

# **INCOSE SA CONFERENCE 2015**

# GREATEST YOUNG SYSTEM ENGINEERS OF THE YEAR -GYSEOY

PROUD INNOVATORS OF COMPETITIVE MISSILE AND UAV SOLUTIONS

#### **DENEL DYNAMICS TEAM**

ELSABE EBERSOHN

JEFF JOSEPH

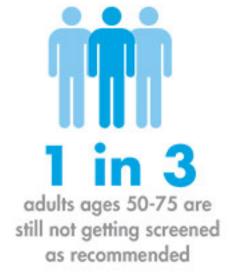
YOSHLYN NAIDOO

PURUSHA NAIDOO



#### THE CHALLENGE

- Follow a System Engineering approach, using CORE, to develop a specification for a system with the following mission:
  - Early Detection of Colorectal Cancer
- Client Requirements:
  - Preferably Non-invasive
  - Make Economic Sense
  - Feasible
  - Based on Mature Technology



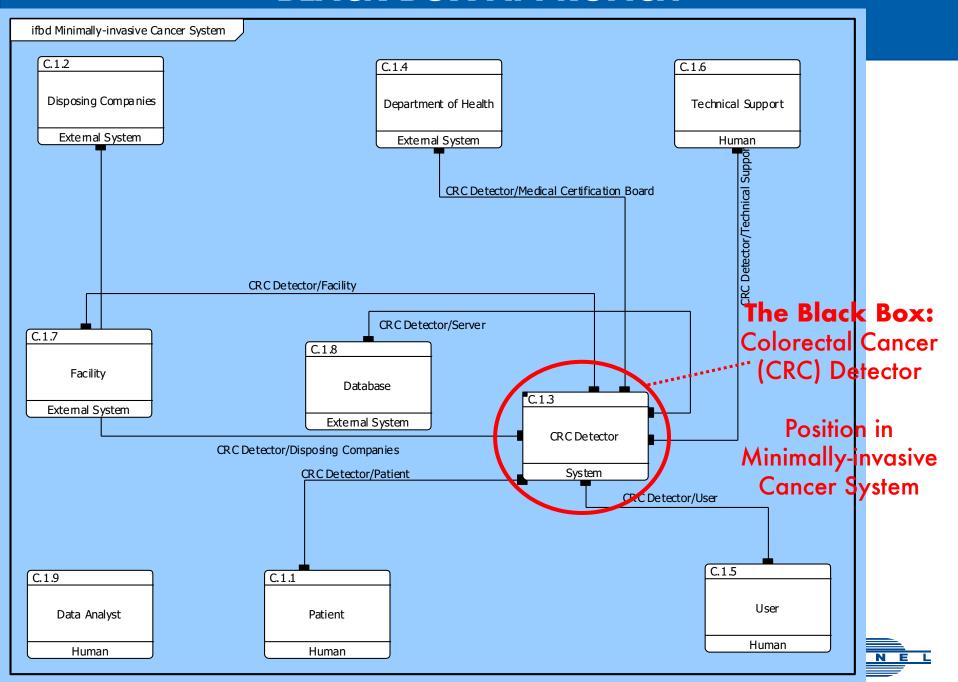


9 OUT OF 10

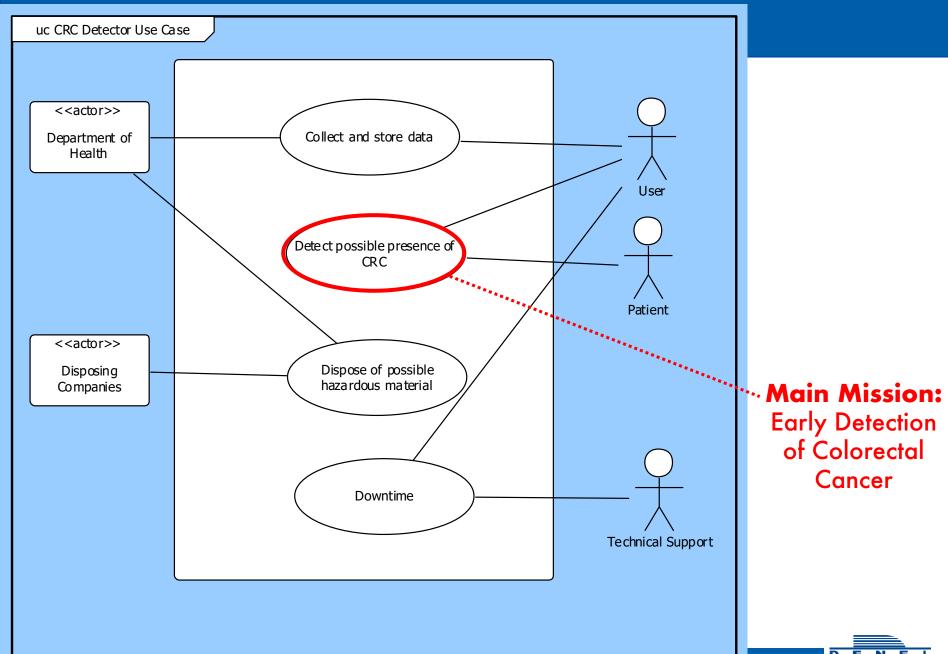
CASES OF COLORECTAL CANCER CAN BE TREATED SUCCESSFULLY WHEN FOUND EARLY.



#### **BLACK BOX APPROACH**



## **CRC DETECTOR USE CASE DIAGRAM**



### **CRC DETECTOR STATES**

