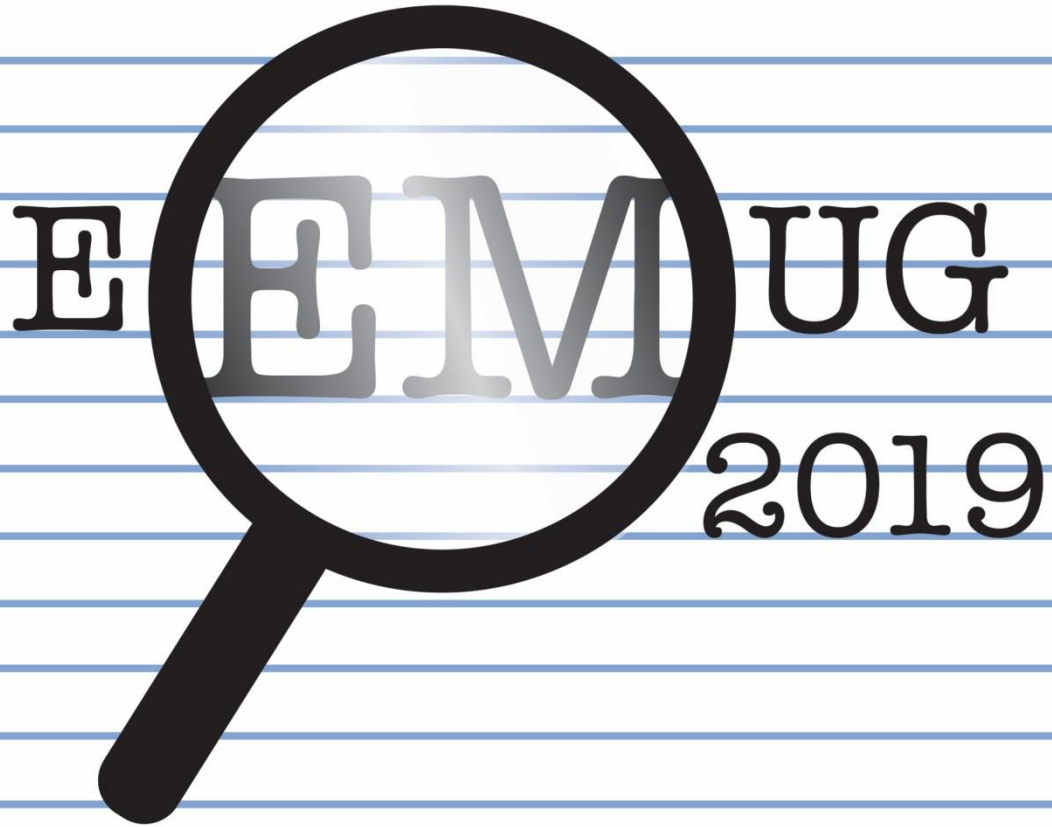
Welcome to



#EEMUG2019

em Editorial Manager®

pm ProduXion Manager®

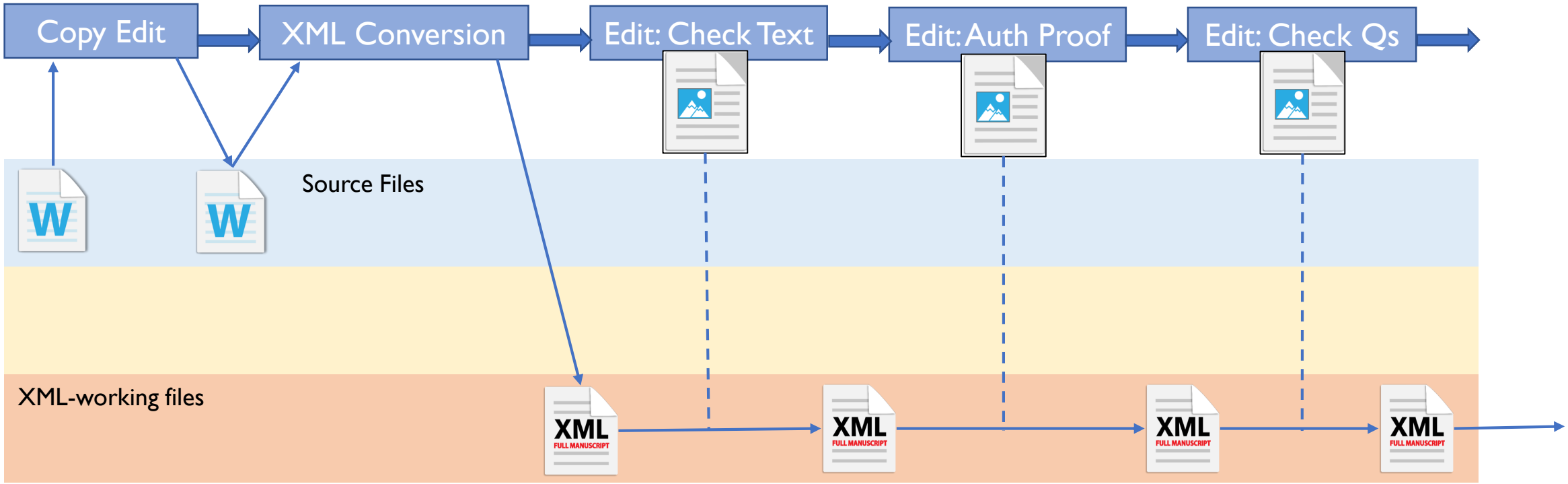
Aries systems

LiXuid Manuscript™

Sean MacRae, Business Systems Analyst

15th Annual European Editorial Manager User Group Meeting

Where are we heading? XML Workflows!



And how do we plan to get there?

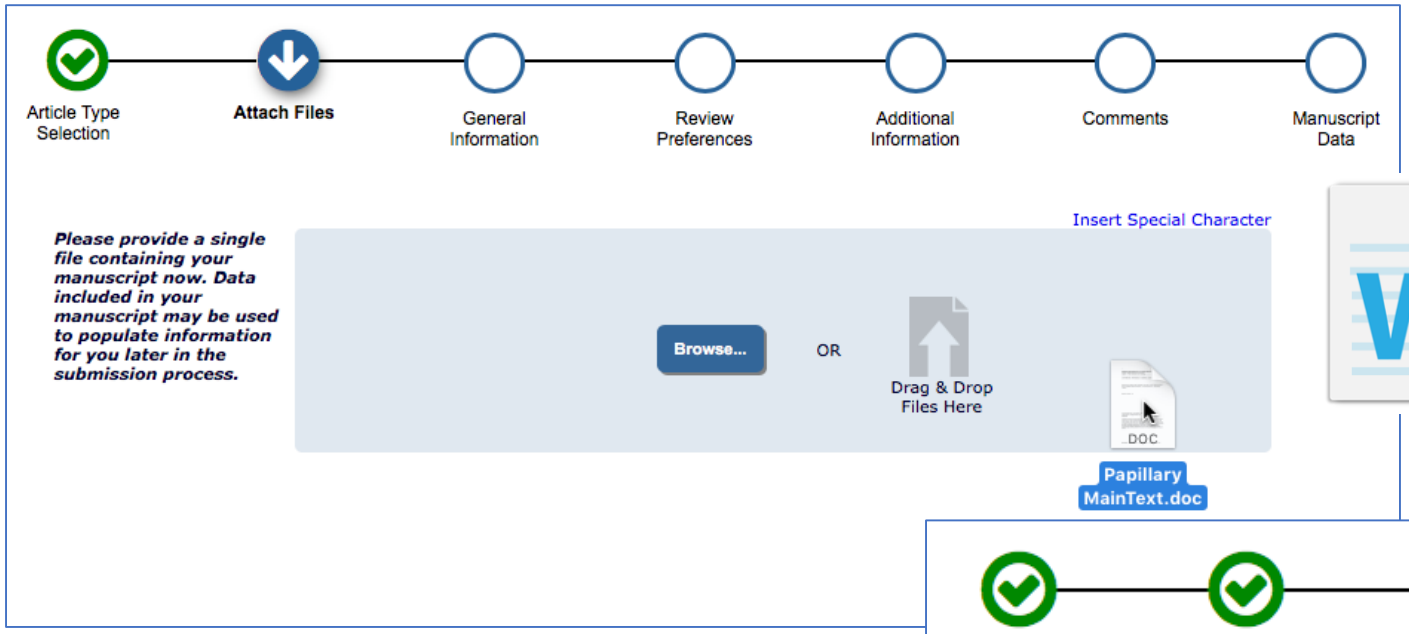
- Phase 1 – done!
- Phase 2 – well under way
- Phase 3 – end game

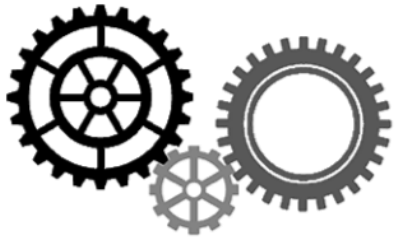
Phase I

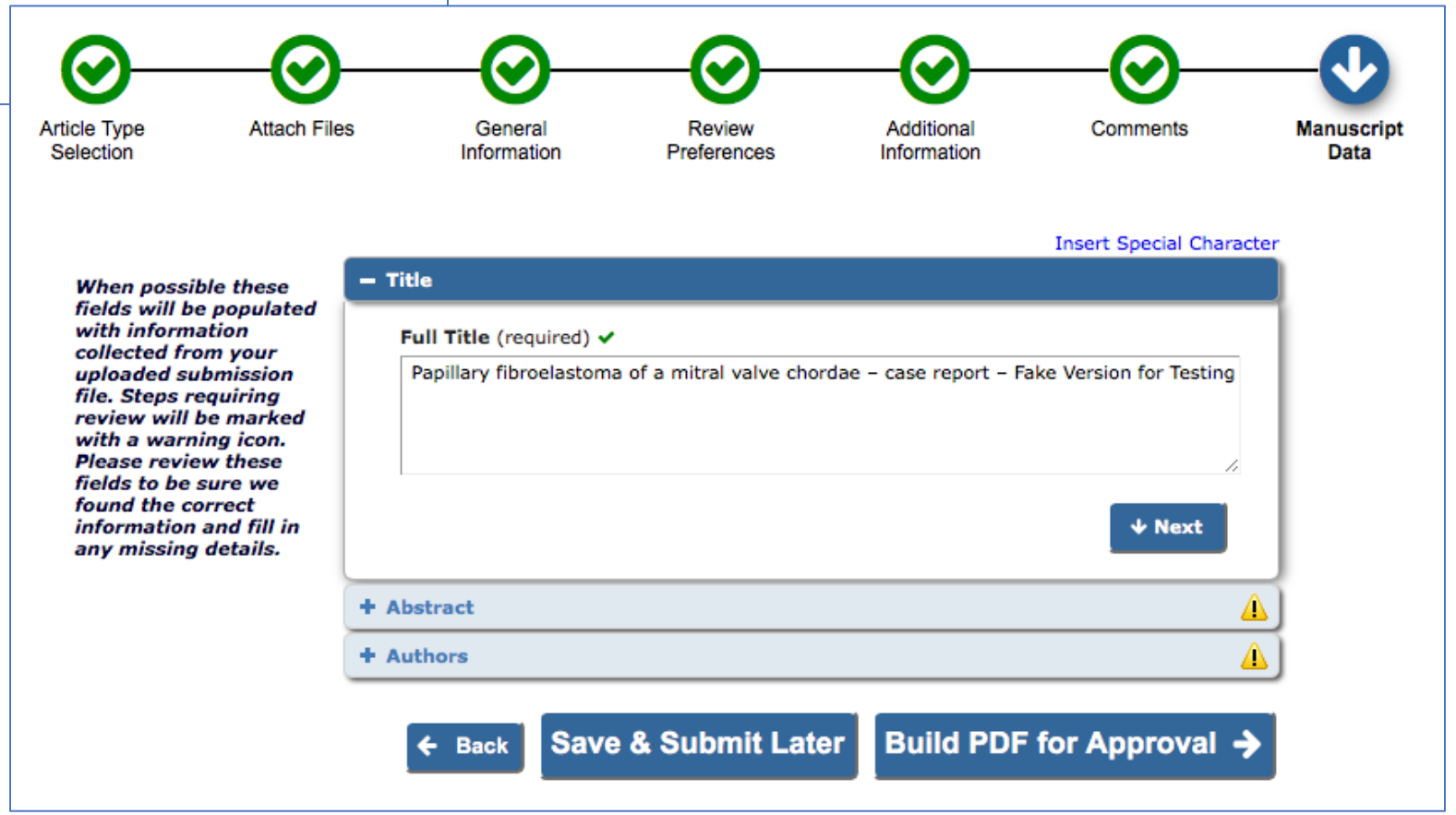
Front-Matter Conversion to XML on Submission

Phase 1 – Metadata Extraction on Submission

- Already released to all customers
- XML used behind-the scenes
  - Word doc part-converted to XML
  - XML used to populate EM
- Part of new submission UI:







Conversion to XML proceeds while Author completes other information

EM extracts metadata from converted XML 'front matter' to present to author on the last step

Phase 2

Full-Text XML Conversion for Task Workflows

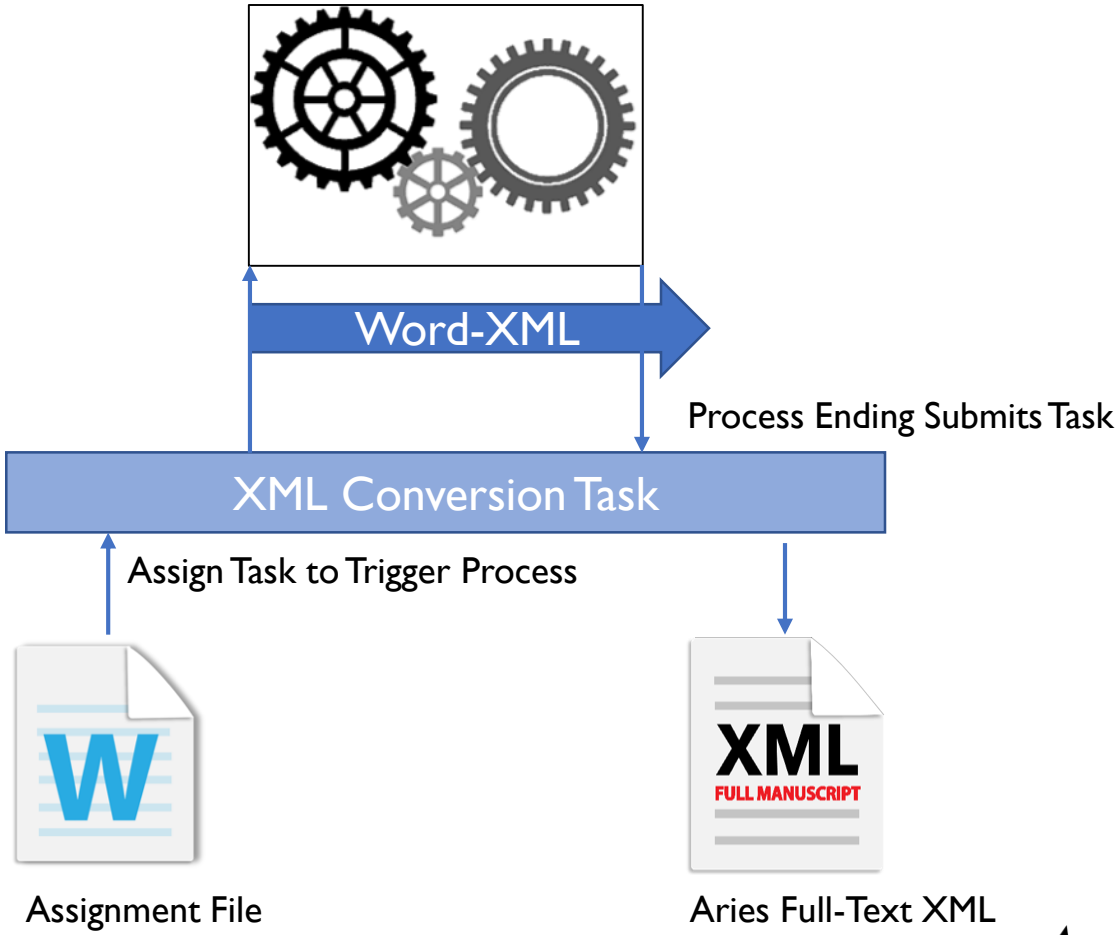
New ‘XML Tool’ Tasks to cover key processes

- Conversion of the Full Text from Word to XML
- Online Editing of the full document text in EM
  - By content experts not XML Editors
  - Hide the XML, while allowing creation of valid elements
- Transforming and Validating
  - Custom transforms for preparing XML for external use
  - Validating to non-Aries DTDs (structure)
  - Applying Schematron Rules (structure and content)
- Working with third parties
  - Transforming and validating XML sent out
  - Transforming and validating incoming XML

Conversion Task

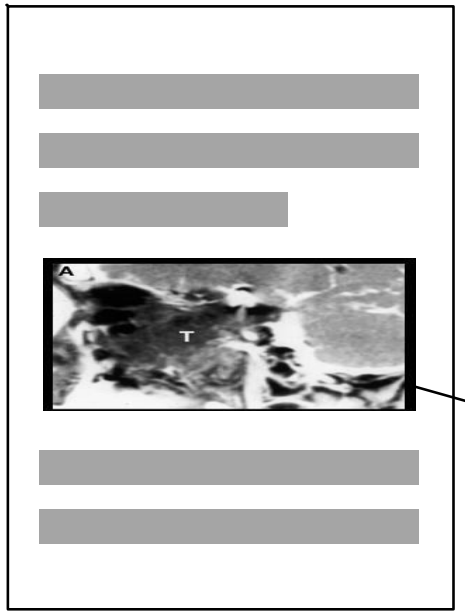
Full-Text Conversion Task

- XML Tool Task, assigned like any other
- Takes a Word document to convert as the Assignment File
- Triggers a new system process
- New software to **automatically** convert Word document to structured XML
  - No template needed
  - Heuristics to deconstruct files with a variety of structures
- On completion of the process, EM automatically submits the Task



Full-Text Conversion: Embedded Images

Word file contains embedded image



Conversion creates XML reference, extracts image, creates filename

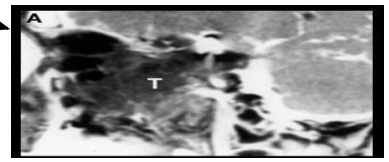
Journal Code from EM

ID from EM Submission

<inline-graphic xlink:href="JXYZ_JXYZ-D-18-00017.fx1" />

'fx' prefix + count

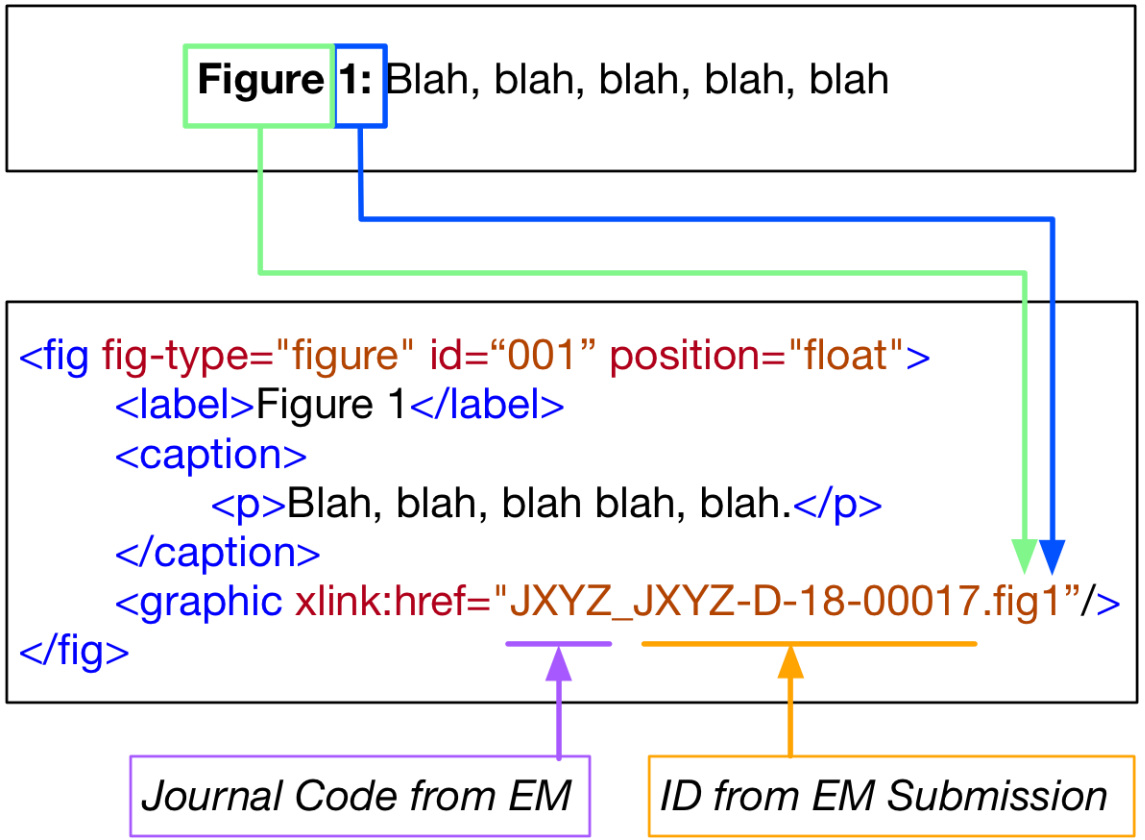
Matching filename created



JXYZ_JXYZ-D-18-00017.fx1.jpeg

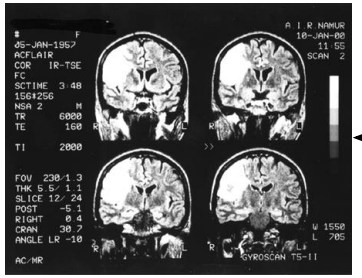
Full-Text Conversion: External Images

Conversion identifies a caption; builds XML version with an *assumed* filename



Full-Text Conversion: External Images

When Author uploads image files, caption-related information is collected



Smith 1998 Fig1.tiff

EM Metadata:

Item Type: Standard Figure

Fig No: 1

This can be used to link the figure to the XML, same rules as conversion

Item Type	Index Value	XML Reference
High Res Fig	1	JXYZ_JXYZ-D-18-00017.fig1

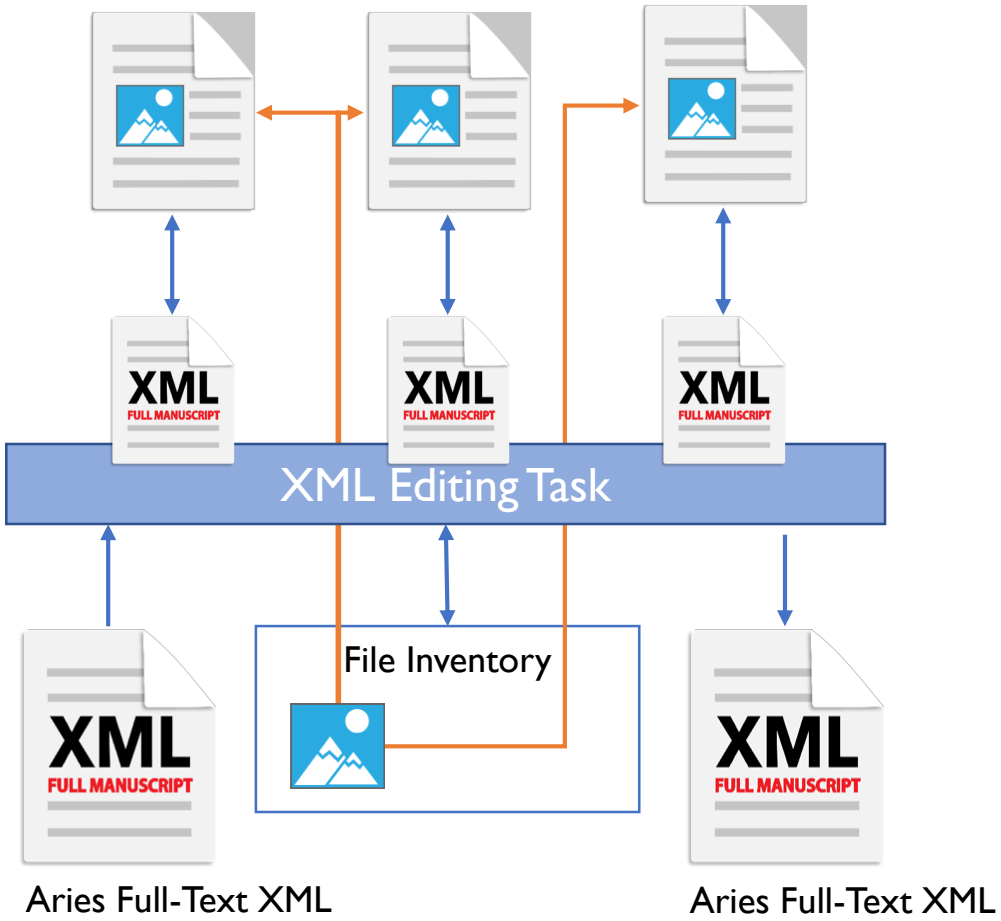
Journal Code from EM

ID from EM Submission

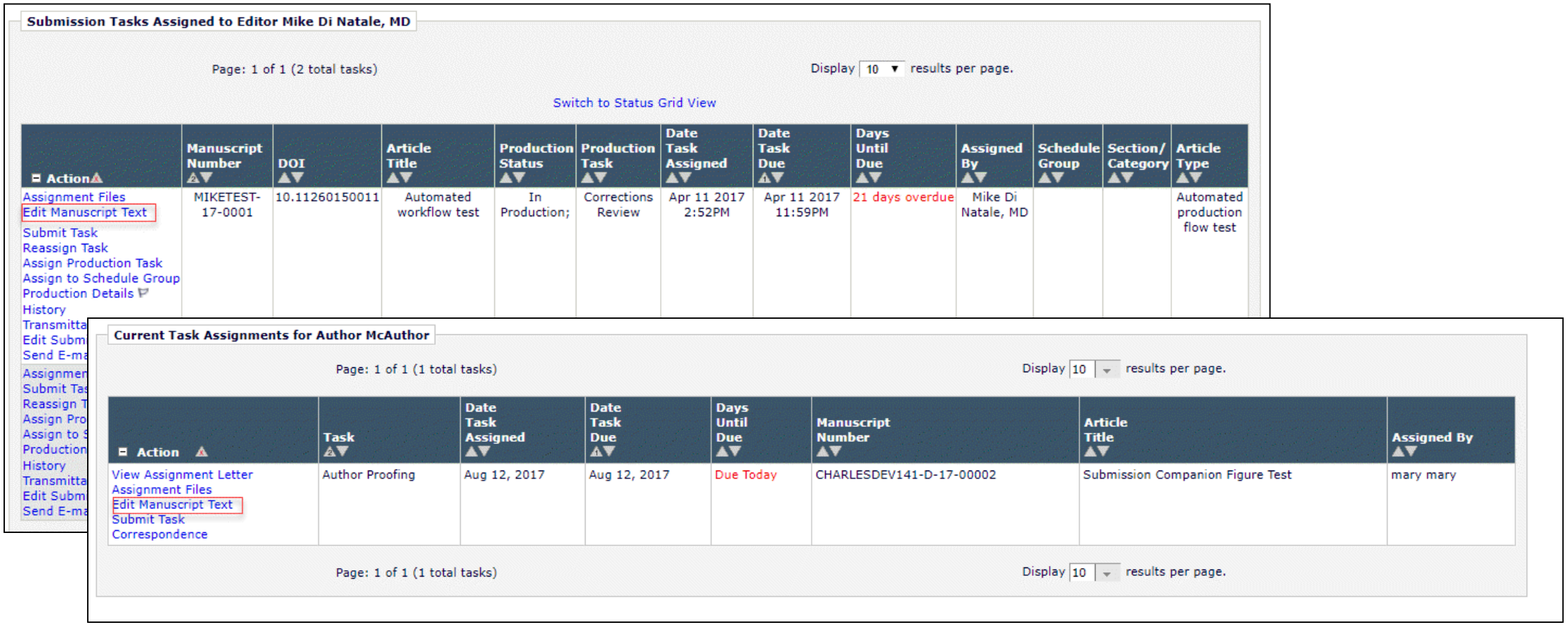
Full-Text Editing Task

XML Editing Task

- Assign Task to allow recipient to edit the XML text while task is open
- Editing via EM XML Editor
  - Based on Fonto-XML
- User sees Word-Processor like UI
  - Hides the XML
  - In-line maths, tables, figures
- The EM XML Editor understands XML rules
  - User cannot create 'bad' XML (we use JATS)
  - But can add new elements, not just edit text
- The EM XML Editor constantly 'validates' the text
  - We can warn the user of inconsistencies
- We're adding special tools to help you
  - E.g. Queries to the Author



XML Editor – Accessed via Task Assignment



Submission Tasks Assigned to Editor Mike Di Natale, MD

Page: 1 of 1 (2 total tasks) Display 10 results per page.

Switch to Status Grid View

Action	Manuscript Number	DOI	Article Title	Production Status	Production Task	Date Task Assigned	Date Task Due	Days Until Due	Assigned By	Schedule Group	Section/ Category	Article Type
Assignment Files Edit Manuscript Text Submit Task Reassign Task Assign Production Task Assign to Schedule Group Production Details History Transmitta Edit Subm Send E-ma	MIKETEST-17-0001	10.11260150011	Automated workflow test	In Production;	Corrections Review	Apr 11 2017 2:52PM	Apr 11 2017 11:59PM	21 days overdue	Mike Di Natale, MD			Automated production flow test

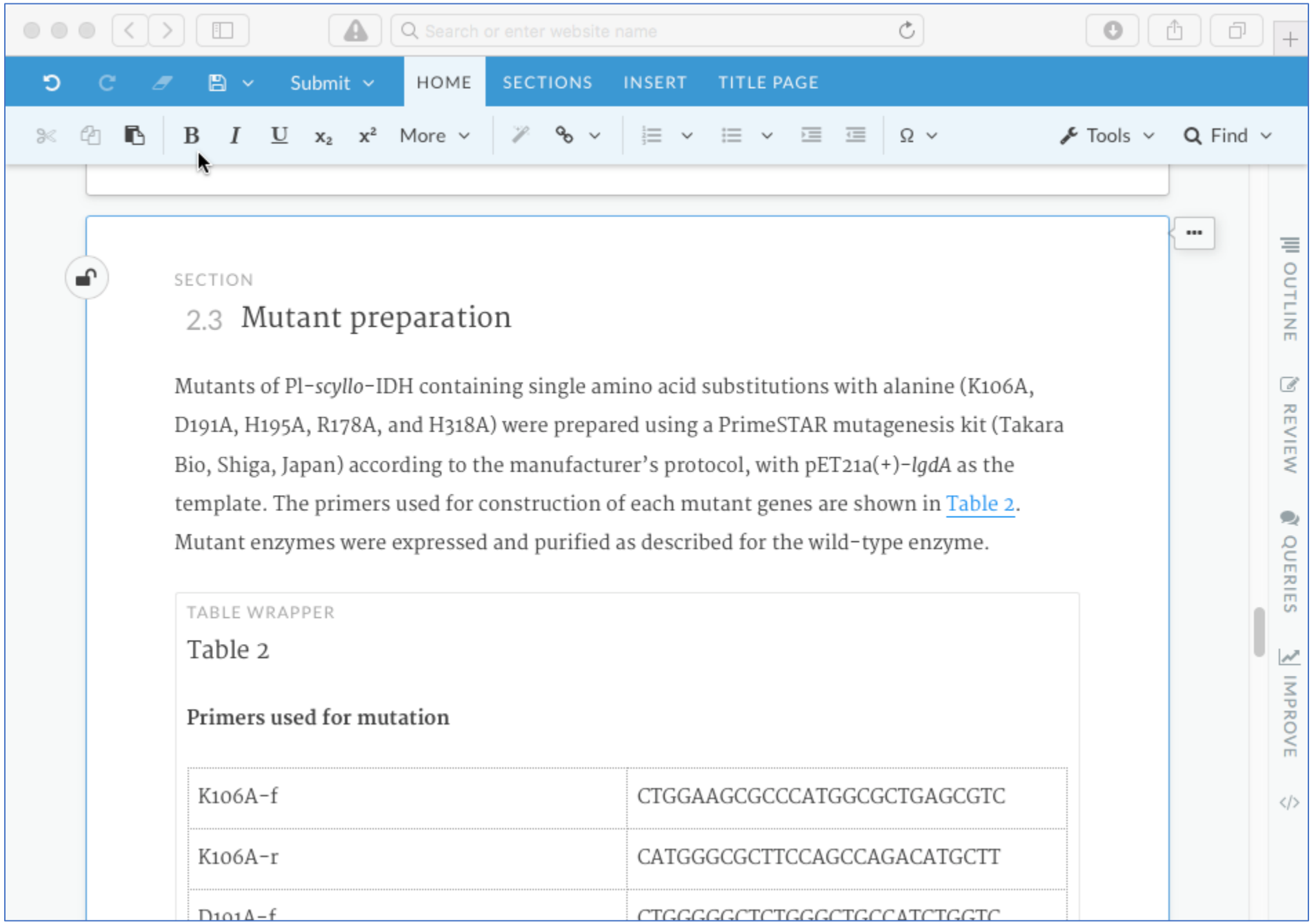
Current Task Assignments for Author McAuthor

Page: 1 of 1 (1 total tasks) Display 10 results per page.

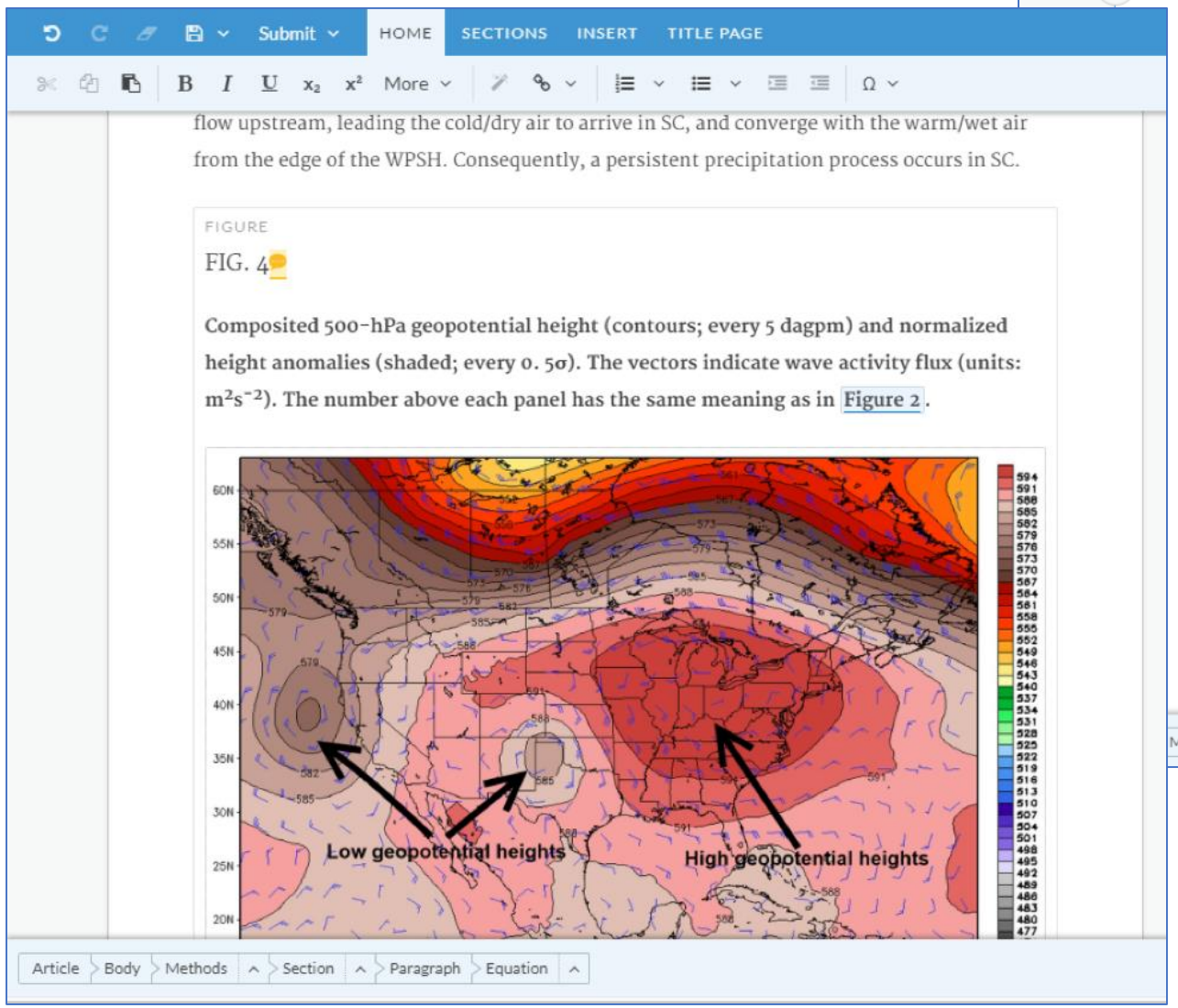
Action	Task	Date Task Assigned	Date Task Due	Days Until Due	Manuscript Number	Article Title	Assigned By
View Assignment Letter Assignment Files Edit Manuscript Text Submit Task Correspondence	Author Proofing	Aug 12, 2017	Aug 12, 2017	Due Today	CHARLESDEV141-D-17-00002	Submission Companion Figure Test	mary mary

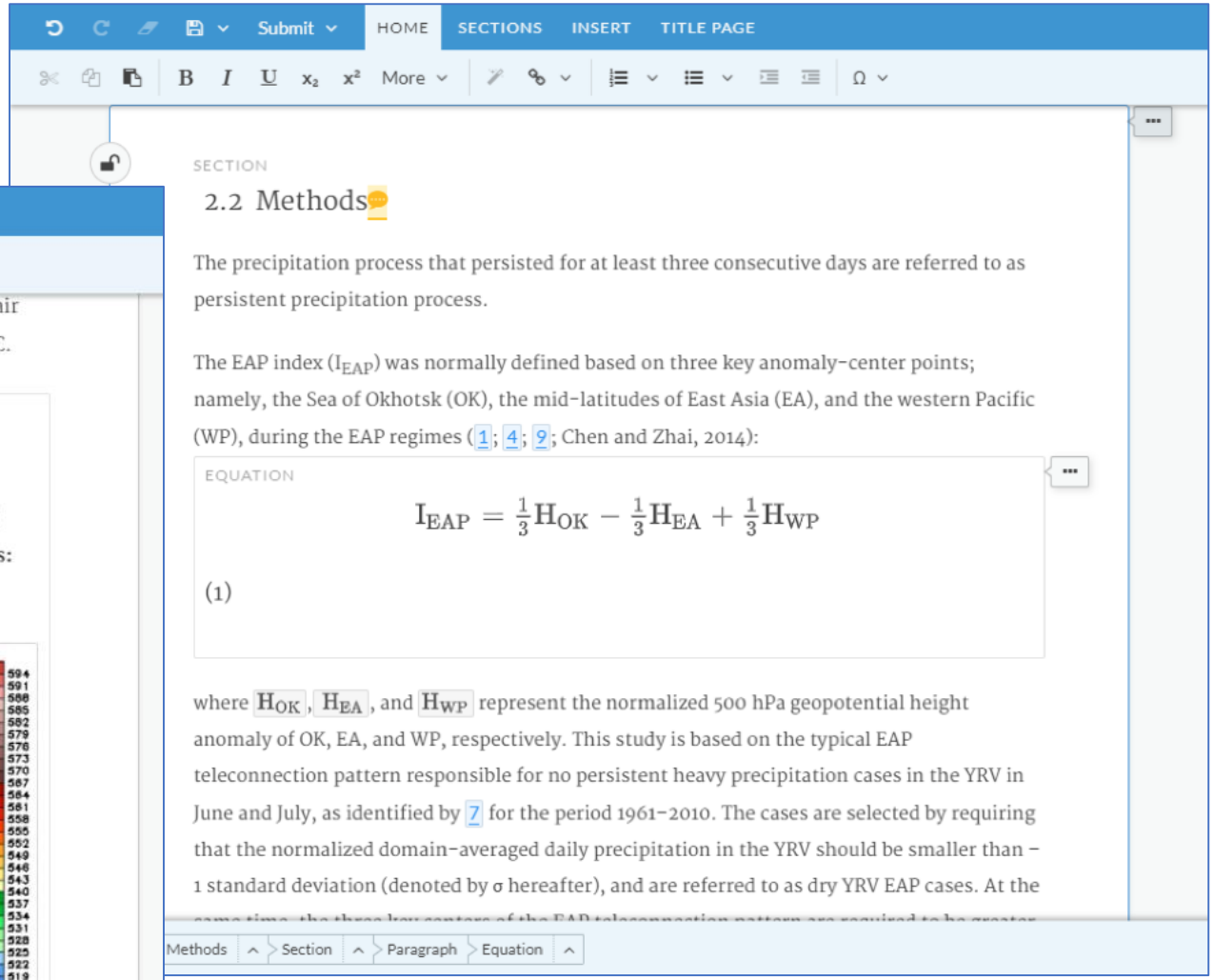
Page: 1 of 1 (1 total tasks) Display 10 results per page.

Word Processor-like
Editing environment



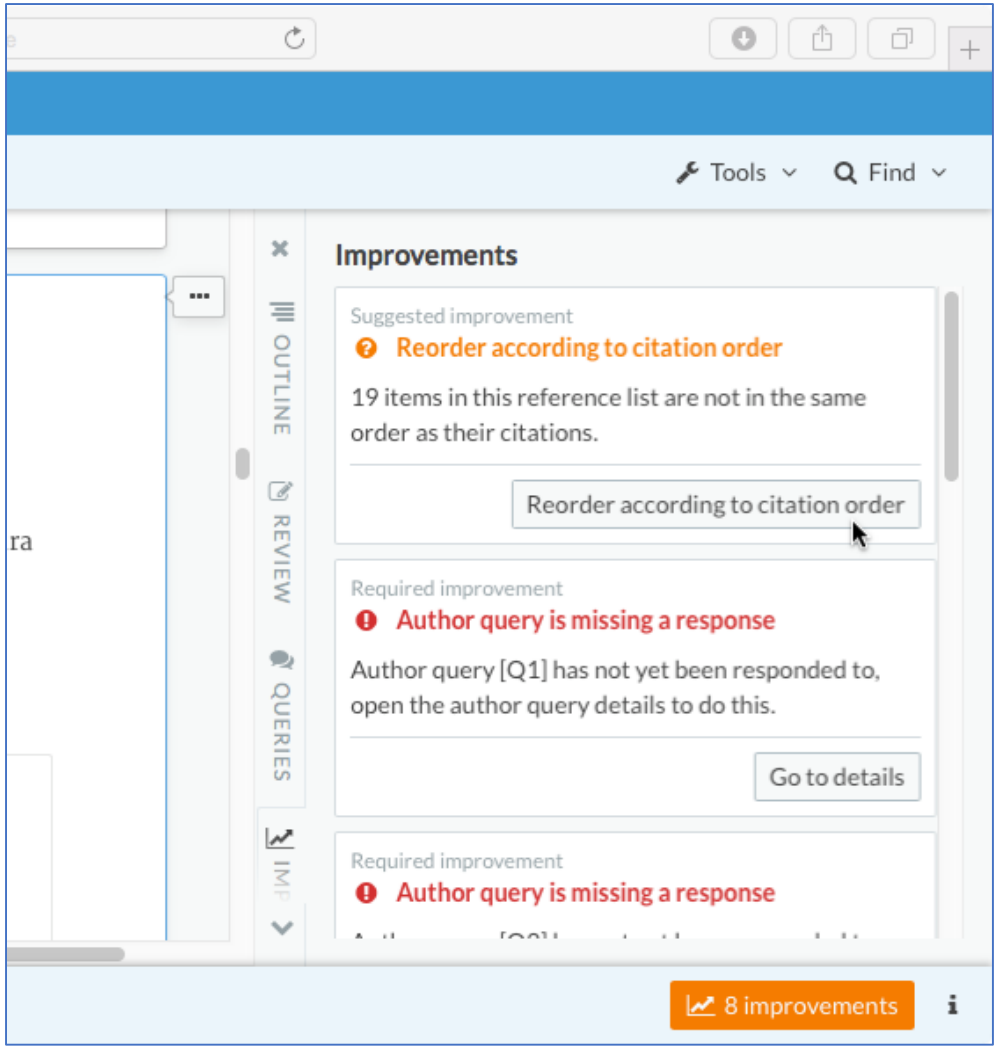
Images, tables, maths in-line





Verification by the XML Editor

- The EM XML Editor constantly parses the XML
  - Knows what elements are valid, where
- Can warn of inconsistencies and issues, e.g.
  - Missing citations
  - Missing images, tables
  - Uncited images
- Configurable, so warnings can prevent submitting edits, or just warn



EM XML Editor Custom Tools – e.g. Author Queries

- Author Query tool – Questions to Author
- Question – Response – Review cycle
- E.g.:
  - Question to Author raised by Copy Editor
  - Response entered by Author; we can enforce this
  - Response marked as Viewed/reviewed by Desk Editor

Rudney H (1940) The Utilization of L-Glucose by Mammalian Tissues and Bacteria. Science 92: 112-113. 10.1126/science.92.2379.112 17755265

2. REFERENCE

Sasajima KI, Sinskey AJ (1979) Oxidation of L-glucose by a Pseudomonad. Biochim Biophys Acta 571: 120-126. 10.1016/0005-2744(79)90232-8 40609

3. REFERENCE

Q1 Nakamura A (2015) Paracoccus laeviglucasivorans sp. nov., an L-glucose-utilizing bacterium isolated from soil. International Journal Systematic and Evolutionary Microbiology 65: 3878-3884. 10.1099/ijsem.0.000508 26243274

4. REFERENCE

Shimizu T, Takaya N, Nakamura A (2012) An L-glucose catabolic pathway in Paracoccus species 43P. J Biol Chem 287: 40448-40456. 10.1074/jbc.M112.403055 23038265

Author queries

Add query

All queries | Details of Q1

0 of 7 answered
0 of 0 reviewed

Anonymous Invalid Date

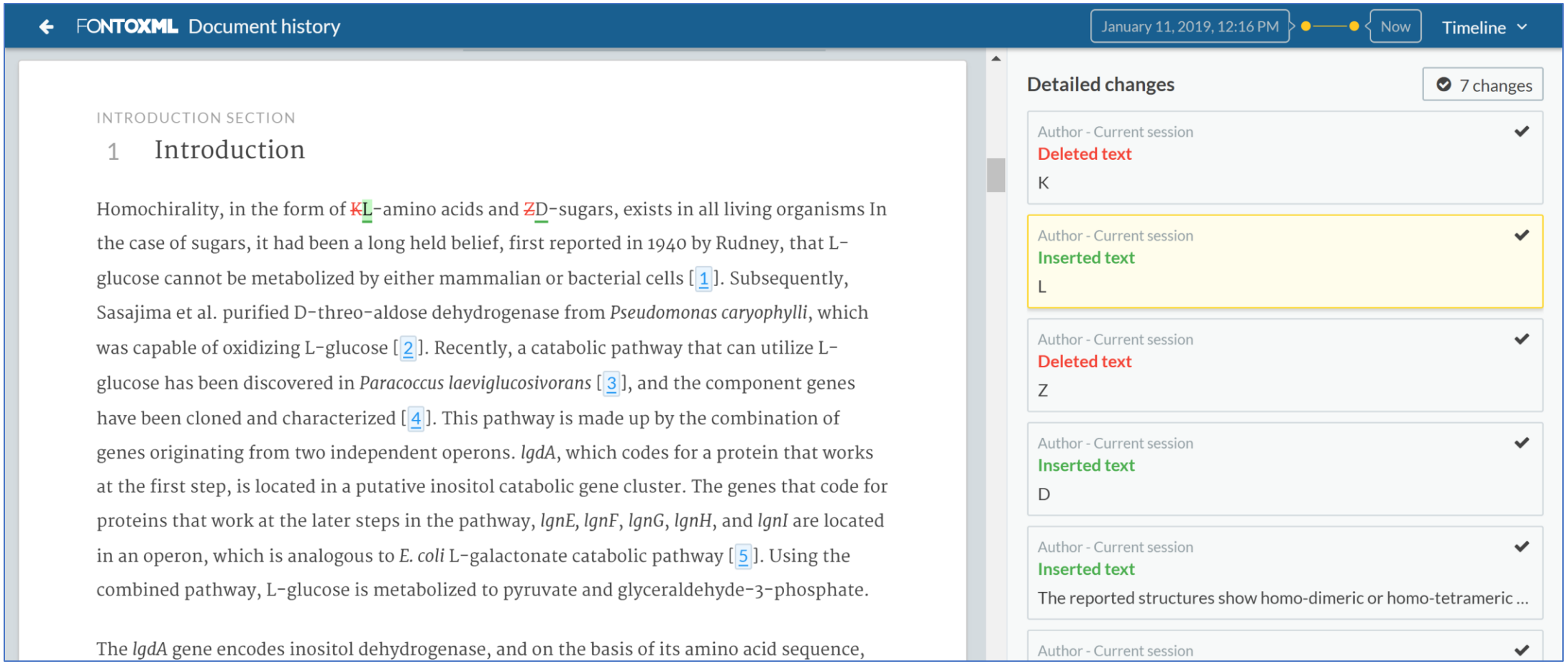
Medline reports the journal title should be "Int. J. Syst. Evol. Microbiol.", not "International Journal Systematic and Evolutionary Microbiology". (Ref. 3 "Nakamura, 2015")

This query has not yet been responded to.

Response

Click to add a response.

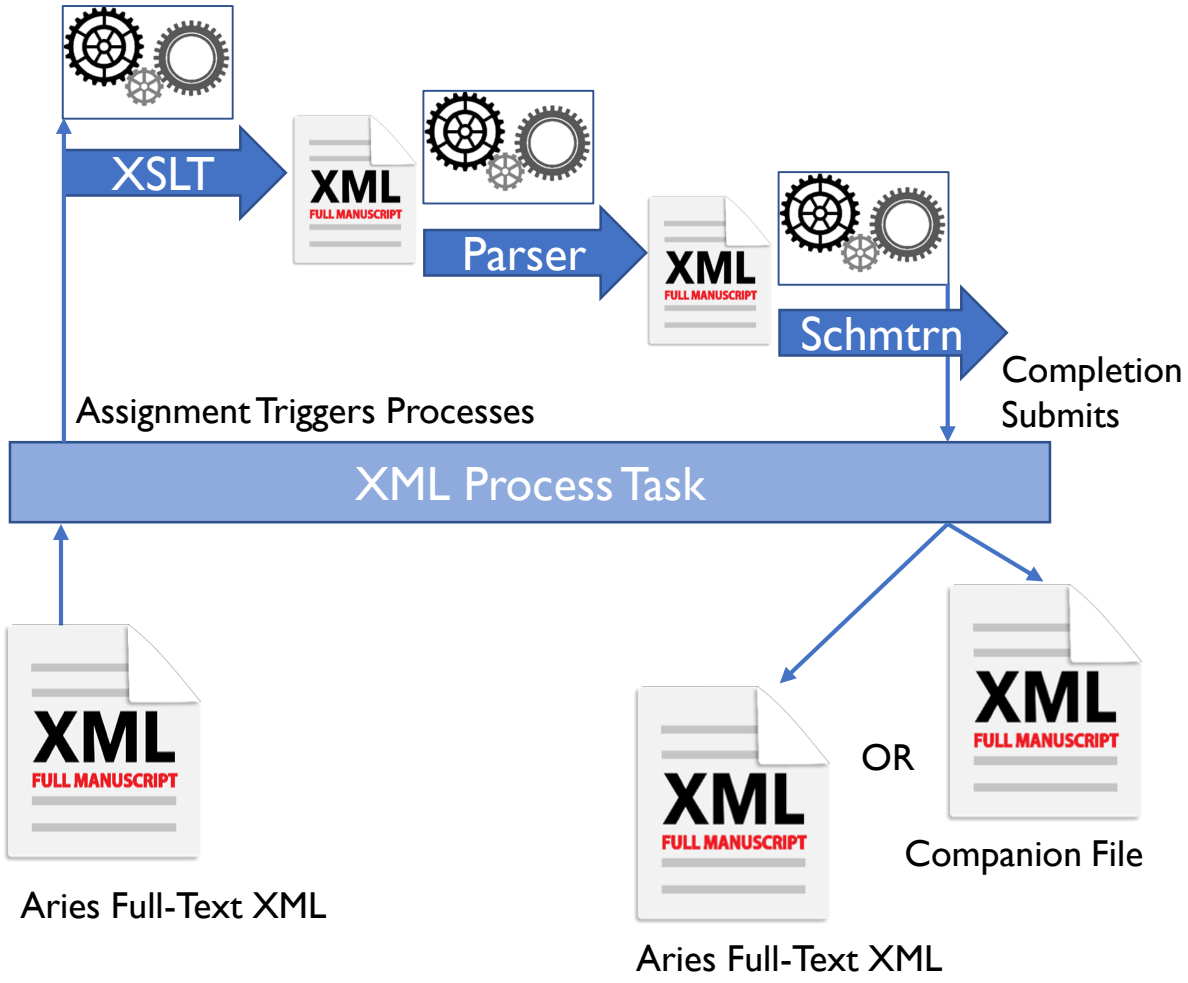
XML Editor: Review changes



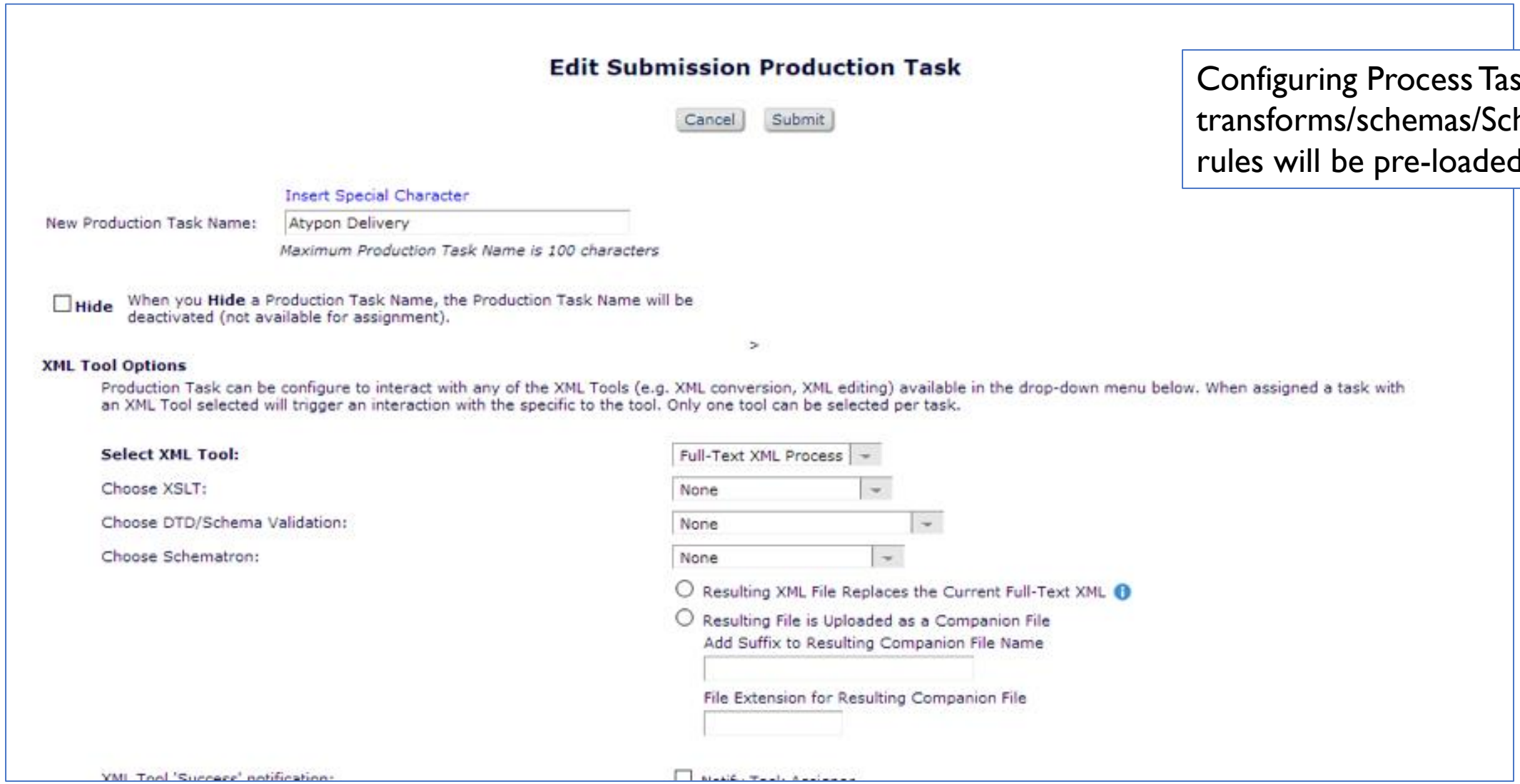
Custom XML Processing Task

XML Process Task

- Tasks to trigger Custom processes
- Up to three:
  - Transform (using XSLT)
  - Validation (e.g. to DTD)
  - Schematron validation – 'content rules'
- Results can be added to Companion Files
  - And then sent out for external processing
- Or can update the main XML
  - Triggers additional Aries validation



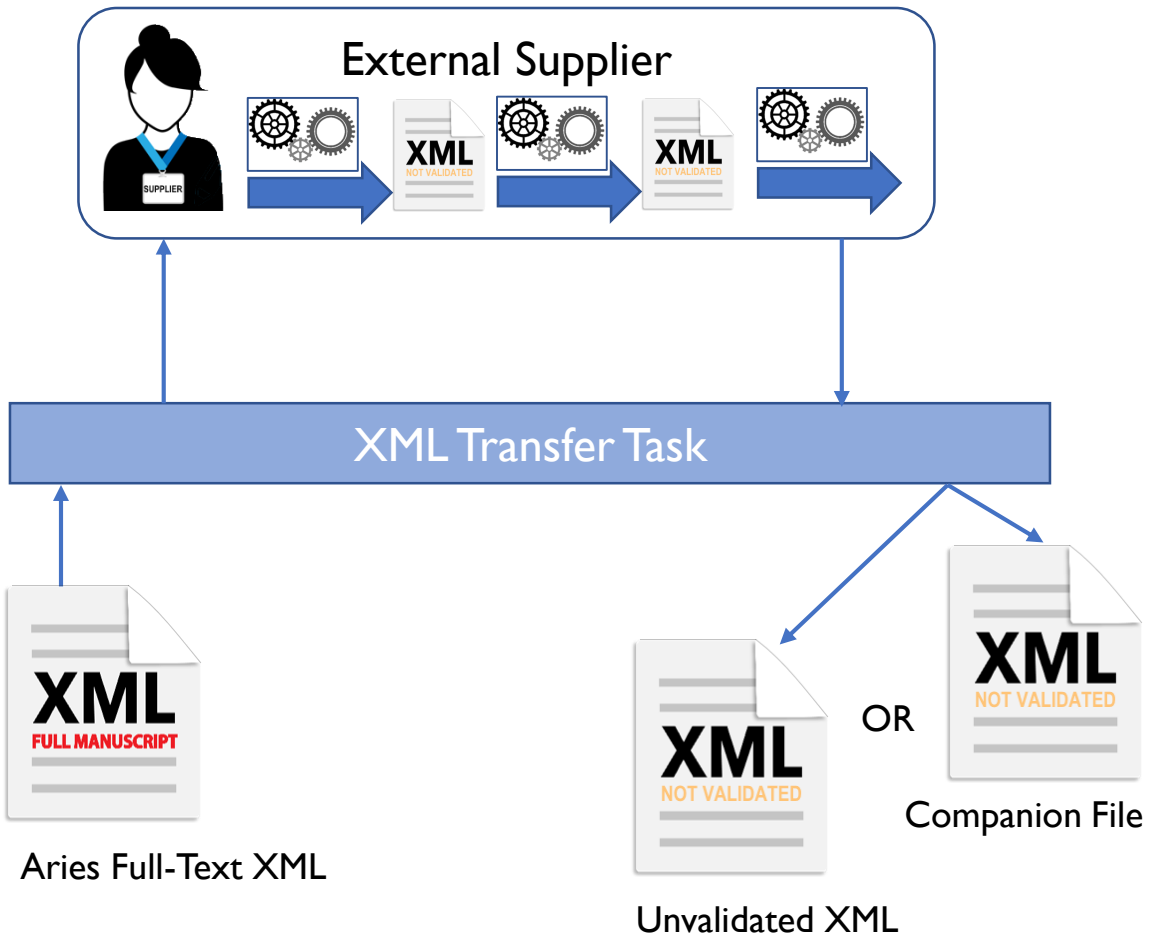
Configuring Process Task – custom transforms/schemas/Schematron rules will be pre-loaded by Aries.

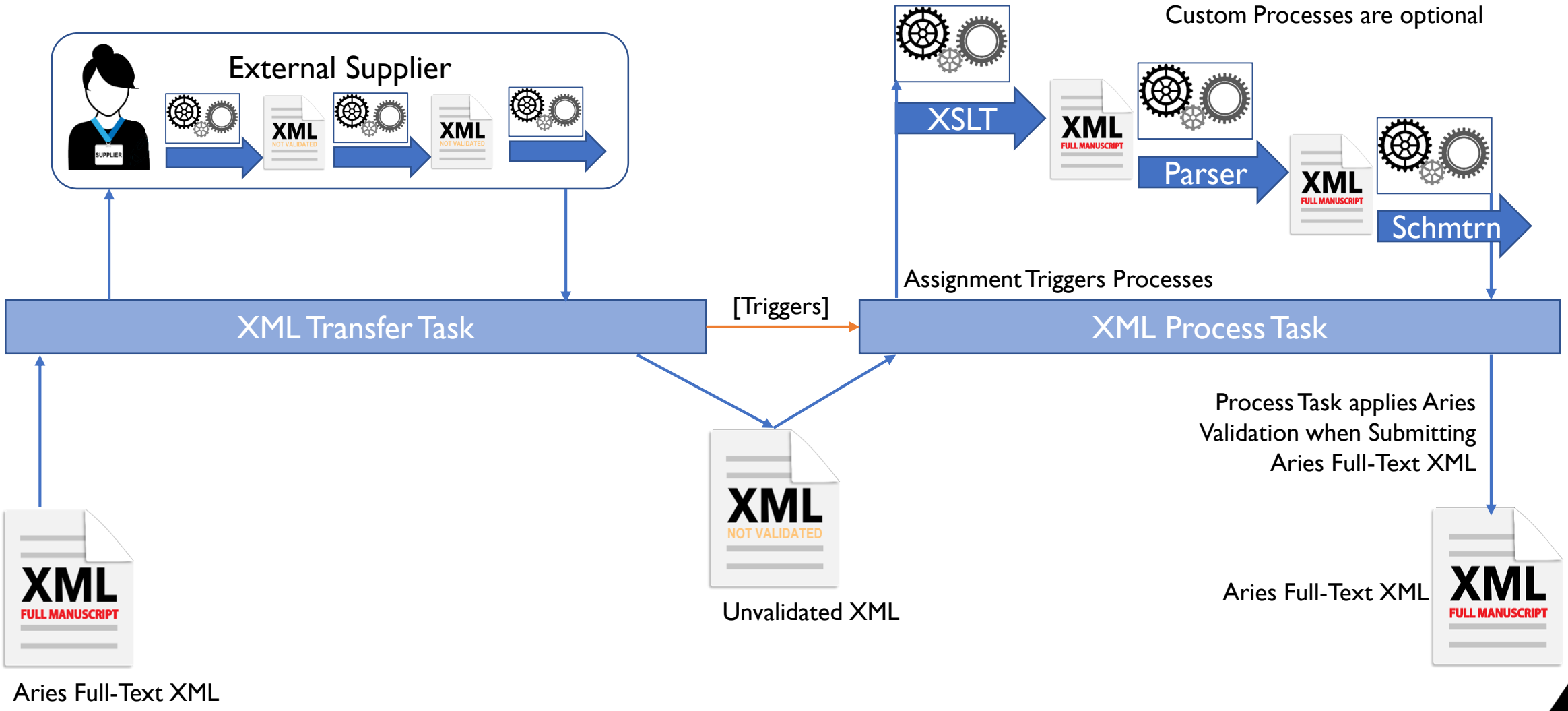


XML Transfer Task (Import & Export)

XML Transfer Task

- Export Aries JATS XML to 3rd parties
  - If your supplier can use it directly
  - Use Process Task to transform first if not!
- Allows import of Aries JATS XML
  - Use Process Task to transform if necessary
  - And to validate as Aries-standard XML




External Supplier
SUPPLIER
XML
NOT VALIDATED
XML
NOT VALIDATED
Custom Processes are optional
XSLT
XML
FULL MANUSCRIPT
Parser
XML
FULL MANUSCRIPT
Schmtrn
Assignment Triggers Processes
XML Transfer Task
[Triggers]
XML Process Task
Process Task applies Aries
Validation when Submitting
Aries Full-Text XML
XML
NOT VALIDATED
Unvalidated XML
XML
FULL MANUSCRIPT
Aries Full-Text XML
XML
FULL MANUSCRIPT
Aries Full-Text XML

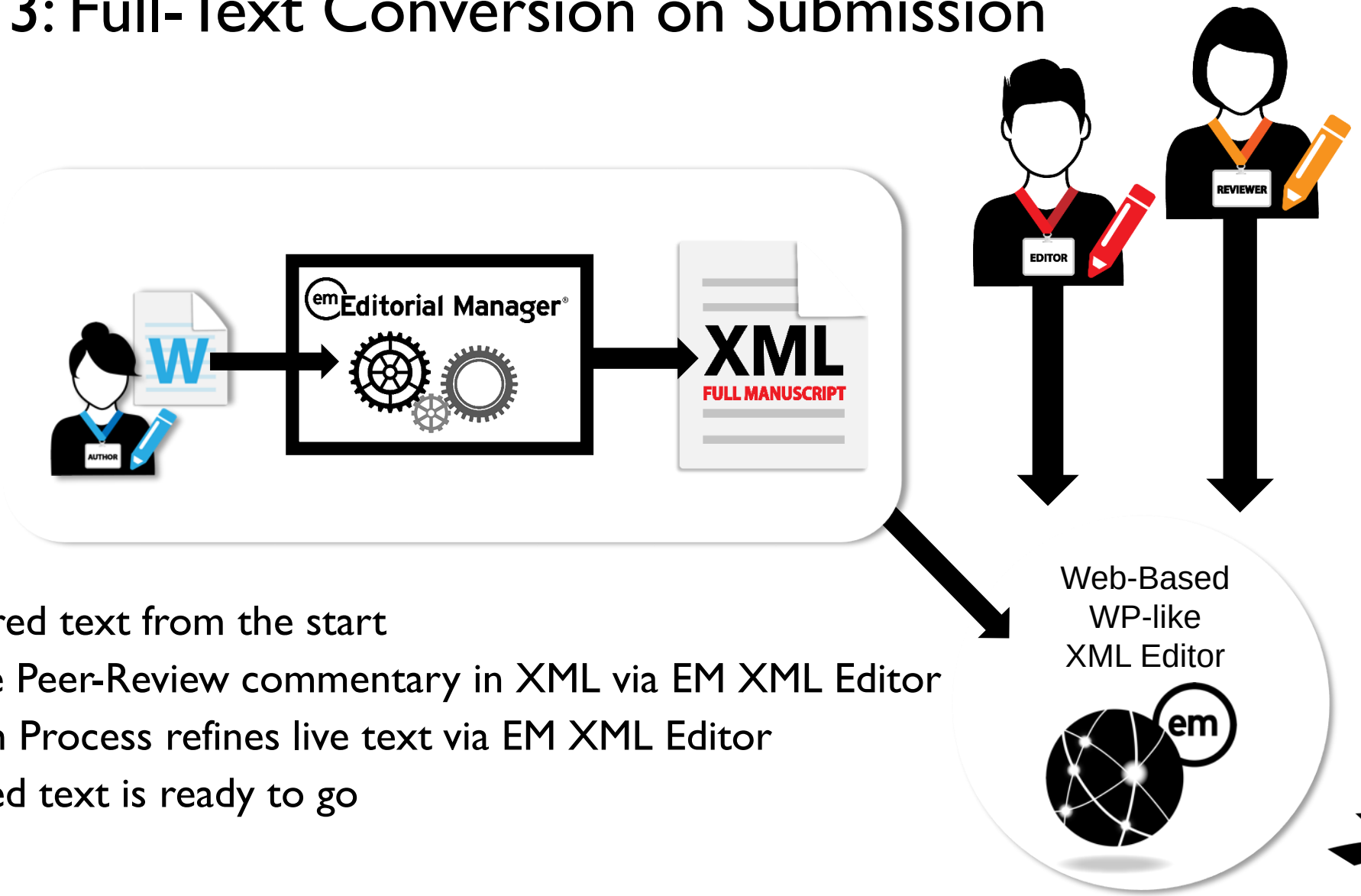
And more for Phase 2

- Continue to develop ideas
- More Editing Tools
  - E.g. more suggested Improvements
- More XML Task Types, e.g.:
  - Auto-pagination
  - PDF Rendering

Phase 3

Bringing it forward

Phase 3: Full-Text Conversion on Submission

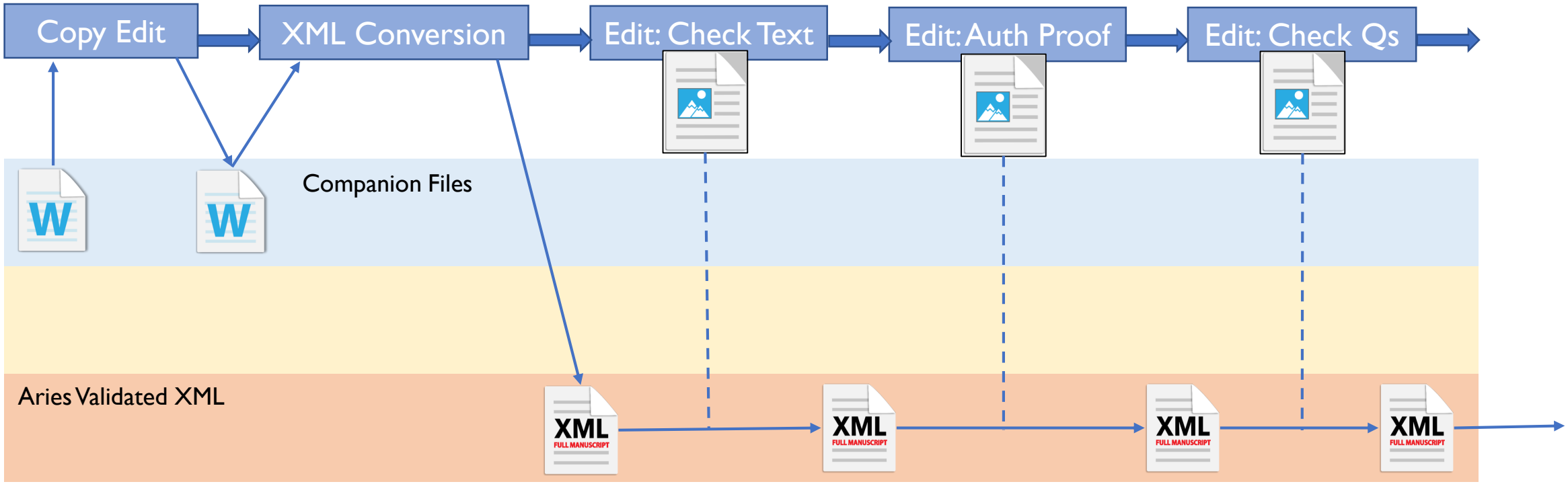


- Structured text from the start
- Capture Peer-Review commentary in XML via EM XML Editor
- Revision Process refines live text via EM XML Editor
- Accepted text is ready to go

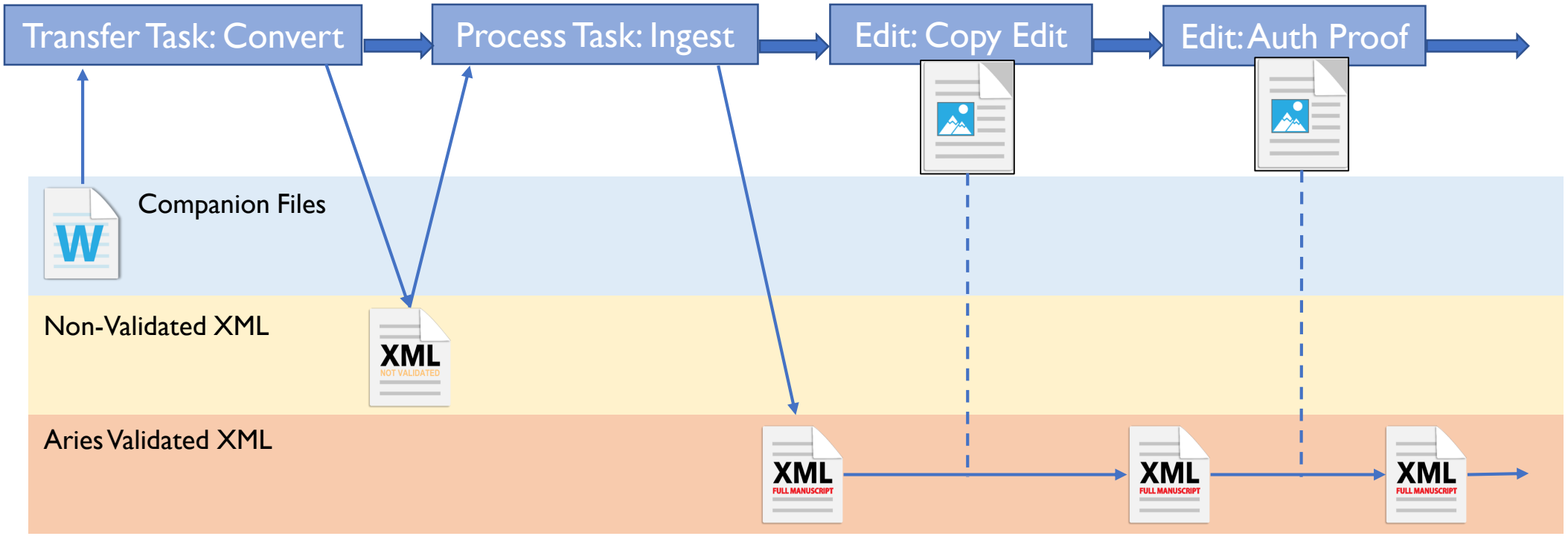
The end

Any Questions? Workflow examples?

Example Workflow: Copy Edit, Convert and Proof



Example Workflow: 3rd Party Conversion



Example Workflow: Post-Editing Delivery