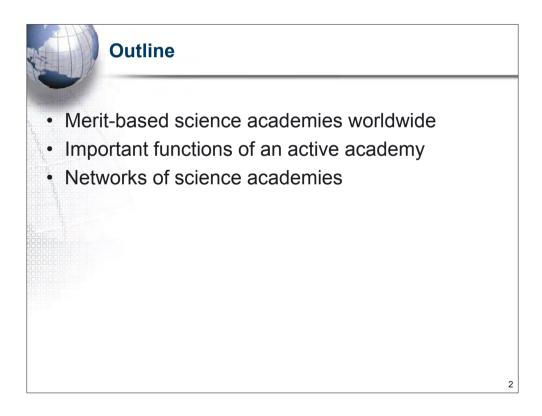
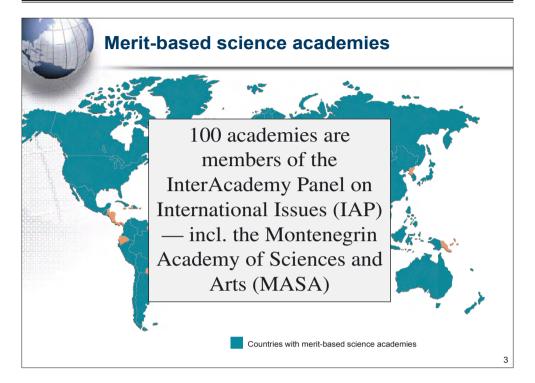
**Prof. Mohamed H. A. HASSAN** Executive Director, TWAS and IAP President, AAS and NASAC

## **Promoting the Role of Merit-Based Science Academies**\*



The paper is a Power point presentation delivered at the Conference.



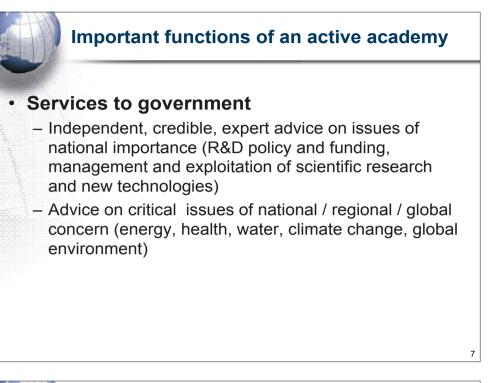
North America	2
Latin America and Caribbea	.n 11
Middle East and North Afric	ca 7
Sub-Saharan Africa	12
Europe and Central Asia	46
East Asia and Pacific	10
South Asia	7
Regional / Global	5
Total	100



## Important functions of an active academy

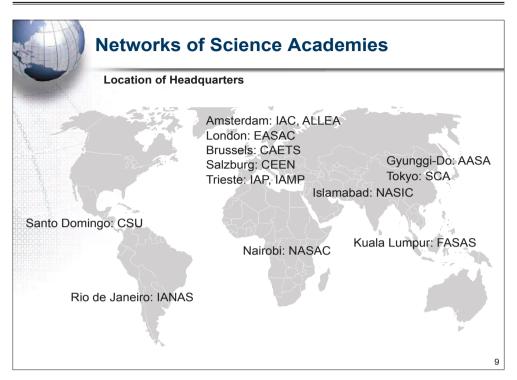
## Services to general public

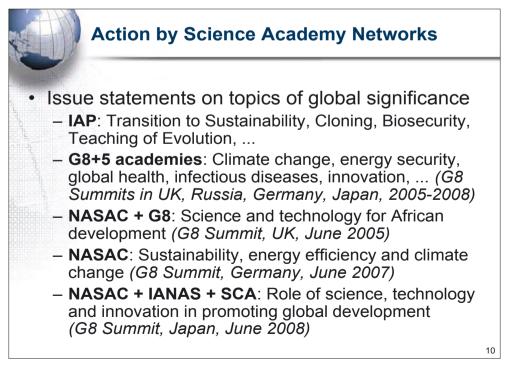
- Promoting public understanding of science (discussion meetings, public lectures, media and science centres connections)
- Promoting science education (national science education policy and standards, quality of curriculum and teachers)

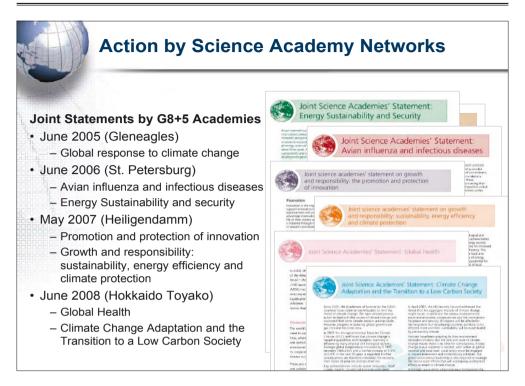




- Academies of science, medicine and engineering worldwide joined forces and formed networks
  - Global: IAP, IAMP, CAETS, IAC
  - Regional: NASAC, NASIC, IANAS, FASAS, AASA, SCA, CSU, EASAC, ALLEA, CEEN







## **Action by Science Academy Networks**

- Joint statement by academies of G8 countries and NASAC to G8 summit in Scotland in June 2005
- NASAC statement to
  AU summit in Addis Ababa, Ethiopia, in January 2007
- NASAC statement to G8 summit in Germany in June 2007
- NASAC statement to TICAD and G8 summit in Japan in May and June 2008



Joint statement by the Network of African Science Academies (NASAC), the Inter-American Network of Academies of Sciences (IANAS) and the Science Council of Asia (SCA) to the G8 on the role of science, technology and innovation in promoting global development.

On the occasion of the G8 Summit in Hokkaido, Japan, 7–9 July 2008, we, the members of the Network of African Science Academies (NASAC), the Inter-American Network of Academies of Sciences (IANAS) and the Science Council of Asia (SCA), submit the following statement to the leaders of the G8+5 countries on the role of science, technology and innovation in promoting global development, fostering human welfare and reducing global poverty as called for in the Millennium Development Goals (MDGs).

Recent global economic growth has been placed at risk by turbulence in financial markets. Yet, between 1998 and 2007, global gross domets product (CBO) more than doubled. Between 2004 and 2007, it increased at an annual rate of nearly 4 percent. Moreover, for one of the fevs times in history, economic growth in the developing world exceeded economic growth in the developed world.

Sub-Saluran Africa, the world's poorest region, has actively participated in and benefited from these ecent teerods. Between 2000 and 2003, sub-Saluran Africa's CDP rose 3.7 percent annually. Between 2004 and 2006, the regions annugooth in CDP accelerated to S Secont a year, and in 200 CDP growth resched Seconters. This represent site most valured period de concornic growth in sub-Saluran Africa activation of period de concornic growth in sub-Saluran Africa and acceleration of the sub-Saluran Africa activation of period de concornic growth sub-Saluran Africa and acceleration of the sub-Saluran Africa acceleration of the sub-Saluran ac

This good news nevertheless does not hide the troubling news coming out of Africa. More than 40 percent of African like in externer poverty. More than 70 percent like vor less than USS2 a day. Score 36 million African are infected with the Ward an estimated 2.5 million de of ADS each year. More than 40 percent of Africans do not have access to safe division water. More than 70 percent do not have access to electricity. Accrements no work have the the

The dispinities are due partly to historical circumstances and partly for misguided economic policies that have resulted in weak institutions and rendered a large number of heat privileged countries unattractive places for investment. But the dispanities are also due to another factor: massive differences in the ability to generate, master and utilize science, technology and innovation.

One of the most critical issues that the global community faces is to continue to foster GDP growth and, at the same time, to make growth and human welfare more equitable. Building broad-based capacity in science, technology and innovation is fundamental to addressing these issues.







- Publish reports on issues of critical importance to sustainability
  - IAC reports: Towards a Sustainable Energy Future, Women for Science, Inventing a Better Future, Realizing the Promise and Potential of African Agriculture



## Action by Science Academy Networks

Assist academies in developing countries to build their capacity to provide independent and authoritative advice to government



- Reform science education worldwide by promoting Inquiry-Based Science Education (IBSE)
  - Engage students in active investigations to enhance their problem-solving skills







# **IAP Young Scientists**

More than 50 outstanding young scientists, selected through a competitive, merit-based process are participating in the World Economic Forums' "Summer Davos", Tianjin, China, 26-28 September 2008





# **CEEN** academies' involvement in IAP

IAP Member Academy	GA Mexico (2003)	GA Egypt (2006)	Cloning (2003)	Biosecurity (2005)	Evolution (2006)
Academy of Sciences of Albania	+		+	+	+
Academy of Sciences and Arts of Bosnia and Herzegovina		+		+	+
Bulgarian Academy of Sciences			+	+	+
Croatian Academy of Sciences			+	+	+
Academy of Sciences of the Czech Republic	+		+	+	+
Estonian Academy of Sciences			+	+	
Hungarian Academy of Sciences	+		+	+	+
Macedonian Academy of Sciences and Arts			+	+	+
Academy of Sciences of Moldova		+	+		
Montenegrin Academy of Sciences and Arts				+	
Polish Academy of Sciences	+	+		+	+
Romanian Academy		+	+		
Serbian Academy of Sciences and Arts		+		+	+
Slovak Academy of Sciences and Arts		+		+	+
Slovenian Academy of Sciences and Arts				+	+

# **CEEN – IAP Future Collaboration**

- Participation of CEEN Members in 2009 call for proposals
- Participation of CEEN in IAP IBSE programme
- Organization of conference for young scientists in conjuction with CEEN general meeting
- Participation of all CEEN Members in IAP general conferance t be hosted by RS in London in Jan 2010