



Education & Public Outreach in Radio Astronomy with the SKA South Africa (doi:10.1088/1757-899X/67/1/012016)

> Nadeem Oozeer, PhD (SKA SA/AIMS/NWU) Data Scientists (On behalf of the outreach team) SKA SA – Africa HCD

What is outreach ?



Spacewalk to fix Hubble Space Telescope



"For most science news to get printed these days it has to involve big bang, big bucks, big screwup, or big comeback—and with Hubble you've got them all."¹ A writer for the New York Times



Smile FM

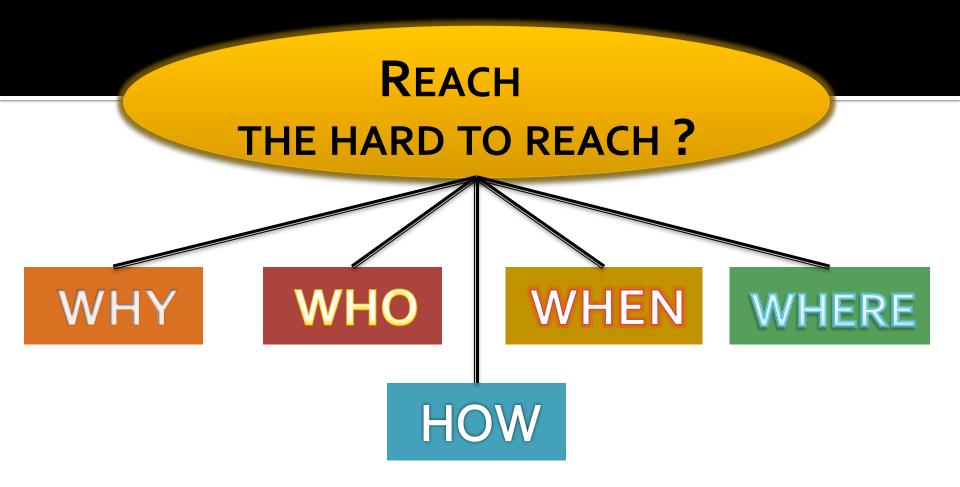
- Sensitize the
- Water warriors (name selected by public)
 - Facebook group over 3ok followers within a month
 - Primary School visit
 - Car stickers General public
 - Grey water system, competition
- Water consumption reduced from over 850 ML to just above 750 ML

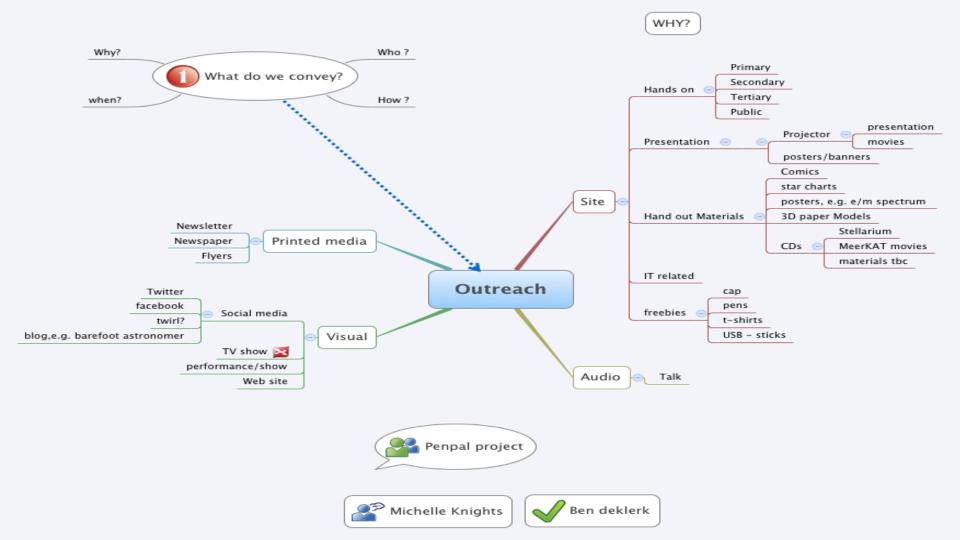
OUT-REACH / IN-REACH

- **share** our research and let us discuss scientific issues with you
- connect the public to the fun and excitement of science at a leading research university
- **cultivate** an interest and appreciation of science
- shows how the research-intensive university contributes to society
- makes science education accessible and interactive for students, teachers, and the community



- Disseminates our scientific expertise to a wider community
- Contribute to create awareness about astronomy in general, and the SKA Africa in particular
- Excite young people Science Technology Engineering & Mathematics (STEM)







"If I have seen further, it is by standing on the shoulders of giants"... Isaac Newton

- Most evolutionary advantage humans possess is the ability to communicate.
 - Transgressions can occur !!!
- Respect, Political issues, Religious belief & Culture
- Scientist work together
- Inadvertent publicity !!!

EXPERIENCE IT





MPROVISE





INVOLVE/PLAY



SATISFACTION







UNDERGRAD TRAINING







SciFest





"ALTERNATE" OUTREACH





OUTREACH BEYOND BORDERS





OUTRAGEOUS OUTREACH

Among the flood of information and noise, unconventional outreach is necessary also to position an organisation as "a thought leader" (Weinberg, 2009)

- How do we make sure that people know that we exist?
- How do we make sure that people receive relevant and timely results?
- How do we get people to like us?

(Oana Sandu – CAP, 2011, Vol 11)



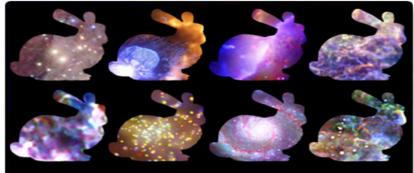
Image credit: CAP Journal, 2011, vol 11





Credit: Me, Pedro Russo (UNAWE), CAP, Chandra





LET THE JOYS OF THE SEASON MULTIPLY.

UNCONVENTIONAL OUTREACH



SAAO: Ferrari visit



Credit: SAAO

Science Communication

- Mass media
 - Radio talk show
 - TV shows
 - Women week
- FameLab
- Faces of Africa CCTV
- https://www.youtube.com/ watch?v=AnB1U1K4OVM
 StarBiz



CHECK LIST

Planning Budgeting everything Testing Recording Communicating Reporting Communicating



THE SCIENCE NEWS CYCLE



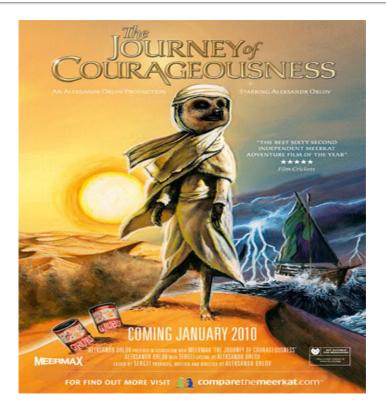
Reporting

- Context, visualization
- Relate to audience
- Simplify term
- Lose the jargon
- Define all unfamiliar terms
- Minimize acronym
- News agreement
- Get professional support



CONCLUSION

- Sharing of ideas and concept without boundaries has enabled scientists to make significant progress.
- Our future depends on everyone
- Who can prepare the future generation better if not us !!!



THANK YOU

facebook



nadeem[at]ska.ac.za