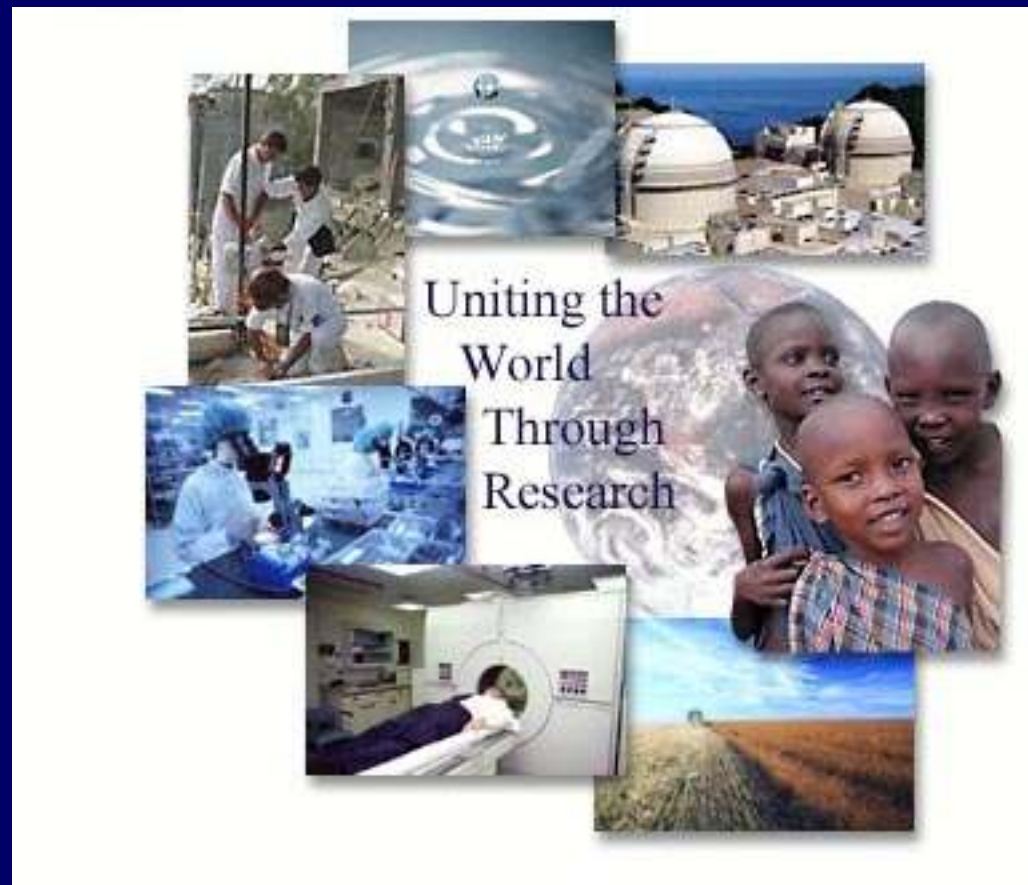


The IAEA's Coordinated Research Activities (CRA)



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The IAEA's Coordinated Research Activities (CRA)

Article III of the IAEA Statute

authorises the IAEA to encourage and assist research on, and development and practical application of, atomic energy for peaceful purposes throughout the world and to foster the exchange of scientific and technical information, as well as the exchange of scientists in the field of peaceful uses of atomic energy.

Technical Cooperation Projects (TCP)

Coordinated Research Activities (CRA)



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History and Concept

United Research Towards Common Goals

1958, Initiation

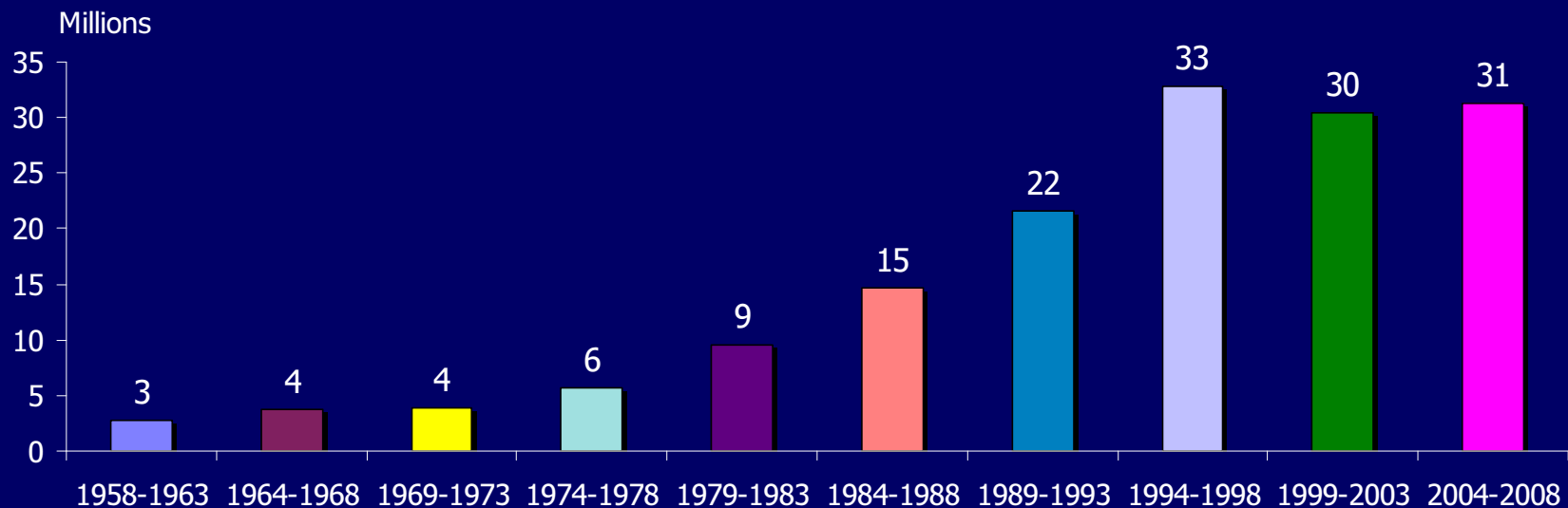
1959, Funding Research Contracts

1960, the first Coordinated Research Project (CRP)



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156 213 000 Euros:
Awarded to the Coordinated Research Activities since 1958

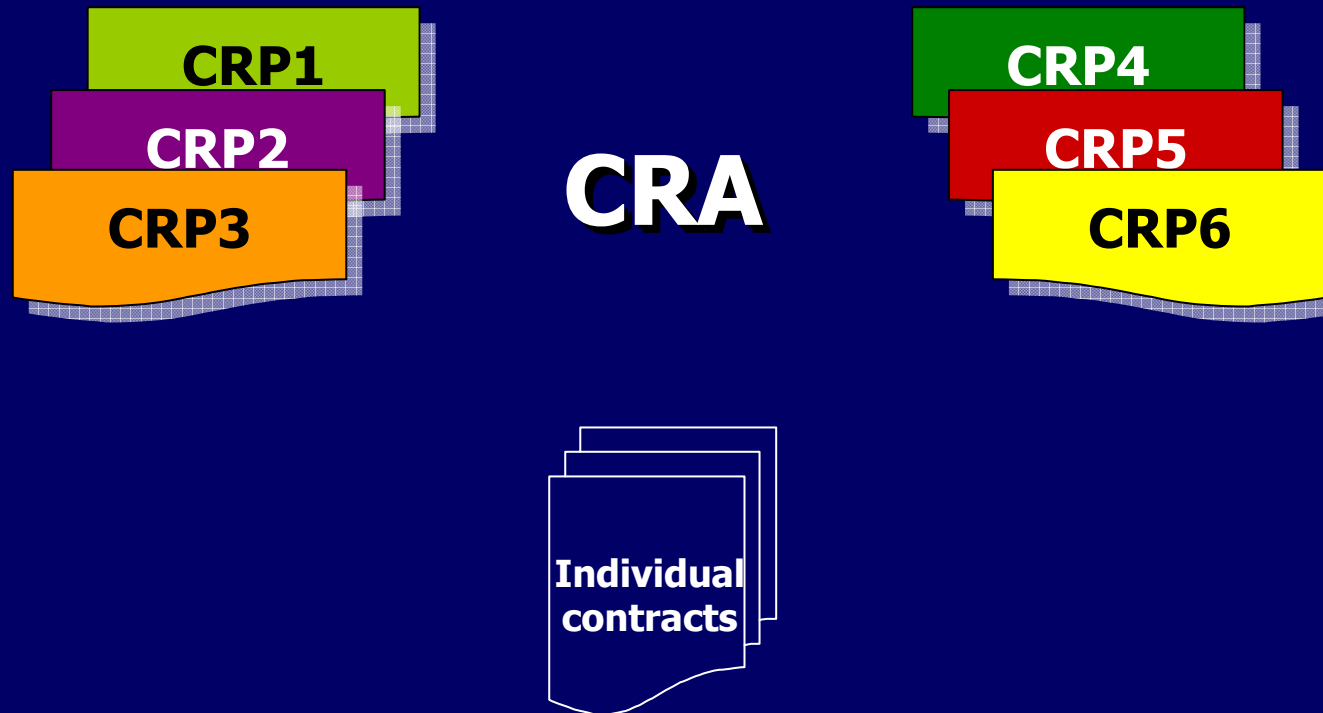


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The IAEA's Coordinated Research Activities (CRA)

Structure



The IAEA's Coordinated Research Activities (CRA)

Objectives

- ⇒ Contribution to the objectives of the Agency Projects
- ⇒ Provides opportunities to scientists in developing and developed countries to work together to solve a problem of common interest.
- ⇒ To assist developing countries in building their research capability and technology use confidence



The IAEA's Coordinated Research Activities (CRA)

Objectives

- ⇒ Scientists in developed countries are in direct contact with researchers in the field.
- ⇒ Encourage the acquisition and promote the dissemination of knowledge and new technologies.



The IAEA's Coordinated Research Activities (CRA)

CRP Topics

Research Priorities:

- ⇒ Problems of significant regional or global concern
- ⇒ High potential for results transfer
- ⇒ Cannot be produced at optimal levels by individual countries



The IAEA's Coordinated Research Activities (CRA)

CRP Topics

Research Needs:

- Project Officer in support of regular programme activity
- Consultant meetings, advisory bodies, Int. conference addressing Member States' needs
- Research institute requests
- Existing CRPs requiring further research foreseen
- A Technical Cooperation Project



The IAEA's Coordinated Research Activities (CRA)

Scope

- Isotopes and radiation applications in agriculture, human Health, industry, hydrology and environment
- Nuclear Energy
- Nuclear Safety
- Safeguard
- Waste technology
- Nuclear Security
- Economic studies
- Nuclear Knowledge Management



The IAEA's Coordinated Research Activities (CRA)

CRP Formulation

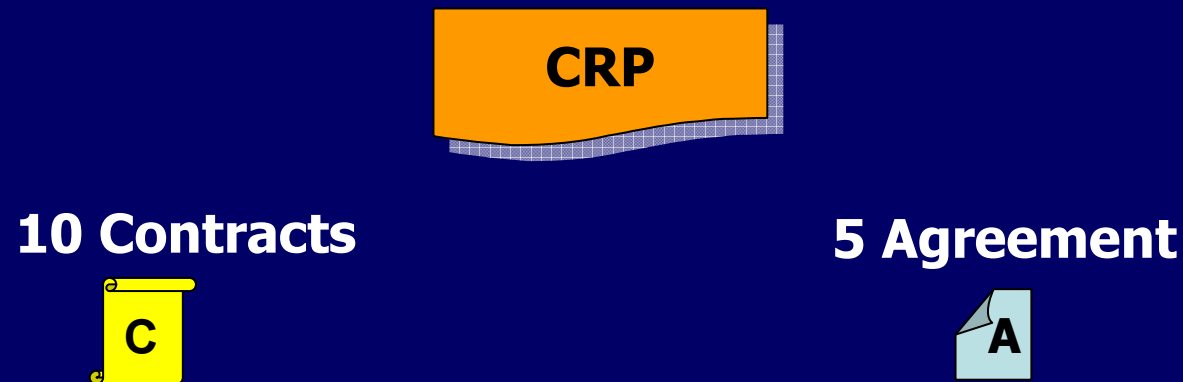
1. CRP approved by the IAEA
2. IAEA advertises for CRP participants
3. Contract and Agreement proposals evaluated by the IAEA based on relevance to CRP goals
4. Contracts and agreements awarded



The IAEA's Coordinated Research Activities (CRA)

CRP Structure

- ↳ Research work conducted by scientists in Member States through Contracts or Agreements



The IAEA's Coordinated Research Activities (CRA)

CRP Implementation; contracts and agreements

- Contracts are awarded for 1 year; they may be renewed for up to 3 or 5 years depending on the lifetime of the CRP
- Agreements are awarded for the whole foreseen duration of the CRP
- At the end of 2008 there were about 1900 active Contracts and Agreements; 125 CRPs



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CRP Implementation

- CRPs last between 3 and 5 years (often more with nuclear medicine projects)
- Each participating Institution nominates a Chief Scientific Investigator (CSI)
- Research Coordination Meetings (RCMs) every 18 months with CSIs to discuss progress and work plan



The IAEA's Coordinated Research Activities (CRA)

CRP Implementation

- Reports and publications on achievements of CRPs
- Results available to Member States and the international scientific community through dissemination in the IAEA scientific and technical publications and in other relevant international or national journals



The IAEA's Coordinated Research Activities (CRA)

Doctoral CRP

- PhD students in developing countries are paired with professors in developed country research institutions. The research contracts fund the student towards his/her PhD over a three year period

E2.40.15

Quality Assurance of the Physical Aspects of Advanced
Technology in Radiotherapy



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The IAEA's Coordinated Research Activities (CRA)

2008 Figures

- The IAEA awarded €6.6 million for its Coordinated Research Activities
- Average award in 2008 was about €5 900
- Some 77 RCMs held in support of the CRPs at a cost of €1.7 million
- About 74% of the CRPs concentrated on topics in nuclear sciences and applications



The IAEA's Coordinated Research Activities (CRA)

Synergy between the CRAs and TCP

- ⇒ CRPs leading to TC Projects
- ⇒ TC Projects leading to participation in Coordinated Research Activities
- ⇒ CRPs and TC Projects carried out simultaneously



The IAEA's Coordinated Research Activities (CRA)

Synergy between the CRAs and TCP

TC Project (ARL5050) Strengthening Laboratory Capacity to Assess the Implementation of Good Agricultural Practices in the Production of Fruit and Vegetables in Latin America

CRP (D5.20.35) Integrated analytical approaches to assess indicators of the effectiveness of pesticide management practices at a catchments scale



The IAEA's Coordinated Research Activities (CRA)

Synergy between the CRAs and TCP

CRP on cellular biology & biotechnology induced mutation techniques for creation of new useful banana genotypes resulted in **two TC projects** in Indonesia on mutation breeding of horticultural crops

CRP on mutational analysis of root characters in annual food plants related to plant performance resulted in a **Peruvian TC project** transferring a high yielding barely variety



The IAEA's Coordinated Research Activities (CRA)

Information on new CRPs is available on the
Coordinated Research Activities website:

<http://cra.iaea.org>



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[Information on Coordinated Research Projects \(CRPs\)
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CRA Application Forms:

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