Solving the complexity crisis with one-size-fits-one communication

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Three Questions Authors Struggle to Answer

• Can I publish in this (OA) journal?
• How much will I need to pay?
• If I’m not paying, then who is?
Contents

• OA at T&F
• Origins of complexity in author decision making
• The complexity crisis
• Solutions to the complexity crisis and how microservices can help
• Our experience at T&F
About Me

• Open Access Operations & Research Manager
• Day-to-operations
• Technology projects

“We will make it as easy as possible for researchers, societies, institutions, funders and governments to achieve their open scholarship aims”
# Open Access at T&F

<table>
<thead>
<tr>
<th>2014</th>
<th>Today</th>
</tr>
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<tbody>
<tr>
<td>7k OA articles online</td>
<td>64k OA articles online</td>
</tr>
<tr>
<td>34 full OA journals</td>
<td>159 full OA journals</td>
</tr>
<tr>
<td>1.8k hybrid journals</td>
<td>2.4k hybrid journals</td>
</tr>
<tr>
<td>2 people</td>
<td>14 people</td>
</tr>
</tbody>
</table>
Origins of Complexity - Internal

Causes of complexity at journal level:
• Variety of models
• Legacy agreements
• Society requirements
• License choices
• Article types
Origins of Complexity - External

Causes of complexity at author level:
• Funder requirements
• Institutional requirements
• Prepayment agreements
• OA sales agreements
• Society membership
The Complexity Crisis

• Can I publish in this journal?
• How much will I need to pay?
• If I’m not paying, then who is?
The Complexity Crisis

• It’s our job as a publisher to solve this
• “Education” doesn’t work
Naïve Solutions
Naïve Solutions
Who Will Pay

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One-Size-Fits-One Communication

• Minimize the number of decisions authors need to make
• Share the minimum amount of information they need to make those decisions – at the right time
• Have everything in one place
One-Size-Fits-One Communication

- Can I publish in this journal?
- How much will I need to pay?
- If I’m not paying, then who is?
Microservices

Monolithic Architecture

Microservice Architecture

© weaveworks https://www.weave.works/blog/what-are-microservices/
One-Size-Fits-One Communication

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Microservices

- Can I publish in this journal?
- How much will I need to pay?
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Challenges and Lessons

Practical:
• Determining affiliation
• Getting the right funding information
• Prepayment accounts
• Article types

Delivery:
• Finding the right vendors/building in-house expertise
• Aligning delivery across agile teams
• Developing integrations with live systems
Where We Are

• Still relatively early days
• Submission front-end: microservice hub live and rolling out
• Pricing decision service: MVP launching soon
• Licensing decision service: exists, but built pre-microservice architecture
Thank You!