



OVERVIEW OF TACC RESOURCES FOR UTHEALTH

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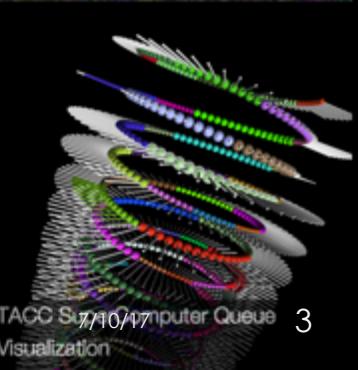
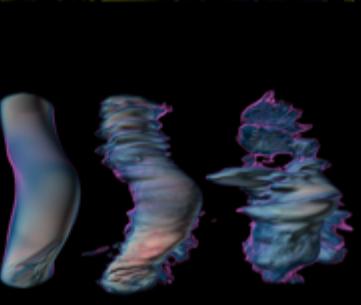
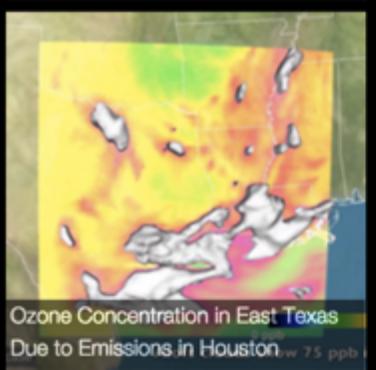
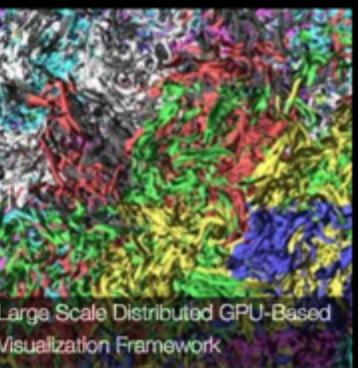
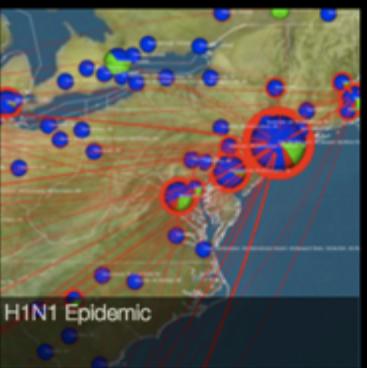
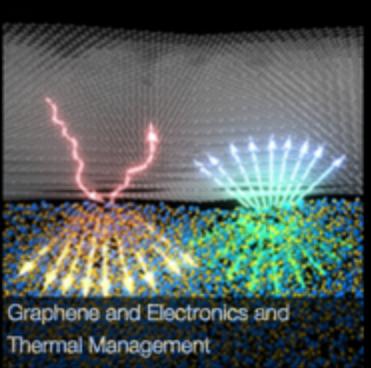
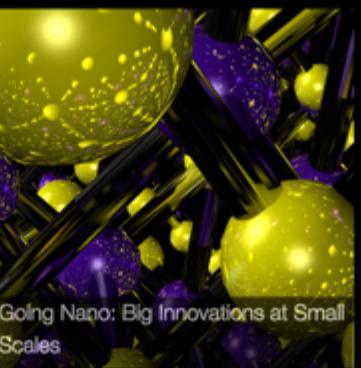
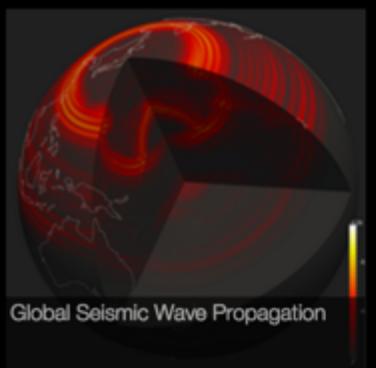
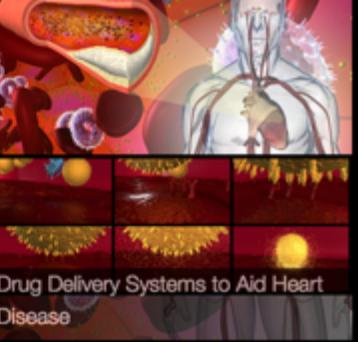
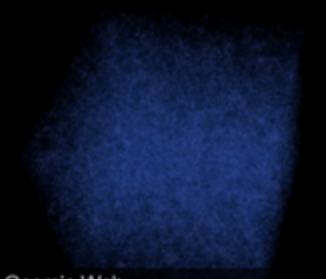
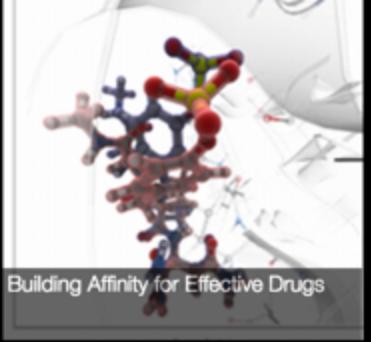
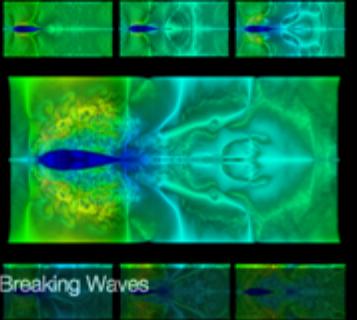
TACC AT A GLANCE

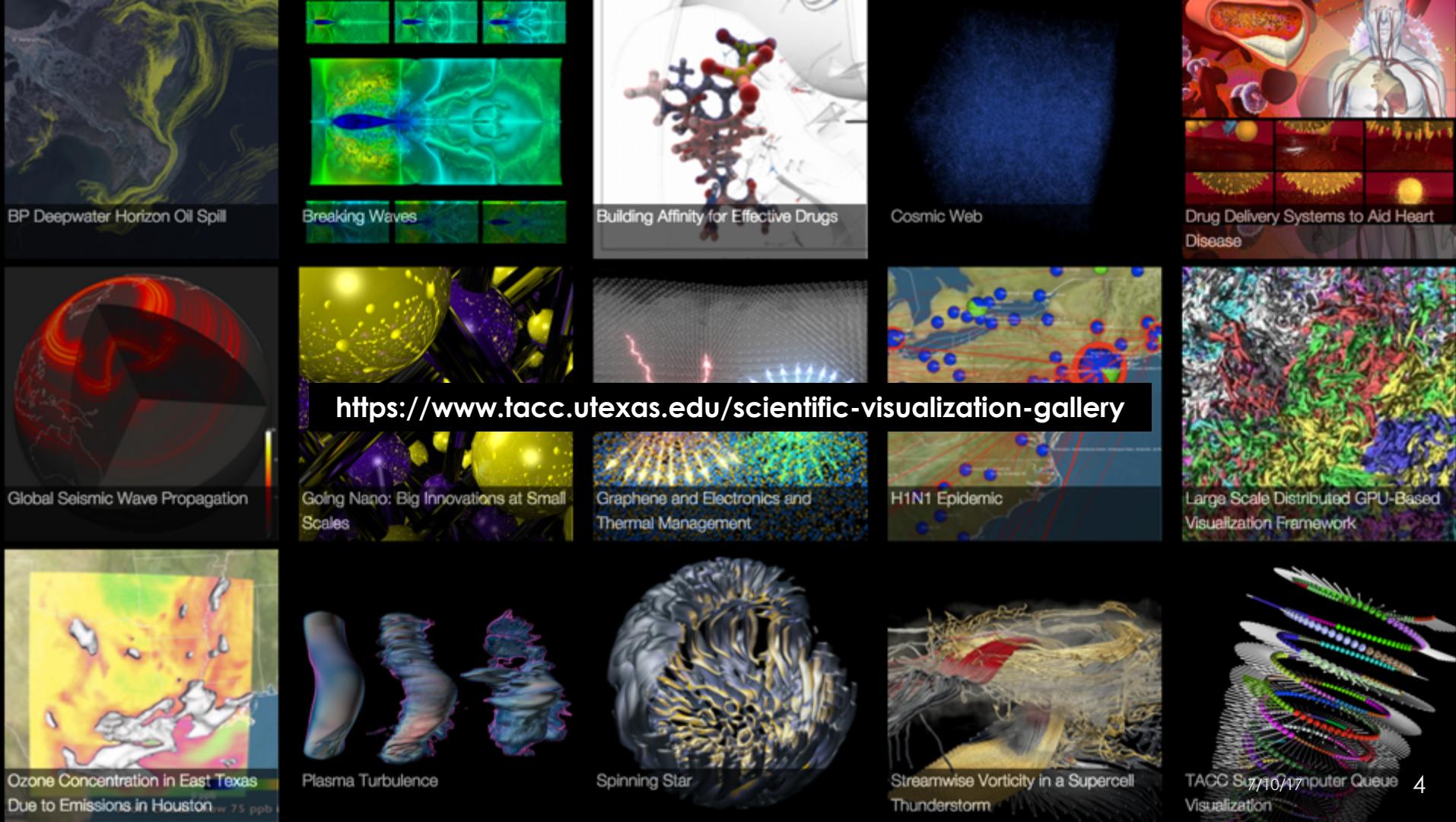
- ▶ Research center located at UT Austin
- ▶ ~160 Staff (~70 PhD scientists, ~20 students)
- ▶ Funded by UT System, NSF (85% external grants)

- ▶ **Users:** >10,000 on 2,300 active projects across all fields
- ▶ **Partnerships:** UT Research Cyberinfrastructure (UTRC), Extreme Science and Engineering Discovery Environment (XSEDE), Industry, International

Mission: “*To enable discoveries that advance science and society through the application of advanced computing technologies.*”

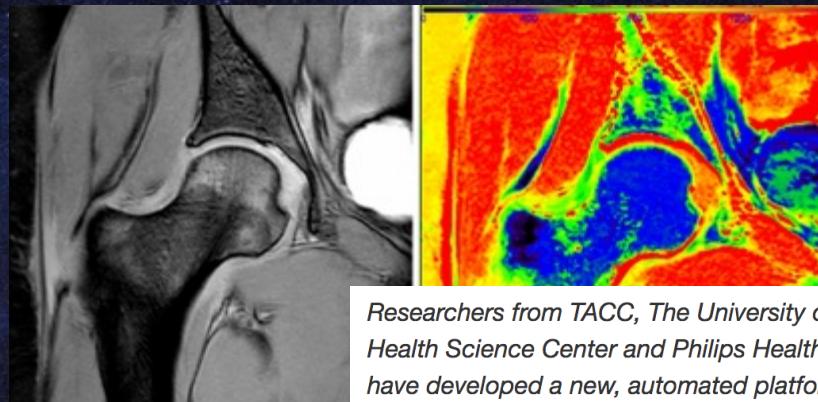






SPOTLIGHT ON UTHEALTH @ TACC

- ▶ From Jan 1, 2017 to May 31, 2017:
 - ▶ **36** Active projects with ~**40** active users
 - ▶ **4.9 Million** core hours used
 - ▶ >**100 TB** of storage space allocated
- ▶ Real-time MRI Platform (at right)
 - ▶ Collaboration between TACC, Dr. Refaat Gabr, and Dr. Ponnada Narayana (Dept. of Diagnostic and Interventional Imaging)



Researchers from TACC, The University of Texas Health Science Center and Philips Healthcare have developed a new, automated platform capable of returning in-depth analyses of MRI scans in a matter of minutes.

The system has the potential to minimize patient callbacks and advance precision medicine.

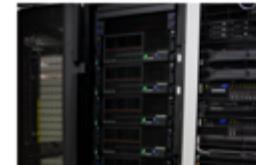
<https://www.tacc.utexas.edu/-/real-time-mri-analysis-powered-by-supercomputers>

WHY USE TACC?

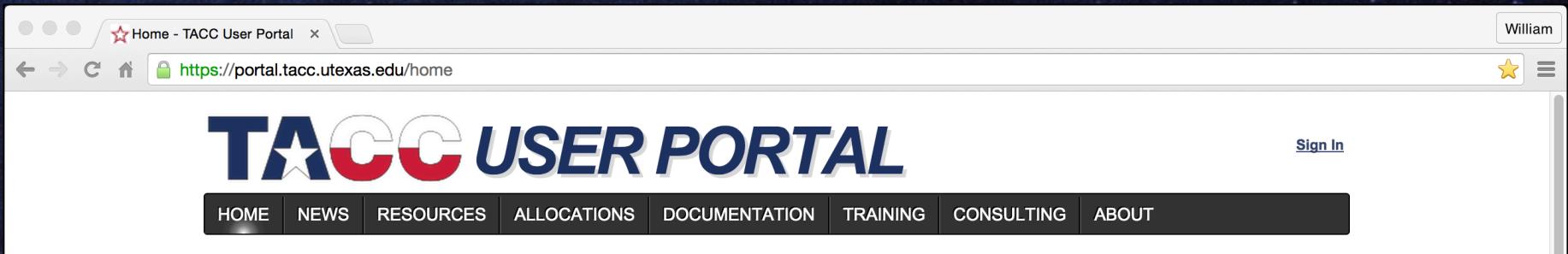
- ▶ Scale up existing computational research
- ▶ Use gateways / portals for common, domain-specific workflows
- ▶ Add computational data analysis to experimental research
- ▶ Store, manage, and share large datasets
- ▶ Our domain experts are eager to help



TACC SYSTEMS AT A GLANCE

					
STAMPEDE HPC, Visualization, Data Analysis, Data Intensive Computing	LONESTAR 5 HPC, Remote Visualization	MAVERICK Interactive Visualization, Data Analytics	WRANGLER Data Analysis, Data Management	CHAMELEON Cloud Computing Testbed	HIKARI Sustainable Supercomputing
					
VISLAB Advanced Visualization Resources and Consulting	STALLION Tiled-Display System	LASO Multi-Touch Display	JETSTREAM Self-Service Cloud System	FABRIC Alternate Computer Architectures	DISCOVERY Testbed Cluster
					
RODEO Cloud Computing, Storage	CORRAL Storage, Data Management	RANCH Mass Archival Storage	STOCKYARD Global File System	CATAPULT A Reconfigurable Architecture for Large Scale Machine Learning	RUSTLER Data Intensive Computing

THE TACC USER PORTAL



- ▶ Create accounts
- ▶ Request allocations
- ▶ Extensive system documentation
- ▶ Online training and workshops
- ▶ Software installation – availability / help
- ▶ File tickets for assistance

<https://portal.tacc.utexas.edu>

FOR QUESTIONS, PLEASE CONTACT:

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For more information:

www.tacc.utexas.edu

