported by the Directorate of Research Support Programmes (ARDEB), consist of eight sub-programmes, namely:

- The support programme for scientific and technological research projects.
- Short term R&D funding programme.
- Support programme for research projects of public institutions.
- Patent application promotion and support programme.
- Global researcher programme (EVRENA).
- The participation programme for international scientific research projects.
- The support programme for the initiative to build scientific and technological cooperation networks and platforms (İSBAP).
- National young researchers Career development programme.

UNITED KINGDOM (UK)

UK Science and Technology Policy for the period **2004–2014** is described in **Science and Innovation Investment Framework (2004–2014)** (www.hm-treasury.gov.uk/spending_review/spend_sr04/associated_documents/spending_sr04_science.cfm). Policy documents of relevance to marine research include: **The UK Marine Bill** (www.defra.gov.uk/marine/legislation/index.htm) and **DEFRA's Marine Programme Plan 2008–2009** (www.defra.gov.uk/marine/pdf/mpp08-09.pdf).

The Natural Environment Research Council (NERC) (www.nerc.ac.uk) is a major funder of marine research in the UK. This funding is implemented through the **NERC strategy: Next Generation Science for Planet Earth (2007–2012)** (www.nerc.ac.uk/publications/strategicplan/nextgeneration.asp). The **Department for Environment, Food and Rural Affairs (DEFRA)** (www.defra.gov.uk/evidence/index.htm) is also a major funder of marine science supporting research, monitoring and surveillance activities. Details of DEFRA-funded projects can be found at <http://randd.defra.gov.uk>

MarinERA Partners



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