

# **RCA IN THE 21ST CENTURY: Enterprising, Meeting Challenges, Capturing Opportunities**



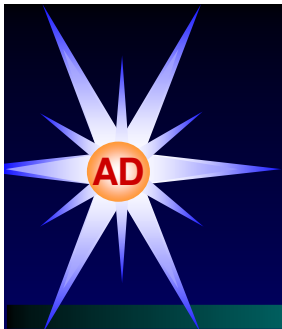
## **WORKING PAPER**

by

**A Djaloeis**

Presented at the “**31<sup>st</sup> Meeting of the RCA National  
Representatives at the 46<sup>th</sup> GC of the IAEA**”,

Vienna, 18th September 2002



# SUSTAINABILITY OF MANKIND ON THE PLANET EARTH?



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## Nations/ Countries of the World

### Basic Features:

#### © Nature (God Given)

- ☑ Location
- ☑ Geography
- ☑ **Natural Resources**



#### © Society (Anthropogenic)

- ☑ Culture
- ☑ **Science & Technology**
- ☑ **Economic Development**

#### © Nature-Society

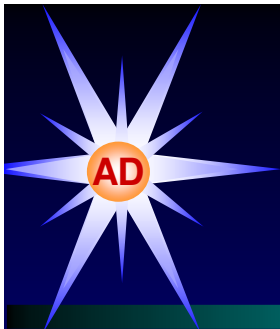
- ✓ **Population**

## Major Threats / Challenges to Nations and Planet Earth

- ☒ Disproportionate Increase of **Population**
- ☒ Degradation (intolerable!) of **Environment**
- ☒ Depletion (rapid!) of **Natural Resources**

## QUESTIONS

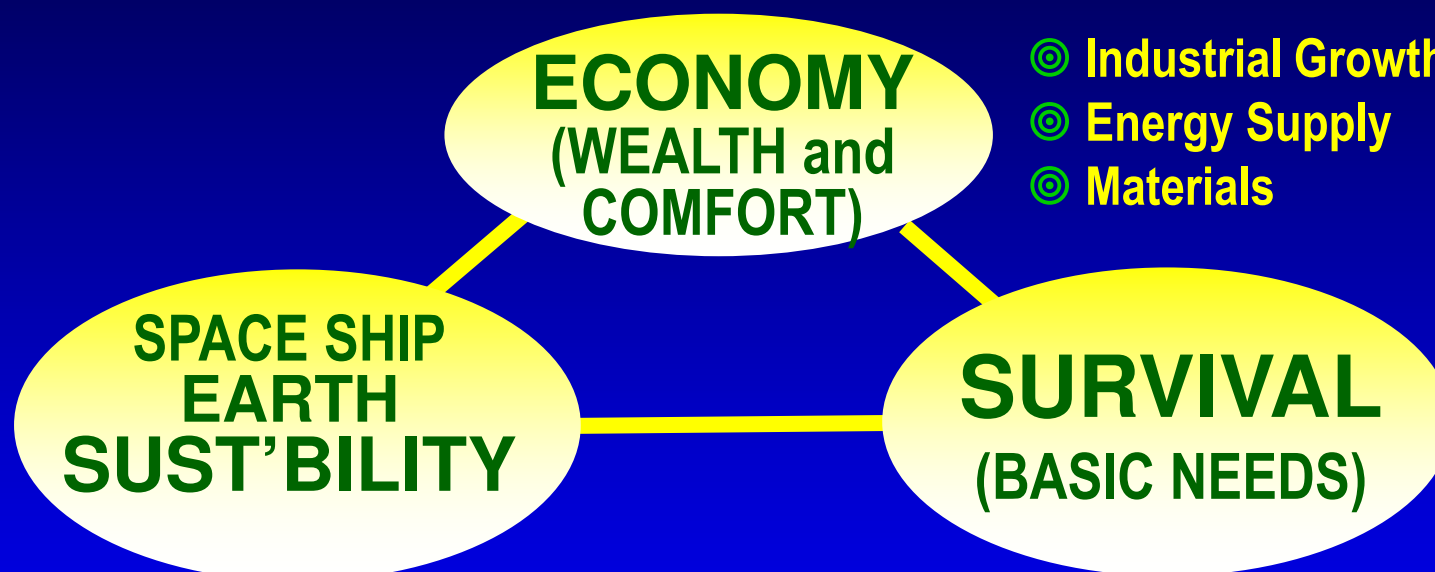
- © Towards Sustainability of Mankind on the Planet Earth ?
- © WSSD: World Summit on Sustainable Development
- © Can Nuclear Techniques significantly contribute?



# TOWARDS SUSTAINABLE WORLD WELFARE?



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⊙ Environment : Air, Water, Soil

⊙ Nat. Res. : Exploration, Exploitation,  
Conservation

⊙ Ecology : Harmony - Mankind, Fauna, Flora

⊙ Industrial Growth

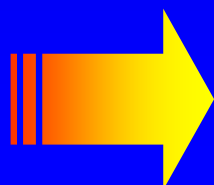
⊙ Energy Supply

⊙ Materials

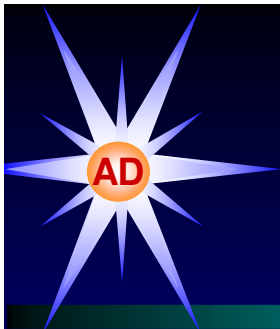
⊙ Water

⊙ Food

⊙ Health



Can Nuclear Techniques Provide Cost Effective  
Contributions with Significant Impact?



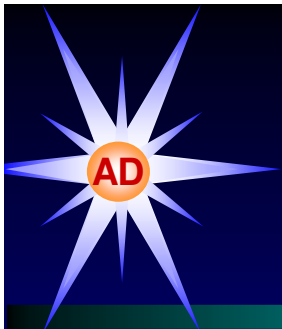
# NATIONAL NS&T CAPACITY

(VIEW FROM “DEVELOPING” MEMBER STATES)



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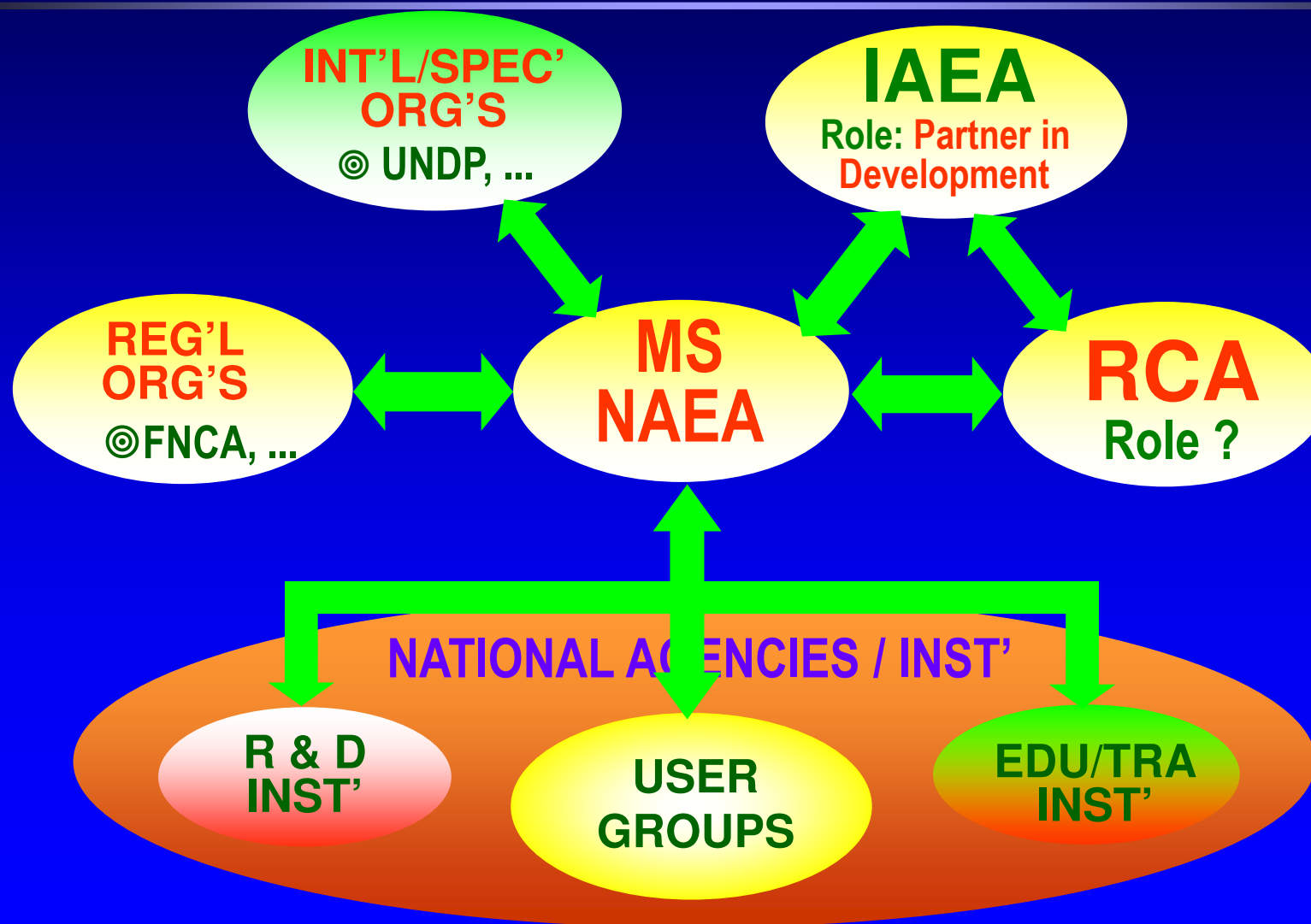


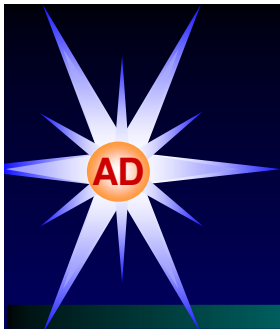


# NAEA (National Atomic/Nuclear Energy Agency) & ITS ENVIRONMENT



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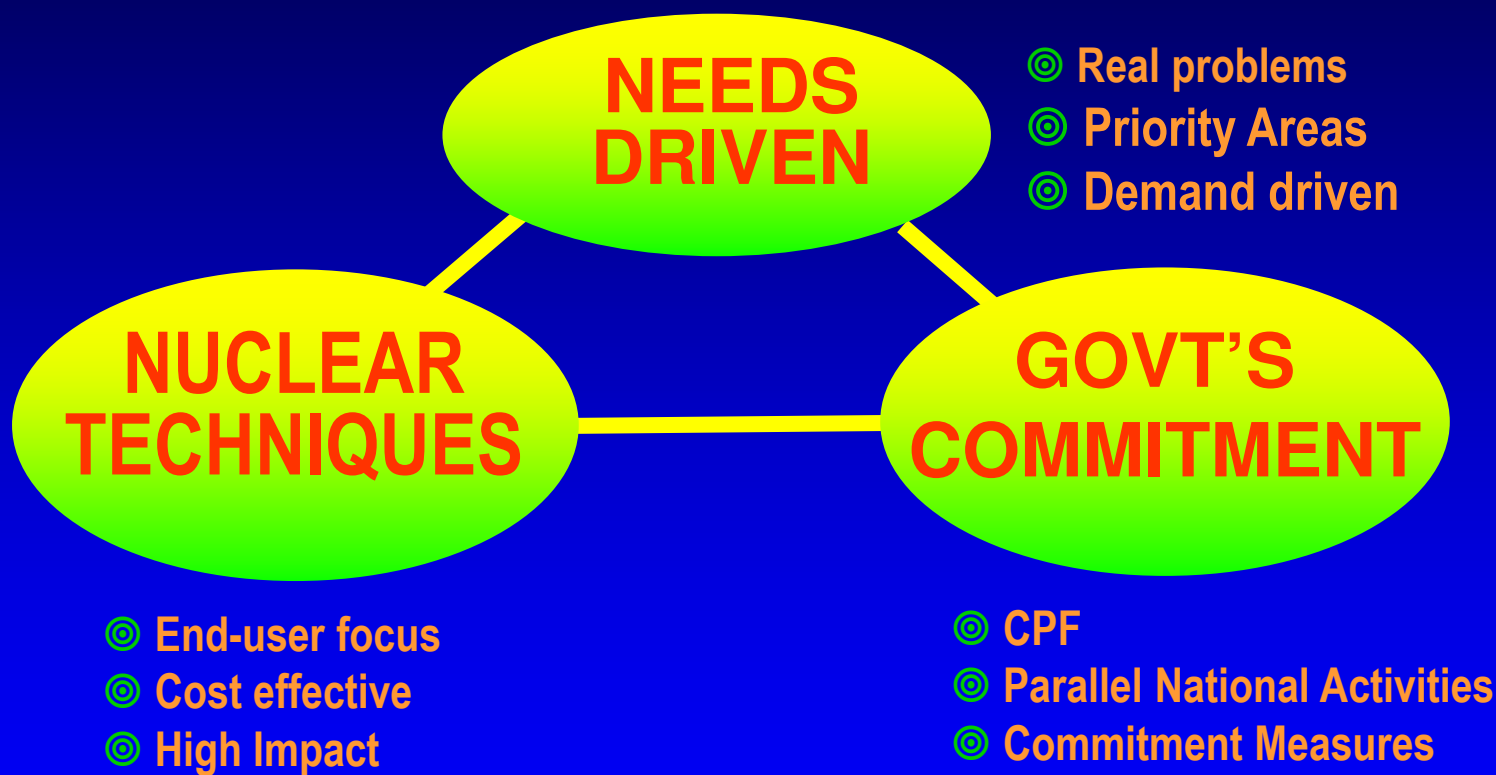


## IAEA - TC STRATEGY

# “PARTNER IN DEVELOPMENT”

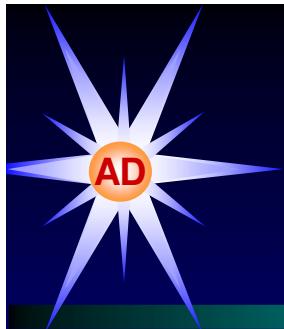


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## “IAEA - CENTRAL CRITERIA (!?)”

Response of MS?, ... of RCA?



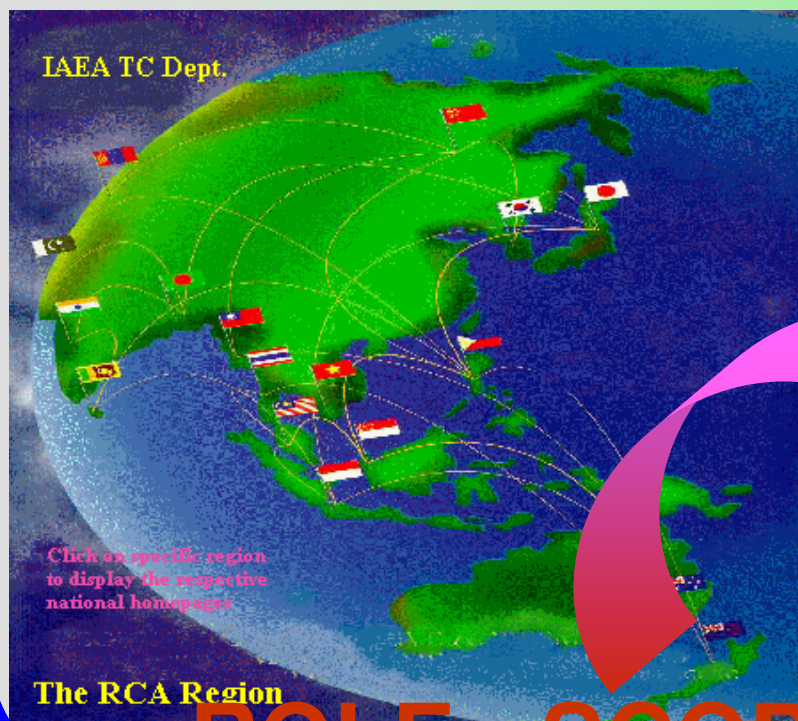
# RCA

## in the Asia-Pacific Region



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17 RCA Member States



### The AGREEMENT:

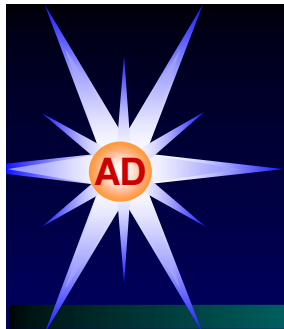
Regional Co-operation in Asia-Pacific under the auspices of the IAEA for coordinated joint activities in

- © Research
- © Development
- © Training

in Nuclear Science and Technology.

## ROLE - SCOPE



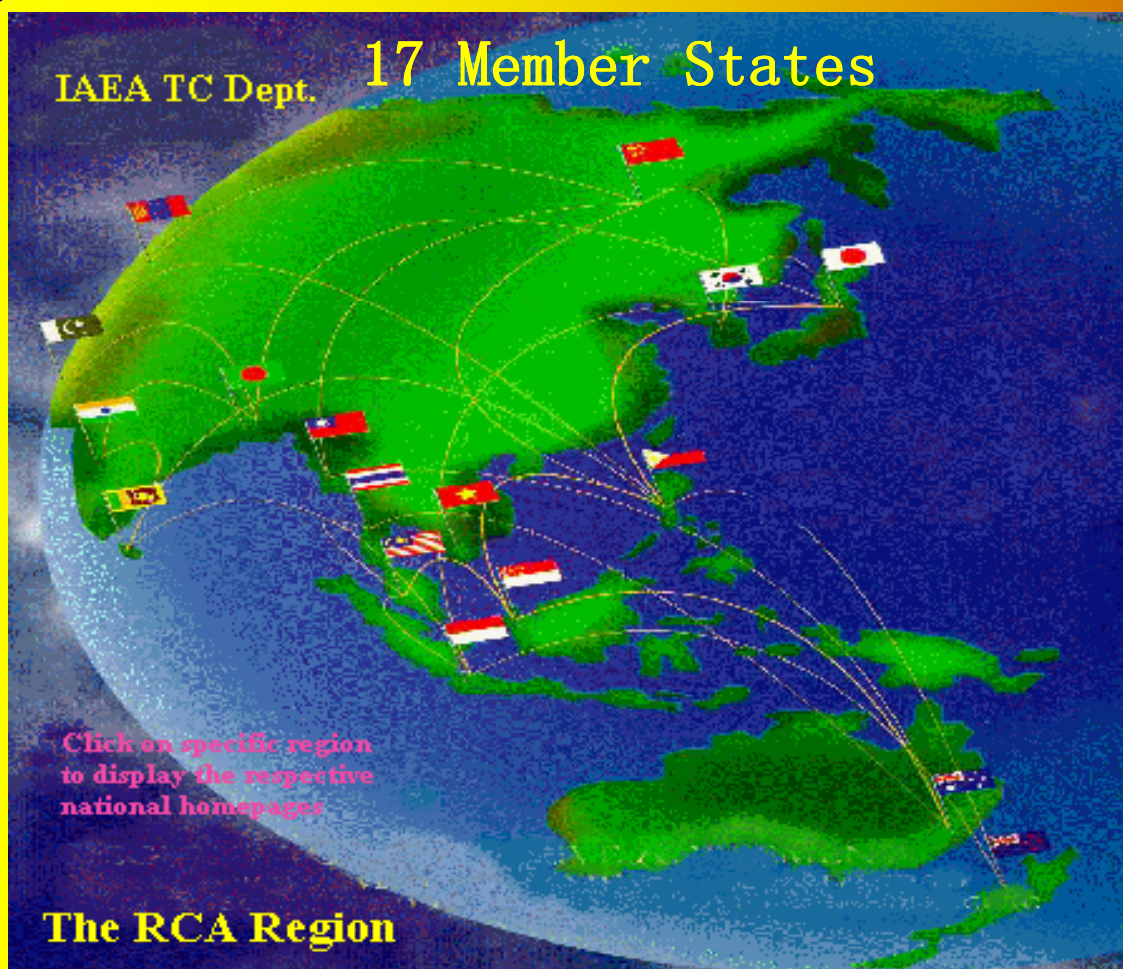


# RCA

## in the Asia-Pacific Region



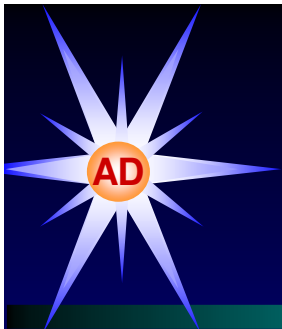
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30 years of  
RCA  
1972-2002







# SILVER JUBILEE 1997: RCA VISION



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## VISION

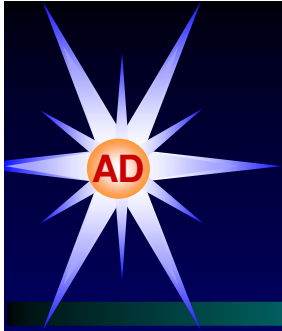
The RCA shall strive to become a respected Regional Resource Community in Nuclear Science and Technology, competent and competitive in providing high impact solutions to development problems of the Region and the Member States

## THEMATIC AREAS

- ◎ Security and Safety of Food & Nutrient
- ◎ Health Care
- ◎ Industrial Development
- ◎ Energy
- ◎ Environmental Care and Protection

## MILESTONES

- ◎ Reorganization into Thematic Program Areas
- ◎ Establishment of RRU's
- ◎ Development and Documentation of TCDC
- ◎ Establishment of RCA Program Management Scheme
- ◎ Establishment of Regional Management Unit/Office



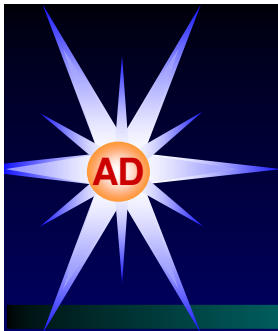
# RCA VISION 1997 - 2002

## Progress Assessment



- |  |                     |
|--|---------------------|
| ⊙ Agreement                              | : No change (R-D-T) |
| ⊙ Vision                                 | : No change         |
| ⊙ Reorganization into Thematic Program   | : Slow              |
|  |                     |
| ⊙ Growth of RRUs                         | : Satisfactory?     |
| ⊙ Growth of TCDC                         | : Satisfactory?     |
| ⊙ RCA Program Management Scheme          | : In place          |
|  |                     |
| ⊙ Regional Management Unit/Office        | : In place          |
| ⊙ Diversification of Funding Sources     | : ?                 |
| ⊙ Outreach to new customers or end-users | : ?                 |

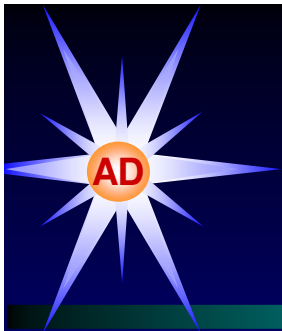




# RCA - 21<sup>st</sup> Century

## STRATEGIC POINTS TO CONSIDER





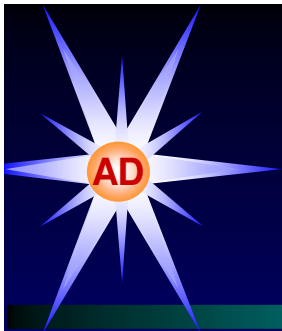
# RCA in the 21<sup>st</sup> Century

## POINTS TO CONSIDER



- |  |                                |
|--|--------------------------------|
| ⊙ Agreement                            | : Revise                       |
| ⊙ Role/Function, Mission, Vision       | : RRC, OK?                     |
| ⊙ Reorganization into Thematic Program | : Revise                       |
|  |                                |
| ⊙ Customer / Partner Outreach          | : Customer Satisfaction        |
| ⊙ MS Government's Commitment           | : Strengthen                   |
| ⊙ RCA Program Management Scheme        | : Advisory Groups, Reg. Office |
|  |                                |
| ⊙ Scope of Programs                    | : Priority Setting             |
| ⊙ Scope of Activities                  | : MS Needs, Customer Demands?  |
| ⊙ Scope of Resources                   | : Diversify                    |





# RCA in the 21<sup>st</sup> Century

## ROLE / FUNCTIONS?



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### ◎ FACILITATE

- ✓ Exchange of information and personnel
- ✓ Training and Education
- ✓ Meetings, Seminars, ...

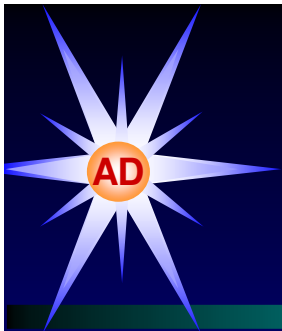
### ◎ PROVIDE

- ✓ Information Packages (incl. Recommendation, etc.)
- ✓ Technology Packages
- ✓ Expert Services

### ◎ PERFORM

- ✓ Studies, Analysis, Surveys, ...
- ✓ R&D
- ✓ Rules and Regulations





# RCA in the 21<sup>st</sup> Century MISSION?



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ACCOMPLISH

## ◎ FAVOURABLE NST POSITION (in society)

- ✓ Commonly accepted and appreciated in the region
- ✓ Maturity of Safety Culture
- ✓ Naturally used by end-users



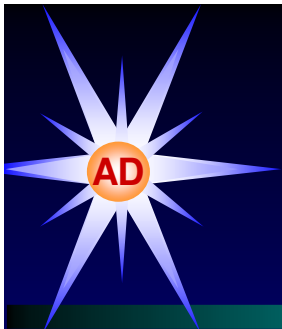
## ◎ MATURE NST CAPACITY (across the region)

- ✓ Maturity of RRU's
- ✓ Maturity of national and regional rules and regulations
- ✓ Maturity of Nuclear Safety, Security and Safeguards

## ◎ SIGNIFICANT NST IMPACT (in society)

- |                         |   |
|-------------------------|---|
| ✓ Basics Needs          | : Water, Food, Health                     |
| ✓ Economic Development  | : Industry, Energy, Materials             |
| ✓ Planet Sustainability | : Environment, Ecology, Natural resources |





# RCA in the 21<sup>st</sup> Century

## BASIC STRATEGY?



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### ◎ ENTERPRISING ORGANIZATION

- ✓ **Commodity** : Nuclear Techniques and Services
- ✓ **Customers** : MS Groups, IAEA, ... (e.g. Reg/Int'l Orgs, Specialized Org's, ...)
- ✓ **Approach** : Problem Solving Orientation - Cost-effective, High Impact

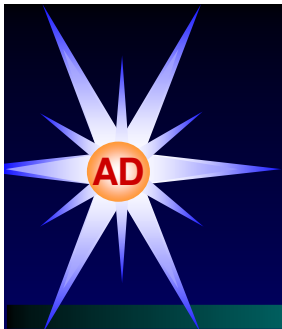
### ◎ CORPORATION

- ✓ **Company** : RCA as Regional Resource Community
- ✓ **Facility and Human Resources** : RRUs
- ✓ **Funding Sources** : Stakeholders-Customers  
(IAEA, MS, End-Users)



### ◎ MANAGEMENT

- ✓ **Board of Commissioners** : National Coordinators
- ✓ **Board of Executives** : Lead Country Coords, Nat. Proj. Coords, Reg. Office
- ✓ **IAEA Secretarial Support** : RCA Office



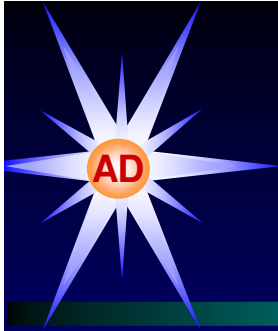
# RCA in the 21<sup>st</sup> Century

## THEMATIC PROGRAM AREAS?



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THEMATIC PROGRAM AREA VS ACTIVITY FOCUS	Problem Solving	Capacity Building	R & D	Techno' Demo	Image Promotion
1. <b>Basic Human Needs</b> (Water Resources, Food, Health)					
2. <b>Economic Development Needs</b> (Industrial Growth, Specialized Materials, Natural Resources)					
3. <b>Environmental Care</b> (Pollution Management, Waste Management, ...)					
4. <b>Strengthening of Infrastructure</b> (Radiation Protection, Legislation, Safety, Safeguards, Licensing and Control)					
5. <b>Nuclear Power</b> (Public Information, Reactor Technology, Nuclear Fuel Cycle)					



# RCA - 21<sup>st</sup> Century

## WORKING PAPER - TABLE OF CONTENT



### ◎ INTRODUCTION

- ✓ Background, TOR, Purpose of Document

### ◎ QUEST TOWARDS SUST'BLE DEVEL' IN THE 21ST CENTURY

- ✓ Major World Problems and Challenges
- ✓ Role of Nuclear techniques, IAEA and Regional Co-operation

### ◎ RCA - TOWARDS BECOMING AN ENTERPRISING ORGANIZATION

- ✓ Historical Perspective, Current Status, New Concept

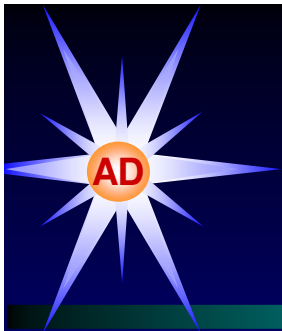
### ◎ ENVIRONMENT OF THE RCA

- ✓ Atomic/Nuclear Based Organizations
- ✓ General and Specific Development Organizations

### ◎ RCA IN OPERATION

- ✓ Basic Principles, Scope of Activities, Scope of Resources

### ◎ CLOSING REMARKS AND SUMMARY OF RECOM'S



# CONCLUDING REMARKS



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## © RCA in the 21st century should have:

- ✓ Clearer ROLE/FUNCTIONS
- ✓ Clearer MISSION
- ✓ Shared VISION
- ✓ Programs with sharper focus
- ✓ More active MS participation
- ✓ Diversified funding sources

## © MS in the 21st century should:

- ✓ Demonstrate stronger commitment
- ✓ Participate more actively
- ✓ Develop country/field specific RRU's

## © Suggested Plan of Actions

- ✓ MS Response / Input : by 18 November 2002
- ✓ Revised Working Paper : by 31st December 2002
- ✓ Adoption of Document : at next RCA Nat'l Rep' Meeting