

# COMMUNICATING BIG SCIENCE





# M J Schwartz

#### **UNIZULU Science Centre, South Africa**





#### Scientific research that requires massive capital investment but is expected to yield very significant results





# **BIG BUDGETS**

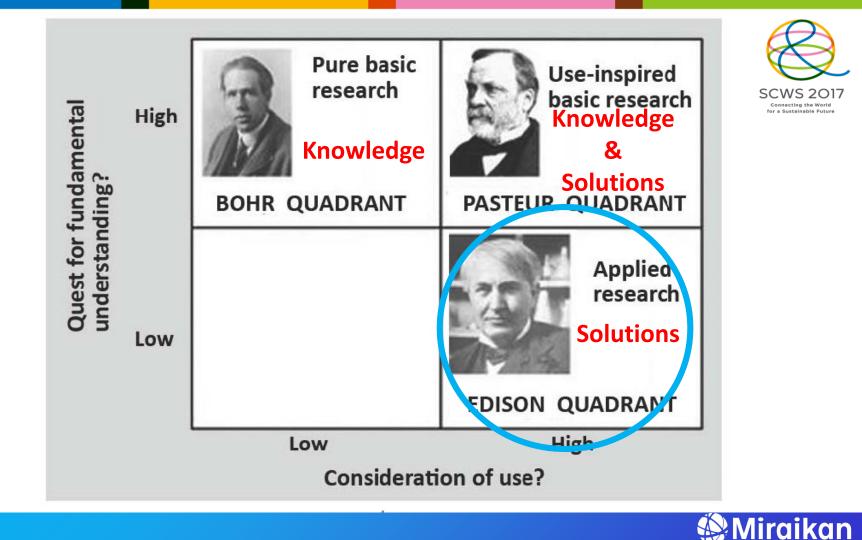
# **BIG STAFF**



## BIG LABORATORIES BIG NACHINES







B. FRANKLIN



Is A Newborn Baby?

Franklin's enthusiasms included an avid interest in scientific experiments. In 1783 he watched the flight of two French balloonists who took off from Paris and landed only seven leagues away. Asked what possible good this new toy could be, Franklin replied, "What good is a newborn baby?"

PRIVATELY PRINTED FOR

DEPOL

What Good

PRINTING WEEK IN NEW YORK · 1964

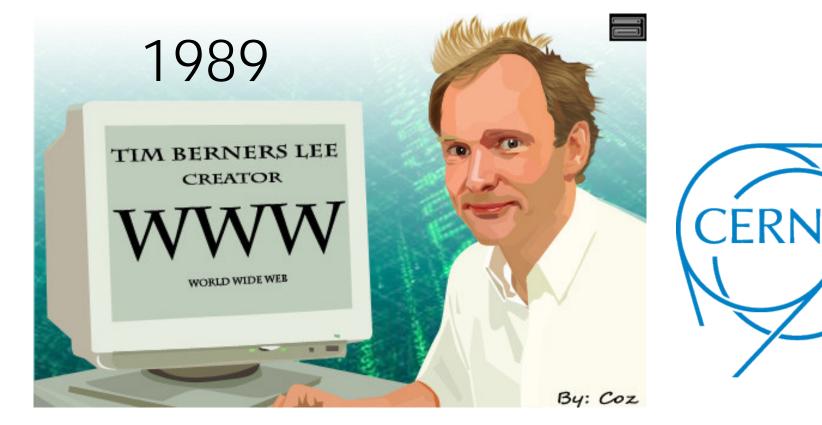
















# BIG SCIENCE WIN WIN

SCWS 2017

Connecting the World for a Sustainable Future



# **OBSTACLES**

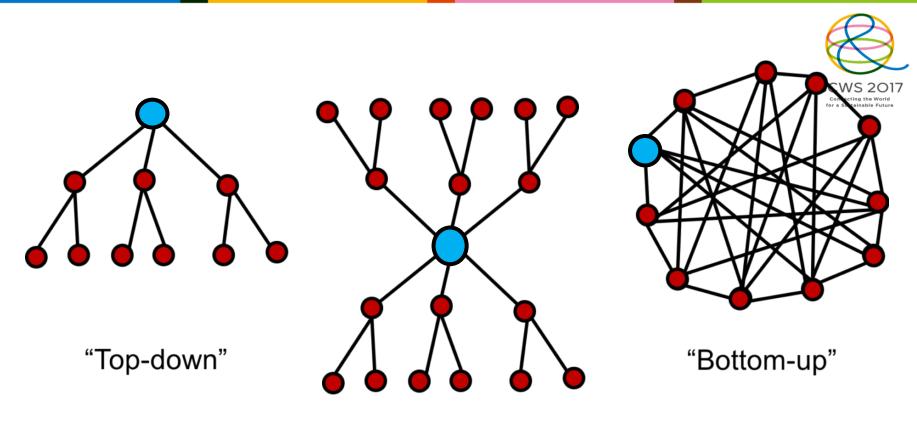


- Location
- Budget
- Too small to be noticed
- Low priority
- Out of comfort zone
- Failure to relate



Connecting the World for a Sustainable Future





"Middle-out"





# APPROACH TO COMMUNICATING BIG SCIENCE



# **OBSTACLES**

- Location
- Budget
- Too small to be noticed
- Low priority
- Out of comfort zone
- Failure to relate





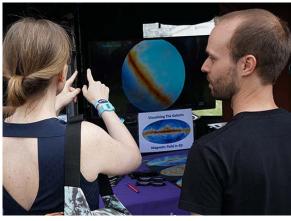
# SIMULATED ENVIRONMENTS

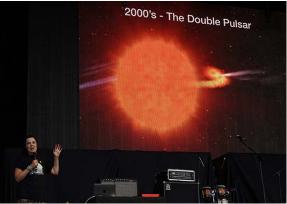


### Miraikan, Japan



UNIZULU SCIENCE CENTRE













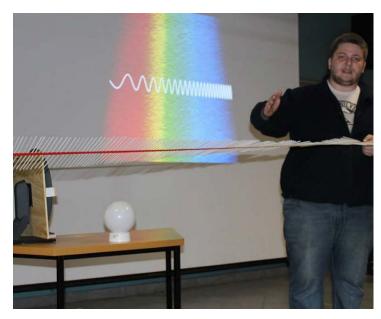






















#### **ASTROROCK FEST IN MT.MAGNET, AUSTRALIA**











UNIVERSITY OF BIRMINGHAM

























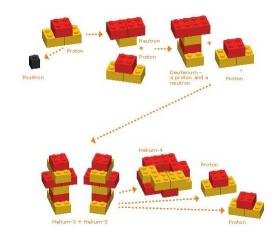




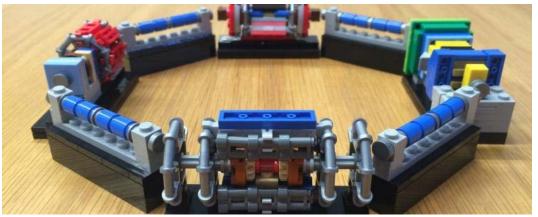
















#### **VIRTUAL ACTIVITIES**







**ATLAS VIRTUAL VISIT-**

BIRMINGHAM

### **ADOPTED RESOURCES**



T	HE PARTICLE ADVENTURE THE FUNDAMENTALS OF MATTER AND FORCE
SEARCH	GLOSSARY - MOME
THE STANDARD MODEL	Credits and Acknowledgements
ACCELERATORS AND PARTICLE DETECTORS	The Particle Adventure is a constantly evolving educational project sponsored by the Particle Data Group of the Lawrence Berkeley National Laboratory (LBNL).
	Project History:
HIGGS BOSON DISCOVERED: FREWORKS ON THE 4 <sup>th</sup> OF JULY UNSOLVED MYSTERIES	Supervision by Michael Barnett and Andria Erzberger.
	2008/2013 Revisions: Paul Schaffner
	2000 Revision: Lincoln-Shaun Sanders
	1999 Revision: Joshua Lewis and Chuck Groom
	1996 Revision: Chuck Groom
PARTICLE DECAYS AND ANNIHILATIONS	1995 Web Version: Carolyn Mockett
	Forerunner Supercard (TM) application developed by Andria Erzberger and her students, with physics assistance from Michael Barnett (LBNL) and Helen Quinn (SLAC), and technical assistance from James Quinn.
	Other Thanks:
	We would also like to thank the members of the Particle Data Group at LBNL, in particular Betty Armstrong and Piotr Zyla.



#### WE NEED YOU! TO MAKE IT HAPPEN

