LIFE SCIENCES: MANAGING INFORMATION CHALLENGES

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AGENDA

Elsevier Life Sciences Division
Information Explosion
Reading to Screening
Our Response
QA?
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SCIENTIFIC LITERATURE EXPLOSION
MORE THAN 1M NEW CITATIONS/YEAR IN MEDLINE

* altmetrics.org
HOW DO YOU FOCUS IN ON WHAT YOU NEED?

WHAT WAS MISSED?

I AM TAKING MORE TIME IN MY SEARCH PROCESS NOW. 檢索時間越來越長...
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READING TO SCREENING

HABITS AND NEEDS ARE CHANGING
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OUR RESPONSE

• Application Tools -> Less search: More discoveries (應用資料庫)

• Going Beyond -> Customization Services (資訊管理客製化服務)
OUR RESPONSE

• Application Tools
**OUR RESPONSE**

- **Customization Works - With a Technical Team to Support**

<table>
<thead>
<tr>
<th>Model variables are in red</th>
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<tbody>
<tr>
<td>Overhead fraction</td>
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<tr>
<td>Average Salary Scientist</td>
</tr>
<tr>
<td>Fully loaded cost/FTE</td>
</tr>
<tr>
<td>Project cost without software</td>
</tr>
<tr>
<td>Savings per project</td>
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<tr>
<td>Number of projects</td>
</tr>
<tr>
<td><strong>Total Direct Value</strong></td>
</tr>
<tr>
<td>Time savings per scientist (%)</td>
</tr>
<tr>
<td>Number of users</td>
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<tr>
<td>Annual value in time savings</td>
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<tr>
<td>Total savings per year</td>
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</tbody>
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We assume scientists will spend on average 60 minutes to find, review, and record one article, including breaks and other interruptions. The total time for the project to build a model for female sterility is 1,408 articles \times 1 \text{ hrs.} = 1,408 \text{ hrs.} = 176 \text{ days} = 52,000.

The same project using TMLS + Pathway Studio will take 5 days.

Traits discussed with **female sterility**: fruit color; plant height; plant yield; bunch size; fruit size; bunch index; fertilizer efficiency; nitrogen, phosphorus, potassium, magnesium; water efficiency; disease resistance; oil composition.

Scientists may spend a small portion of their time searching and reviewing. This estimate has a relatively small total percentage in time savings, but it is multiplied by the number of users.

Assuming **TMLS** will provide TMLS access to 100 employees.
• The team

-50+ - Computational chemists+biologists+Excerpters with biomedical domain trainings (eg. Nurses, allied health professionals)

-200+ - Software developers/IT/Quality Assurance

-50+ - Product Specialists Globally
WHAT IT MEANS FOR LIBRARIANS?

Usage (quantitative) = ?

Direct answers/efficiency (qualitative) = ?

Customization (solutions/partnership) = ?
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QUESTIONS?

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