

# Cloud – Really?

Tim Carroll

Vice President, Strategy & Ecosystem

# I think I just got called stupid...



2002

2006

2010

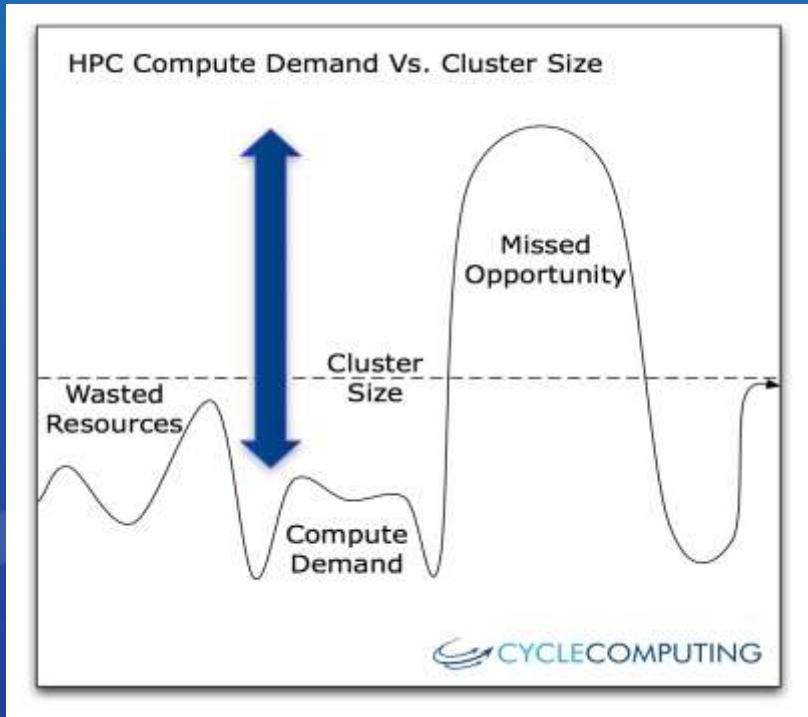
2014



Cycle Computing



# Building HPC Systems is Nerve Wracking



- A cross between building a stadium and upgrading your smartphone....
- The capex/opex balancing act
- Staff retention and training
- No do-overs
- And these systems are our most important tool

# The Jelly is Out of the Doughnut



- Have 7600 - need 10,000
- 3 promising compounds
- “Simple, flexible & secure”



- 10TB helium filled HD with shingled magnetic recording that overlaps tracks to improve density
- Why not cloud?



- Auto-scaling and on-demand workloads on GovCloud for job-specific requirements
- Not yet mimicking internal clusters

2011

2012

2013

2014

2015

# What Next? Think 2016

Talk to lots of people, CSPs & your current vendor

Beware of the great 40% dismissal – CSPs are fluid so the math is too

Look beyond cores:  
Cloud is compute, data and collaboration

Setting up an account in 2014 is easier than scrounging servers and NICs in 2003

How could this be harnessed to make it simple, flexible and secure for your users?