

Converged IT Infrastructure in Life Sciences

Intro, Converged IT, and Agenda

Who am I?

General Manager of Government Services at BioTeam

I'm a fallen scientist - Ph.D. Molecular Biology, Neuroscience, Bioinformatics

I'm an HPC/Infrastructure geek - 17 years

I help enable science!

BioTeam

- ▶ **Independent consulting shop**
- ▶ **Staffed by scientists forced to learn IT, SW & HPC to get our own research done**
- ▶ **Infrastructure, Informatics, Software Development, Cross-disciplinary Assessments**
- ▶ **13+ years bridging the “gap” between science, IT & high performance computing**
- ▶ **Our wide-ranging work is what gets us invited to speak at events like this ...**



Our domain coverage

Mostly work in Life Sciences

- Government
- Universities
- Big pharma
- Biotech
- Private institutes
- Diagnostic startups
- *Oil and Gas*
- *Geospatial*
- *Hollywood Animation*
- *Law Enforcement*



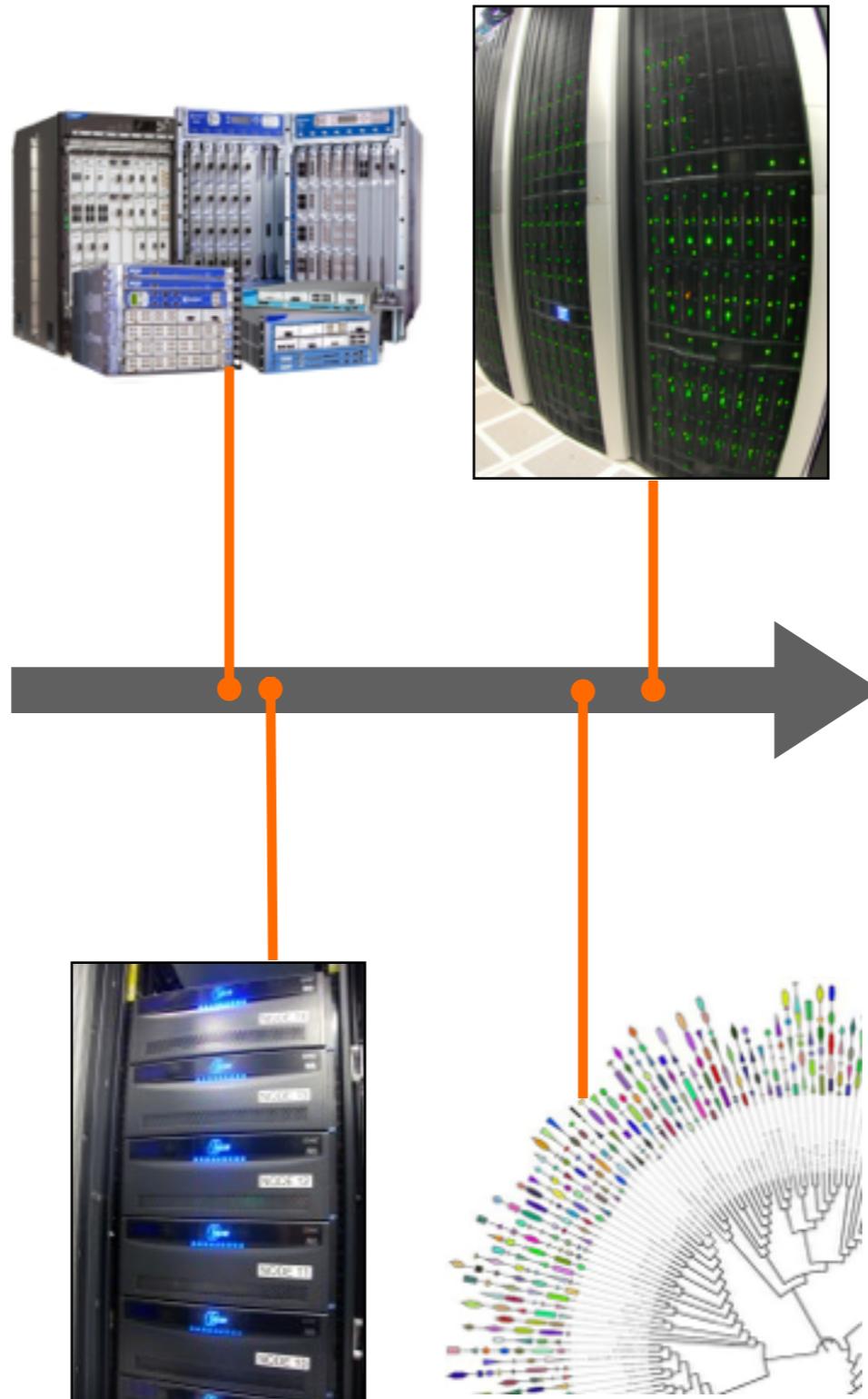


What's the Big Picture?

Problems getting solved

Utilizing scientific computing to enable discovery

Laboratory



Knowledge

The meta issue

Converged Infrastructure

- ▶ Individual technologies and their general successful use are fine
- ▶ Unless they all work together as a unified solution, it all means nothing
- ▶ Creating an end-to-end solution based on the use case (science!): converged infrastructure



Convergence

It's what we do

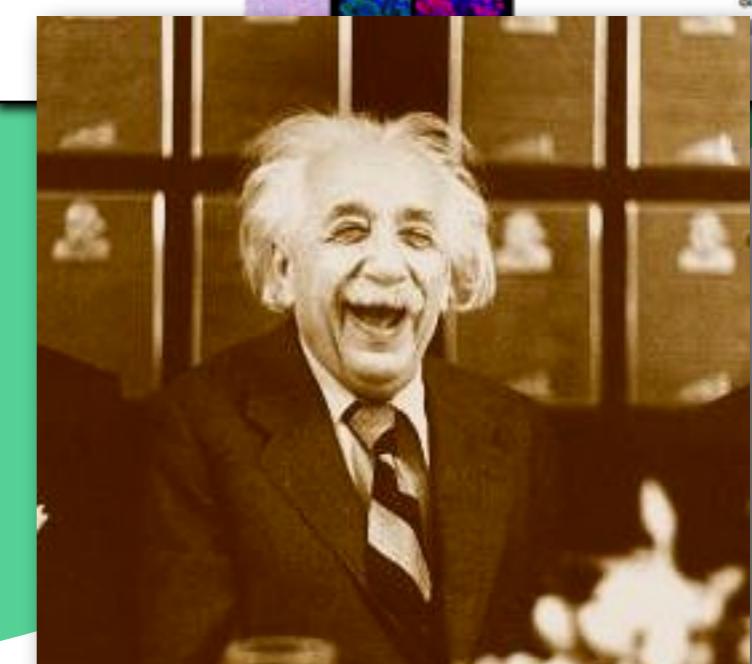
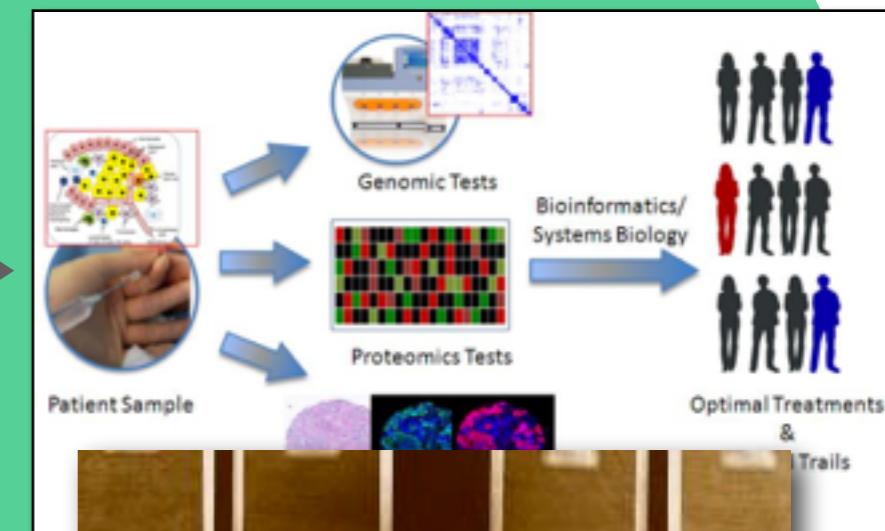
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Converged Solution



Knowledge



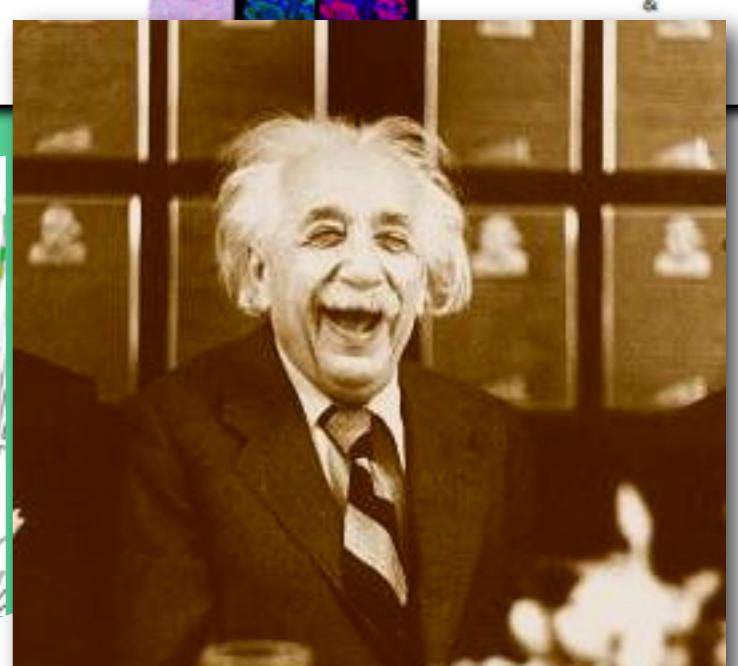
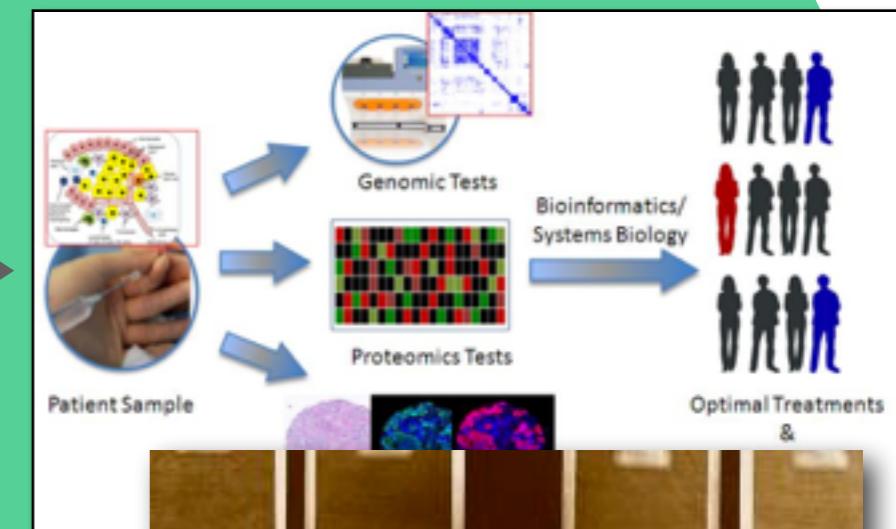
Convergence

People matter too

Laboratory



Knowledge



Today's Speakers

New and usual suspects from BioTeam

- ▶ **Ari Berman, Ph.D., GM of Government Services**
- ▶ **Aaron Gardner, Senior Scientific Consultant**
- ▶ **Adam Kraut, Principal Investigator**
- ▶ **Bhanu Rekepalli, Ph.D., Senior Scientific Consultant**

Agenda

- ▶ **12:30pm - Arrival of registrants, get settled**
- ▶ **12:35pm - Introduction (Ari Berman)**
- ▶ **12:55pm - Storage, HPC, and enterprise networking (Aaron Gardner)**
- ▶ **1:25pm - 5min Q&A**
- ▶ **1:30pm - IT Organizational Challenges, Networks, Science DMZs (Ari Berman)**
- ▶ **2:00pm - 5min Q&A**
- ▶ **2:05pm - 5min break**
- ▶ **2:10pm - Converged Infrastructure from a Cloud Perspective (Adam Kraut)**
- ▶ **2:40pm - 5min Q&A**
- ▶ **2:45pm - Impact of HPC on Life Sciences (Bhanu Rekepalli)**
- ▶ **3:15pm - 5min Q&A**
- ▶ **3:20pm - 5min break**
- ▶ **3:25 - 4pm - Open Q&A, discussion**

We have our own conference!



CONVERGED IT SUMMIT

Integrating IT and Science to Accelerate Discovery

September 9 - 10, 2015 | InterContinental Hotel | San Francisco, CA

Co-organized by

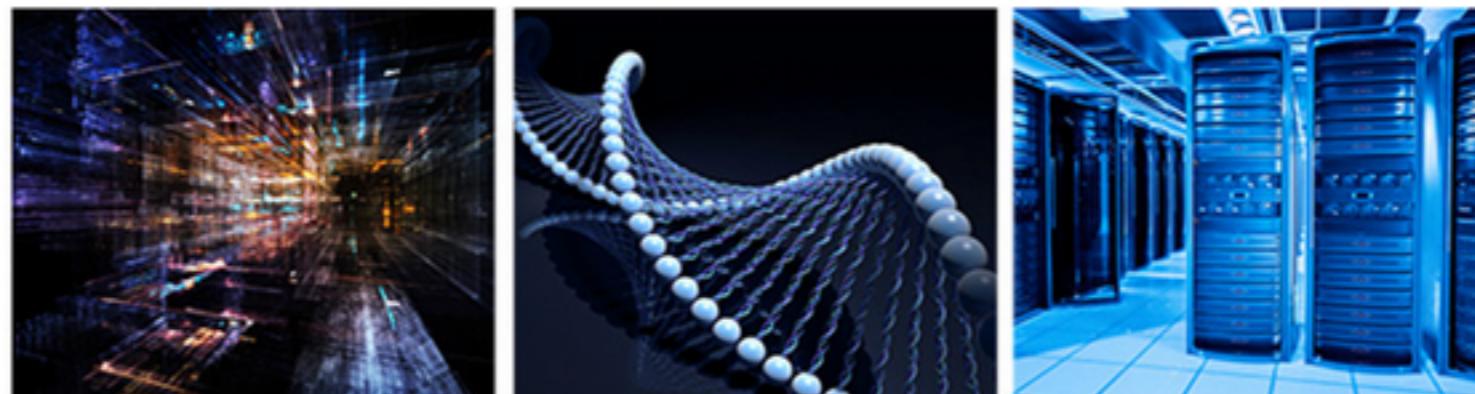


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CONVERGED IT SUMMIT



Register by June 12th
& Save up to \$400

This Two-Day Summit will cover a broad range of topics that will frame the issues behind creating computational solutions for modern research methodologies. Topics will include: technologies currently in use, how organizations are using them to accelerate discovery, efforts that have worked and those that have failed, organizational challenges and policies for research computing, and the art of converged infrastructure as a research tool. Come learn how to enable your science at the 2015 Converged IT Summit!

Thank you!

Please leave a card with us, we'll send you our slides.

- ▶ **Ari Berman:** ari@bioteam.net
- ▶ **Aaron Gardner:** aaron@bioteam.net
- ▶ **Adam Kraut:** adam@bioteam.net
- ▶ **Bhanu Rekepalli:** bhanu@bioteam.net