VIVO + SHARE:
an Institutional Perspective

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1. Full Disclosure
2. What are VIVO and SHARE?
3. The Environment at VT
4. The Impact and Advantages of VIVO + SHARE on the Institution
5. Potential Futures of VIVO + SHARE
Full Disclosure: Who am I?

Andi Ogier
Associate Director
Data Services

- Leads Data Services Unit
- Coordinates VIVO at VT
- Serves on VIVO Steering Group
- Serves on 2016 VIVO Conference Task Force
Full Disclosure: Yes, it works!

Towards Use And Reuse Driven Big Data Management

**abstract**

We propose a use and reuse driven big data management approach that fuses the data repository and data processing capabilities in a co-located, public cloud. It answers to the urgent data management needs from the growing number of researchers who don’t fit in the big science/small science dichotomy. This approach will allow researchers to more easily use, manage, and collaborate around big data sets, as well as give librarians the opportunity to work alongside the researchers to preserve and curate data while it is still fresh and being actively used. This also provides the technological foundation to foster a sharing culture more aligned with the open source software development paradigm than the lone-wolf, gift-exchanging small science sharing or the top-down, highly structured big science sharing. To materialize this vision, we provide a system architecture consisting of a scalable digital repository system coupled with the co-located cloud storage and cloud computing, as well as a job scheduler and a deployment management system. Motivated by Virginia Tech’s Goodwin Hall instrumentation project, we implemented and evaluated a prototype. The results show not only sufficient capacities for this particular case, but also near perfect linear storage and data processing scalabilities under moderately high workload.

**authors**

Chen, Yinlin
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Speer, Julie
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Walters, Tyler
... more
a Roadmap

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What is VIVO?

VIVO creates an integrated record representing the scholarly work of an institution.
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SHARE is building a free, open, data set about research and scholarly activities across their life cycle.
What is VIVO+SHARE+VIVO(+SHARE)?
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Internal Reporting
Trusted Data
Faculty Activity Reporting
Internal Profiling
VT-ONLY

The bottom line: Elements allows us to collect and report the impact of our research.

Public VT Profiles
Structured, trusted data
Supports reporting and visualization
Increases impact and visibility of scholarship and research

The bottom line: VIVO allows us to increase the impact of our research.
in progress environment @ VT
potential future environment @ VT
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1. It openly exposes trusted data and allows us to tell the whole story of our research impact situated within the global research environment.
VIVO + SHARE Impact and Advantages

- **VIVO exposes** trusted institutional data to the open, global research environment
- **SHARE creates links and enriches** data across complex research environments

Result: Closer ties between non-traditional scholarly research products and institutional data.
Why VIVO+SHARE is important for VT:

2. It increases the speed of research release and dissemination, which in turn increases the speed of knowledge creation.
Why VIVO+SHARE is important for VT

3. It allows us to openly contribute, in near real-time, to the global research community, fulfilling the central mission of Virginia Tech as a land-grant institution.
“Accordingly, I am challenging the university community to engage in a visioning process to support two interrelated goals: advancing our status as an internationally-recognized, global land-grant institution, and strategically addressing the challenges and opportunities presented by the changing landscape of higher education.”

The Challenge: A Letter from Virginia Tech President Timothy D. Sands
The Impact Cycle

VIVO ➔ BROAD IMPACT ➔ SHARE
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1. It could advance the adoption of a standard set of identifiers represented in a well-documented and open ontology.
2. Which, in turn, would greatly improve the access to and use of data about higher education.
[...] “that the OSTP memo served as the catalyst for an even more ambitious project to reveal academia’s intellectual output in a unified and comprehensive way; to connect anyone with these research outputs, regardless of format; to help expand the reach of information and new knowledge creation; to help with truly democratizing information in a global setting...tell me, doesn’t that inspire you to involve your library in this effort?” [emphasis mine]
