



**RCA 2012/2013 - 18 Projects + 1 Footnote a/ + RAS7021**

## Procedure for Development of RCA Projects Supported by TC

Activity	Time Frame	Status
Core and supplementary projects of the RCA Programme are decided by the NRs at the NRM	April 2010 – 32 <sup>nd</sup> RCA NRM	Done
Identification of LCs for the priority areas	April 2010 – 32 <sup>nd</sup> RCA NRM	Done
Drafting of the Concept Papers by LCCs, in the priority areas identified by NRs in consultation with the other stakeholders	July 2010	Done
Submission of the approved Concept Papers to the IAEA by the RCA Chair	August 2010	Done
Screening/review of the Project Concepts according to TC Criteria and technical	November 2007	Done
Detailed design of the projects selected for implementation by the LCCs in conjunction with IAEA staff and in consultation with the relevant RCA Stakeholders	March 2011	Done
Review of project designs, preparation of budgets, decision on the projects / project activities that could be supported by TCF.	April – August 2011	Done
<b>Submission of the projects selected for implementation to the Board of Governors for approval by the TC Department</b>	<b>September 2011 – 40<sup>th</sup> RCA GCM</b>	<b>Current activity</b>
Information on projects approved by the Board of Governors conveyed to the Member States	November 2011	To be done
NRs inform the RCA Secretariat of the project they wish to participate in along with the resources available for project implementation and the contact details of the appointed NPCs.	31 <sup>st</sup> December 2011	To be done

## List of the proposed RCA Projects for 2012/2013 TC Cycle

### New projects (16)

Concept Number	Project Title
RAS2010001	Improving the Decision-making Process in Cancer Management with Hybrid Nuclear Medicine Imaging (PET/CT and SPECT/CT)
RAS2010002	Combined Fertigation and Mutation Breeding Technologies to Maximize High Value Crops Yields, Optimize Resource use efficiency and Buffer Climate Change
RAS2010003	Application of Isotope Techniques to Investigate Groundwater Dynamics and Recharge Rate for Sustainable Management of an Aquifer
RAS2010004	3D Image-Guided Brachytherapy for Predominant Cancers in the RCA Region
RAS2010006	Radiation Processing for Development of New Grafted Materials for Industrial Application and Environmental Preservation
RAS2010007	Implementation of Best Practices of Food Irradiation for Sanitary and Phytosanitary Purposes
RAS2010008	Characterization and Optimization of Process Dynamics in Complex Industrial Systems Using Emerging Radiotracer and Sealed Source Technology
RAS2010009	Advanced Non-Destructive Evaluation (NDE) for Enhancing Industrial Safety, Product Quality and Productivity
RAS2010010	Strengthening the Application of Nuclear Medicine in the Management of Cardiovascular Diseases in the Asian Region
RAS2010011	Improving Soil Fertility, Land Productivity and Mitigating Land Degradation
RAS2010012	Capacity Building with Distance Assisted Training for Nuclear Medicine Professionals
RAS2010013	Strengthening Application of Stereotactic Body Radiation Therapy in the RCA region

RAS2010014	Integration of Nuclear and Isotopic Techniques in Climate Change Related Studies for Sustainable Marine Ecosystem Management
RAS2010015	Applied Sciences of Oncology course (ASOC)
RAS2010017	Transfer of Knowledge on Advanced Technology employed in Nuclear Instrumentation for improving maintenance and utilization. (as footnote a/)
RAS2010019	Sustainable Air Pollution Monitoring in the RCA Region Using Nuclear Analytical Technology by development of source receptor inventories

### **Continuations (3)**

<b>Project Number</b>	<b>Project Title</b>
RAS6038	Strengthening Medical Physics through Education and Training (RCA)
RAS6053	Improving Image Based Radiation Therapy for Common Cancers in the RCA Region (RCA)
RAS8109	Supporting Radiation Processing of Polymeric Materials for Agricultural Applications and Environmental Remediation (RCA)

## Proposed RCA programme and budget for 2012/2013

### New projects

Project Number and Title	2 012		2 013		2 014		2 015		TOTAL HARDCORE
	Hardcore	Footnote a/	Hardcore	Footnote a/	Hardcore	Footnote a/	Hardcore	Footnote a/	
RAS2010001 Improving the decision-making process in cancer management with hybrid nuclear medicine imaging (PET/CT and SPECT/CT)	111 000	0	152 780	0	135 000	0	0	0	398 780
RAS2010002 Combined fertigation and mutation breeding technologies to maximize high value crops yields, optimize resource use efficiency and buffer climate change	125 249	0	154 751	0	62 579	45 000	50 000	0	347 579
RAS2010003 Application of Isotope Techniques to Investigate Groundwater Dynamics and Recharge Rate for Sustainable Management of An Aquifer	90 575	0	90 450	0	80 000	0	54 655	0	315 680
RAS2010004 3D Image-Guided Brachytherapy for Predominant Cancers in the RCA Region	75 000	0	70 000	0	170 960	0	55 219	0	371 179
RAS2010006 Radiation Processing for Development of Advanced Grafted Materials for Industrial Application and Environmental	0	0	95 000	0	120 000	0	135 000	0	350 000
of food irradiation for sanitary and phytosanitary purposes	105 000	0	153 000	0	100 000	0	0	0	358 000
RAS2010008 Characterization and optimization of process dynamics in complex industrial systems using emerging radiotracer and sealed source technology	104 355	0	149 455	0	134 655	0	0	0	388 465
RAS2010009 Advanced Non-Destructive Examination for enhancing Industrial Safety, Product Quality and Productivity.	115 000	0	145 000	0	144 310	0	0	0	404 310

Project Number and Title	2 012		2 013		2 014		2 015		TOTAL HARDCORE
	Hardcore	Footnote a/	Hardcore	Footnote a/	Hardcore	Footnote a/	Hardcore	Footnote a/	
RAS2010010 Strengthening the Application of Nuclear Medicine in the Management of Cardiovascular Diseases in the Asian Region	96 780	0	110 000	0	70 000	0	0	0	276 780
RAS2010011 Improving soil fertility, land productivity and mitigating land degradation	145 000	0	162 180	50 000	123 790	15 000	85 000	0	450 970
RAS2010012 Capacity Building with Distance Assisted Training for Nuclear Medicine Professionals	52 000	0	52 000	0	0	0	0	0	104 000
RAS2010013 Strengthening Application of Stereotactic Body Radiation Therapy in the RCA region	90 545	0	90 000	0	110 000	0	100 000	0	390 545
RAS2010014 Integration of Nuclear and Isotopic Techniques in Climate Change Related Studies for Sustainable Marine Ecosystem Management	105 106	0	120 894	0	95 000	0	0	0	321 000
RAS2010015 Supplementary project Applied Sciences of Oncology course (ASOC)	94 600	95 500	0	0	0	0	0	0	94 600
RAS2010019 Sustainable air pollution monitoring in the RCA region using nuclear analytical technology by development of source receptor inventories	95 450	0	139 000	0	115 400	0	100 000	0	449 850
<b>Total New Projects</b>	<b>1 405 660</b>	<b>95 500</b>	<b>1 684 510</b>	<b>50 000</b>	<b>1 461 694</b>	<b>60 000</b>	<b>579 874</b>	<b>0</b>	<b>5 131 738</b>
RAS2010017 Transfer of Knowledge on Advanced Technology employed in Nuclear Instrumentation for improving maintenance and utilization. (Footnote A/)	0	68 710	0	175 000	0	135 000	0	0	
Continuation									
Project Number and Title	2 012		2 013		2 014		2 015		TOTAL HARDCORE
	Hardcore	Footnote a/	Hardcore	Footnote a/	Hardcore	Footnote a/	Hardcore	Footnote a/	



Project Number and Title	2 012		2 013		2 014		2 015		TOTAL HARDCORE
	Hardcore	Footnote a/	Hardcore	Footnote a/	Hardcore	Footnote a/	Hardcore	Footnote a/	
RAS6053 Improving Image Based Radiation Therapy for Common Cancers in the RCA Region (RCA)	174 400	62 750	35 000	0	51 000	0	0	0	260 400
RAS8109 Supporting Radiation Processing of Polymeric Materials for Agricultural Applications and Environmental Remediation (RCA)	48 900	0	0	0	0	0	0	0	48 900
RAS6038 Strengthening Medical Physics through Education and Training (RCA)	135 000	0	0	0	0	0	0	0	135 000
Total Continuation	358 300	62 750	35 000	0	51 000	0	0	0	444 300
GRAND TOTAL	1 763 960	226 960	1 719 510	225 000	1 512 694	195 000	579 874	0	5 576 038

### Summary

	Total	New Projects	Continuation
2012-2013 Cycle	3 935 430	3 479 380	456 050
Hardcore	3 483 470	3 090 170	393 300
Footnote a/	451 960	389 210	62 750
2014-2015 Cycle	2 287 568	2 236 568	51 000
Hardcore	2 092 568	2 041 568	51 000
Footnote a/	195 000	195 000	0