

# **THE SECOND MEETING OF THE RCA 2024-2029 MTS DRAFTING WORKING GROUP**

**8-10 February 2021**

Presentation on RCA Regional  
Programme Framework for 2018-2023

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# Topics

- Basis and objective of the RCA Regional Programme Framework
- Past strategic documents
- The main steps of development of the RPF
- Outcomes of the survey
- Current status and future steps

# RCA Vision

The RCA shall be recognized as an effective partner in providing **nuclear technologies** that enhance **socio-economic wellbeing** and contribute to **sustainable development** in the region.

# RCA MISSION

The Missions of the RCA are to:

- Identify and implement nuclear technologies that address **regional priority needs**;
- Encourage sustainability of nuclear technology capacities in the RCA Government Parties (GPs) and **to ensure effective transfer** of those technologies and associated technical know-how to end-users;
- Coordinate cooperative research in applications of nuclear science and technology in support of agreed regional priority needs;

# RCA MISSION

- Promote the benefits of nuclear technologies to appropriate end-users and decision makers, and identify potential partners and funding mechanisms to support an expanded RCA programme; and,
- Develop regional networks for information and experience sharing, mutual assistance and resource mobilization.

# RCA Programme

- Technical Cooperation Projects (TCPs)
  - TCPs are designed by the GPs to meet their **development needs and priorities** and their design should have **socio-economic impact**. The TCPs provide the means for transfer of technology

(IAEA TC Projects should address an area where there is a national programme enjoying strong government commitment with evidence of significant financial support – Central Criterion)

- Coordinated Research Projects (CRPs)

# TC Programme Cycle

- Programme development (**identification of projects to be implemented** and project design)
- Programme implementation (IAEA and **national inputs**, NPCs, national work plans, national project teams)
- Programme monitoring ( NPC reports, LCC reports to NRMs)
- Evaluation (LCC reports on achievements, lessons learnt)
- Publication of achievements (by RCARO as success stories)

# Programme Development

Identification of projects to be implemented require

- A framework that helps RCA GPs to propose projects that are aligned with criteria for RCA TC projects
- A procedure that enables identification of projects based on
  - Criteria for RCA projects
  - Long term planning
  - Specific needs of RCA GPsto ensure optimum utilization of limited resources.

# Nature of RCA TC Projects

- Should conform to criteria defined in the GOR
- Should conform to RCA Strategic Directions defined in the MTS
- Should be in priority areas of the RCA GPs
- Should have a strong government commitment and financial support – TC Central Criterion
- Should be built on past achievements of RCA Projects
- Should promote regional cooperation and TCDC
- Should contribute to SDG

# **Objective of the Regional Programme Framework**

To assist RCA GPs to identify projects that meet the above requirements

# Summary

- RCA Vision and Mission
  - RCA Programme
    - Technical Cooperation (TC) Projects
      - TC programme cycle
        - Programme development
          - Identification of projects to be implemented
            - RFP is a framework to be used for identifying the projects to be implemented

# History (2006-2011)

- First RCA MTS for 2006-2011 - adopted in 2006 and contained
  - RCA Vision
  - Mission
  - Core Values
  - RCA Governance
  - Strategic Directions
  - Performance Indicators
- Prepared by a WG – NRs of AUL, IND, MAL and NZE

# History (2012-2017)

- Second RCA MTS for 2012-2017 (adopted in 2009)
  - Updated and expanded First MTS
  - Contained an Implementation Plan
  - Prepared by NRs of AUL, INS, NZE , PAK and support staff members of CPR, IND, JPN, MAL

# History (2012-2017)

- RCA Strategic Priorities for 2012-2017 (adopted in 2010)
  - Contained an analysis of past achievements
  - Was based on a survey conducted to identify priorities
  - Identified priorities for the future to be used as a guideline in preparing future RCA Programmes
  - Developed by Expert Groups in each Thematic Sector, Chaired by an RCA NR

# History (2018-2023)

- Third RCA MTS for 2018-2023 (adopted in 2015)
  - Strategic directions **and strategic priorities in each thematic sector**
  - Critical implementation enablers
  - Execution plan
  - Revised performance Indicators

# Development of the RPF – Main Steps

- Decision of the 49<sup>th</sup> RCA requesting RCA PAC to prepare the RPF (containing priorities for 2024-29) in consultation with the WG on MTS.
- Survey to identify priorities and needs of the RCA GPs.
- Compilation of outcomes and achievements of RCA projects implemented since 2007 (6 TC cycles)
- Formation of expert groups in each Thematic Area to recommend future priorities.

# Survey on Priorities and Needs

- Format – based on the previous surveys
- Conducted using Google Forms – more user friendly and easier to analyze responses
- Aimed at identifying **priorities of GPs**, current status and future needs
- 20 RCA GPs out of 22 responded
- The report on the survey is posted on the RCA Web-site at <http://rcaro.org/rpf/view/id/22712>

# Priority Levels

- Very high priority – high potential for socio-economic benefits (Weight = 5)
- High priority – good potential for socio-economic benefits (Weight =4)
- Medium priority – could provide socio-economic benefits (Weight =3)
- Low priority – of scientific interest only. Could be relevant for development programmes in the future (Weight =2)
- Very low priority – of scientific interest only. Would not contribute to development programmes even in the future. (Weight =1)

# Project Areas

- Agriculture (8 areas)
- Environment (4 areas)
- Human Health (6 areas)
- Industry (4 areas)
- Other (4 areas)
- Total of 26 areas based on previous surveys and past RCA Projects

# Results - Agriculture

Priority	Project Area	Weighted Average
1	Food Safety and Security	4.20
2	Plant Breeding	4.00
3	Pest Control	3.80
4	Land use - Soil fertility	3.75
4	Food Irradiation	3.75
6	Land Use - Soil Erosion and Contamination	3.65
7	Animal Health and Nutrition	3.10
8	Animal Reproduction	3.00

# Results - Environment

Priority	Project Area	Weighted Average
1	Water Resources Management	4.40
2	Air Pollution Monitoring	4.15
3	Marine and Coastal Environment	3.80
4	Dam Safety	2.85

# Results – Human Health

Priority	Project Area	Weighted Average
1	Radiation Oncology	4.85
2	Medical Physics	4.80
3	Nuclear Medicine	4.75
4	Radioimmunoassay (RIA)	3.45
5	Nutrition	3.15
6	Tissue grafting	2.45

# Results – Industry

Priority	Project Area	Weighted Average
1	Non-destructive Testing	4.20
2	Radiation Processing	3.60
3	Nuclear tracers and sealed sources	3.25
4	Nuclear Gauges and NCS	3.05

# Results – Other areas

Priority	Project Area	Weighted Average
1	Radiation Protection	4.30
2	Energy Planning	3.75
3	Research Reactor Utilization	3.55
4	Nuclear Instrumentation	3.15

# Results – New GPs

Priority	Project Area	Weighted Average
1	Radiation Protection	5.00
2	Medical Physics	4.75
3	Nuclear Medicine	4.5
4	Radiation Oncology	4.5
5	Air Pollution Monitoring	4.25
6	Nutrition	4.25
7	Animal Reproduction	4.00
8	Animal Health and Nutrition	4.00
9	Water Resources Management	4.00

# Review of Past RCA Projects

- Period of the review 2007-2020 (6 TC cycles)
- Total number of projects reviewed 64

Sector	Completed	Ongoing
Agriculture	9	4
Environment	12	3
Human Health	16	5
Industry	10	1
Radiation Protection	1	1
Research Reactors	1	0
Energy Planning	1	0
<b>Total</b>	<b>50</b>	<b>14</b>

# Review of Past RCA Projects

Contents ( for each project)

- Project Title and number
- Implementation Period
- Project Lead Country
- Budget (Euros)
- Objectives
- Participating GPs
- Regional Activities
- Achievements (completed projects)
- Comments

# Review of Past RCA Projects

## Sources of information

- IAEA TCPRIDE
- LCC reports submitted to NRMs

The report on review of past projects is posted on the RCA Web-site at

<http://rcaro.org/projectssummary/view/id/2268>

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# Expert Groups

- Chairs
  - Agriculture – NR of Vietnam
  - Environment – NR of the Philippines
  - Human Health – NR of Japan
  - Industry – NR of Malaysia
  - Other areas – NR of Mongolia
- PAC Members – 8
- Regional Experts – 10
- IAEA technical officers - 10
- Each group met separately (virtual meetings)

# Contents of the RPF

- General Introduction
- For each Thematic Area
  - Introduction to the Thematic Sector
  - For each priority area
    - Introduction
    - Outcomes of the survey
    - Past RCA Projects
    - Future Directions
    - Opportunities for TCDC
    - Links to SDGs
  - Possible additional areas (based on the survey)
- Recommendations
- Summary reports of the survey and past RCA Projects (Annex)
- Composition of the Expert Groups (Annex)

# Current Status

- The expert groups were provided the reports on the outcomes of the survey and the details of past RCA projects
- The Expert Group Meetings of all 5 areas were held.
- The first draft of the RPF has been prepared
- The draft is being further refined through consultations within expert groups

# Future Steps

- Finalization of the first draft – 12<sup>th</sup> February
- Circulation to NRs and WG on MTS for comments – 15<sup>th</sup> February
- Revision based on the feedback received - 15<sup>th</sup> to 20<sup>th</sup> March
- Submission of the Background Paper for the 43<sup>rd</sup> NRM – 20<sup>th</sup> March
- Approval of the NRM – First week of April

**Thank you for your attention**