



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



WORKING PAPER

by

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SUSTAINABILITY OF MANKIND ON THE PLANET EARTH?



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

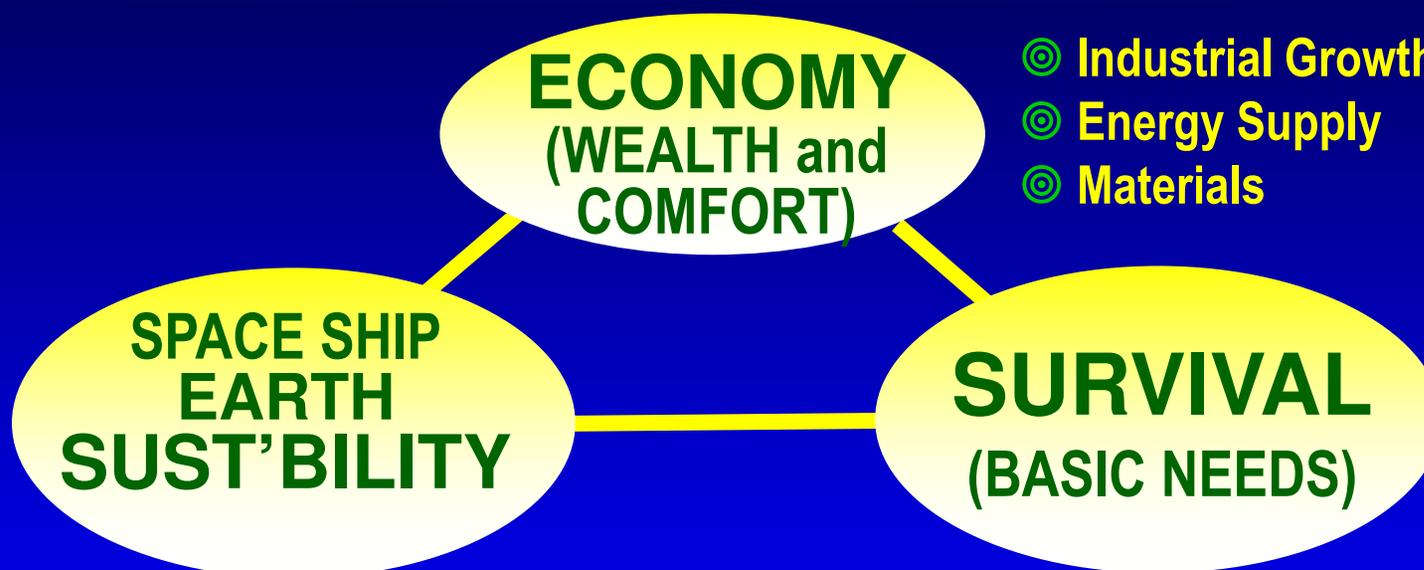
- ☉ Towards Sustainability of Mankind on the Planet Earth ?
- ☉ WSSD: World Summit on Sustainable Development
- ☉ Can Nuclear Techniques significantly contribute?



TOWARDS SUSTAINABLE WORLD WELFARE?

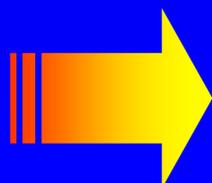


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- ⊙ Environment : Air, Water, Soil
- ⊙ Nat. Res. : Exploration, Exploitation, Conservation
- ⊙ Ecology : Harmony - Mankind, Fauna, Flora

- ⊙ Water
- ⊙ Food
- ⊙ Health



Can Nuclear Techniques Provide Cost Effective Contributions with Significant Impact?



NATIONAL NS&T CAPACITY

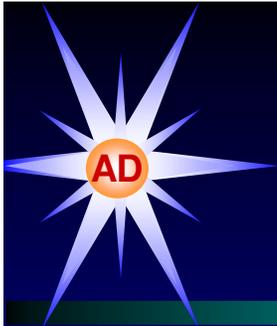
(VIEW FROM “DEVELOPING” MEMBER STATES)



BATAN



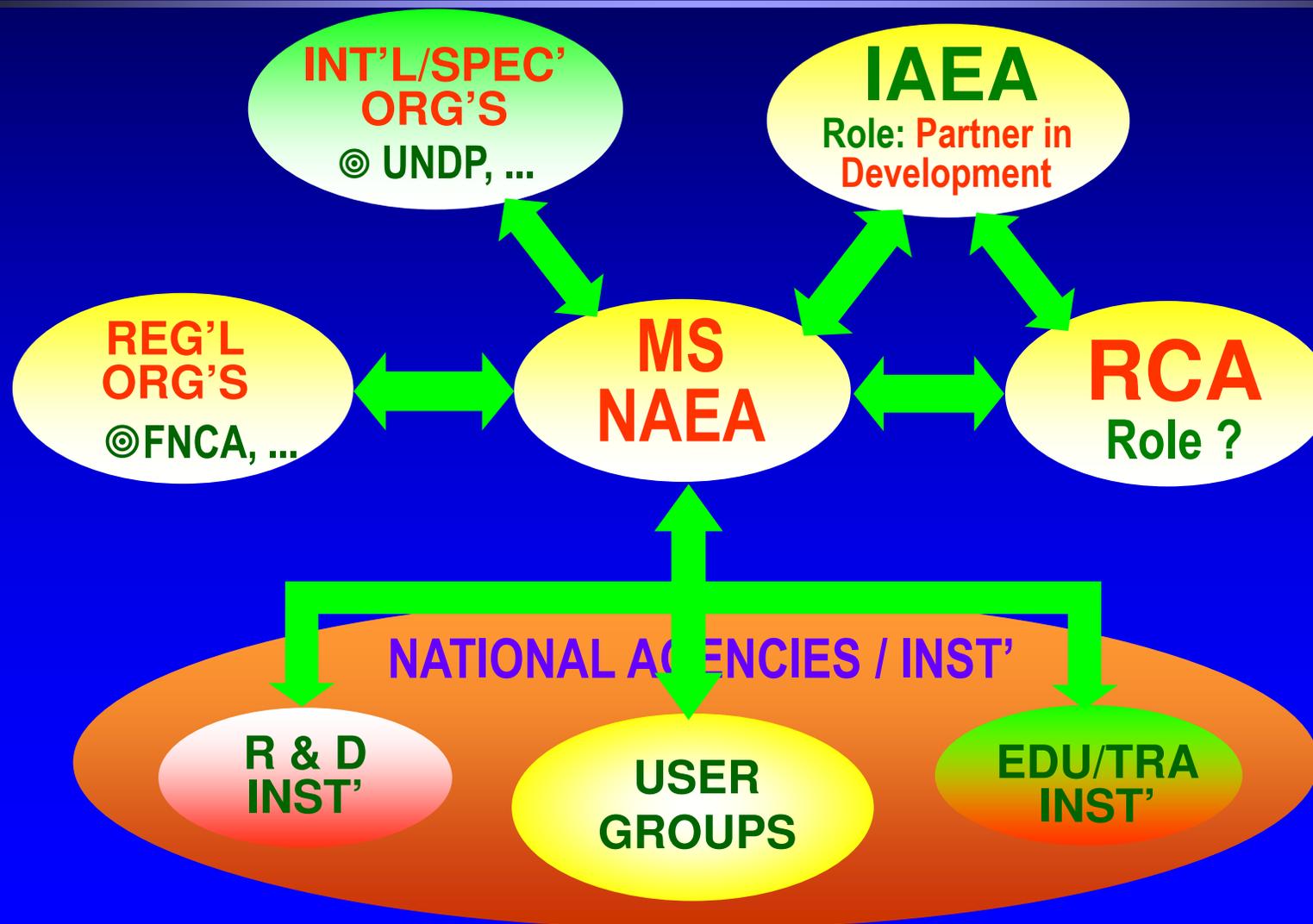
- ◎ Capacity Building
 - ◎ Capacity Employment
 - ◎ Marketing / Promotion
- (“Public Appreciation - Support”)



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



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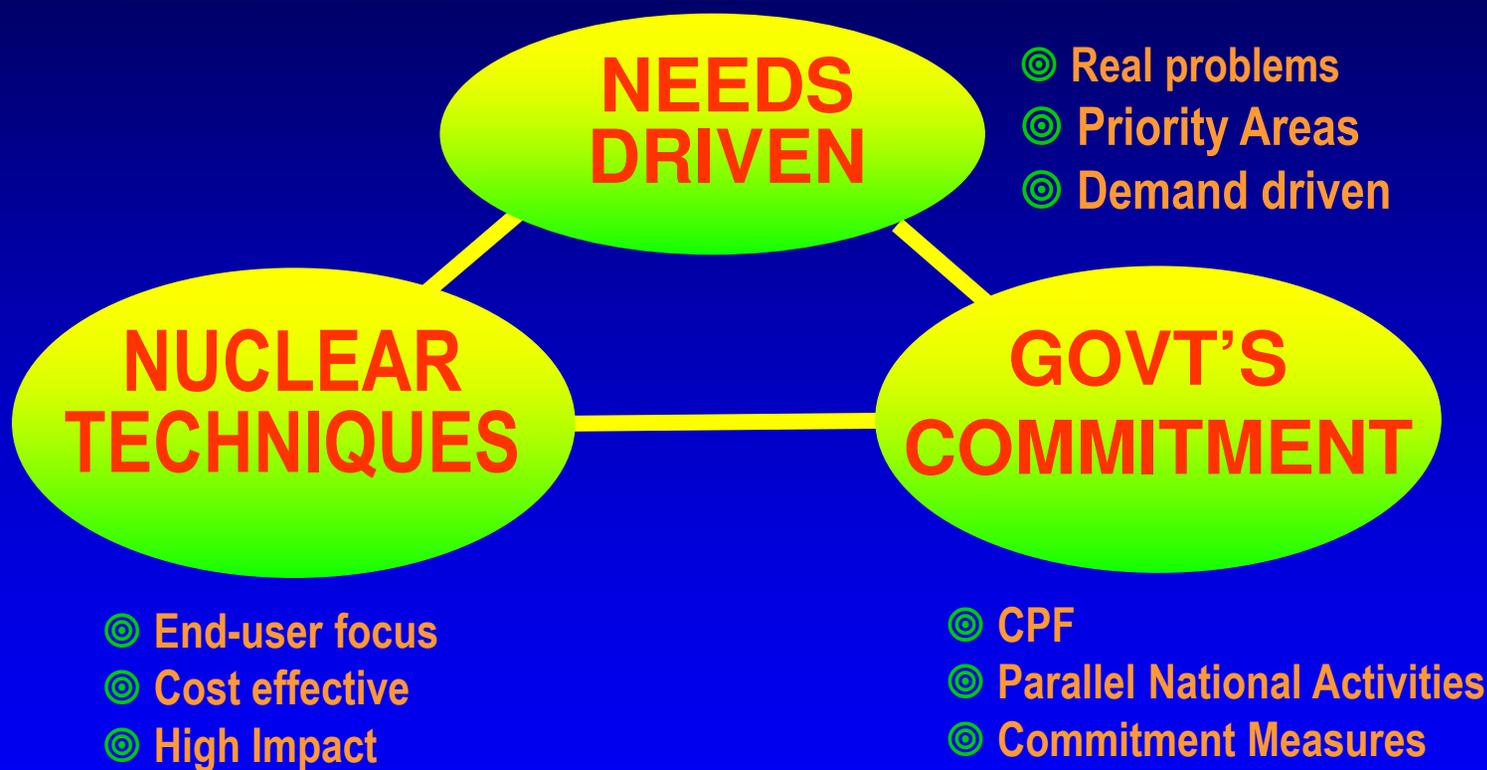


IAEA - TC STRATEGY

“PARTNER IN DEVELOPMENT”



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“IAEA - CENTRAL CRITERIA (!?)”

Response of MS?, ... of RCA?



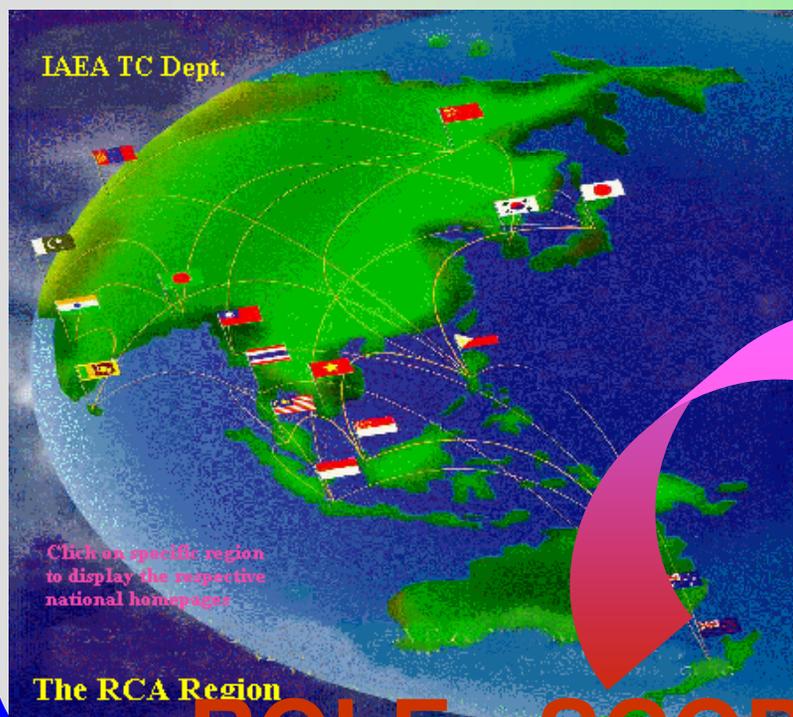
RCA

in the Asia-Pacific Region



BATAN

17 RCA Member States



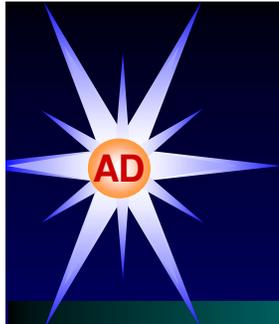
The AGREEMENT:

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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IAEA TC Dept. 17 Member States

Click on specific region to display the respective national homepage

The RCA Region

30 years of
RCA
1972-2002





SILVER JUBILEE 1997: RCA VISION



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 - 21st Century

STRATEGIC POINTS TO CONSIDER



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RCA in the 21st 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 21st Century

ROLE / FUNCTIONS?



③ FACILITATE

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

③ PROVIDE

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

③ PERFORM

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





RCA in the 21st Century MISSION?



**A
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◎ **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 21st Century BASIC STRATEGY?



◎ 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

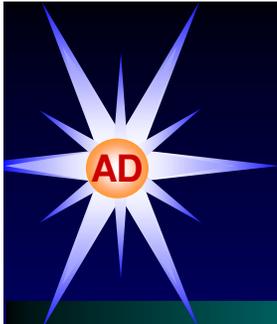
◎ CORPORATION

- ✓ **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 21st 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. Basic Human Needs (Water Resources, Food, Health)					
2. Economic Development Needs (Industrial Growth, Specialized Materials, Natural Resources)					
3. Environmental Care (Pollution Management, Waste Management, ...)					
4. Strengthening of Infrastructure (Radiation Protection, Legislation, Safety, Safeguards, Licensing and Control)					
5. Nuclear Power (Public Information, Reactor Technology, Nuclear Fuel Cycle)					



RCA - 21st 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



◎ 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