



## TECHNICAL ASSISTANCE THROUGH IAEA

In 1964, sixty-two countries benefited from the Agency's technical assistance programme, which involved an actual expenditure of more than 3 million dollars (including some payments against obligations incurred in previous years). This represents an increase of 29 percent over the amount of \$ 2,423,000. spent in 1963.

In addition to funds provided from the Agency's own resources and from the United Nations Expanded Programme of Technical Assistance, many gifts in kind - equipment, fellowships, and expert services - were supplied through the Agency, to a value of \$ 708,000.

### FIELDS OF ASSISTANCE

The following were some of the principal technical assistance activities in 1964:

Utilization of research reactors, in experimental physics, radiation chemistry and production of radioisotopes.

Improvement of rice cultivation, by means of radioisotopes studies on the efficiency of nitrate and phosphate fertilizers, and by the breeding of new varieties of rice-plants through radiation.

Radioisotope techniques for determining humidity in the soil.

Control of insect pests by means of radiation.

Assessment of surface and subterranean water resources by means of radioisotopes.

Physics problems involved in the use of radiation and radioisotopes for the diagnosis and treatment of disease.

Radiation protection measures, and the management and disposal of nuclear materials.

Prospecting for nuclear raw materials; metallurgy and processing of nuclear materials.



# THE INTERNATIONAL CO-OPERATION YEAR

| RESOURCES AVAILABLE FOR TECHNICAL ASSISTANCE ACTIVITIES<br>OF THE AGENCY (1958 - 1964)<br>(in thousands of dollars) |                 |                      |                    |      |
|---|-----------------|----------------------|--------------------|------|
|   | AGENCY MONETARY |                      | Total              |      |
| 1958  | 124             | AGENCY IN KIND 390   | 514                |      |
| 1959  | EPTA 304        | AGENCY MONETARY 875  | AGENCY IN KIND 531 | 1710 |
| 1960  | EPTA 639        | AGENCY MONETARY 1008 | AGENCY IN KIND 813 | 2460 |
| 1961  | EPTA 787        | AGENCY MONETARY 981  | AGENCY IN KIND 845 | 2613 |
| 1962  | EPTA 843        | AGENCY MONETARY 1146 | AGENCY IN KIND 698 | 2687 |
| 1963  | EPTA 1049       | AGENCY MONETARY 1230 | AGENCY IN KIND 554 | 2833 |
| 1964  | EPTA 1050       | AGENCY MONETARY 1115 | AGENCY IN KIND 708 | 2873 |

| FIELDS OF ACTIVITY OF TECHNICAL ASSISTANCE: 1964                 |                   |   |                                     |
|--|-------------------|---|-------------------------------------|
| Field  | Number of experts | Value of equipment<br>(in thousands of dollars) | Number of fellowships <sup>c)</sup> |
| General atomic energy development                                | 2                 | 18.2  | 9                                   |
| Nuclear science <sup>a)</sup>                                    | 33                | 177.3   | 135                                 |
| P prospecting, mining and precessing<br>of nuclear raw materials | 12                | 58.2  | 22                                  |
| Nuclear technology <sup>b)</sup>                                 | 34                | 51.7  | 129                                 |
| Application of isotopes and radiation                            | 79                | 385.5   | 204                                 |
| Health, safety and waste disposal                                | 18                | 18.9  | 34                                  |
| TOTAL  | 178               | 709.8   | 533                                 |

a) "Nuclear science" includes both physics and chemistry.

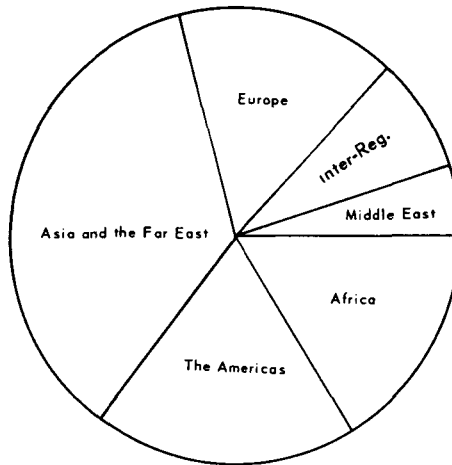
b) "Nuclear technology" includes fuel fabrication and processing, reactor technology and nuclear electronics.

c) These figures include 180 participants in 11 regional and inter-regional training courses and 12 holders of research grants.



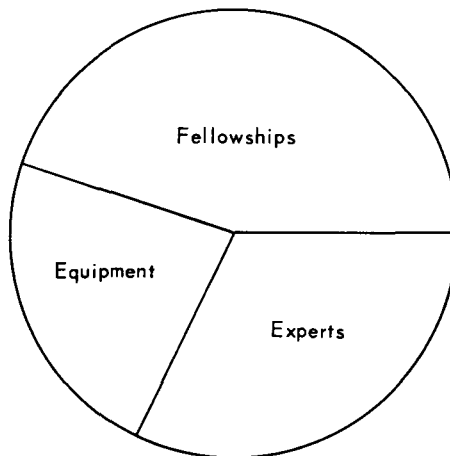
DISTRIBUTION OF TECHNICAL ASSISTANCE BY REGIONS

1964



DISTRIBUTION OF TECHNICAL ASSISTANCE BY TYPE OF ASSISTANCE

1964



Fellowships include participants at training courses and special projects as well as long-term awards.