

Moroccan view and perspective

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University HASSAN II

CASABLANCA

Les Indicateurs

- Société du Savoir
- Economie du Savoir



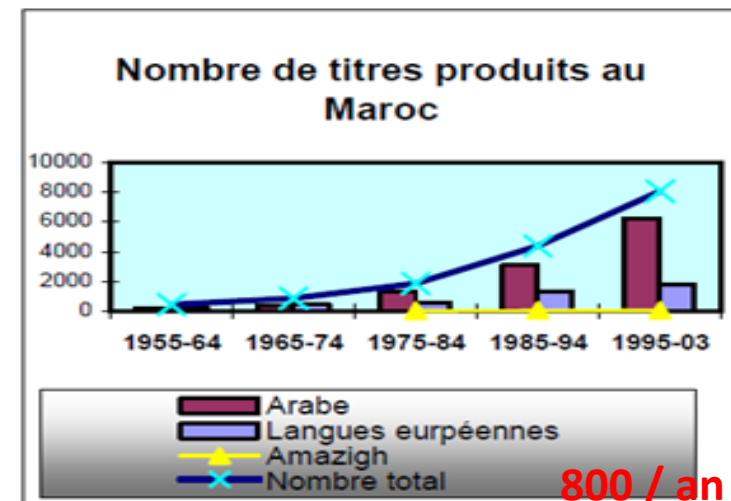
	population in million	median age	population growth rate	per capita income, \$	unemployment rate	percent below poverty line
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North	171	41	0.18%	27,000	8.4%	6%
South	161	25	1.9%	7,000	18%	25%

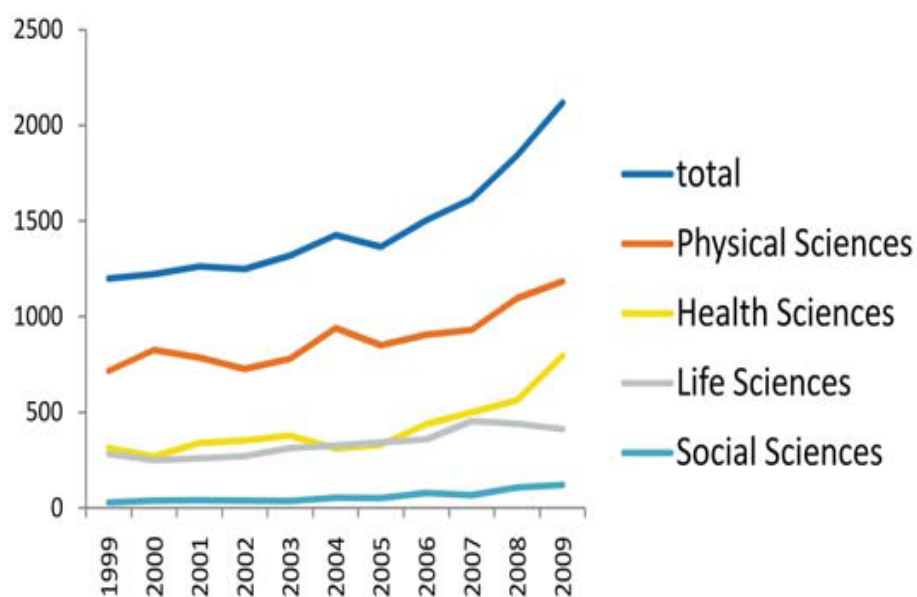
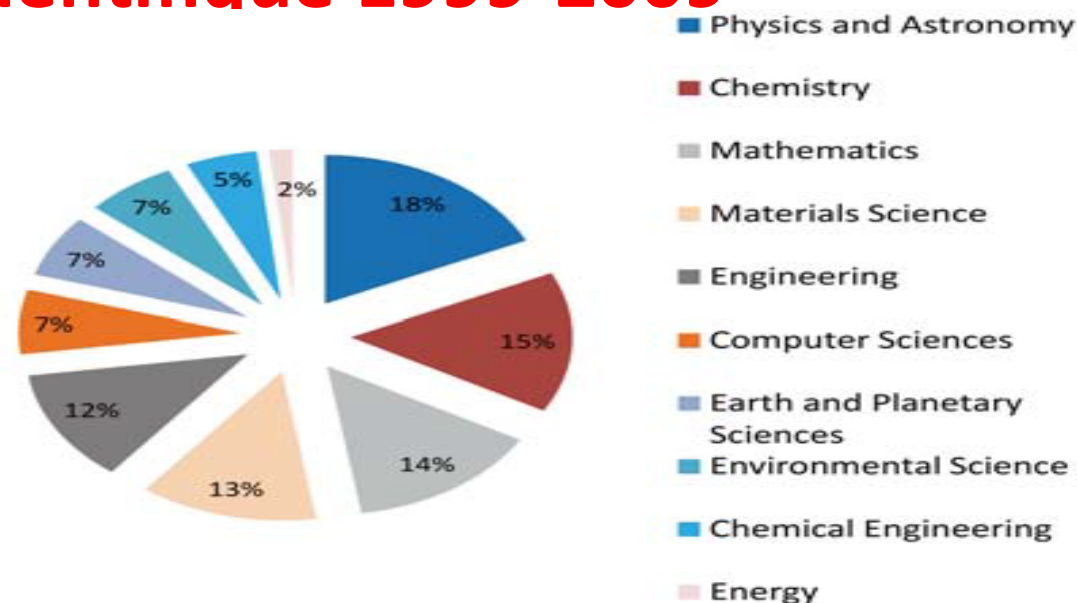
of publications in the year 2000

publication per million population

North	126,217	738
South	3,310	21



Production Scientifique 1999-2009

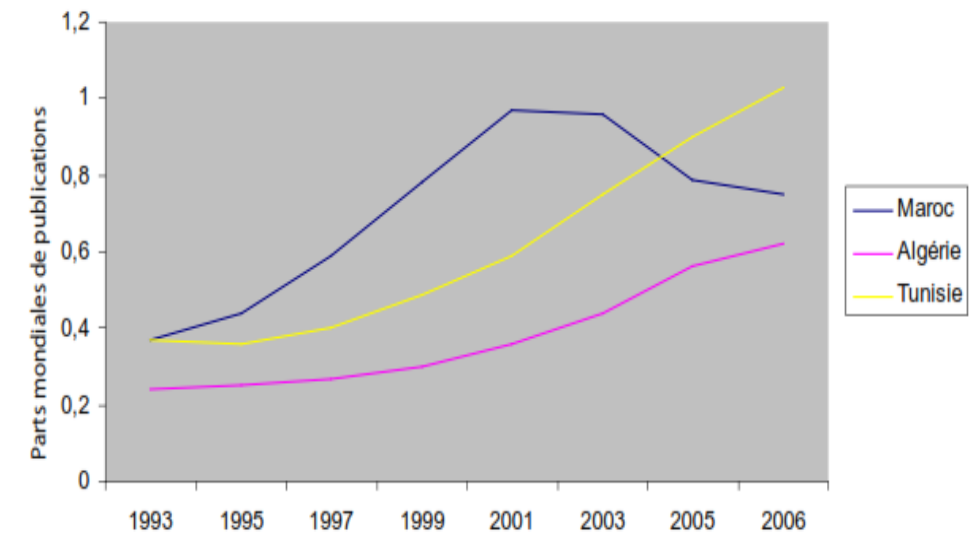
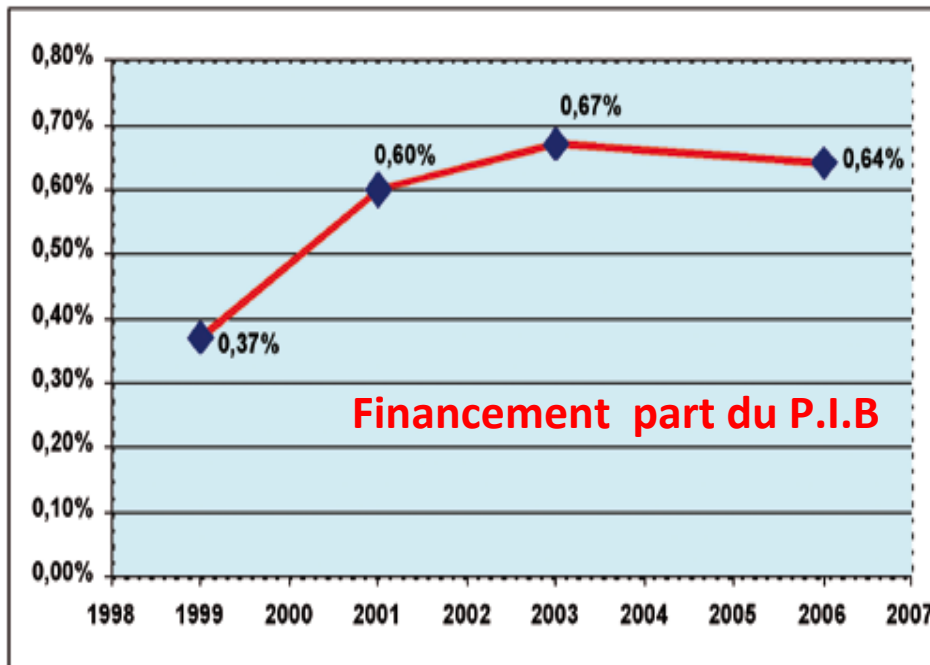
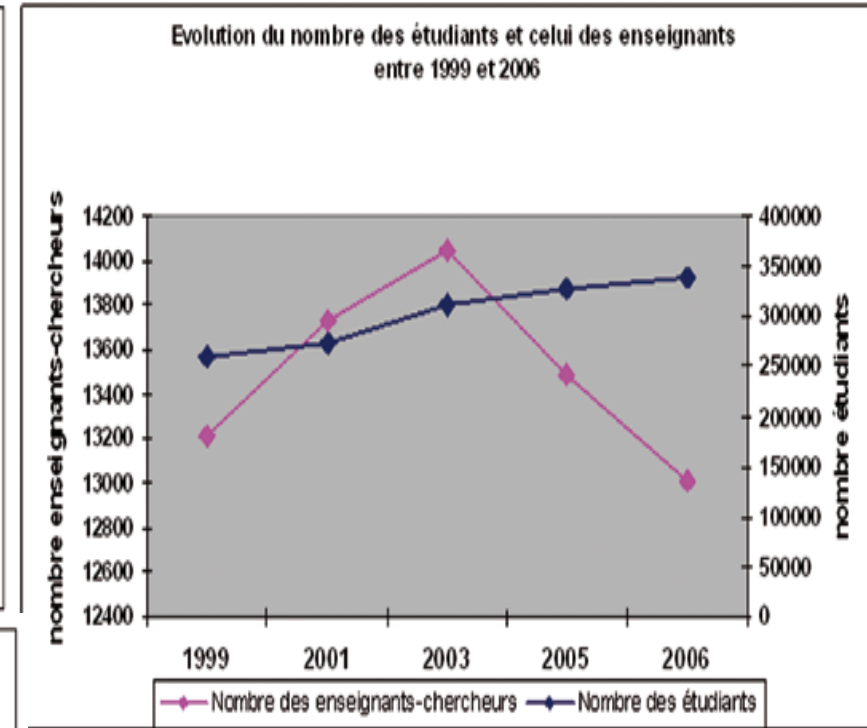
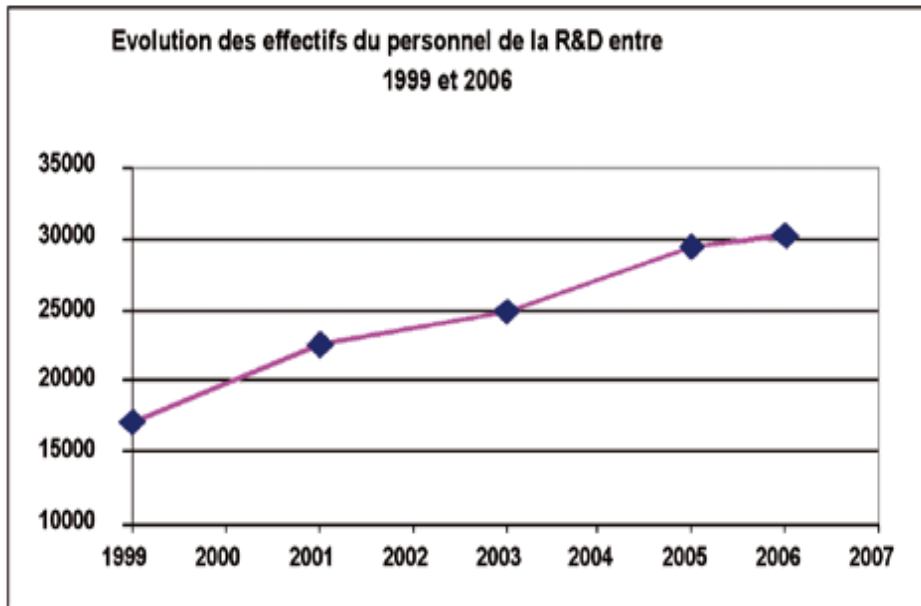


Rang	Part (%) des co-publications du Maroc			
	2001		2006	
	Pays	Part (%)	Pays	Part (%)
1	France	71,1	France	63,9
2	Espagne	7,8	Espagne	13,0
3	Etats-Unis	7,3	Etats-Unis	7,2
4	Italie	6,3	Italie	6,4
5	Allemagne	4,7	Allemagne	5,5
6	Belgique	4,3	Canada	5,2
7	Canada	3,4	Belgique	3,5
8	Japon	2,1	Royaume-Uni	3,1
9	Royaume-Uni	1,8	Suisse	2,3
10	Tunisie	1,6	Portugal	2,2

Nombre de co-publications	
internationales	605
	585

données Thomson Scientific, traitements OST OST - 2008

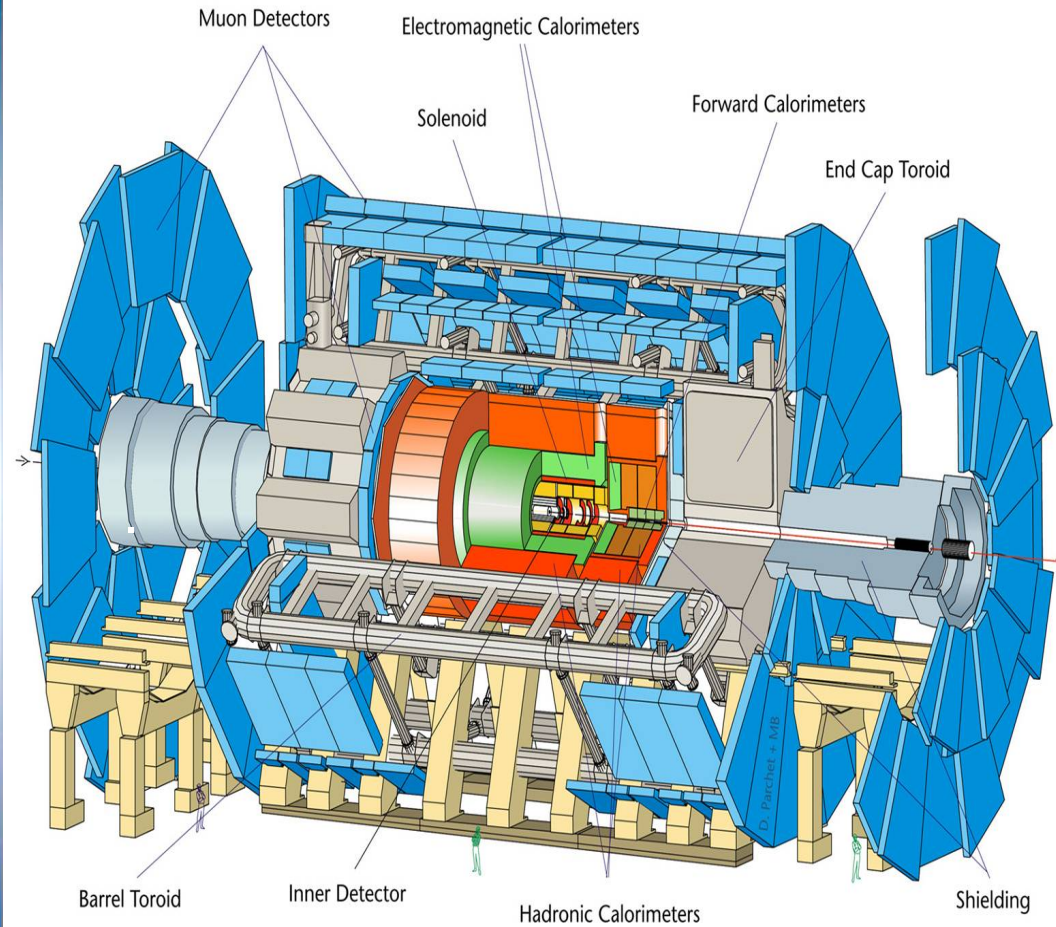
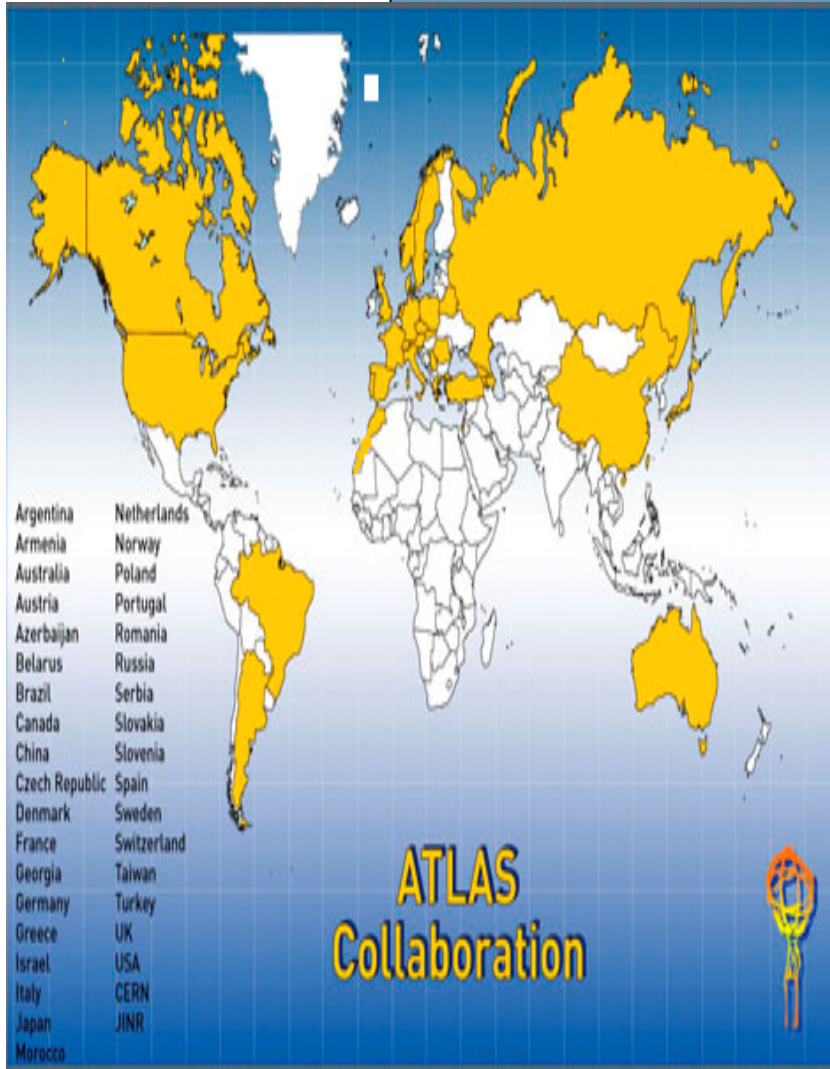
Personnel et budget de la Recherche et R&D



Perspectives

- Renforcer les collaborations Internationales (LIA, ...) et participation projets internationaux (ILC)
- Rendre les métiers de la Recherche plus attractif notamment pour les jeunes
- Participation durable et visible aux grands projets scientifiques et aux centres de recherche
 - **Bourse d'excellence Marocaine au CERN**
 - **CERN depuis 1996, futur : Maroc membre du CERN, premières approches 2012**
 - **SESAME**
 - **LHC and ATLAS upgrade**

The ATLAS Detector



3000 Scientists from 178
Institutions and 38 countries

Diameter	25 m
Barrel toroid length	26 m
End-cap end-wall chamber span	46 m
Overall weight	7000 Tons

CERN welcomes its first doctoral students from Morocco



Le Bulletin

July 2010

1 - Scholarship at CERN
funded by the **Academy
HASSAN II of Science
And Technology** –

Publications : **190** (1994 – 2012)

Ph.D Thesis : **12** (1999 – 2012), in progress : **10**

International Laboratory for Collider Physics (ILCP) :
funded by France, Morocco and Sweden (2010)



Réseau Universitaire de Physique des Hautes Energies : RUPHE
Casablanca, rabat, Oujda, Marrakech, Tanger
20 Enseignants Chercheurs

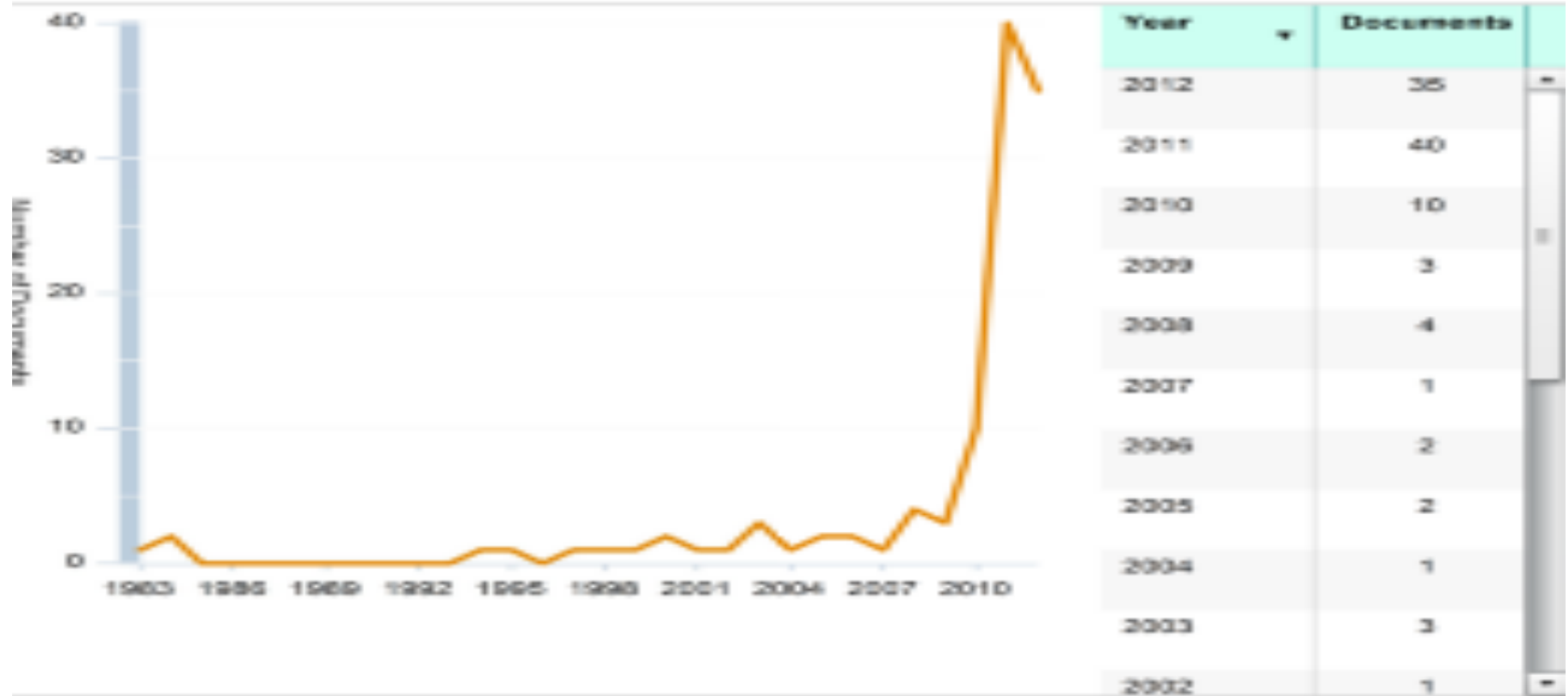
Hint: Analyze results by year

Date of Creation: 10-May-2012

Your query: AUTHOR-NAME(Hoummada A)

Year range: Only consider documents published from 1983 to 2012

This chart shows the total number of documents for this query by Year.

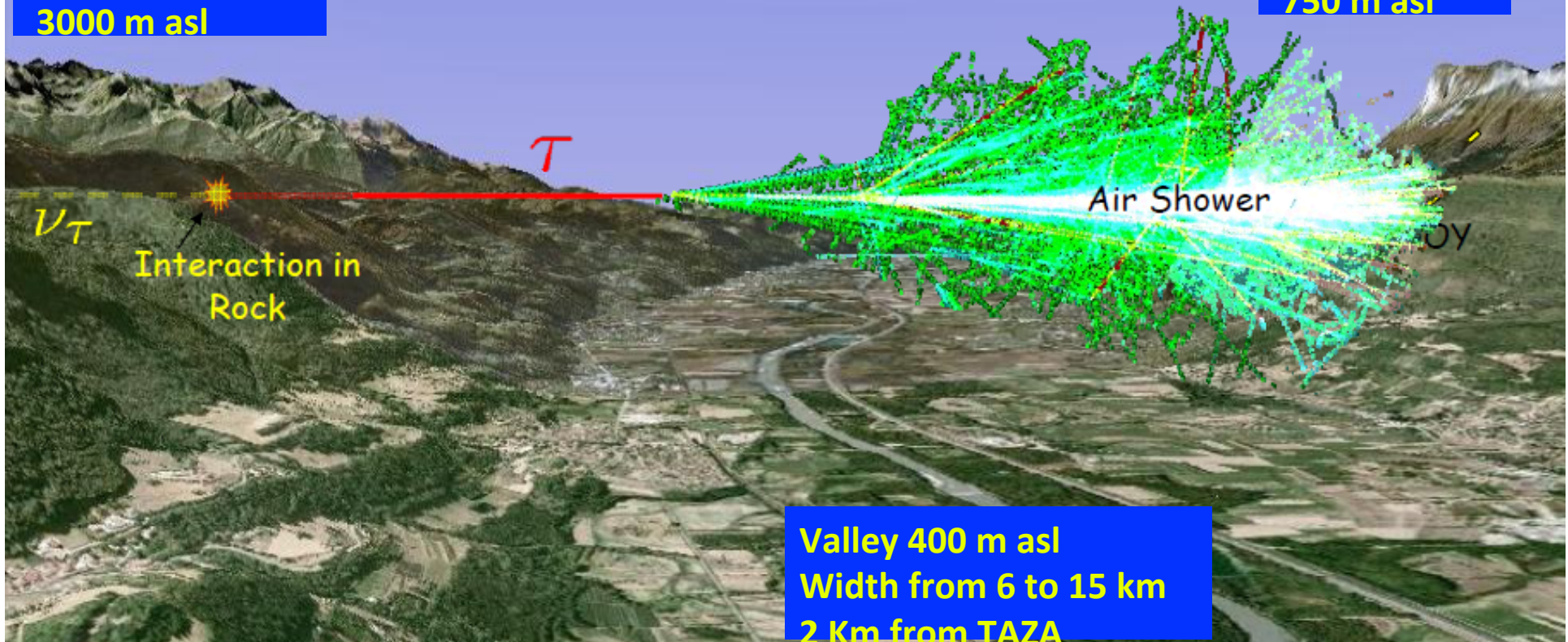


Neutrino Observatory : Detector and Site



ATLAS Mountain
3000 m asl

RIF Mountain
750 m asl

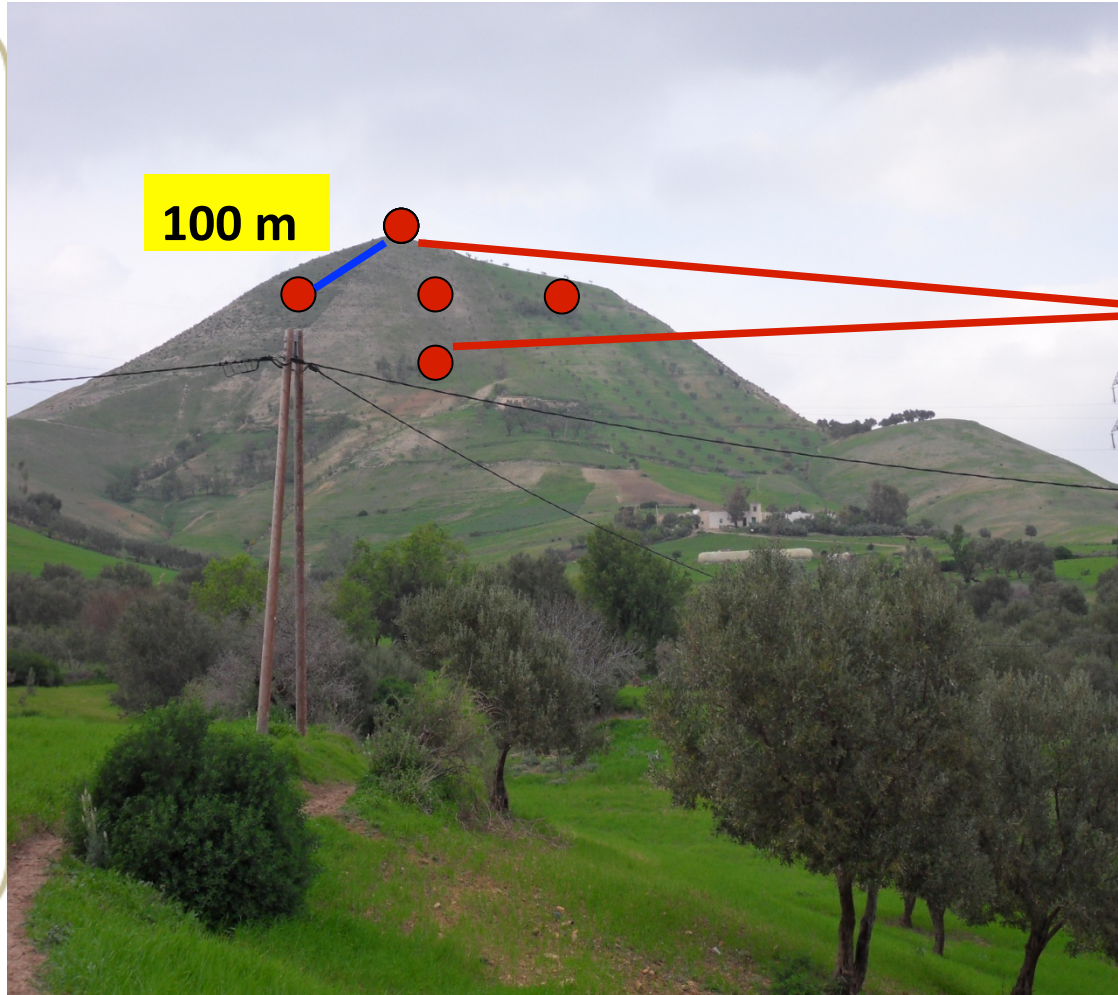
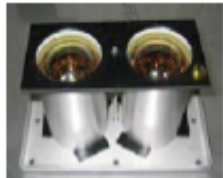
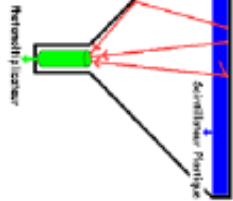


Valley 400 m asl
Width from 6 to 15 km
2 Km from TAZA

NOY : Detector and Site

Scintillator

80x80x4

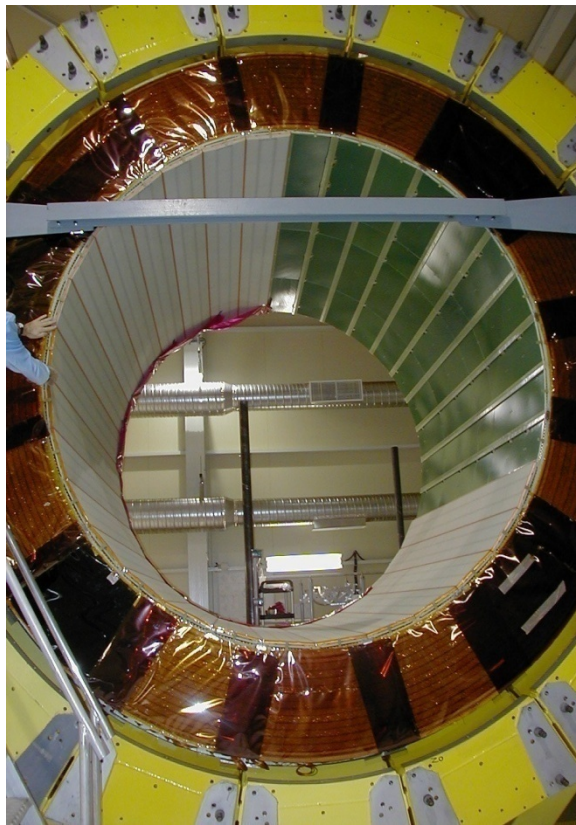
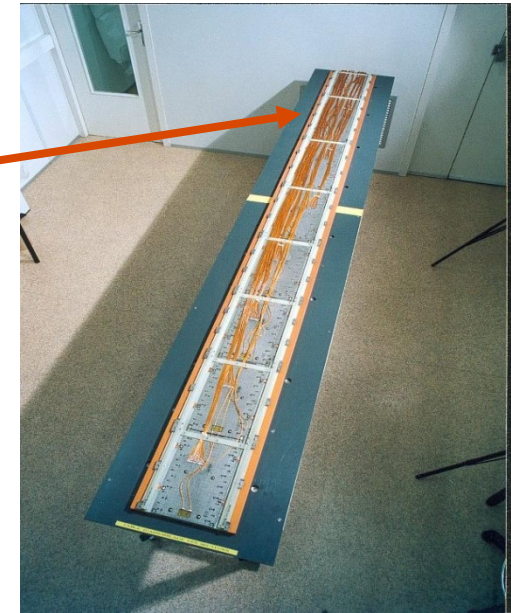
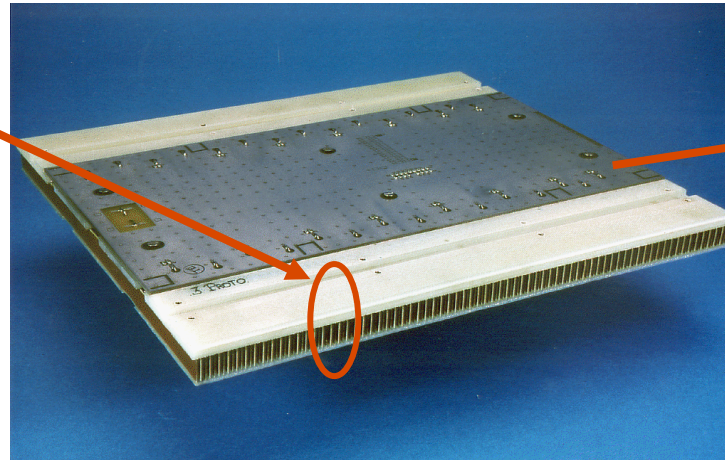
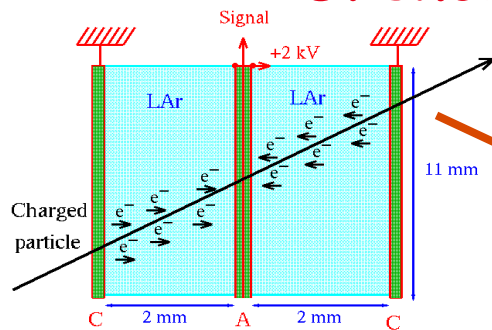


جامعة الحمّن الثاني . عين الشق

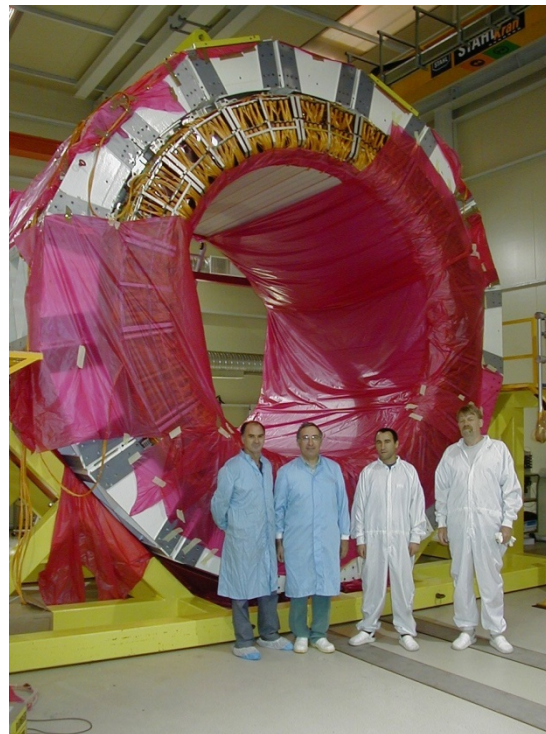


THANK YOU

Presampler of the ATLAS E.M. Calorimeter Grenoble (LPSC) – Stockholm and Morocco



1 wheel of 32 sectors



Since 1996 our participation focus on :

- Construction of the presampler
- Prototype Beam test (shifts, ...)
- Beam test data analysis
- Installation and commissioning in the ATLAS pit
- Electronic calibration
- Cosmic Data analysis
- First LHC Data analysis