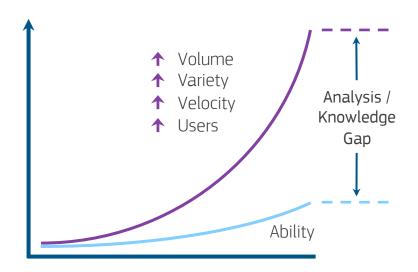
Big Data Challenges in Bioinformatics – The Collision of Technology and Biology

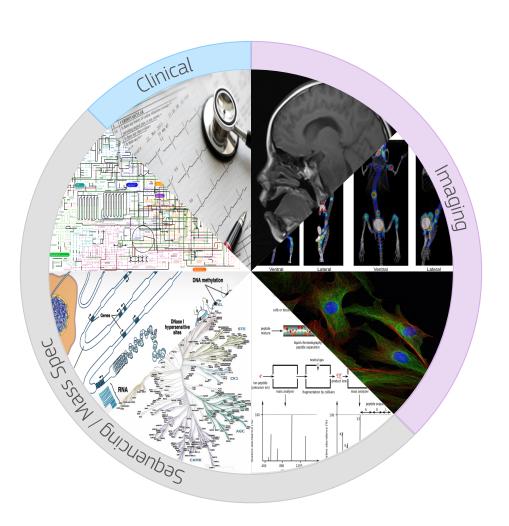
Mary E. Winn GVSU Big Data Conference April 25, 2014



Van Andel Research Institute

The growing gap between production and ability

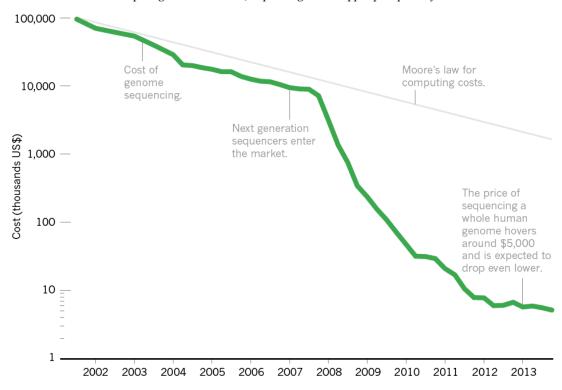




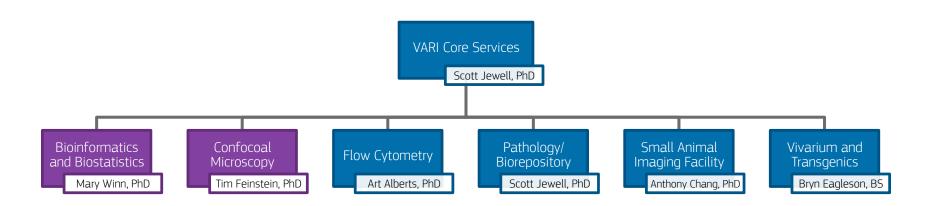
Cost to produce data is falling...

Falling fast

In the first few years after the end of the Human Genome Project, the cost of genome sequencing roughly followed Moore's law, which predicts exponential declines in computing costs. After 2007, sequencing costs dropped precipitously.

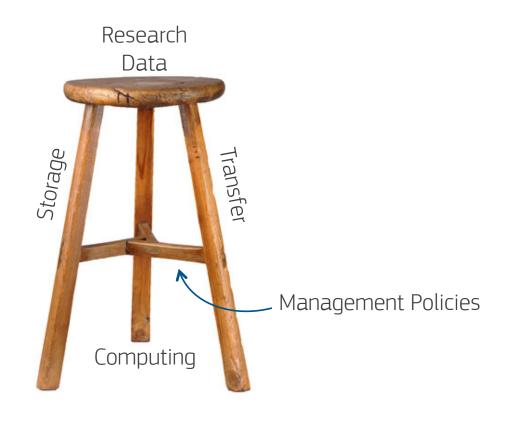


...while support is growing (at least at VARI)





And so we are faced with supporting big data



So is the NIH

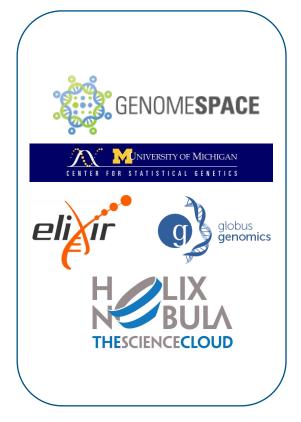
- Enable Data Utilization
- Develop and Disseminate Analysis
 Methods and Software
- Enhance Training



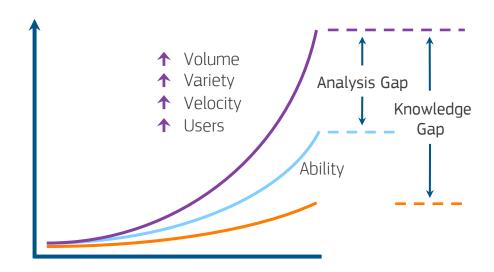
And people find their head in the clouds







But is it good to have our head in the clouds?



Questions?