

Research Capacity in Mozambique

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Research Institutions in Mozambique

Institution	Researchers	Tec. Assistants	Others	TOTAL
Agriculture and Fishery				
	26	8	80	114
IIAM-DFDTT	16	25	28	69
IIAM-DCA	38	64	13	115
IIAM-CZN (Niassa)	6	14	6	26
IIAM-CZN (Nampula)	12	12	12	36
IIAM-CZC (Manica)	9	8	51	68
IIAM-CZS (Gaza)	21	305	47	373
IIP	35	nd	nd	35
IIP-NIASSA	1	14	4	19
IDPPE	20	10	49	79
Engineering and hearth Sciences				
LEM	5	34	nd	39
Health and Well Being				
CISM	15	136	40	191
CRDS	4	1	nd	5
INS	nd	nd	nd	nd
Social and Humanitarian Science and Education				
AHM	15	1	—	16
CEA	nd	nd	nd	nd
CFJJ	9	9	nd	18
CEII-ISRI	nd	nd	nd	nd
ARPAC	8	1	nd	9
INDE	47	nd	23	70
MHN	4	5	44	53
others				
INAHINA	23	96	35	154
INNOQ	23	10	10	43
TOTAL	337	753	442	1532



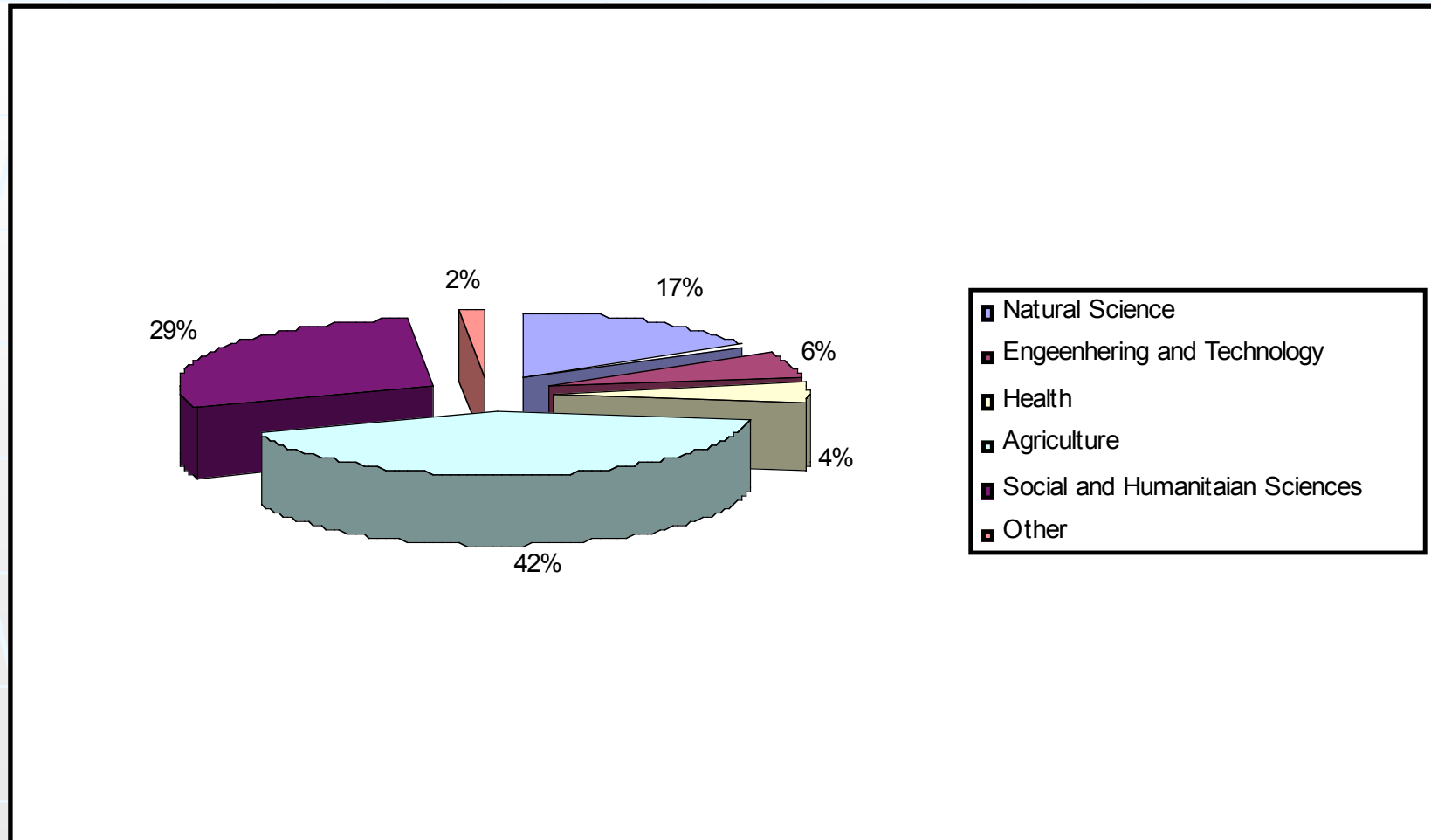
HR in Research Activities in 2005

Qualifications	Researchers	Technical Assistant	Administrative and Other Personnel	Total
PhDs	17	1	-	18
Master	79	7	5	91
Diploma	225	29	21	275
Bachelor	16	14	13	43
Other		702	403	1105
Total	337	753	442	1532

Women in Research Activities, 2005

Qualification	Researchers	Technical Assistant	Administration and Other Personnel	Total
PhDs	4	1	-	5
Master	26	-	5	31
Diploma	79	9	21	109
Bachelor	3	4	13	20
Other	1	238	123	362
Total	113	252	162	527

Researchers per Area of Activity



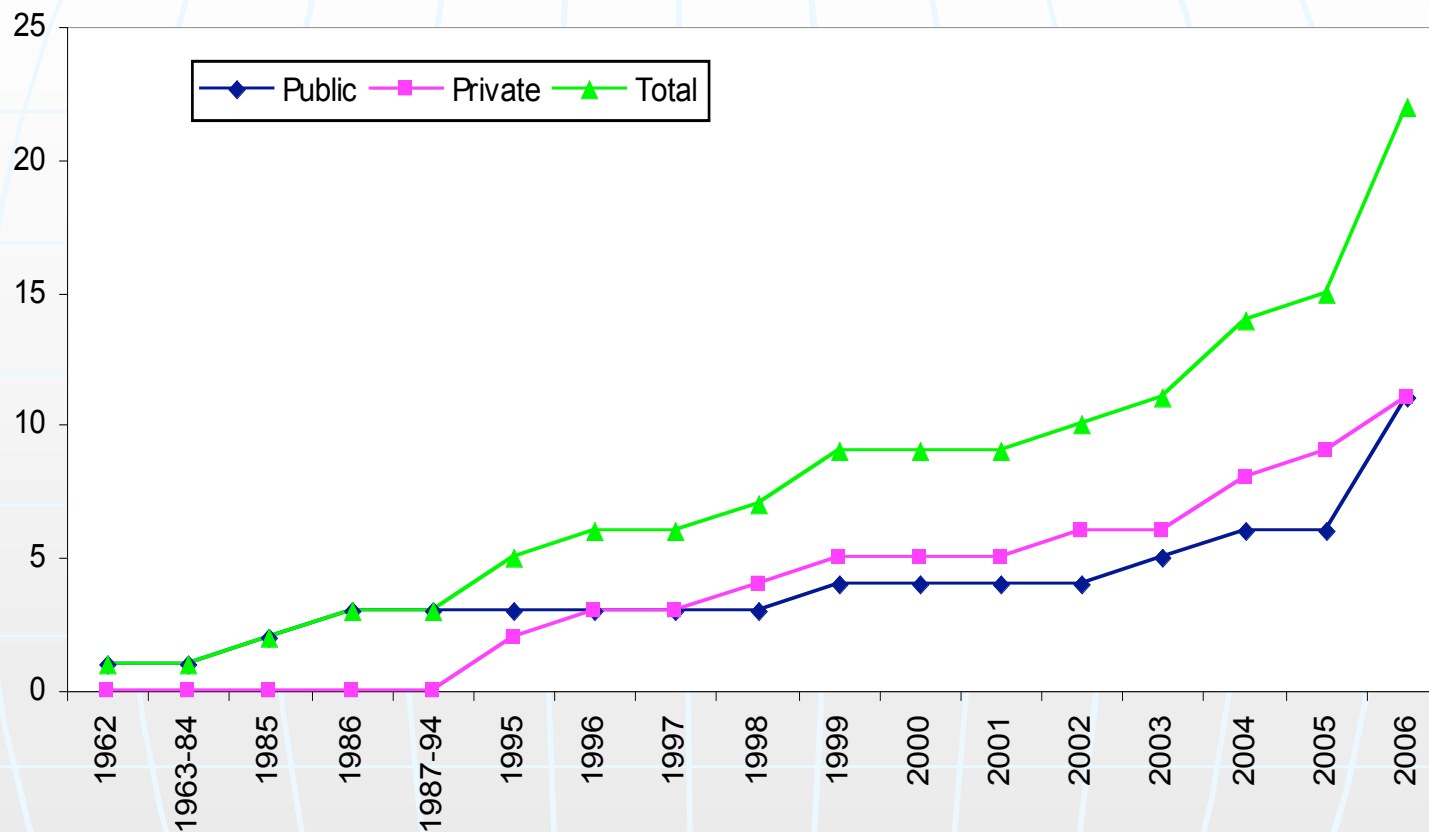
Comparison With other Countries and Total Population

Country	Year	Researchers	Population	
			Researchers/ Million of Inhab.	(in Millions)
Brazil	2004	84979	462	183.82
China	2004	926252	708	1307.71
Finland	2004	39582	7832	5.05
France	2004	200064	3320	60.25
Germany	2004	270749	3276	82.64
India	2004	115936	110	1051.10
Japan	2004	677206	5294	127.91
Korea	2004	156220	3279	47.64
MOZ	2005	337	17	19.42
Niger	2004	106	8	12.77
Russia	2005	477647	3319	143.90
Singapore	2005	21359	4999	4.27
SA	2004	17915	379	47.23
Spain	2004	100994	2368	42.64
UK	1999	157662	2706	58.26
EUA	2002	1334628	4605	289.80

PhDs per Scientific Field

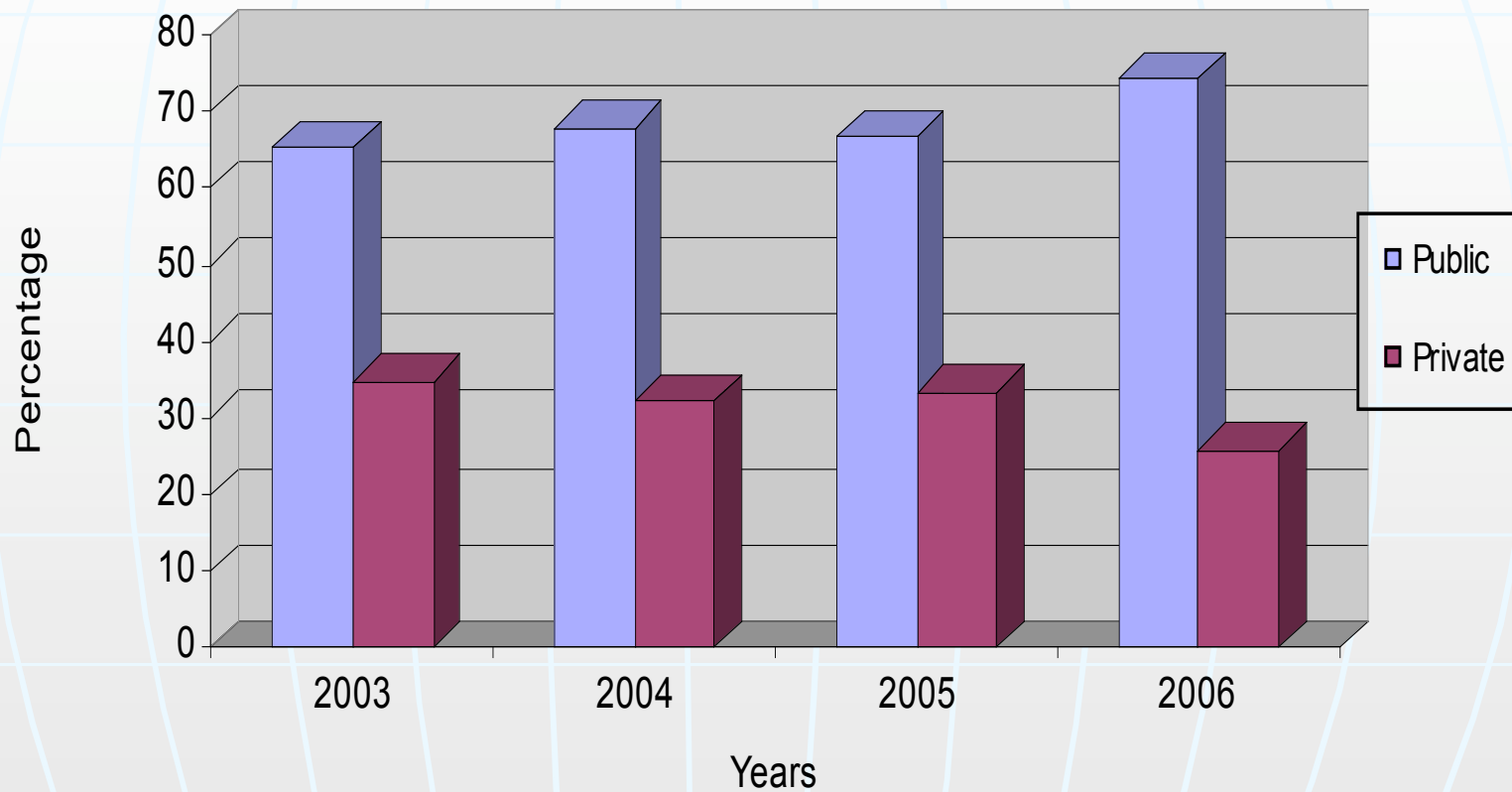
Fields	1960	1961-70	1971-80	1981-90	1991-00	2001-06	Total
Science	-	1	-	4	30	40	75
Engineering	-	-	1	8	9	13	31
Medicine	-	-	1	-	11	20	32
Agriculture Social and Humanitarian Sciences	-	-	2	3	34	13	52
Other	1	-	3	4	34	31	73
Other	-	-	3	11	52	74	140
Total	1	1	10	30	170	191	403

Higher Education in Mozambique

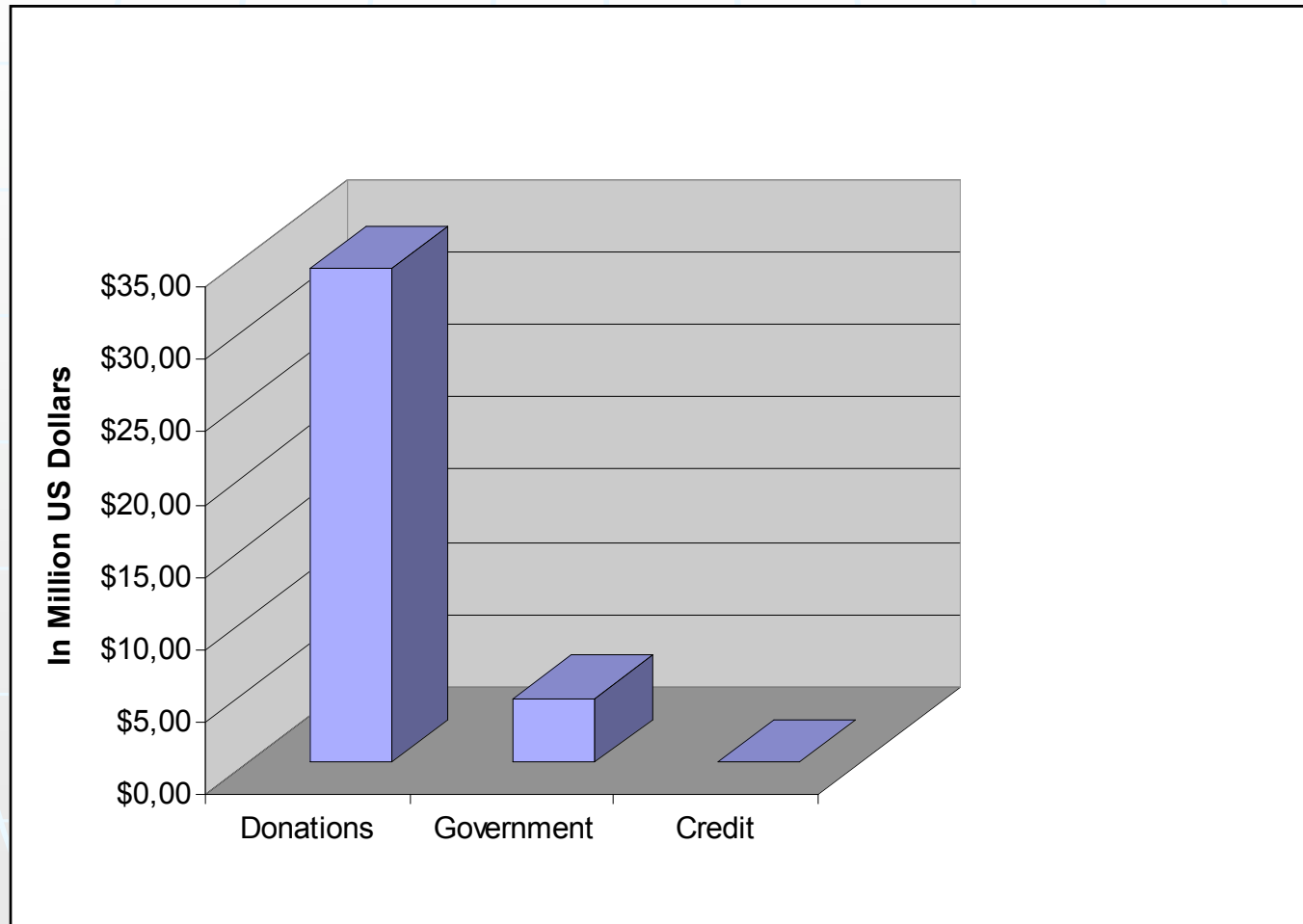


From 1 university from 1962 - 1984 to 22 in 2006

Enrolled Students in High Education



Financial Resources Expended in 2005



Distribution of Funds For Research Activities by Sectors In 2005

(in Million US Dollars)

Ministries Contemplated	Sources			
	Gov.	Cred.	Donat.	Total
Ministry of Transport and Communications	0.16	-	-	0.16
Ministry of Health	-	-	1.87	1.87
Ministry of Science and Technology				
Ministry of Agriculture and Rural Development	1.06	-	0.40	1.46
Ministry of Fishery	1.72	-	31.41	33.13
Ministry of Public Works and Habitation	0.15	-	-	0.15
Ministry of Justice			0.01	0.01
Ministry of Education and Culture	0.87	0.00	0.03	0.90
Ministry of Industry and Commerce	0.44	-	-	0.44
Total	4.40	0.00	33.72	38.12

Distribution Of Financial Resources by Research Activities and its Objectives

Objectives	Percentage
1. Marine and Fishery Sciences	82.62
2. Health	4.87
3. Agricultural Development	3.18
4. Education and Training	2.99
5. Natural Resources Development	0.55
6. Construction	0.07
7. Social and Community Services Development	0.07
8. Mineral Resources Development	0.00
9. Industrial Production	0.00
10. Transporte and Information and Communication services	0.00
11. Tourism and Commercial Services	0.00
12. Environmental Services	0.00
13. Others	2.06

Outputs of Research Activities

Area	Instituição	Livros e revistas existentes			
		Books	Electronic Magazines	Printed Magazines	Magazines with Operational Signatures
Agricultura and Fishery	IDPPE	797	—	159	—
	IIP-Niassa	30	—	—	—
	IIP	nd	nd	nd	nd
	IIAM - CZN (Nampula)	nd	nd	nd	nd
	IIAM - CZN (Niassa)	375	—	—	2
	IIAM (DCA) - Maputo	591	0	1760	0
	IIAM- DFDTT	5000	3	50	—
	IIAM- DPAF	12	—	—	—
	IIAM- CZC (Manica)	20	100	10	0
	IIAM-CZS (Gaza)	nd	nd	nd	nd
Engeenhering an Heart Sciencenes	INAHINA	382	—	8	—
	IINAM	nd	nd	nd	nd
Health and Well-Being	CRDS	4376	—	—	—
	CISM	500	—	—	—
Social and Humanitarian Sciences and Education	CFJ	nd	nd	nd	nd
	MHN	5817	—	—	—
	AHM	—	—	—	—
	ARPAC - Maputo	5961	—	—	—
	INDE	6000	—	3000	—
	INNOQ	1605	—	545	—
	CEA	nd	nd	nd	nd
	CEII-ISRI	nd	nd	nd	nd
Total		19505	103	2532	2

Final Remarques

- Mozambique was independent in 1975 and at that time there was only one Public University and very few people with university degree
- 80% of Mozambican population live in rural areas and 60% of them are illiterate
- Government have been engaged in increasing number of universities and also number of Mozambicans with university degree, there are at the moment 22 universities operating through out the country

Final Remarques (Cont.)

- Lectures earn very low salaries and to increase their salaries they teach in more than one university, affecting research time and decreasing lecturing quality
- Financial resources for R&D activities are allocated to the sectors that can provide more revenue to the country

Final Remarques (Cont.)

- Research activities in the past where mainly done by government institutions and the Ministry of Science and Technology was recently created
- Thus there are coordination issues to be addressed as well as human and financial capacities to make research more effective and able to address development issues in Mozambique
- A Science and Technology Strategy has been developed as well as Human and Institutional Capacity Building Programs aiming at increasing research capacity in the country

Thank you for your Attention

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