

# Symplectic Automation at UTS Using APIs

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### Existing Automation

RM to Symplectic Records of Impact Plan  
IEEE conference manual record generation  
SDGs from Dimension (retired)

### Tactical API Uses

ANZSRC code changes  
ERA recoding and recategorizing





# Semi-Automating Annual Collection

UTS still does an annual collection (aggregator coverage low in HASS, enforces good practices, provides an opportunity for early interventions) BUT >7000 outputs to assess. Usually less than 2 FTE to advertise collection, train, assess outputs, run academic review process and report BUT we have a growing number of people using the API.



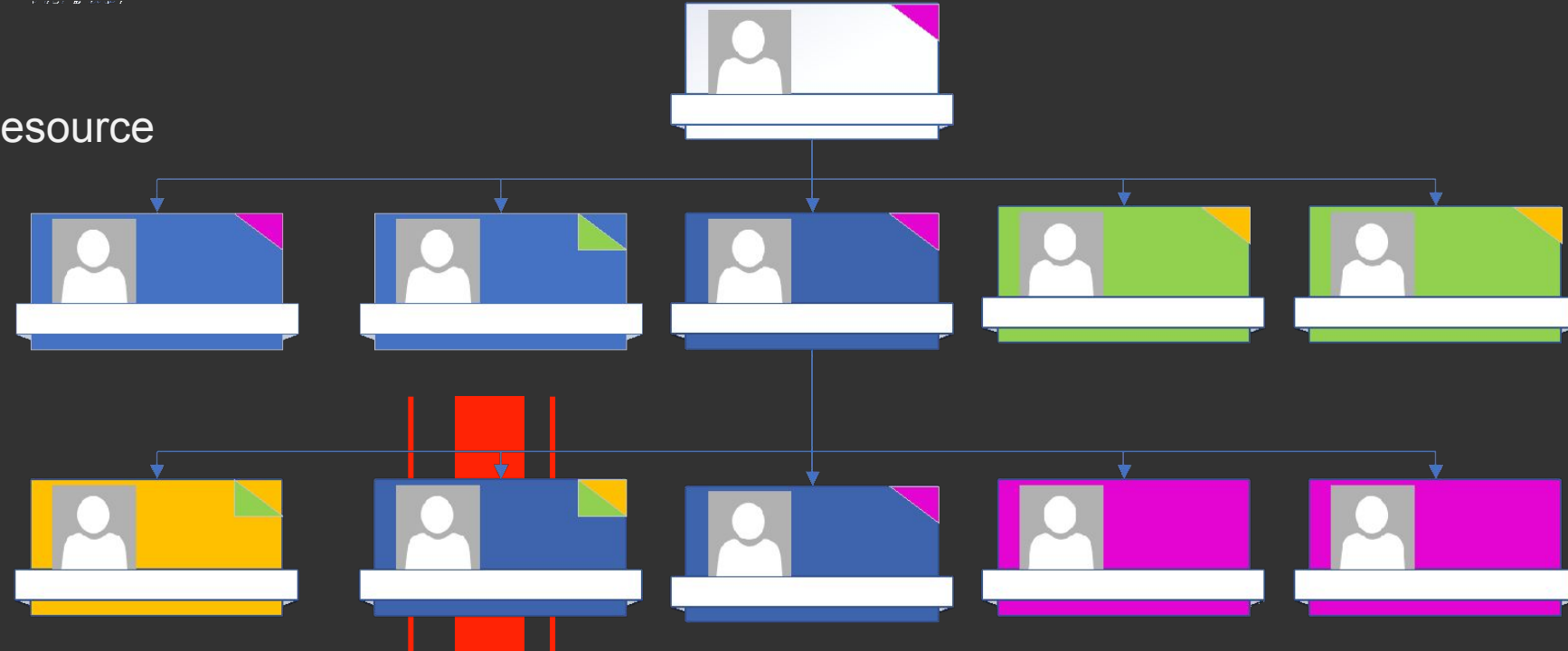
Annual Collection Reviewer Resource



Symplectic API Resource



PowerBI Resource





## New API Projects - Minimise ROC effort

Aim: Reduce key manual steps in verification process. Focus reviewers on material that needs reviewing.

Plug the gap. Ingest all relevant Dimensions records for a year that are missing from the system.  
Nominate all relevant Dimensions records not nominated for a year.

Time Warp. Move “non-final state” outputs from one collection year to another, along with any comments and attachments, based on their metadata.


Decline. Decline material using an agreed and publicised rule set. Human readable comment about process.  
Appropriate labelling for downstream systems.

Accept. Accept material using an agreed and publicised rule set. Human readable comment about process.  
Appropriate labelling for downstream systems.


Assist the Reviewers. Move items between intermediate states asking for copy etc. Add labels that indicate how eligible an output is and remaining things to be checked.

# Process





SharePoint

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**Scott McWhirter**  
Executive Manager, Research Intelligence and Quality

### Which parts of ROC are automated by Symplectic?

Depending on the degree to which an author's work is indexed elsewhere and their use of identifiers, some of the collection process is already automated.

### Finding and Accepting Your Outputs


Symplectic Elements uses a researcher's accepted identifiers (ORCID, ScopusID, Dimensions ID, etc.) to extract outputs from these sources and either auto-accept them into Symplectic or suggest them as options for the researcher to accept or decline, depending on their preferences. If researchers have enabled the Symplectic-ORCID bi-directional integration outputs in their Symplectic profile will be added and to their ORCID profile.

### Nominating Outputs for the Annual Collection

Symplectic Elements automatically nominates books, chapters, journal articles and conference outputs which have sources in PubMed, Web of Science or Scopus for the Annual Collection. For manually created records, any record in which the 'Nominate for UTS ROC?' box is ticked added to the Annual Collection module at 5PM daily.

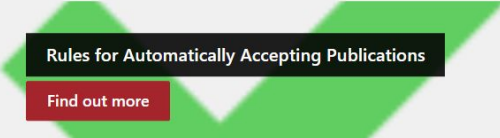
### Automating Verification

We are seeking to automate the categorisation of outputs and thereby minimise the work for researchers and support staff in this process. This will enable us to collectively concentrate on outputs which require higher levels of evidence or work to be considered for ROC. This should also facilitate an earlier understanding of the volume of UTS outputs in a given year.



Rules for Automatically Declining Publications





Find out more



Rules for Automatically Accepting Publications

Find out more

# What does the end product look like?

ROC 2023 (2022 Data)						
<a href="#">View Full Collection</a>						
Publication Title	Label	Research Category	UTS Author(s)	Weighted Points	Assessment Status	Action
<a href="#">Debris flow simulation 2D (DFS 2D): Numerical modelling of debris flows and calibration of friction parameters</a> <a href="#">doi&gt;</a>	Article - C1	Journal article	PRADHAN, Biswajeet	0.25	Accepted	<div>Revert</div> <div>     </div>
<b>History</b> <div> 08/02/2023 (by System): Nomination accepted. - ROC Automation: C1: 2022, UTS-affiliated author/s, journal peer reviewed and has an ISSN according to Ulrichs.  29/11/2022 (by System): Reviewing nomination. - ROC Automation: Journal volume and/or issue number now available so this publication's assessment status has changed from Pending Response to Under Review.  19/09/2022 (by System): Additional nomination information requested. - Please add a copy of the accepted manuscript to OPUS and then click on the Provide Info button to add a brief comment (e.g. 'Copy added to OPUS' ). We'll then take another look at your publication.  01/08/2022 (by System): Publication nominated. </div>						

- DOI Consistency ✕
- Peer Review Ulrich ✕
- Publication Year Consistency ✕
- UTS Affiliation Dimension ✕
- Volume and/or Issue ✕



## How much time has been saved?

- Accepted 406 publications (5 minutes)
- Declined 117 publications (5 minutes)
- Asking more information 1386 publications (2 minutes)
- Under-review 476 publications (2 minutes)
- Label-assisted
  - Ulrichs peer review 1246 publications (2 minutes)
  - Affiliation with Dimensions 1250 publications (1 minute)
  - Volumn and issue 1530 publications (1 minute)
  - Publication date consistency 1304 publications (1 minute)
  - OPUS 657 publications (1 minute)
  - Doi consistency 1480 publications (1 minute)



# Automation Road Map

## What is Done

- Declined articles
- Pending response
- Under review
- Accepted articles

## What is next?

- Accepted conference (IEEE) rules
- Expanding Gap filling to WOS and Scopus
- Get open access copy into DSpace





## Questions and Suggestions for Other Automation

