Integrating CONTENTdm with Academic Metrics

Using custom scripts to increase visibility of IFPRI Authors’ impact

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About IFPRI

The International Food Policy Research Institute (IFPRI) seeks sustainable solutions for ending hunger and poverty. Founded in 1975, IFPRI is a member of the CGIAR Consortium, a global research partnership for a food secure future.
Focus Points

- Overview of CONTENTdm use at IFPRI
- Why Integration with Custom Scripts
- How successful was the Integration
- Challenges faced
Deployed in 2012
Created 7 public & 2 private collections

1. IFPRI Publications
2. IFPRI authors in external sources
3. IFPRI Datasets (Hosted at Harvard)
4. bEcon
5. CGIAR Research Program Publications
6. ReSAKSS-Asia Library
7. ISNAR publications

1. IFPRI Internal Datasets
2. IFPRI Seminars
Nature of IFPRI Research

IFPRI researchers produced an array of publically accessible knowledge products

**IFPRI Publications**
- IFPRI Published: 400 per year

**IFPRI authors in external sources**
- IFPRI Externally Published: 400 per year

**IFPRI Datasets (Hosted at Harvard)**
- IFPRI Datasets: 10 to 20 primary and secondary datasets per year
How does IFPRI measure authors' impact:

- Altmetric [http://www.altmetric.com](http://www.altmetric.com)
- RePEc [https://edirc.repec.org/data/ifprius.html](https://edirc.repec.org/data/ifprius.html)
- ISI Web of Science [http://webofknowledge.com](http://webofknowledge.com)
- Mendeley [https://www.mendeley.com](https://www.mendeley.com)
- Google Scholar [http://scholar.google.com](http://scholar.google.com)
- Publish or Perish [http://www.harzing.com/pop.htm](http://www.harzing.com/pop.htm)
- Google Analytics [http://www.google.com/analytics](http://www.google.com/analytics)
IFPRI – Stats Generation

- Data collection from different sources
- Generate stats for each pub
- Time consuming
  - One article: about 15-25 minutes
  - 10 articles: about 2.5-4 hours
  - Depending on the request: Half day / Full day / a Week of Staff time

Challenge: With the addition of more services, a new and more efficient solution was needed

Solution: Showing STATS at one place - ‘Article Page’ on the CONTENTdm

How can we do it with CONTENTdm?
Custom Scripts - CONTENTdm

Metrics at Article Level
Embedded Altmetric badge displays academic mentions tracked by DOI

Changed to DOI link
The politics of reducing malnutrition: building commitment and accelerating progress

The data shown below were collected from the profiles of 70 tweeters who shared this article. Click here to find out more about how the information was compiled.

Geographical breakdown

<table>
<thead>
<tr>
<th>Country</th>
<th>Count</th>
<th>As %</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>13</td>
<td>19%</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>11</td>
<td>16%</td>
</tr>
<tr>
<td>Venezuela, Bolivarian Republic of</td>
<td>3</td>
<td>4%</td>
</tr>
<tr>
<td>Australia</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>Switzerland</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>Mexico</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>Canada</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>Nigeria</td>
<td>1</td>
<td>1%</td>
</tr>
<tr>
<td>India</td>
<td>1</td>
<td>1%</td>
</tr>
<tr>
<td>Other</td>
<td>8</td>
<td>11%</td>
</tr>
<tr>
<td>Unknown</td>
<td>25</td>
<td>36%</td>
</tr>
</tbody>
</table>

Demographic breakdown

<table>
<thead>
<tr>
<th>Type</th>
<th>Count</th>
<th>As %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Members of the public</td>
<td>54</td>
<td>77%</td>
</tr>
<tr>
<td>Practitioners (doctors, other healthcare professionals)</td>
<td>12</td>
<td>17%</td>
</tr>
<tr>
<td>Scientists</td>
<td>4</td>
<td>6%</td>
</tr>
</tbody>
</table>

About this score

In the top 5% of all articles scored by Altmetric

Mentioned by

1 news outlet
1 blog
1 policy source
70 tweeters
2 Facebook pages

Readers on

106 Mendeley
Custom Script – Visitor Statistics

- CONTENTdm run reports within **Google Analytics** dashboard
  - Doesn’t cover how to embed analytics in article pages

- Created a button in CONTENTdm using a custom script

- With the script, we are able to show both a graph and count of unique and overall visits to each article
  - Gets data from Google Analytics Embed API
  - Displays through oocharts
Custom Scripts – Article Metrics

- Created a button in CONTENTdm
- Pulls data from different sources
Custom Script – ISI Web of Science

Script uses ISI Web of Science API

Global food security: challenges and policies

Citations

189 Times Cited
43 Cited References
View Related Records
View Citation Map
Custom Script - Mendeley

Script uses Mendeley API
Custom Script - RePEc

- Script uses RePEc Title and CONTENTdm Title to display Downloads, Abstract views, & Citations
SSRN provides Monthly Excel file

Script uses SSRN DOI and CONTENTdm Title

- Displays Downloads, Abstract views, & Citations
Tech Specs

- Altmetric, Visitor statistics, and Article metrics buttons added as a top include within Cdm and script stored in OCLC server
- Altmetric and Visitor statistics - scripts stored in OCLC server
- Article metrics - script hosted on IFPRI web server
  - Requires MySQL database to cache stats
  - SSRN csv files stored in same location
Problems Faced – Resolved Issues

- CONTENTdm server not intended for a script like the ‘Article Metrics’ button that uses outside databases

- **Solution**: Used IFPRI web server for article metrics rather than CONTENTdm
Problems Faced – Yet to Fix

- Continuous updates to the script
  - Visitor statistics: Google Analytics API changed and the script no longer works. Requires updates to the script
  - Whenever a service like this is discontinued or changed—Script also needs to change to make it work involving cost & time

- Blocking compound objects
  - Scripts at times generate errors
  - Requires rewriting script to avoid generating errors
Integration Benefits

- Custom scripts enabled researchers to generate up-to-date metrics on their own.
- Easy & effective for presenting impact to donors.
- Repeatability / Reusability.
- Time saving & Faster.
- Cost Reduction.
- Reduced errors & improved quality.
Thanks...