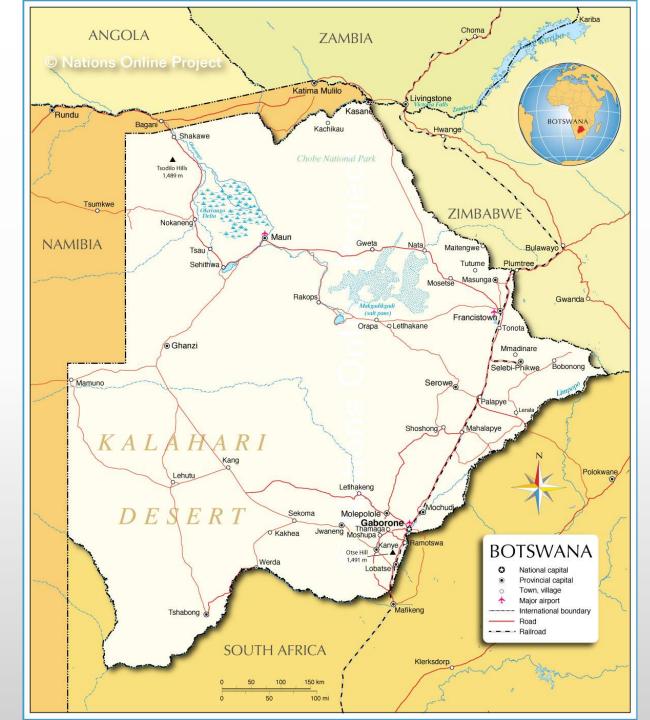
# Physics at Life Gaborone Private Hospital Botswana: An Overview

Remigio Makufa

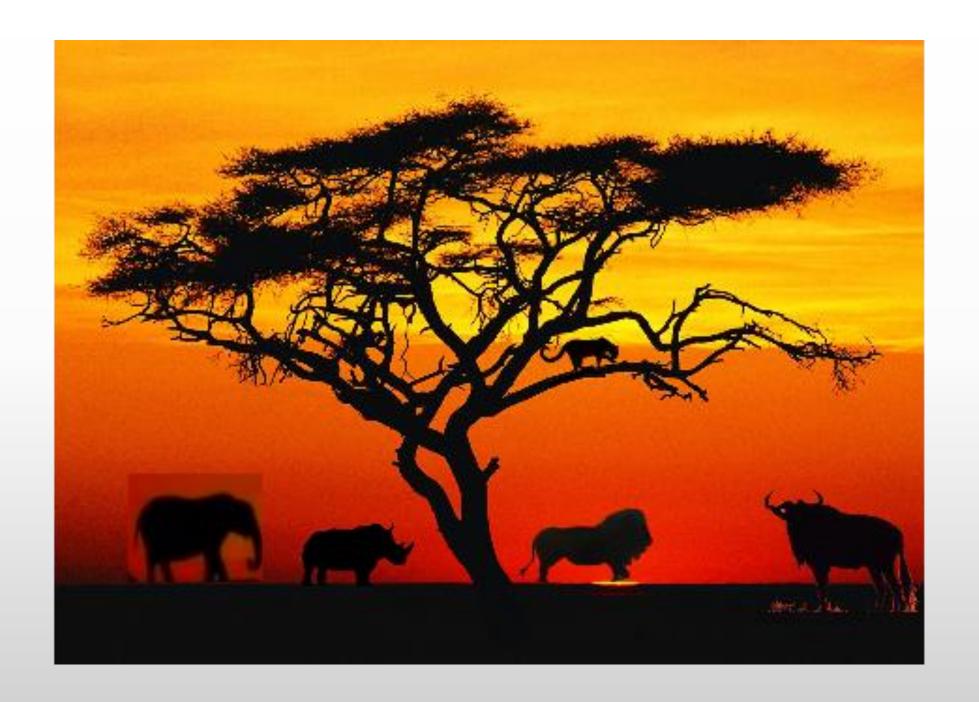




#### Population: 2.021 million (2013)

The Okavango Delta is the largest inland delta in the world

Botswana is the worlds biggest diamond producing country in terms of value and the second biggest in terms of production.



## **MPULE**





2001

5000 + PTS

2015

Year(s) Manufactured	1997-2005	2013 & newer
Power Source	Magnetron	n
Photon Energy Configuration	6, 10	6, 10
<b>Electron Energies</b>	6, 8, 10. 12	4, 6, 8, 10 , 12
Multi-Leaf Collimator	NONE	160 Agility MLC (Field size 40x40cm, leaf thickness-5mm)
Portal Imager (EPID)**	NONE	iViewGT(Amorphous Silicon)
Treatment Delivery	3D	3D, IMRT, VMAT, SRS, SRT, SABR
СВСТ	NONE	XVI
Stereotactic Radiosurgery		
Treatment Couch	Precise	Hexapod (6 degrees of motion)
FFF	NONE	YES

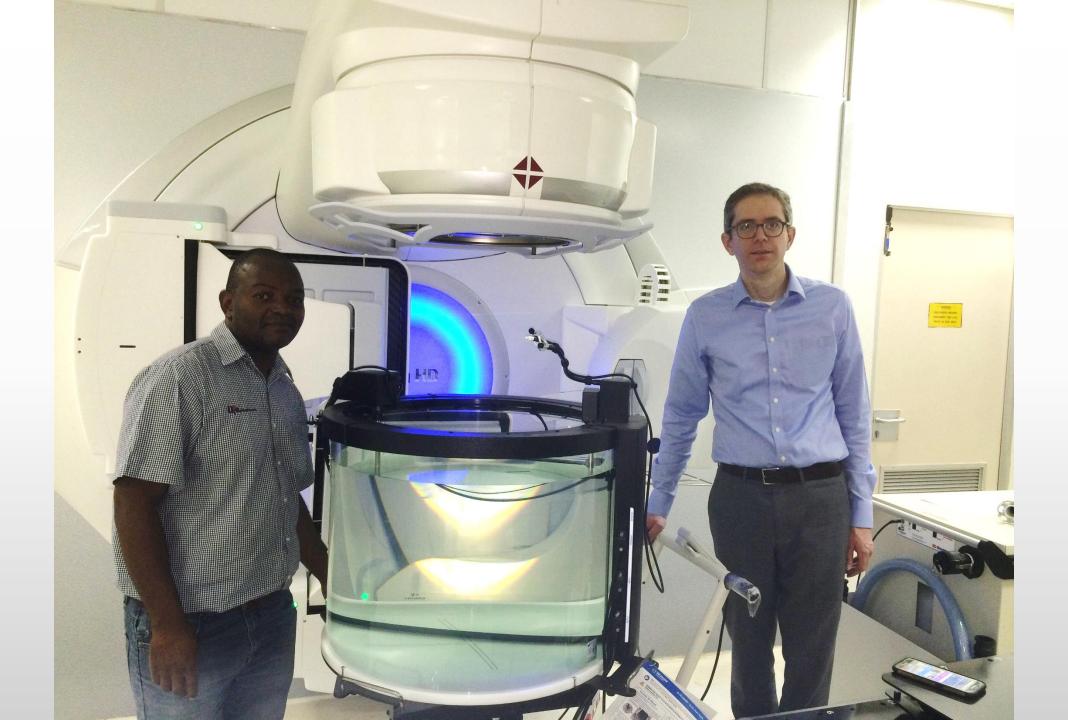














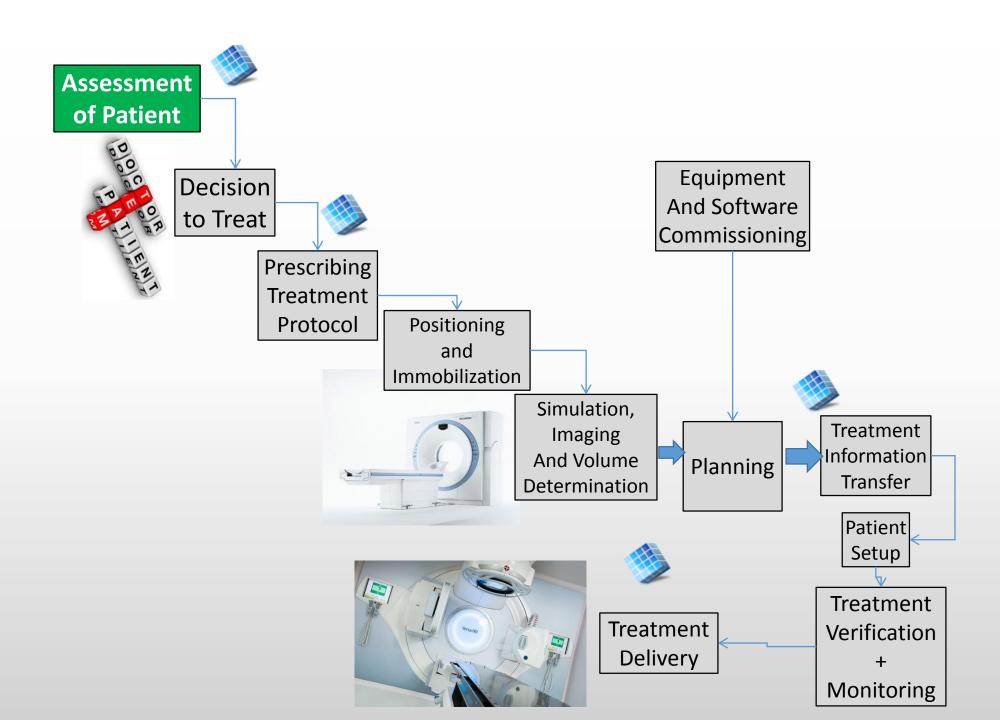


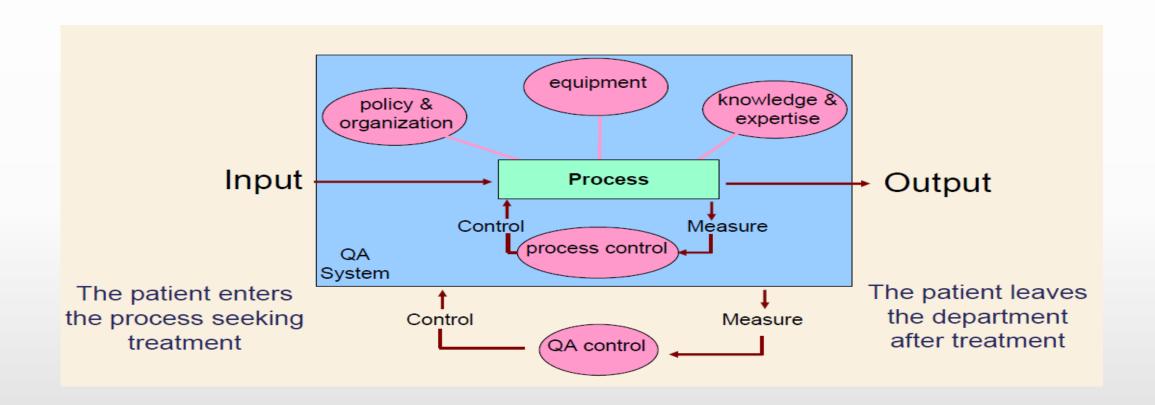


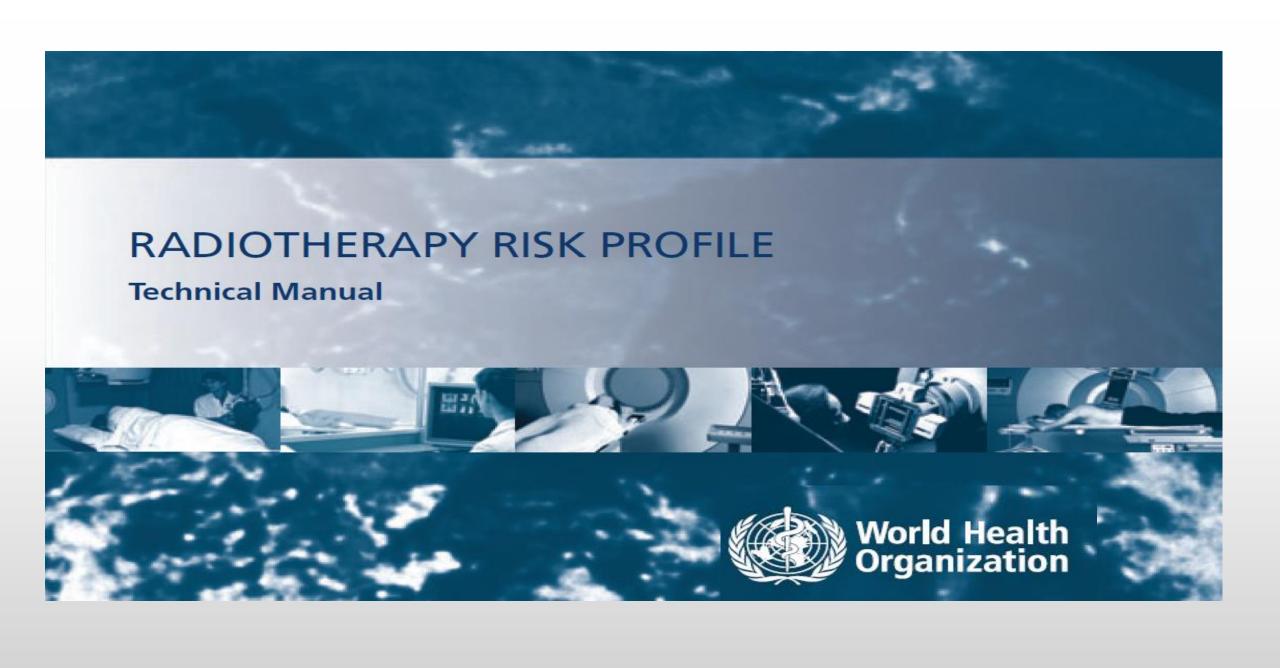
## **SERVICE LAUNCHED 2011**











Our job is not to prevent errors, but to keep the errors from injuring the patients.

Lucian Leape

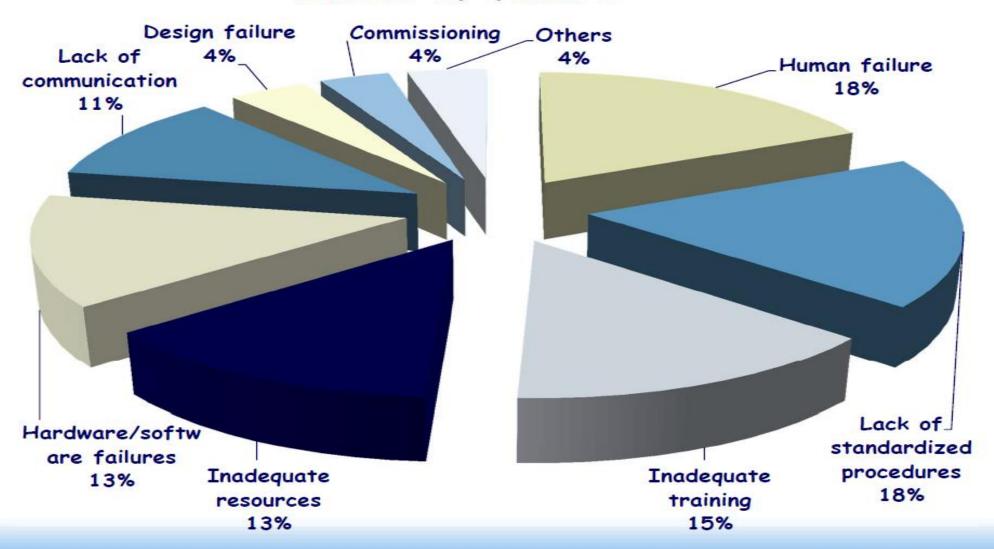
It is useful to report all accidents before consequences appear

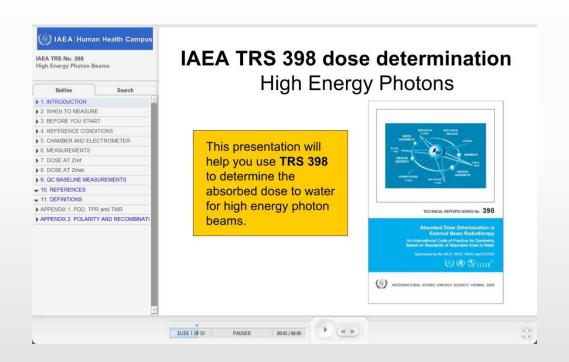
It is impossible to make anything foolproof because fools are so ingenious.

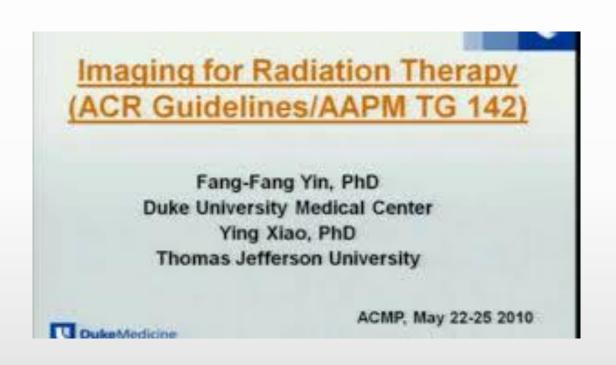
Artur Bloch, Murphy's law

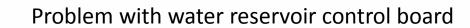
Courtesy: Josef Novotny

#### Causes of failure

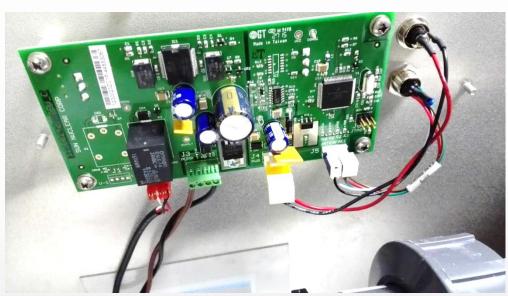
















IAEA/WHO SSDL









**MGH Dosimetry Lab** 



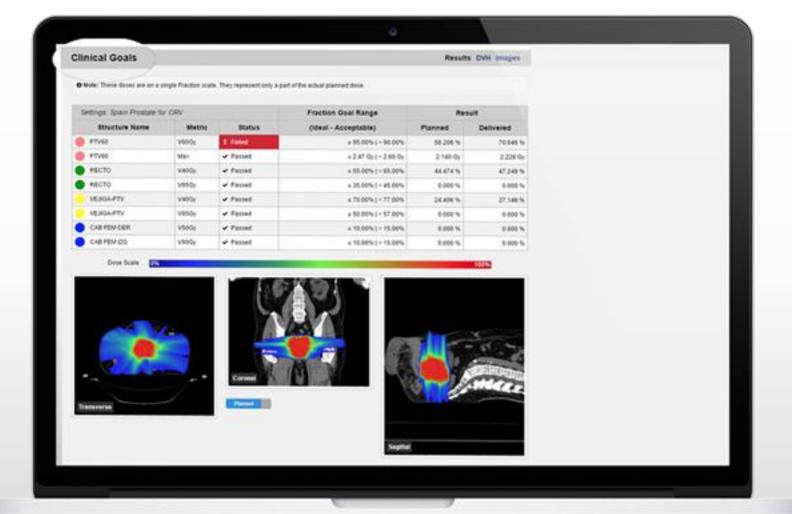
South African Bureau of Standards



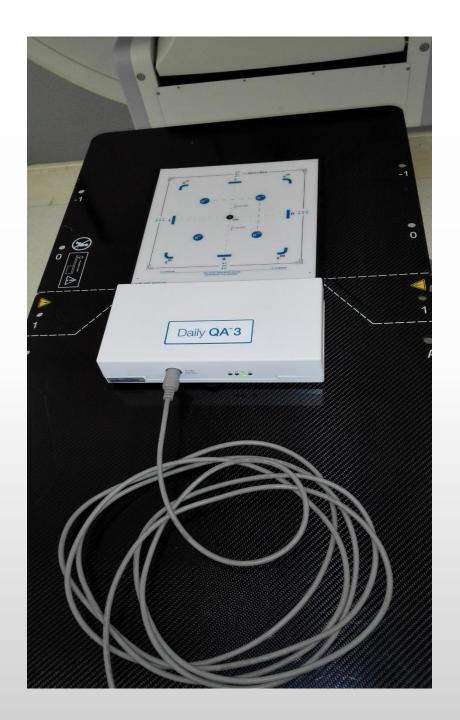
## Monaco® 5.11

Oncentra® Brachy

**MOSAIQ 2.64** 









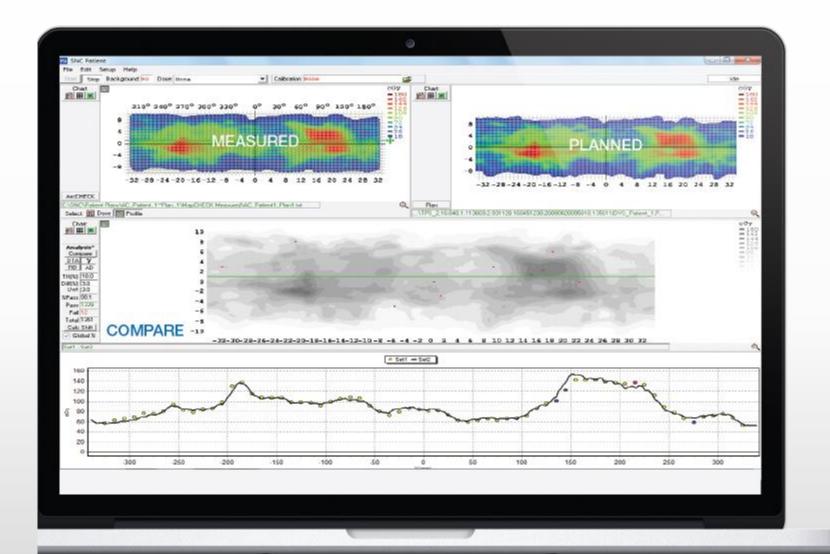
### IVD<sup>™</sup>2 & rf-IVD<sup>™</sup>2

### **Therapist Friendly - Physicist Approved**



Where are we going from here?

## IMRT VIVIAT



## Thank you