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INTERNATIONAL ATOMIC ENERGY AGENCY

IAEA-CPS-92/06
19 June 1992
Original: ENGLISH

COUNTRY PROGRAMME SUMMARY

THE AGENCY'S TECHNICAL CO-OPERATION
PROGRAMME WITH THE
UNITED REPUBLIC OF TANZANIA

1982 - 1992

COUNTRY PROGRAMME SUMMARIES

DEPARTMENT OF TECHNICAL CO-OPERATION

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UNITED REPUBLIC OF TANZANIA

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COUNTRY PROGRAMME SUMMARIES

EVALUATION SECTION

DEPARTMENT OF TECHNICAL CO-OPERATION

THE AGENCY'S TECHNICAL CO-OPERATION
PROGRAMME WITH THE
UNITED REPUBLIC OF TANZANIA
1982 - 1992
COUNTRY PROGRAMME SUMMARIES

This report contains a review of the Agency's technical co-operation activities in the United Republic of Tanzania carried out during 1982 - 1992. In terms of coverage and analytical depth, country programme summaries stand somewhere midway between in-depth country programme evaluations and individual project evaluations. They attempt to provide a comprehensive, descriptive picture of the Agency's co-operation with a Member State over a period of ten years, in a manner that will be particularly useful for programming decisions. The attempt is very much to describe -- largely through statistical data -- not to provide independent analysis and evaluation.

IAEA-CPS-92/06

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UNITED REPUBLIC OF TANZANIA

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INTRODUCTION

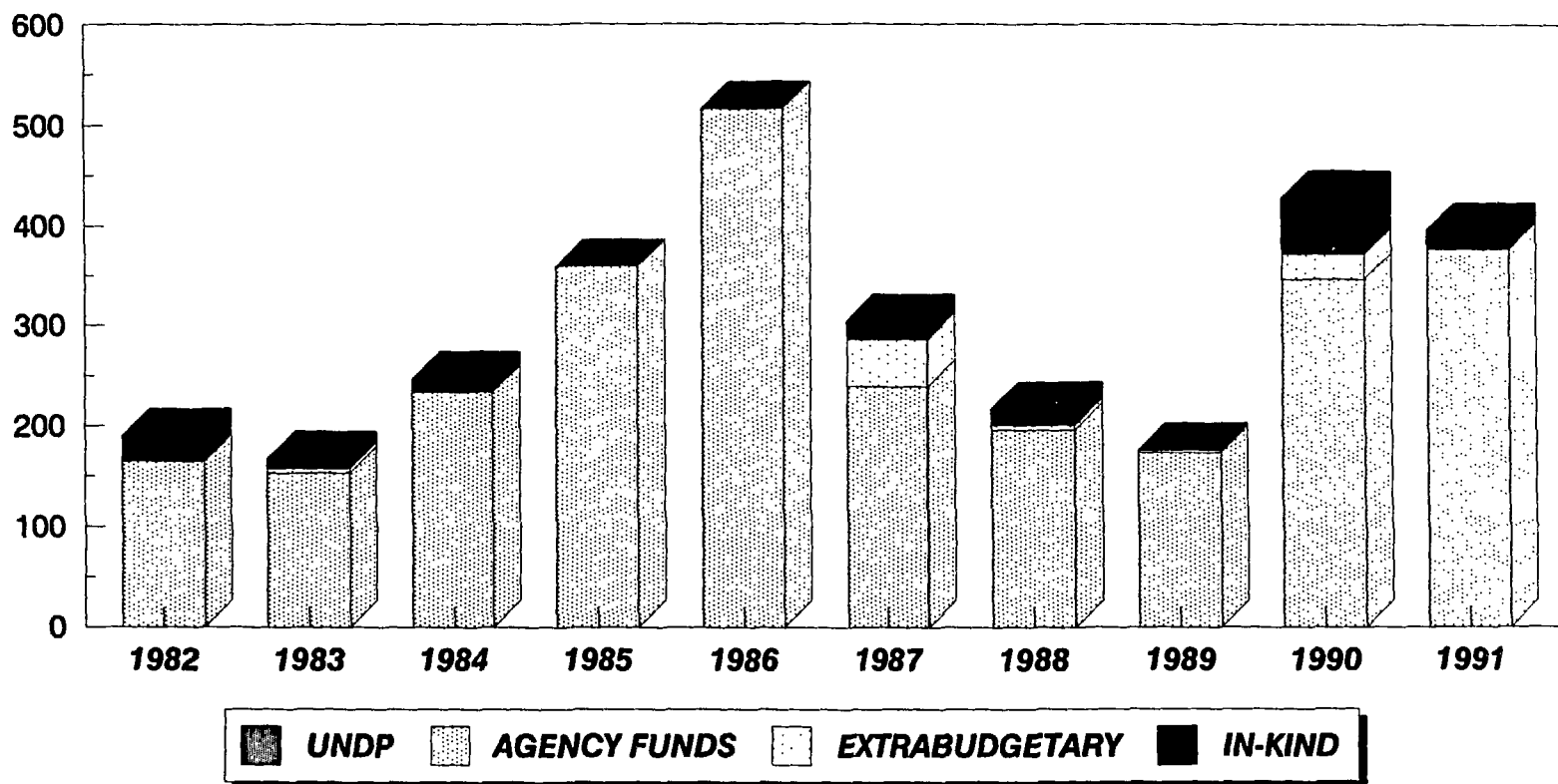
The Country Programme Summary reported on here is one in the series of such studies being undertaken of the Agency's TC programme with Member States. With over \$3.4 million of Agency support received, the United Republic of Tanzania ranks 44th among all recipients of technical assistance in the period 1958 - 1991.

Almost half of the assistance during the past ten years has been provided in the form of equipment (49%), followed by training through fellowships and scientific visits (29%) and expert services (22%). Ninety-two per cent of the resources were provided by the Technical Assistance and Co-operation Fund, the rest was made available through assistance in kind (5%) and through extrabudgetary contributions (3%).

With regard to project disbursements by sector, by far the largest share has gone to agriculture (48%), followed by nuclear physics (20%), nuclear safety (17%) and nuclear medicine (11%).

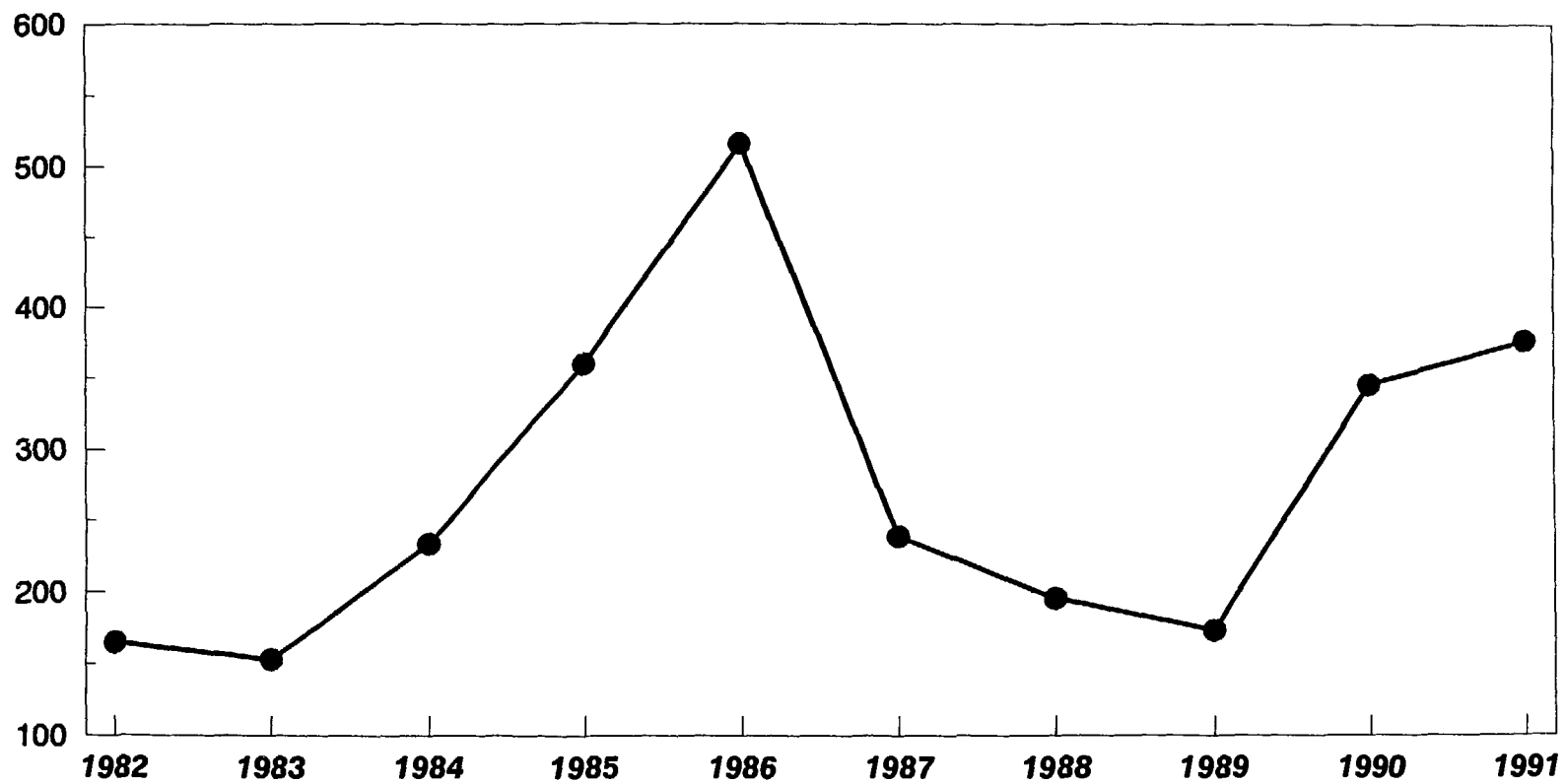
**ASSISTANCE PROVIDED BY THE AGENCY TO
TANZANIA, BY SOURCE, 1982 - 1991**

THOUSANDS OF DOLLARS



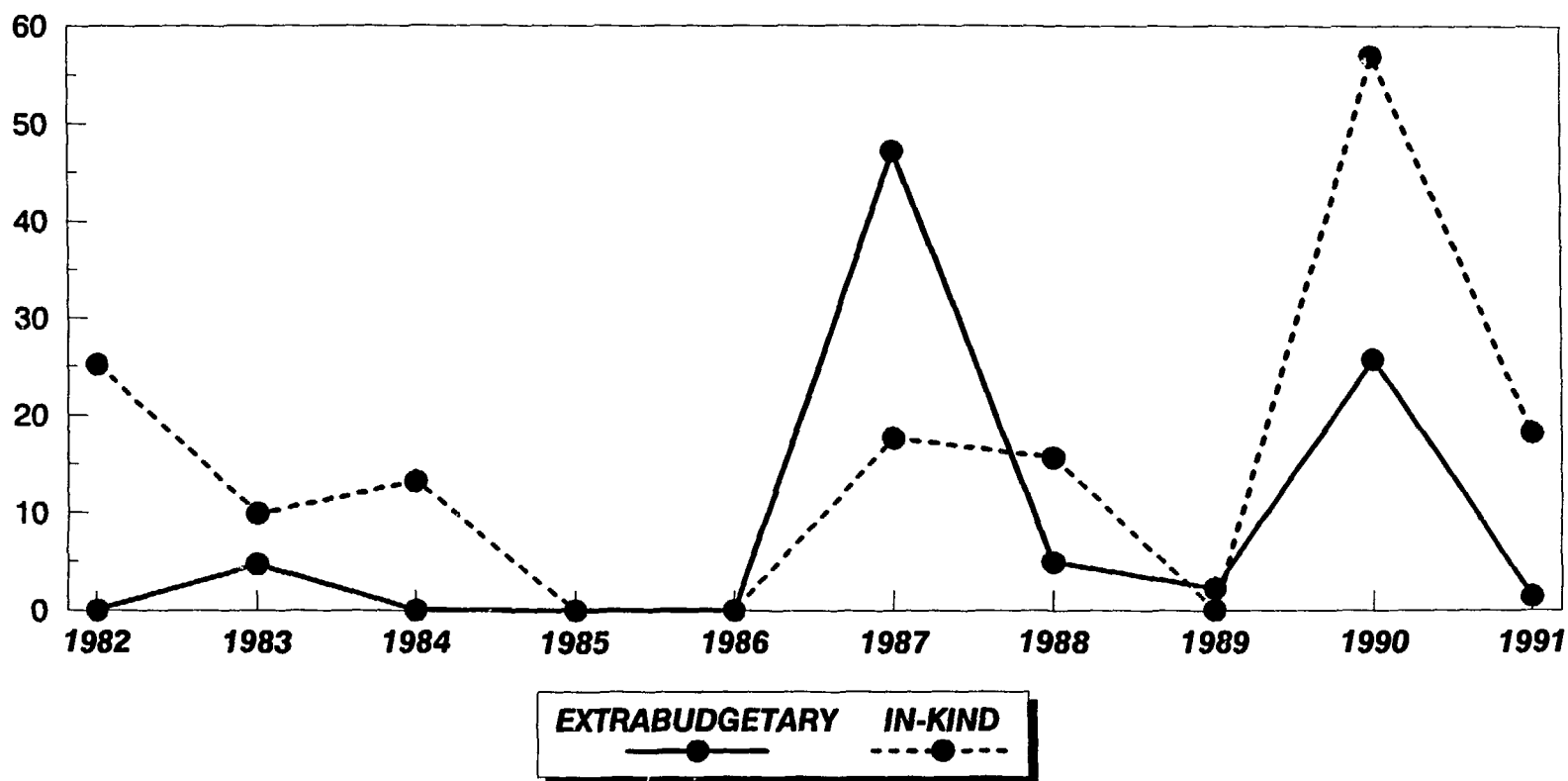
**TACF ASSISTANCE PROVIDED TO
TANZANIA, 1982 - 1991**

THOUSANDS OF DOLLARS

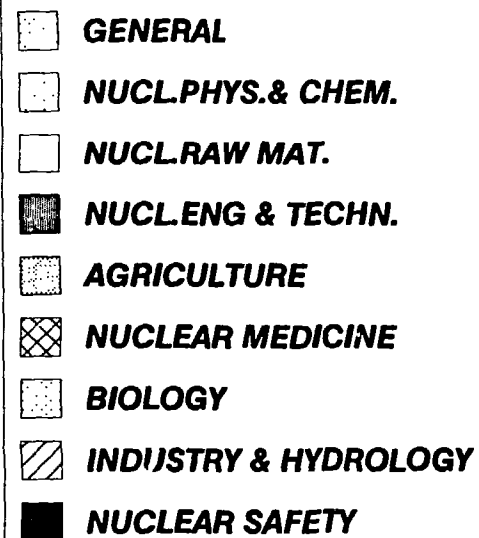
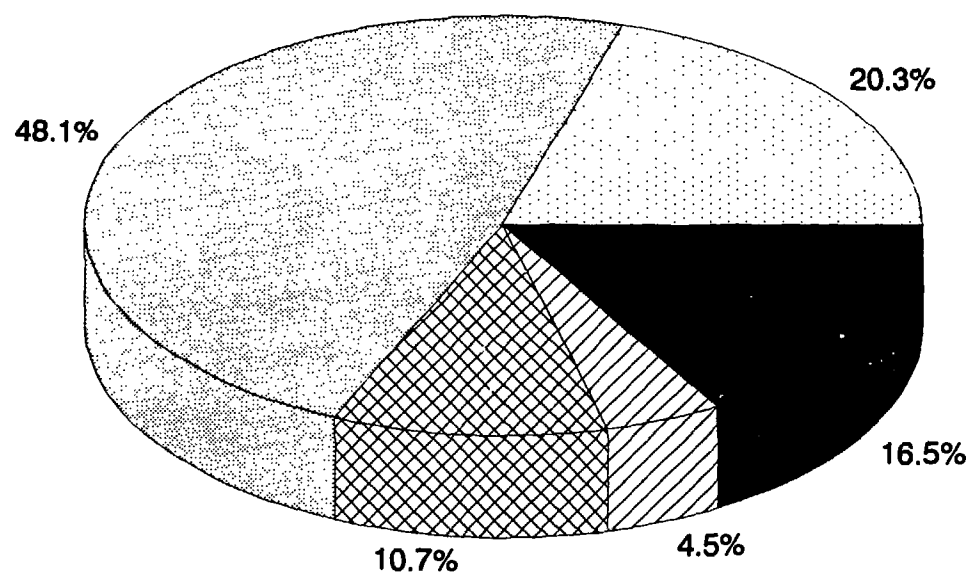


**EXTRABUDGETARY AND IN-KIND ASSISTANCE
PROVIDED TO TANZANIA, 1982 - 1991**

THOUSANDS OF DOLLARS

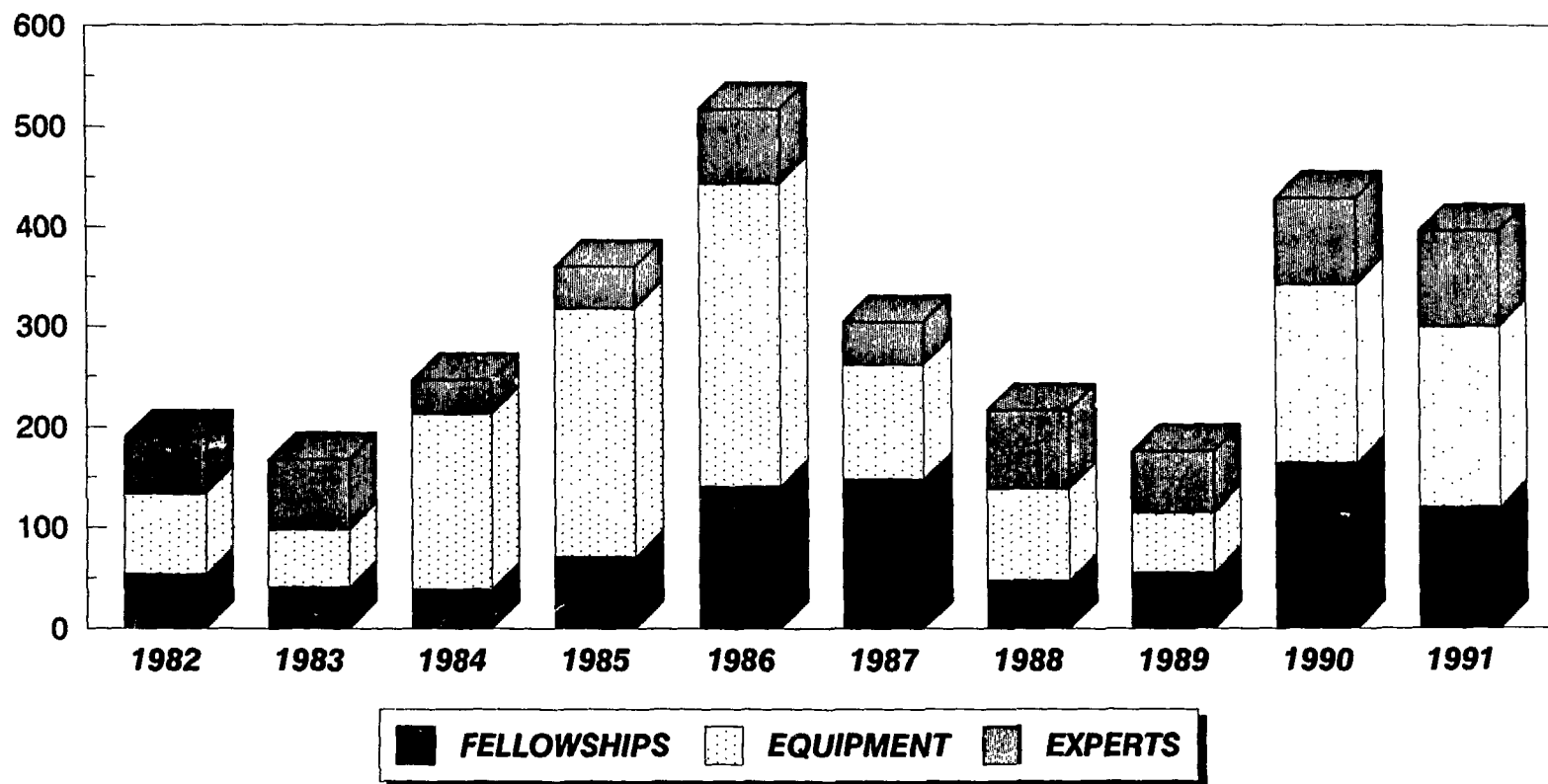


**TC PROJECT DISBURSEMENTS IN TANZANIA,
BY SECTOR, 1982 - MARCH 1992**



ASSISTANCE PROVIDED BY THE AGENCY TO TANZANIA, BY TYPE, 1982 - 1991

THOUSANDS OF DOLLARS



**EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED
TRAINING PROVIDED TO TANZANIA, 1982 - MAY 1992**

DOLLARS

1,400,000

1,200,000

1,000,000

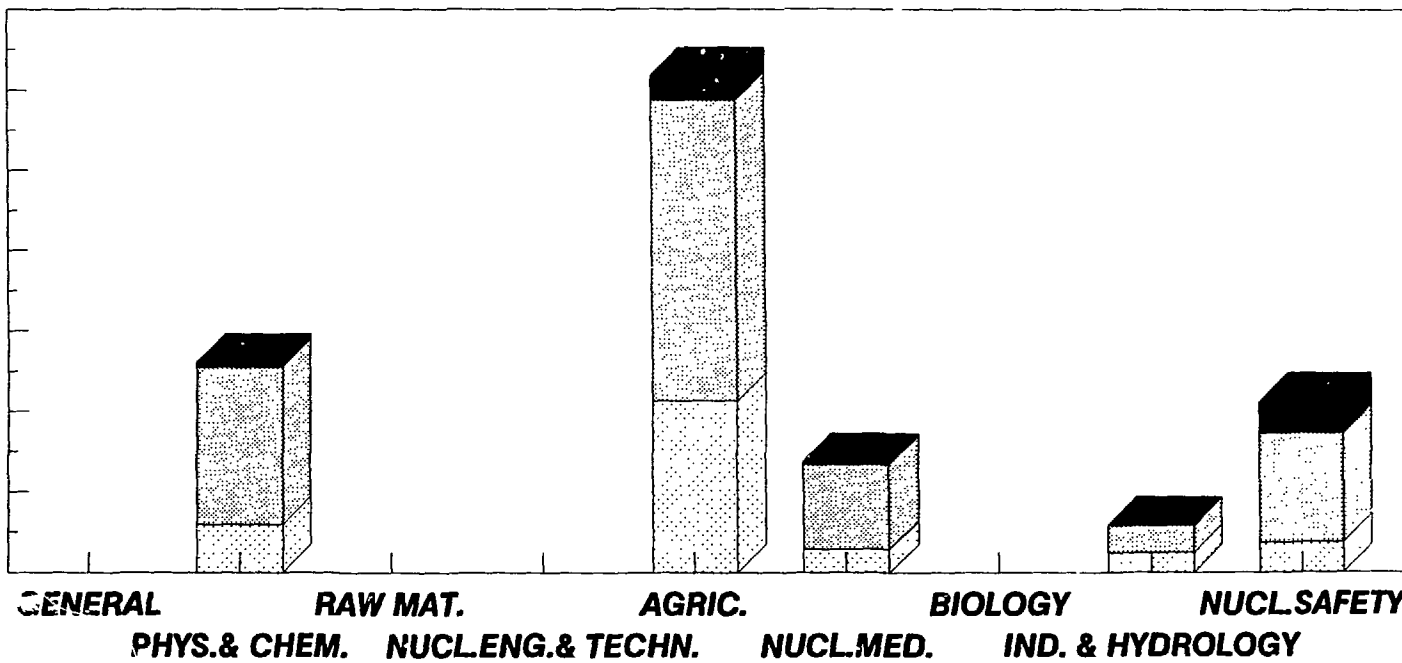
800,000

600,000

400,000

200,000

0



EXPERTS
 EQUIPMENT
 TRAINING

THE AGENCY'S TECHNICAL CO-OPERATI PROGRAMME WITH THE UNITED REPUBLIC OF TANZANIA
ALL SOURCES

TANZANIA'S RANKING AS A TC RECIPIENT
1958 - 1991
(in \$1000)

YEAR	RANKING	AMOUNT
1958-81	56 th	485.2
1982	38 th	190.0
1983	47 th	167.4
1984	30 th	246.6
1985	24 th	359.5
1986	23 rd	515.9
1987	41 st	303.3
1988	43 rd	216.0
1989	54 th	175.4
1990	32 nd	427.8
1991	36 th	395.6
1958-91	44 th	3482.7

"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1991 (in \$1000)

ALL SOURCES

Year	I	II	III	IV	V	TANZANIA
1958-81	BRA 7907.9	IND 6670.7	ARG 5200.4	PAK 5091.2	CHI 5005.7	56 th - 485.2
1982	EGY 807.5	PER 746.4	CUB 715.7	COL 667.7	THA 654.3	30 th - 190.0
1983	EGY 2077.9	PER 1116.8	VIE 948.1	PHI 778.6	IRA 722.1	47 th - 167.4
1984	EGY 3625.9	PER 1750.4	THA 1094.6	CUB 1028.7	PHI 881.2	30 th - 246.6
1985	EGY 2494.8	PER 1120.7	THA 1117.4	BGD 1068.2	PHI 963.7	24 th - 359.5
1986	EGY 2317.0	BRA 1452.9	THA 1169.4	POL 1050.3	BGD 896.4	23 rd - 515.9
1987	HUN 3452.6	EGY 1775.4	THA 1742.4	INS 1312.5	YUG 1223.2	41 st - 303.3
1988	EGY 1486.9	BUL 1361.6	CPR 1278.5	THA 1158.7	BRA 1096.7	43 rd - 216.0
1989	CPR 1542.3	EGY 1505.1	THA 1205.3	BRA 1096.5	INS 999.1	54 th - 175.4
1990	POL 2308.1	CPR 2005.0	VIE 1589.2	INS 1412.6	BRA 1229.1	32 nd - 427.8
1991	INS 1305.2	CPR 975.0	EGY 959.8	BRA 951.2	BUL 934.7	36 th - 395.6
1958-91	EGY 22222.3	BRA 17021.1	THA 14596.1	PER 12631.1	INS 12383.8	44 th - 3482.7

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1

"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1991 (in \$1000)

TECHNICAL ASSISTANCE AND CO-OPERATION FUND

Year	I	II	III	IV	V	TANZANIA
1958-81	HUN 2533.0	PAK 2010.9	EGY 1898.7	THA 1712.8	BRA 1704.8	50 th - 422.8
1982	EGY 507.1	HUN 438.2	CUB 430.7	ECU 398.4	ZAM 354.9	29 th - 164.8
1983	EGY 1049.4	VIE 897.4	POL 667.8	PAK 498.5	PHI 430.0	40 th - 152.8
1984	EGY 1197.2	CUB 655.6	ECU 565.6	BGD 506.3	BUL 472.4	26 th - 233.4
1985	BGD 991.8	VIE 745.0	THA 708.7	BRA 571.8	POR 538.7	17 th - 359.5
1986	BRA 1381.8	THA 871.9	POL 833.5	BGD 823.9	SYR 751.8	17 th - 515.9
1987	HUN 3305.2	DRK 986.8	BUL 888.5	INS 885.8	EGY 878.9	44 th - 238.6
1988	BUL 1195.6	PER 856.5	EGY 768.6	INS 751.7	MAL 656.0	39 th - 195.5
1989	EGY 990.9	CPR 868.2	POR 769.6	CHI 756.9	MAL 619.4	50 th - 173.2
1990	POL 1562.3	VIE 1518.8	DRK 1156.2	IRA 958.0	YUG 933.4	32 nd - 345.2
1991	BUL 893.1	PAK 868.8	INS 855.1	VIE 817.6	CPR 814.5	30 th - 376.0
1958-91	EGY 9591.3	HUN 8256.5	POL 7793.5	BRA 7433.5	PAK 7346.0	33 rd - 3177.7

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ASSISTANCE PROVIDED BY THE AGENCY TO TANZANIA

Financial Summary 1982 - 1991
(In thousands of dollars)

Year	ASSISTANCE PROVIDED, BY TYPE						ASSISTANCE PROVIDED, BY SOURCE					
	Experts	Equipment	Fellowships	Group training	Sub-contracts	Total	UNDP	TACF CC	TACF NCC	Extra-budgetary	In-kind	Total
1982	57.4	79.2	53.4	-	-	190.0	-	148.6	16.2	-	25.2	190.0
1983	70.1	56.8	40.5	-	-	167.4	-	150.7	2.1	4.7	9.9	167.4
1984	34.5	173.7	38.4	-	-	246.6	-	227.0	6.4	-	13.2	246.6
1985	42.7	246.2	70.6	-	-	359.5	-	307.3	52.2	-	-	359.5
1986	74.5	300.7	140.7	-	-	515.9	-	515.9	-	-	-	515.9
1987	42.6	113.2	147.5	-	-	303.3	-	238.6	-	47.1	17.6	303.3
1988	78.3	90.1	47.6	-	-	216.0	-	195.5	-	4.9	15.6	216.0
1989	61.3	58.9	55.2	-	-	175.4	-	169.4	3.8	2.2	-	175.4
1990	87.2	176.9	163.7	-	-	427.8	-	332.6	12.6	25.7	56.9	427.8
1991	96.3	179.5	119.8	-	-	395.6	-	377.5	(1.5)	1.4	18.2	395.6
1982-91	644.9	1 475.2	877.4	-	-	2 997.5	-	2 663.1	91.8	86.0	156.6	2 997.5

TECHNICAL CO-OPERATION PROJECTS IN TANZANIA
BY SECTOR

PROJECTS COMPLETED AND OPERATIONAL 1982 - 1992

TOTAL PROJECT ALLOTMENTS AND DISBURSEMENTS
(as of 31 May 1992)

SECTOR	NO. OF PROJECTS	ALLOTMENTS \$	% OF TOTAL	DISBURSEMENTS \$	% OF TOTAL
General atomic energy development	-	-	-	-	-
Nuclear physics and chemistry	2	633 782	22.2	521 216	20.3
Nuclear raw materials	-	-	-	-	-
Nuclear engineering and technology	-	-	-	-	-
Nuclear techniques in agriculture	7	1 312 983	46.1	1 233 446	48.0
Nuclear medicine	4	332 773	11.7	273 909	10.7
Nuclear techniques in biology	-	-	-	-	-
Nuclear techniques in industry and hydrology	3	110 200	3.9	115 727	4.5
Nuclear safety	1	460 203	16.1	422 577	16.5
TOTAL	17	2 849 941	100.0	2 566 875	100.0

TECHNICAL CO-OPERATION PROJECTS IN TANZANIA
 COMPLETED AND OPERATIONAL, BY SECTOR, 1982 - 1992
 (As of 31 May 1992)

Sector	No. of projects	Total project allotments \$	Total project disbursements \$
<u>Completed projects</u>			
General atomic energy development	-	-	-
Nuclear physics and chemistry	1	489 184	475 716
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	4	485 350	459 431
Nuclear medicine	3	258 723	249 686
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	2	74 300	76 916
Nuclear safety	-	-	-
TOTAL	10	1 307 557	1 261 749
<u>Operational projects</u>			
General atomic energy development	-	-	-
Nuclear physics and chemistry	1	144 598	45 500
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	3	827 633	774 015
Nuclear medicine	1	74 050	24 223
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	1	35 900	38 811
Nuclear safety	1	460 203	422 577
TOTAL	7	1 542 384	1 305 126

EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO TANZANIA, BY SECTOR
 PROJECTS COMPLETED AND OPERATIONAL 1982 - 1992
 (As of 31 May 1992)

FIELD	TOTAL PROJECT ALLOTMENTS				TOTAL PROJECT DISBURSEMENTS			
	EXPERT SERVICES		EQUIPMENT	TRAINING	EXPERT SERVICES		EQUIPMENT	TRAINING
	M/M	\$	\$	\$	M/M	\$	\$	\$
General atomic energy development	-	-	-	-	-	-	-	-
Nuclear physics and chemistry	25/11	163 390	412 644	57 748	21/19	118 455	391 033	11 728
Nuclear raw materials	-	-	-	-	-	-	-	-
Nuclear engineering and technology	-	-	-	-	-	-	-	-
Nuclear techniques in agriculture	70/26	476 295	774 748	61 940	69/25	425 177	748 040	60 229
Nuclear medicine	8/25	63 350	237 868	31 555	8/00	56 589	210 709	6 611
Nuclear techniques in biology	-	-	-	-	-	-	-	-
Nuclear techniques in industry & hydrology	6/11	44 500	65 700	-	5/19	48 227	67 500	-
Nuclear safety	10/24	82 965	286 045	91 193	9/22	74 201	271 642	76 734
TOTAL	122/07	830 500	1 777 005	242 436	114/25	722 649	1 688 924	155 302

AGENCY FELLOWS FROM TANZANIA

1982 - 1992¹
(As of 31 May 1992)

Sector	No. of fellowships	No. of months/days	Host countries
General atomic energy development	2	5/00	KEN, THA, MAL, INS, IAEA
Nuclear physics	4	26/16	USA, SIN, CPR, IAEA
Nuclear chemistry	2	22/01	BEL, SWE
Nuclear raw materials	-	-	-
Nuclear engineering and technology	6	38/22	KEN, USA, SIN, CYP, AUS, ZAM, UK, IAEA
Nuclear techniques in agriculture	28	119/28	BEL, NIR, USA, GER, ZIM, KEN, MOR, POL, UK, IAEA
Nuclear medicine	10	84/28	USA, IND, IAEA
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry and hydrology	9	51/10	USA, ITA, HUN, GER, UK, IAEA
Nuclear safety	11	56/22	INS, SWE, UK, IAEA
TOTAL	72	405/07	

¹/ Only includes fellows who have completed or at least started training.

TANZANIA
FELLOWSHIPS LONGER THAN 12 M/M
1982 - 1992
(As of 31 May 1992)

Name	Field of study	Host country	Date	Duration	Project
BILAL	Applied nuclear physics	SIN	Apr.84 - Jun.85	14/00	URT/1/003
WAJANGA KONDORO	X-ray fluorescence	USA	Aug.81 - May 83	21/20	-
KOLELENI	X-ray fluorescence analysis	BEL	Jan.90 - Jan.91	12/01	RAF/0/003
SHUMA	Electronics and microprocessors	USA	Aug.86 - Dec.87	16/01	URT/1/003
KIWIA	Entomology	USA	Jun.86 - Jul.89	37/17	URT/5/007
MJAMBEULE	Medical physics	IND	Sep.90 - Sep.91	12/00	RAF/0/003
MWILIKE	Medical physics	IND	Oct.88 - Oct.89	12/28	URT/6/004
SURENDA SINGH	Medical physics	USA	Jul.84 - Jul.85	12/01	-
TULI	Nuclear medicine	USA	Jun.86 - Jun.87	12/00	URT/6/004
TULI	Radiation biophysics	UK	Oct.81 - Nov.82	13/14	-
KONGOLA	Groundwater hydrology	USA	Aug.80 - May 83	33/01	-
NKOTAGU	Isotope hydrology	USA	Aug.86 - Aug.87	12/01	-
NYARUBA	Radiation protection	UK	Jan.90 - Jan.91	12/01	URT/9/002

TANZANIAN NATIONALS WHO WERE AWARDED MORE THAN ONE
FELLOWSHIP OR SCIENTIFIC VISIT
1982 - 1992
(As of 31 May 1992)

Name	Field of study	Host country	Date	Duration	Project
KIWIA	1. Sterile insect technique 2. Entomology	IAEA USA	Feb.83 - May 83 Jun.86 - Jul.89	2/28 37/17	- URT/5/007
MINGA	1. Animal diseases 2. Animal diseases	UK MOR	Mar.89 - Aug.89 Dec.90	5/10 0/05	URT/5/008 RAF/0/003
MKUFYA	1. Nuclear instrumentation and electronics 2. Nuclear medicine instrumentation	KEN IAEA AUS	Jun.84 - Aug.84 Apr.90 - May 90	1/20 7/14	- RAF/0/003
SHONI	1. Nuclear instrumentation 2. Nuclear instrumentation	CYP ZAM IAEA	Jan.88 - Feb.88 Mar.88 - May 88 Sep.90 - Mar.91	2/24 7/29	URT/5/006 RAF/0/003
TULI	1. Radiation biophysics 2. Nuclear medicine 3. Nuclear medicine	UK USA USA	Oct.81 - Nov.82 Jun.85 - May 86 Jun.86 - Jun.87	13/14 11/00 12/00	- URT/6/004 URT/6/004

AGENCY TRAINING COURSES WITH TANZANIAN PARTICIPATION

1982 - 1992
(As of 31 May 1992)

Field	Number of participants	Number of courses
General atomic energy development	7	5
Nuclear physics	6	5
Nuclear chemistry	1	1
Nuclear raw materials	-	-
Nuclear engineering and technology	8	7
Nuclear techniques in agriculture	30	23
Nuclear medicine	6	6
Nuclear techniques in biology	-	-
Nuclear techniques in industry & hydrology	2	2
Nuclear safety	22	16
TOTAL	82	65

MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES
BY TANZANIAN NATIONALS
1982 - 1992
(As of 31 May 1992)

Name	Course No.	Course title	Year	Location
KANUYA	INT/5/123 (001)	ITC on immunoassay and related techniques in the study of livestock production in the tropics	1991	AUS
	RAF/5/006 (002)	RTC on the use of personal computers in the analysis of animal production data	1992	ETH
	RAF/5/008 (001)	RTC on the use of radio- and enzyme immunoassay techniques for studies on animal reproduction and disease diagnosis	1986	KEN
KIFANGA	INT/9/090 (001)	ITC on the determination of radionuclides in food and environmental samples	1988	GER
	INT/9/129 (001)	ITC on planning, organization and implementation of radiation protection on a national level	1992	USA
	RAF/9/005 (001)	RTC for radiation protection officers	1988	KEN
	RER/9/008 (001)	Advanced RTC on determination of radionuclides in food and environmental samples	1991	GER
KUDOJA	INT/1/036 (001)	Advanced ITC on elemental analysis by nuclear techniques	1985	CPR
	RAF/1/003 (001)	RTC on advanced X-ray fluorescence analysis	1987	GHA
LORETU	RAF/5/006 (001)	RWS on the establishment and use of a monoclonal antibody-based competitive ELISA-system for the sero-monitoring of rinderpest	1991	CMR
	RAF/5/011 (002)	RTC on the diagnosis of rinderpest	1988	ETH
MAPUSA	INT/4/098 (001)	ITC on safety and regulation of unsealed sources of radioactive material	1989	IRE
	RAF/9/005 (001)	RTC for radiation protection officers	1988	KEN
MDOE	INT/4/101 (001)	Advanced ITC on nuclear electronics	1990	USA
	RAF/4/006 (001)	RTC on nuclear instrumentation maintenance	1989	ZAM
	RAF/9/005 (001)	RTC for radiation protection officers	1988	KEN
	RAF/9/005 (005)	RWS on trouble shooting and maintenance of Harshaw TLD equipment	1991	AUS

MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES
BY TANZANIAN NATIONALS
1982 - 1992
(As of 31 May 1992)

Name	Course No.	Course title	Year	Location
MOMPOME	INT/9/069 (001)	ITC on radiation protection in the mining and milling of radioactive ores	1986	BRA
	INT/9/077 (001)	ITC for radiation protection officers in regulatory bodies	1987	GDR
	INT/9/093 (001)	ITC on safety and regulation of sealed sources of radioactive material	1989	USA
	RAF/9/005 (004)	RWS on basic radiation and development of national infrastructure for radiation safety	1990	NIR
	RAF/9/006 (001)	RTC on management of spent sealed radiation sources	1991	KEN
NYANDA	RAF/0/006 (001)	RTC on design, management and evaluation techniques of IAEA technical co-operation projects	1991	GHA
	RAF/9/005 (004)	RWS on basic radiation and development of national infrastructure for radiation safety	1990	NIR
NYARUBA	INT/9/098 (001)	ITC on safety and regulation of unsealed sources of radioactive material	1989	IRE
	RAF/9/005 (001)	RTC for radiation protection officers	1988	KEN
	RAF/9/005 (007)	RWS on emergency planning, preparedness and international co-operation	1991	AUS

PROJECTS COMPLETED IN TANZANIA SINCE 1982
(as of 31 May 1992)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1980	URT/1/003	Nuclear physics	21/11	126 640	362 544	-	21/11	113 782	361 934	-	1991
1977	URT/5/002	Radioisotopes in agriculture	9/00	35 400	49 300	-	8/15	38 211	51 027	-	1982
1981	URT/5/004	Radioisotopes in agriculture	13/00	71 400	111 000	-	13/03	61 404	110 473	-	1985
1983	URT/5/005	Radioisotope-aided soil fertility and fertilizer studies	3/00	18 600	19 000	-	2/28	14 368	16 182	-	1984
1983	URT/5/006	Acaricide residues in meat and milk	8/00	53 300	127 350	-	8/03	40 886	126 880	-	1990
1984	URT/6/002	Radiotherapy	1/00	6 600	85 000	-	-	-	82 290	-	1986
1984	URT/6/003	Epidemiology of malaria	2/10	15 800	81 324	-	2/10	20 737	79 872	-	1988
1984	URT/6/004	Radioimmunoassay laboratory	4/15	32 100	31 544	6 355	4/16	28 662	31 514	6 611	1991
1982	URT/8/004	Isotopes in hydrology	3/00	16 200	12 200	-	2/15	15 828	14 128	-	1982
1983	URT/8/005	Sediment dynamics	2/00	12 400	33 500	-	1/15	13 180	33 780	-	1987
	TOTAL	10 projects	67/06	388 440	912 762	6 355	64/26	347 058	908 080	6 611	

OPERATIONAL PROJECTS IN TANZANIA
(As of 31 May 1992)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1991	URT/1/005	Nuclear physics (phase II)	4/00	36 750	50 100	57 748	0/08	4 673	29 099	11 728
1984	URT/5/007	Tsetse fly eradication	28/24	226 245	344 655	1 959	28/02	180 202	319 976	1 958
1986	URT/5/008	Livestock reproduction and health	5/10	39 210	79 903	12 981	5/10	49 687	79 286	12 981
1990	URT/5/009	Diagnosis of animal diseases	3/22	32 140	43 540	47 000	3/24	40 419	44 216	45 290
1991	URT/6/006	Radioimmunoassay laboratory (phase II)	1/00	8 850	40 000	25 200	1/04	7 190	17 033	-
1988	URT/8/006	Groundwater monitoring in the Dodoma region	1/11	15 900	20 000	-	1/19	19 219	19 592	-
1984	URT/9/002	Radiation protection	10/24	82 965	286 045	91 193	9/22	74 201	271 642	76 734
	TOTAL	7 projects	55/01	442 060	864 243	236 081	49/29	375 591	780 844	148 691

Footnote-a/ project not yet upgraded:

URT/5/010 Pesticide residues

COUNTERPART INSTITUTIONS IN TANZANIA (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR PHYSICS</u>		
URT/1/003	University of Dar es Salaam, Physics Department, Dar es Salaam	KONDORO
URT/1/005	University of Dar es Salaam, Physics Department, Dar es Salaam	KIWANGA
<u>AGRICULTURE</u>		
URT/5/002	University of Dar es Salaam, Faculty of Agriculture, Forestry and Veterinary Science, Morogoro	NDUNGURU
URT/5/004	Agricultural Research Institute, Mlingano	SAMKI
URT/5/005	University of Dar es Salaam, Faculty of Agriculture, Forestry and Veterinary Science, Morogoro	NDUNGURU
URT/5/006	Tropical Pesticides Research Institute, Agricultural Research Division, Arusha	MOSHI MAEDA
URT/5/007	1. Tsetse and Trypanosomiasis Research Institute, Tanga 2. Ministry of Agriculture, Livestock and Natural Resources, Tsetse Control Unit, Zanzibar	GAO BIWI
URT/5/008	Sokoine University of Agriculture, Faculty of Veterinary Medicine, Morogoro	KESSY
URT/5/009	Ministry of Livestock Development, Tanzania Livestock Research Organization, Animal Diseases Research Institute, Virology Department, Dar es Salaam	HYERA

COUNTERPART INSTITUTIONS IN TANZANIA (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR MEDICINE</u>		
URT/6/002	Tanzania Tumor Centre, Dar es Salaam	LUANDE
URT/6/003	National Institute for Medical Research, Amani Medical Research Centre, Amani	MATOLA
URT/6/004	University of Dar es Salaam, Muhimbili Medical Centre, Dar es Salaam	MAKENE
URT/6/006	University of Dar es Salaam, Muhimbili Medical Centre, Dar es Salaam	JHAZI
<u>NUCLEAR TECHNIQUES IN HYDROLOGY</u>		
URT/8/004	Ministry of Water, Energy and Minerals, Dodoma	SALAMBA
URT/8/005	Ministry of Water, Energy and Minerals, Dar es Salaam	BALAILE
URT/8/006	Ministry of Water, Energy and Minerals, Hydrology Section, Dodoma	KONGOLA SADIKI
<u>NUCLEAR SAFETY</u>		
URT/9/002	Tanzania National Radiation Commission, Arusha	NYANDA

COUNTERPART INSTITUTIONS IN TANZANIA (II)

(By Institute)

DAR ES SALAAM

**University of Dar es Salaam
Physics Department
Dar es Salaam**

URT/1/003 Nuclear Physics
URT/1/005 Nuclear Physics (Phase II)

**University of Dar es Salaam
Muhimbili Medical Centre
Dar es Salaam**

URT/6/004 Radioimmunoassay Laboratory
URT/6/006 Radioimmunoassay Laboratory (Phase II)

**Ministry of Livestock Development
Tanzania Livestock Research Organization
Animal Diseases Research Institute
Virology Department
Dar es Salaam**

URT/5/009 Diagnosis of Animal Diseases

**Ministry of Water, Energy and Minerals
Dar es Salaam**

URT/8/005 Sediment Dynamics

**Tanzania Tumor Centre
Dar es Salaam**

URT/6/002 Radiotherapy

COUNTERPART INSTITUTIONS IN TANZANIA (II)
(By Institute)

ARUSHA

Tropical Pesticides Research Institute
Agricultural Research Division
Arusha

URT/5/006 Acaricide Residues in Meat and Milk

Tanzania National Radiation Commission
Arusha

URT/9/002 Radiation Protection

MOROGORO

University of Dar es Salaam
Faculty of Agriculture, Forestry and Veterinary Science
Morogoro

URT/5/002 Radioisotopes in Agriculture
URT/5/005 Radioisotope-aided Soil Fertility and Fertilizer Studies

Sokoine University of Agriculture
Faculty of Veterinary Medicine
Morogoro

URT/5/008 Livestock Reproduction and Health

MLINGANO

Agricultural Research Institute
Mlingano

URT/5/004 Radioisotopes in Agriculture

COUNTERPART INSTITUTIONS IN TANZANIA (II)
(By Institute)

DODOMA

Ministry of Water, Energy and Minerals
Dodoma

URT/8/004 Isotopes in Hydrology
URT/8/006 Groundwater Monitoring in the Dodoma Region

AMANI

National Institute for Medical Research
Amani Medical Research Centre
Amani

URT/6/003 Epidemiology of Malaria

TANGA

Tsetse and Trypanosomiasis Research Institute
Tanga

URT/5/007 Tsetse Fly Eradication

ZANZIBAR

Ministry of Agriculture, Livestock and Natural Resources
Tsetse Control Unit
Zanzibar

URT/5/007 Tsetse Fly Eradication

**THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH
TANZANIA
SINCE 1982**

LONG-TERM EXPERT ASSIGNMENTS

Project URT/5/007, Tsetse Fly Eradication

- L.C. MADUBUNYI (NIR), Task 02 - Tsetse survey (Zanzibar)
Apr 1988 - Apr 1989, 12 months
 - To undertake a survey of *Glossina austeni*, using traps, electric targets and other techniques.
 - To assist TALIRO and local staff in selecting and demarcating possible areas for conducting integrated control operations.
 - To work out a protocol for pre-release population suppression activities and strategies for an integrated tsetse control programme, including release of sterile *Glossina austeni*.

RESEARCH CONTRACTS/AGREEMENTS IN TANZANIA SINCE 1982
(As of 31 May 1992)

NONE

**SCIENTISTS FROM TANZANIA SERVING AS AGENCY
TECHNICAL CO-OPERATION EXPERTS OR
TRAINING COURSE LECTURERS
1982 - 1992
(As of 31 May 1992)**

Name	No. of assignments	Project(s)
HAFIDH	1	URT/5/007
MOMPOME	1	RAF/9/007

**AGENCY FELLOWSHIPS AND SCIENTIFIC VISITS
HOSTED BY TANZANIA
1982 - 1992
(As of 31 May 1992)**

NONE

**REGIONAL AND INTERREGIONAL TRAINING EVENTS
HOSTED BY TANZANIA
1982 - 1992
(As of 31 May 1992)**

Course No.	Course Title	Participants	Year
RAF/6/006 (001)	Regional co-ordinators' meeting on radioimmunoassay of thyroid-related hormones	8	1991
RAF/8/008 (001)	RTC on hydrology	12	1984
RAF/9/005 (002)	Meeting on regional co-operation in radiation protection in Africa	9	1989
RAF/9/005 (008)	Regional meeting on co-operation in radiation protection in Africa	10	1992
4 EVENTS	TOTAL	39	