



**Sports Equipment
and Technology in
Developing Nations:
Grass root initiatives
to enhance
parasports in Kenya**



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**Dr. Peter Bukhala
Kenyatta University/
Masinde Muliro University
Kenya**

Sports equipment and technology

- An issue for developing countries
- Restrict participation and performance in disability sports.



- Most athletes from developing nations compete in sports that do not require sophisticated equipment.



AFRICA AT LONDON 2012

Region	NPC	Total	%
Africa	41	307 (222m,85f)	7.2
America	28	803	19
Asia	41	854	20.2
Europe	47	2085	49.2
Oceania	8	188	4.4
Total	164	4237	100

Very few athletes
qualifying from each
African NPC

AFRICA AT LONDON 2012

Very few countries from Africa participated in sports requiring use of prosthesis, wheelchair or bicycle

Africa	NPC	medal
Wheelchair	6	11
Prosthesis Track	19	18
Wheelchair Field (Club throw)	4	1
Wheelchair Field (Discuss) javelin	3	3 2
Wheelchair Field (shot putt)	5	4
Wheelchair tennis	4	0
Bicycle	3	0

Challenges

Lack of facilities or limited access to existing facilities is often problematic in developing countries.



Equipment



- Paraports equipment cited as a major hindrance
 - to sports participation by individuals
 - Importing equipment expensive

- **Reliance on donated equipment that sometimes not serviceable**



Lack of appropriate equipment continues to limit the number of sports that athletes participate in.





**Crutches made from
wood used for mobility
and sports such as
amputee football**



When they compete with those using technologically advanced equipment, they are always disadvantaged.



- **As technology and assistive devices continue to advance:**
 - **widening gap between developed and developing nations in performance of athletes**



Awareness and compassion



A Kenyan runner passes water to a dehydrated Chinese runner

<http://t.co/FGIacY9dLo>

Missed US\$10,000 cash prize



Grass root initiatives

Introducing Wheelchair Tennis at Kenyatta University



Coach conversion



Multiple use of equipment



BNP PARIBAS WORLD TEAM CUP WHEELCHAIR TENNIS



2011

- **International competition**
- **Variety of wheelchairs from different countries - donated**
- **Also a training moment for all players**
- **Only standard court -private**

Adaptation



Capacity Building workshops



Working with others to enhance capacity among coaches and sports managers



Research Initiatives

- **Support from IPC through the Sports Science Committee**
 - **Workshops**
 - **Student supervision**



Association for persons with physical disabilities of Kenya



- **Established in the 70s as a nongovernmental organization**
- **Makes wheelchairs, tricycles and other assistive devices for mobility for the East African region**



- From 2009 in partnership with CBM and Stanchart Bank
- Empowers PWD to participate in the annual Stanchart Marathon

Standard Chartered Nairobi Marathon Participants and Gender distribution

2012 Gender distribution

Category	Male	Female	Totals
Tricycles	62	12	74
Wheel Chair	10	5	17
Totals	72	17	89

Prototype equipment

Motivation



APDK



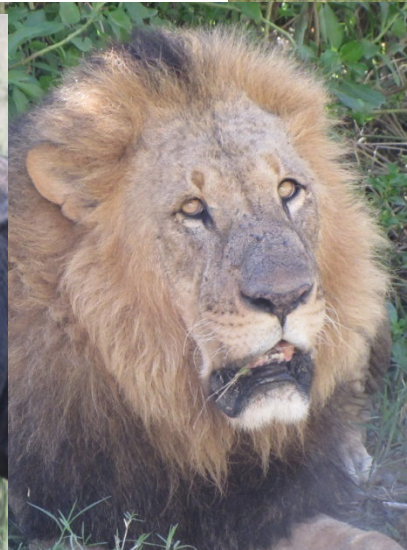


➤ **What next**

- **Need for partnership in enhancing local efforts**
 - **Share technology**
 - **Skill development**
 - **Joint research on possibilities**
 - **Donations not a lasting solution**



Welcome to Kenya



peterbukhala@yahoo.com