

# State-of-the-Art...

## ...from Aries Systems

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## How Can You Improve The Author Experience?

## Streamline Submission File Uploading

- Drag-and-drop files instead of “Browsing”
- 
- Single or multiple files, up to hundreds of files
  - Drag from desktop to browser
  - ZIP files automatically unpacked
  - Individual and total progress meters
  - Background process - while earlier upload is still in progress:
    - Can upload additional files
    - Can edit metadata for individual files
- 
- Will shorten file upload time for authors
  - Will greatly improve author experience for the most frustrating part of manuscript submission

# New Submission

- 
- 
- 
- 
- 
- 

**Please Attach Files**

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Required **Items** are marked with a \*. When all **Items** have been attached, click **Next** at the bottom of the page.


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Item

Enter a **Description** and select a **Delivery Method**. To deliver files online, either choose files or drag and drop files.

Description

Delivery Method  Online Web System  Offline  URL/URI/External Resource

Or Drag & Drop Files Here  


To attach a file from arXiv.org, enter the arXiv code and click **Attach This File**.

arXiv File Name:

**Drag one or hundreds of files from desktop**

The order in which the attached items appear in the list will be the order in which they appear in the PDF file that is produced. You can re-order the items and click the 'Update File Order' button to effect the change.

Order	Item	Description	File Name	Size	Last Modified	Actions	Select
<input type="checkbox"/>	<input type="text" value="*Manuscript"/>	<input type="text" value="Chapter X"/>	Chapter1.docx	9.8 KB	Apr 24 2013 2:04PM	<a href="#">Download</a>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="*Manuscript"/>	<input type="text" value="Chapter X"/>	Chapter2.docx	21.5 KB	16.1 MB	<div style="width: 75%; background-color: blue; height: 10px; display: inline-block;"></div> <a href="#">Cancel Upload</a>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="*Manuscript"/>	<input type="text" value="Chapter X"/>	Chapter3.docx	11 KB	0.0 MB	<div style="width: 0%; background-color: blue; height: 10px; display: inline-block;"></div> <a href="#">Cancel Upload</a>	<input type="checkbox"/>

[Check All](#) [Clear All](#)

**Individual File progress**

**Overall progress (Time for coffee, phone call, etc.)**

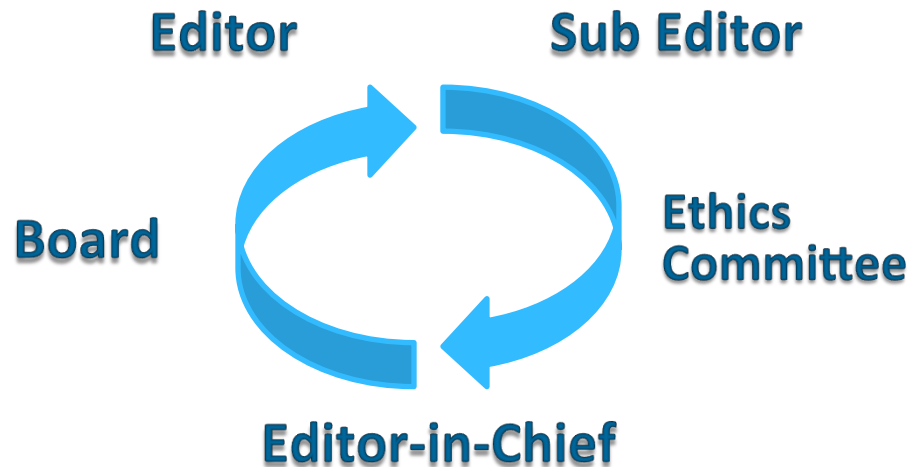
Overall Progress: **Uploading 2 of 3 files** Remaining Time: 00:00:05 25.9 MB/42.3 MB 67% [Cancel All Uploads](#)

## How To Experiment With New Workflows?

## Discussion Forums

- Ad hoc interactive communication
  - Typically amongst staff and editorial
- 
- Independent of, parallel to editorial workflow
  - Participation by invitation
  - Manuscript-centric, multiple concurrent discussions for a single MS
  - Editors today; reviewers, authors in future
- 
- Accelerates editorial consideration
  - Facilitates ethics discussions
  - Pathway to alternative peer review models

# Discussion Forums – Parallel Workflows



## Better Engagement with Co-Authors

- Typically, co-authors have been a secondary consideration in the submission and tracking process
- But now, becoming much more significant:
  - Ethics, contribution validation
  - Institutional attribution
  - Open Access APC shared payment

- Editorial Manager supporting features:
  - Corresponding author monitors and facilitates (“Author-chase” vs. “Journal-chase”)
  - Optional or mandatory registration of co-authors
  - Verification (“Did you participate on this paper?”)
  - Detailed, configurable questionnaires
  - Metadata capture (Institution, Department, etc.)
  - Definitive Institution Name (with Ringgold ID)
  - ORCID capture and certification
  - Source of research funds (FundRef identities)
  - Metadata pushed to production and publication platforms

## Co-Author Management



## Funder Mandates Got You Down?

## Seamless FundRef Integration

- Configurable step in submission workflow
- Captures:
  - Funder Name
  - Funder unique identifier from FundRef
  - Grant ID
  - Grant Recipient
  - Multiple funding sources for a manuscript
- Convenient auto-complete for funder identification
- Metadata pass-through to production and platform environments

# FundRef Data Capture

## New Submission

- Select Article Type
- Enter Title
- Add/Edit/Remove Authors
- Funding Information**
- Submit Abstract
- Select Classifications
- Enter Comments
- Request Editor
- Select Region of Origin
- Attach Files

### Funding Information

Please enter the funder name, grant number and the grant recipient. Authors listed in the dropdown menu were added during the Add/Edit/Remove Authors submission step. Click on the '+' icon to add another funder. When you are finished, click on the 'Next' button.

Funder Name	Grant Number	Grant Recipient	Action
Starbucks Coffee	ABC12345-67	Dr. Ann Author	🗑️
Sabin Vaccine Institute	3 R01 CA12321-04S1A7	Dr. Francis Crick	🗑️
Gynecology	GYN-S9757570	Dr. Buzz Aldrin	🗑️
California Breast Cancer Res	1-23-456-78	Dr. Buzz Aldrin	🗑️
California Breast Cancer Res	1-23-456-78	Dr. Richard Feynman	🗑️

California Breast Cancer Research Program

+

Previous Next

**Recipients selected from Author/Co-author List drop-down**

**Auto-Complete From FundRef Taxonomy (combined SOLR/MSSQL technology)**



## Who's Going To Pay Your APC Charges?

## Institutional Name Normalization

- Problem:
  - Author entry of institution names is idiosyncratic and inconsistent
  - Downstream attribution of research to an institution then lacks integrity
  - Inconsistent names complicate OA APC fee collection

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- Solution:
  - Guide users to enter Institution Names from a controlled vocabulary:
    - Convenient & intuitive auto-complete Name selection
    - Explicit Names from Ringgold Identify database
    - Exception Names “crowd-sourced” based on frequency-of-use
  - Ringgold identifiers included for downstream inter-system compatibility and matching

# Auto-Complete for Institution Name Normalization

Institutions:

glaxo

GlaxoSmithKline Plc  
GlaxoSmithKline  
GlaxoSmithKline AS  
GlaxoSmithKline Biologicals SA  
GlaxoSmithKline Pharmaceuticals  
GlaxoSmithkline Research and Develop

**Partial  
Name**

Institutions:

arkansas

University of Arkansas for Medical Sciences  
Arkansas Department of Health  
Arkansas State University  
University of Arkansas at Little Rock  
University of Arkansas at Monticello  
University of Central Arkansas

**Embedded  
Name**

Institutions:

bidmd

Beth Israel Deaconess Medical Center

**Abbreviations  
& Aliases**

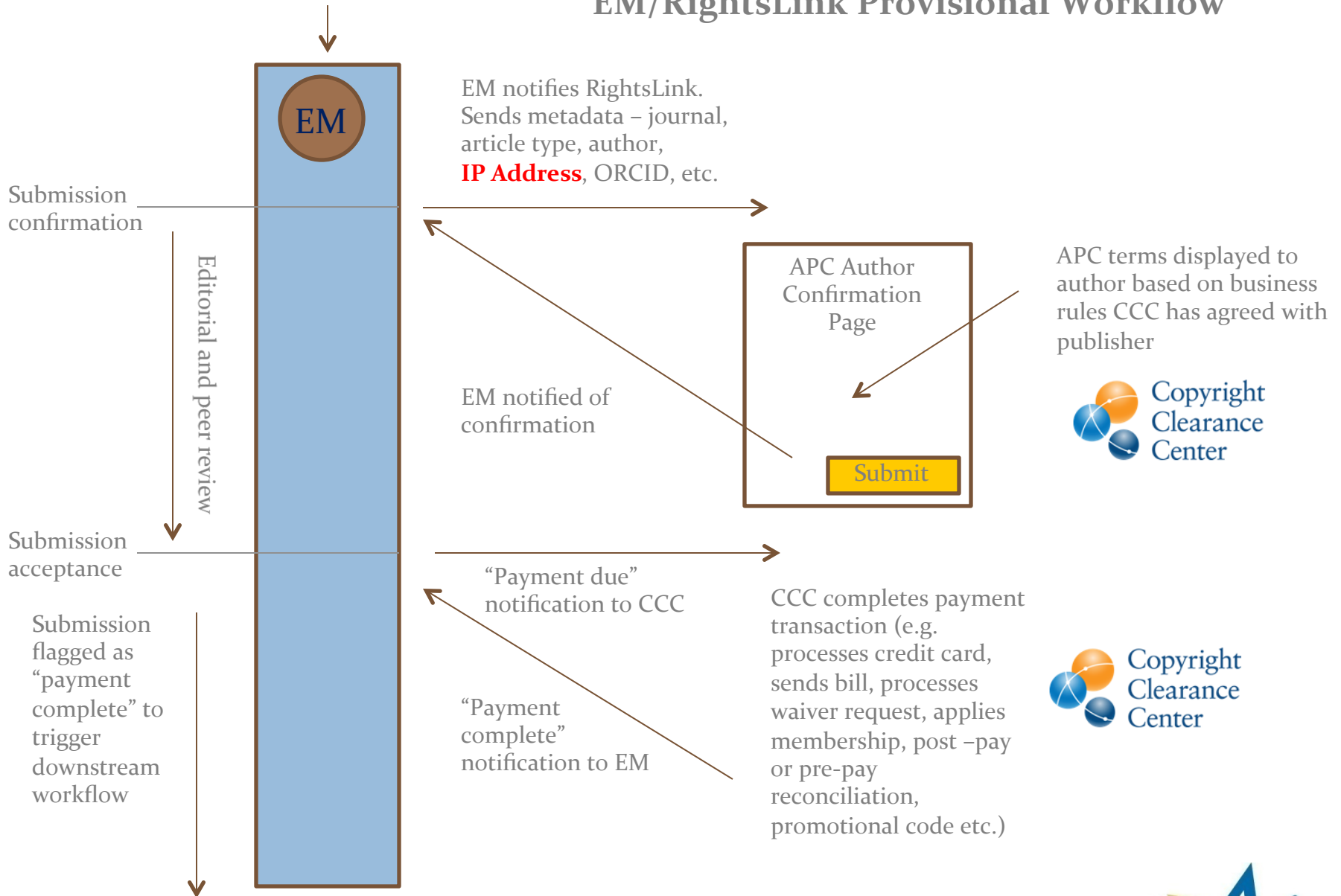
## Lost In The Maze of APC Collection?

## APC Management and Collection with CCC

- Many rules and protocols - Fee structures, Funding sources, Split payments, Payment methods, etc.
  - Solution involves tight coupling of editorial, production, publication and business processes
- 
- Aries and Copyright Clearance Center are developing a collaborative solution:
    - Aries/Editorial Manager & ProduXion Manager handles functional workflows
    - CCC RightsLink handles collections & remittances
    - API-coupled data sharing and control signaling
- 
- Improved collection times and yields
  - Streamlined signaling for when to publish

Author Submits

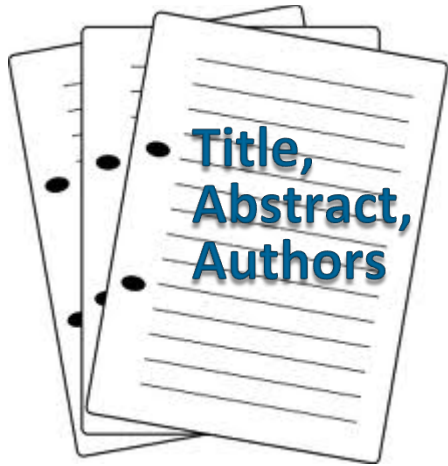
# EM/RightsLink Provisional Workflow



## Where Have All The Reviewers Gone?

## Reviewer Discovery With ProQuest Pivot

- I can't find enough reviewers!
  - My reviewers are burned out!
  - I can't match manuscripts to reviewers easily!
- 
- Reviewer Discovery with ProQuest
    - Database of 3.5 million curated profiles
    - Researcher-centric, rather than article-centric
    - Biographies and bibliographies
    - Title, abstract and authors are sent by API to Pivot
    - Pivot "fingerprint" matching
    - Up to 100 candidate matches returned
    - Selected candidates auto-registered into editorial workflow
    - De-duplication against existing EM people database
    - And most importantly, profiles include email addresses



**Closest  
Matched  
Reviewer  
Candidates**

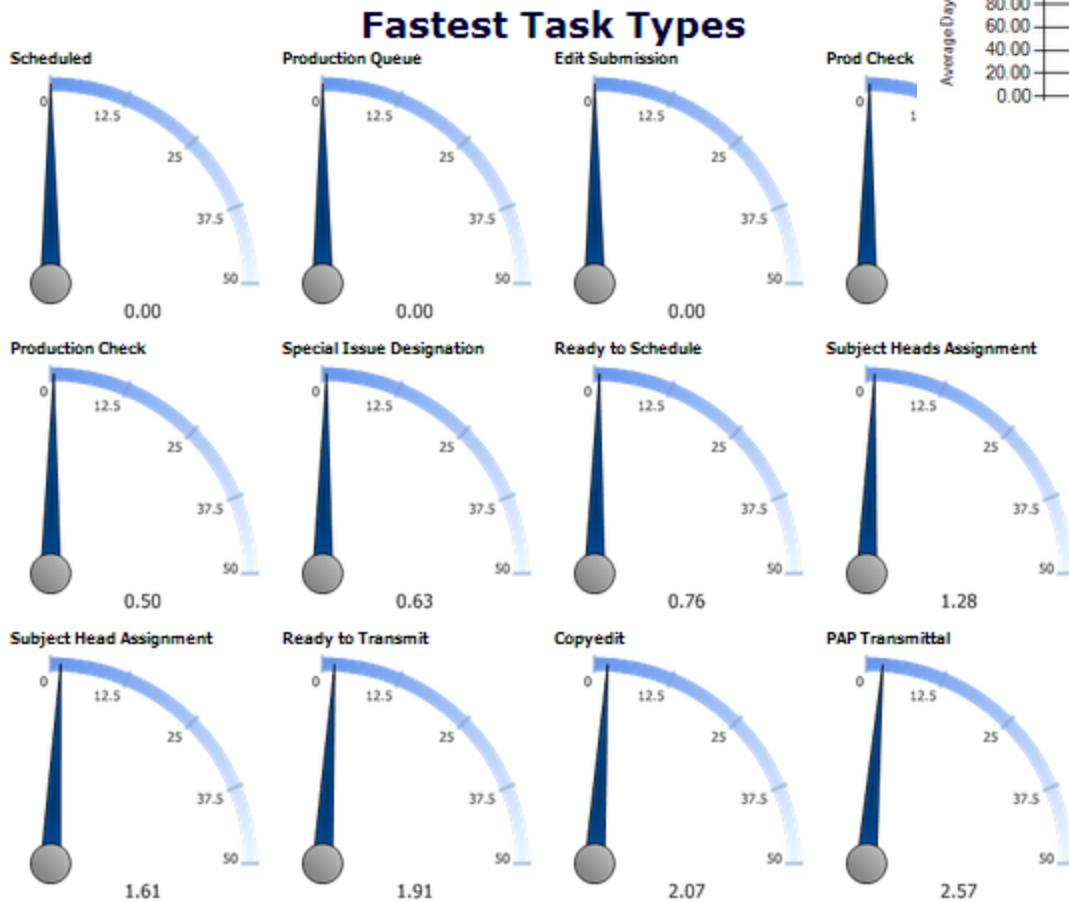


## How Can I Manage What I Can't Measure

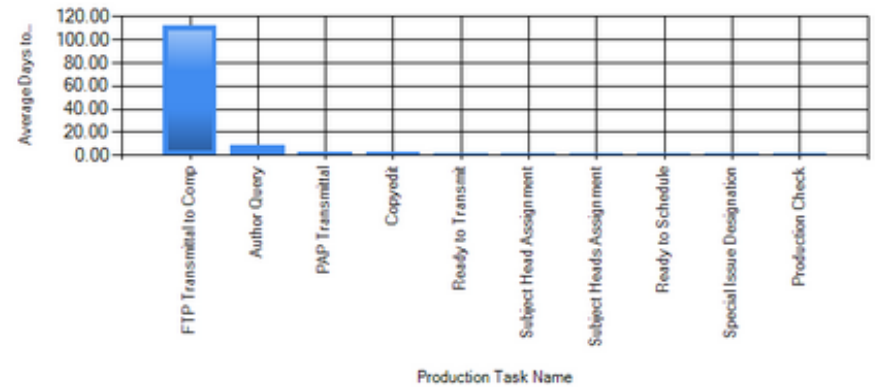
## With EAR and X-EAR, You Can...

- Advanced, interactive reporting tools – Enterprise Analytics Reporting
- Single publication and cross-publication (X-EAR)
- Comprehensive data schema is available to the publisher
- Joins on views and tables (X-EAR with easily extended views)
- Single publication and thousands of publications – similar performance
- Tools include filters, gauges, tables, graphs, scheduling, emailing, etc.
- Standard, Custom Public, Custom Private, Shareable report inventories
- Flexible reporting sub-groups in development
- Fully integrated permissioning and access control

# Sample Gauge output from X-EAR



### Slowest Task Types





## So, You Need APIs!

## Sure... Multiple Strategies

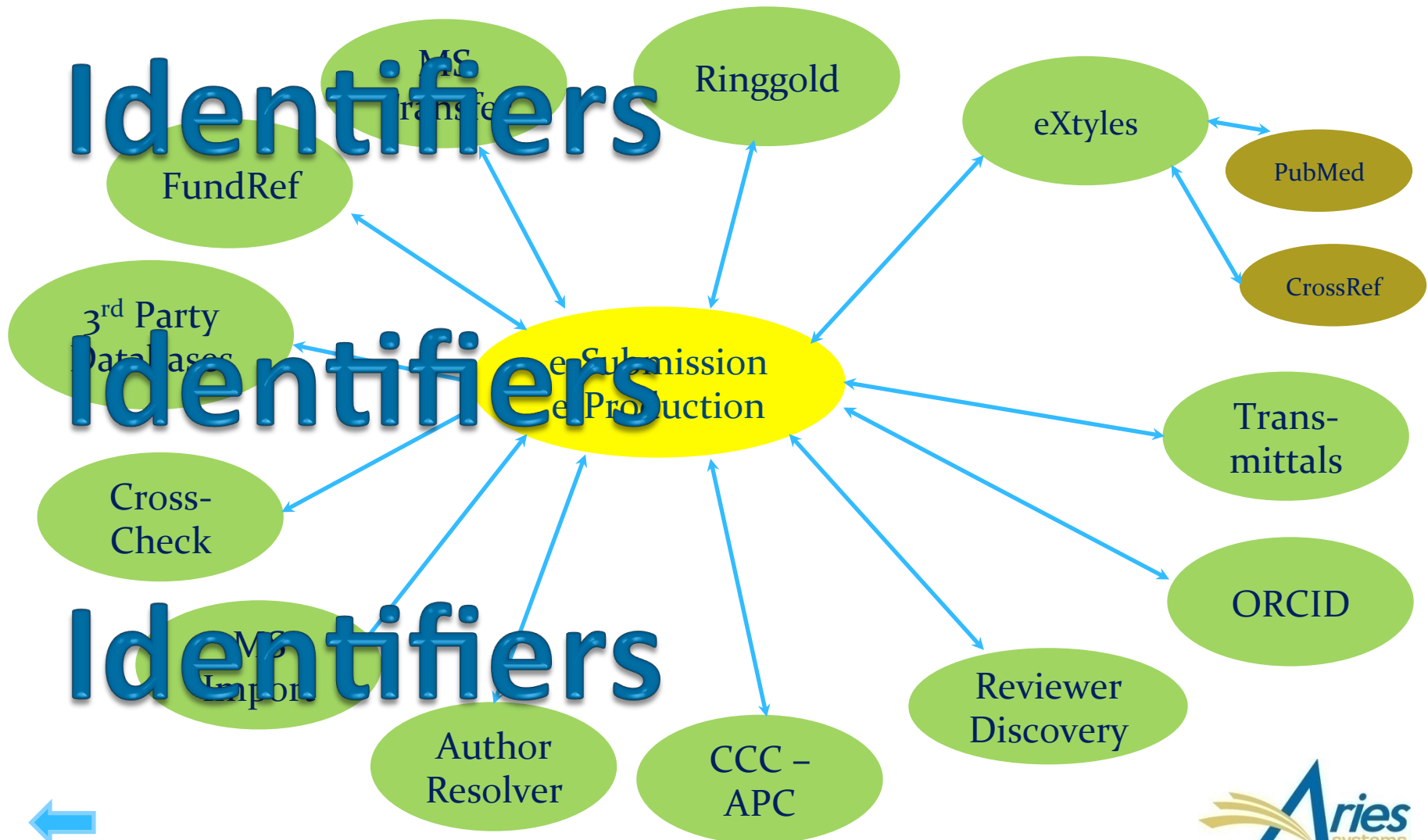
- Classic API models:
  - Purpose-built, may require complex logic/data structures
  - Not susceptible to “one-solution-fits-all” approach
  - Some available with Editorial Manager for 10+ years

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- Super-Flex(ible) model:
  - SQL as the ultimate API mechanism (interface between application and data)
  - Real-time replication of live metadata database onto mirror data server
  - Access to entire e-submission/e-production metadata data model
  - Simple and complex API query constructs through SQL
  - Zero performance impact on live application even with extensive, heavy duty queries
  - Assures integrity of live application database
  - Can run customer-developed “widget” applications directly on mirror server for even greater flexibility



# Rich API Solutions with EM



## Is That All There Is?

## Our Time's Up, But...

- Extensive user-driven configurability (new article types, submission questions and questionnaires, etc.)
- Extensive manuscript transfer options
- Mobile-friendly today, apps coming!
- ORCID Single Sign-On
- Multilingual interfaces (8 languages)
- E-mail drop boxes
- iCal attachments