RIS as Part of a Larger Environment of Systems

Virginia Tech’s RIS Ecosystem

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Virginia Tech at a glance

- R1 Land-grant University located in Southwestern VA
- 250 undergraduate and graduate degree programs
- 33,000 students
- 9 Colleges + Graduate School
- $504M in Research Funding 2015
Background and Current State
Partnerships, Roles, Responsibilities

- University Libraries
- Provost’s Office
- University IT
- Office of Research
- Departmental Support Staff
Scholarly Reporting Environment & Data

Enterprise Systems
- User Accounts through HR feed
- Teaching data from Registrar

Symplectic Elements
- Faculty Activity Reporting

Elements Synchronizer
- Publications from subscribed databases
- Professional activities and publications not available via Synchronizer

Manually entered data

Office of Research
- Grants, publicity restricted and unrestricted

VTechWorks Institutional Repository
- Metadata and object deposit through Elements to VTechWorks
- Handle is returned to Elements

CollabVT VIVO Integrated Scholarly Profiles
- People, publications, grants via open source harvester
- Grants, publicity unrestricted
The Future (we hope)

Symplectic Elements Faculty Activity Reporting

VTechWorks Institutional Repository

VTechData Data Repository

OSF, other research environments

Enterprise Systems
- User Accounts through HR feed
- Teaching data from Registrar

Elements Synchronizer
- Publications from subscribed databases

Manually entered data
- Professional activities and publications not available via Synchronizer

Office of Research

CollabVT VIVO
- Other VIVOs,
- Departmental Websites,
- Visualizations
Implementing Symplectic Elements
Goals

● Reporting tools for individual faculty
  ○ Annual faculty activity reports
  ○ Custom proposal bios
  ○ Promotion & tenure dossier

● Reporting tools for administrators
  ○ Department, college, university reports
  ○ Institute reports
  ○ Benchmarking

● Data feeds to other systems
  ○ VTechWorks
  ○ CollabVT
  ○ Faculty & department web pages
Questions

● Local or remote hosting?
● Who gets an account?
● Administrative rights?
● Local data feeds?
● Privacy & confidentiality concerns?
● How can the data be used?
Outreach

- Overview for administrators
- Demonstrations for faculty
- In-person and WebEx training
- Help resources on web
- Informal workshops
Next steps

- Adjustments to data structure
- Additional data feeds
- More flexible reports
- Assessment workflow
Making Open Access Repository Deposit Easy (Connecting to DSpace)
About VTechWorks

“VTechWorks was launched in 2012 and runs on the widely-used DSpace preservation platform. VTechWorks is managed by the Virginia Tech Libraries for the purpose of stewarding the intellectual output of the university in its land-grant mission to serve the Commonwealth of Virginia, the nation, and the world community through the discovery and dissemination of new knowledge. VTechWorks supports a hierarchical structure composed of Communities and Collections. Communities include colleges, departments, research centers, institutes, or other entities. Communities contain Collections and sub-communities, and Collections hold the digital works.”
Goals

● Increase access to VT faculty works
  ○ ✔ Easy file deposit into Institutional Repository
  ○ ✔ In-system deposit guidelines for published works (Sherpa/Romeo)
  ○ ✔ Creative Commons license choices
  ○ ✔ Instant availability of record and file in IR

● Automate connections between internal and external systems
  ○ ✔ Elements → DSpace Repository (VTechWorks)
  ○ ✔ VTW handle → back to Elements record
  ○ CollabVT public profiles → open access works
Symplectic Elements → DSpace

- Rep Tools 1
  - Installed on DSpace server
  - Crosswalks and software support deposits of publications from Elements to DSpace
  - ~19 Publication Content Types used in VT Elements
    - ~15 fields used for VT (~60 possible fields)
  - XSLT crosswalk defaults (customizable) for each type
    - Support for customizing crosswalks
  - One IR Collection for deposits: All Faculty Deposits
    - Approval step can be added within your DSpace repository - we chose not to (for quick item availability)
  - Map items in Faculty Deposits to Department Collections
  - 1,200+ items deposited in last fiscal year
Implementation

‘Déjà vol’: Predictive regressions for aggregate stock market volatility using macroeconomic variables

Published (Publication status)

Post-print version of paper.

Journal of Financial Economics

Article

106

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/Virginia Tech

/Virginia Tech/All T&R Faculty

/Virginia Tech/Pamplin College of Business

/Virginia Tech/Pamplin College of Business/Finance, Insurance, and Real Estate

/Virginia Tech/Pamplin College of Business/PCOB T&R Faculty
DSpace → Symplectic Elements

- Once file is deposited to VTechWorks and record is created:
  - A handle (permanent URI) to the record is added back to the appropriate Elements record

Next Steps

- Repository Tools 2
- Will allow for IR(s) to also be a data source → Elements
- Crosswalks will be on Elements server rather than DSpace server, making repository upgrades and changes more efficient
**Policies & Outreach**

**VTechWorks Deposits**
- Any work ([Content and other policies](#))
- Publisher / copyright guidelines → Sherpa/Romeo guidelines display in Elements
  - Institutional customization of guidelines message

**VT Elements Policies**
- **Overall guidelines** on content types / categories
- Specifics for Colleges/Depts

**Open Access Policy**
- In development at VT
- Will support right to deposit

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**Where Can I Post My Publications?**

ResearchGate, VTechWorks, and Other Options


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Questions to address going forward

- Can abstracts and full citations always show on IR brief record?
- Can ETDs be incorporated into the data stream?
- Publisher guidelines to reference for book chapters and other published works aside from articles?

Future implementation / policy plans

- Open Access Monitor component in Symplectic Elements
  - (to assess the adoption of OA practices on campus)
Sharing with VIVO (CollabVT)
Goals

To support **Communities of Discovery** by enabling faculty to find and connect research across disciplines.

To increase the reach and impact of faculty research at Virginia Tech in support of its **global land-grant mission** through public profiles of researcher expertise.
Benefits of CollabVT/VIVO

- Faculty and Departments have (more) control over their public-facing institutional data with very little effort.
- Attracting quality students and project collaborators.
- Improving and assuring the quality of data about researchers and research at VT.
- Increasing visibility and use of the Institutional Repository.
Managing Faculty data in CollabVT

Symplectic Elements Faculty Activity Reporting

VTechWorks Institutional Repository

Enterprise Systems

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handle is returned to Elements

metadata and object deposit through Elements to VTechWorks

CollabVT VIVO Integrated Scholarly Profiles
Driving Principles

1. Make it reasonably easy for faculty to update through normal process of updating EFARS system.
2. Respect privacy of faculty data through hide/show mechanism.
3. Provide time/space for VT faculty to test and use the system.
4. Implement and develop according to an iterative and scalable model.
5. Contribute innovations back to the development community.
Evolving roles in Research Information Systems
Integrating the RIS Environment

VTechWorks Institutional Repository

Enterprise Systems

Symplectic Elements

Elements Synchronizer

Manually entered data

Office of Research

VTechData Data Repository

Open Science Framework

Electronic Lab Notebooks

HPC

Connecting RIS to active research environments

Symplectic Elements Faculty Activity Reporting

CollabVT VIVO

Departmental Websites

Other VIVOs, University Relations, Development, etc

Trusted data for news stories, discovery expertise, data visualizations
Production & Outreach

- Policies for transfer of data between systems
  - MOUs
- New ways of measuring the value-add of systems
- New ways of embedding systems where users are
- Upgrades, new integrations, changes
- Methods for reporting problems, reviewing feedback
Questions?