Showcasing collaborations using Vivo

Re-using and combining Pure data

Nick Veenstra, research information specialist, chairman Dutch Pure Usergroup

Information Management Services
The TU/e campus covers an area of 75 hectares

3 Strategic areas

1. Energy
2. Health
3. Smart Mobility

Ecosystem and characteristics

- Ultra-modern cleanroom
- Living labs
- Knowledge institutes: 11
- Patents: 91
- Scientific publications: 3,379
- New start-ups and spin-offs: 5
- Large research labs: 14
- Smaller research facilities: 50

International working environment

- Total staff (fte): 3,221
- Research staff (fte): 1,854
- Dutch: 66%
- International: 34%
- Male: 63%
- Female: 37%
- Full professors: 142
- Part time professors: 130
- Associate professors: 135
- Assistant professors: 293
- PhD fellows: 1,534

Rankings:
- CWTS Leiden Ranking 2018: TU/e no. 1 in industry cooperation
- World University Ranking 2018: TU/e no. 167 out of >1000
- QS-Ranking 2018: TU/e no. 99 out of 900
Web 2.0 project (2017-) : Pure, Portal and data driven research website aimed at peers

Pure

Pure Portal
research.tue.nl

Research Website
tue.nl/research

TU/e
CRIS (Pure) as corporate system

- ESB integration
- Key data integration component in research information chain (from project to showcasing result): linking project, result (publication), prizes, press mentions etc.
Challenge: showcasing partners and joint ventures

- JADS Data Science Center (Tilburg and Eindhoven university joint venture)
- Eindhoven MedTech Innovation Center (e/MTIC): researchers in 3 hospitals

Challenges (JADS):
- Combine data from two (Pure) universities
- Staff and organizations sourced from HR systems
  - Not equipped to store external partners, or at cost (not on payroll)
- Pure system designed to handle one institution

Showcasing collaborations using Vivo
Pure: (single) organization centered

- Organization structure has one base organization
- Datamodel has internal / external concepts
- Eindhoven’s internal researcher is Tilburg’s external
- Different data models for both
Integrating metadata using Vivo
## Vivo vs CRIS portal use cases

<table>
<thead>
<tr>
<th>CRIS Portal (Pure)</th>
<th>Vivo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate system, elaborate deployment</td>
<td>Fast deployment (multiple if needed)</td>
</tr>
<tr>
<td>Curating and showcasing research information for a single institution</td>
<td>Showcasing subsets of (multiple) institution research information</td>
</tr>
<tr>
<td>Cloud portal with standard options and layout for better manageability by vendor.</td>
<td>Highly customizable layout, hosted anywhere</td>
</tr>
<tr>
<td>Industry standard connectors as datasource (ESB) for other systems such as CMS,</td>
<td>Semantic endpoint often not supported by larger IT departments</td>
</tr>
<tr>
<td>PhD tracking</td>
<td></td>
</tr>
<tr>
<td>Fixed datamodel with fixed ingest options (no CRUD API yet)</td>
<td>Flexible datamodel with ample ingest options</td>
</tr>
<tr>
<td>Deduplication and curating = manual labor</td>
<td>Semantic technology (reasoning) can help with combining data from</td>
</tr>
<tr>
<td></td>
<td>multiple institutions in one system</td>
</tr>
</tbody>
</table>
Steps

- Install a Vivo system with JADS styling (done)
- Determine JADS researcher subset from both universities (done)
- Combine Pure data & load into Vivo (in progress)
- Merge / combine subset data using inference (tbd)
  - Inference rule on pids (ORCiD)?
  - TU/e employee sameAs TiU employee id?

Result: proof of concept
Thank You

Site: tue.nl/research
Portal: research.tue.nl
FAQ: purefaq.tue.nl
n.veenstra@tue.nl