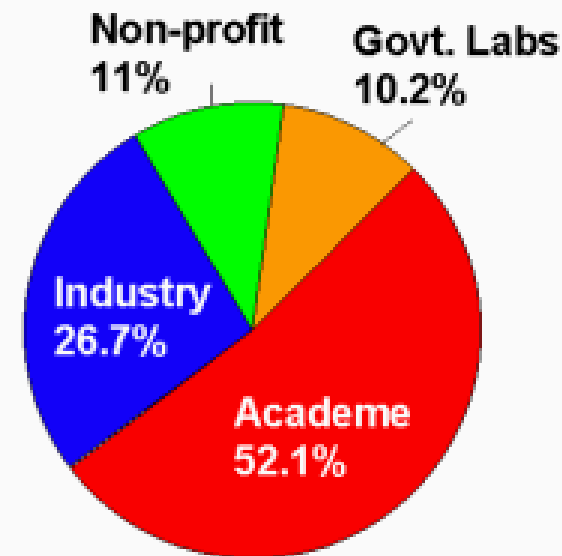

Research and the University: The case of the Arab region

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13th IAU General Conference, Utrecht 15-18 July 2008

Science/Technology Linkage

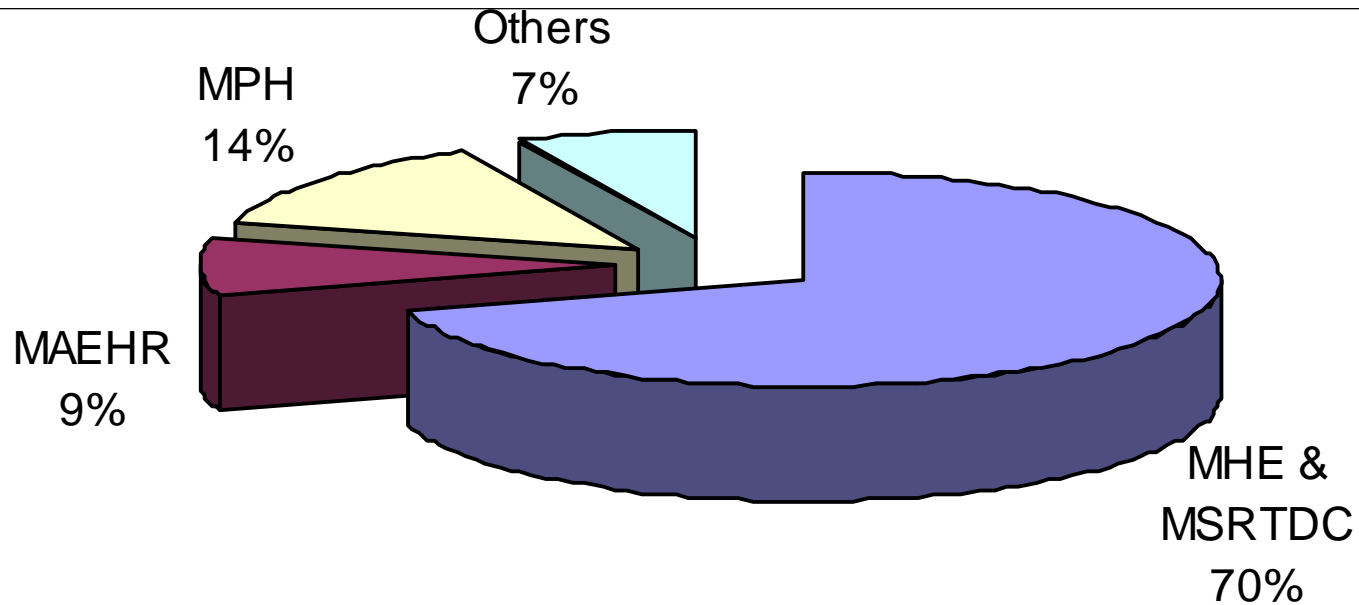
- Patents granted in the US patent system are increasingly linked to public research.
- Two-thirds of the cited papers were published by organizations primarily supported by public funding.



**Sources of papers cited
on U.S. Patents**

Source: National Science Board,
Industry Trends in Research Support and Links to Public Research.

Research funding in Tunisia



Sources MHE & MSRTDC: Higher Education and Scientific Research; MAEHR: Agriculture; MPH: Public Health TUNISIA. Source: Arab countries Metareview, UNESCO Forum

Arab states research production ratios

Indicator	SCI pub/million pop (1)	Tot researchers headcount (2)	Produc tion ratio (1/2)	GERD as % GDP
Algeria	555	29 000	0.019	NA
Morocco	850	23 000	0.036	0.80
Tunisia	929	14 000	0.066	1.00
Egypt	2331	90 000	0.025	0.20
Jordan	421	9 000	0.047	0.34
Lebanon	431	20 000	0.021	0.22
Bahrein	55	1 000	0.055	0.04
Kuwait	344	2 000	0.172	0.20
UAE	410	3 500	0.117	0.10
Oman	169	1 200	0.141	0.05
Arab mode			0.051	
Argentina	43609	5640	0.129	0.41
Singapore	28825	7096	0.246	2.15

(Arab data col. 1 and 2 from Table 6, other data from page 7 Lat Am and Table 1 Asia Reports)
 Source: Regional reports, UNESCO Forum on Higher Education, Research and Knowledge

Arab states human development indicators (HDR2006, UNDP)

Indicator	Arab mean (range)	Arab mode	Norway	Republic of Korea
HDI rank	85 (33 – 153)	82	1	26
Annual population growth rate %	1.95 (1 - 3.1)	2.0	0.5	0.3
Life expectancy at birth	70.8 (52.5-74.2)	72.5	79.3	76.9
Infant mortality /1000 births	27.3 (7 – 78)	21	4	5
Grade 5 (% of Grade 1)	92.2 (73 – 100)	96	100	100
Adult (15+) illiteracy %	23.5 (6.7 – 48.8)	20.5	0	2
Cell phone subscr/1000	381.7 (53 - 908)	313	861	761
Internet users/1000	113 (5 – 321)	104	390	657
Hi tech exports (% of manufactured exports)	3.75 (1 – 13)	2	18	33