An Automated Literature Analysis Tool to Enhance Literature Searches for Publication Subcommittees (PSCs) and Publication Planning

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Objectives

The problem was to provide PSCs with literature searches as needed, without requiring them to spend time on large-scale search projects. The project was launched to identify and address these needs.

Research Design and Methods

A feedback mechanism was introduced by the literature search team in order to gain customer input. The customer was notified by email after an alert is set when new references have been retrieved for the search. The team monitored feedback and implemented changes as needed.

Figure 1. Project Overview of Define, Measure, Improve, Analyze, Control (DMAIC) Process

Control

Define

Measure

Improve

Analyze

Results

During Phase I of the project, a hard savings of $12,829, as well as a released capacity of $115,500 was reported.

Figure 2. Critical to Quality

Table 1. In-Process Audit Results

<table>
<thead>
<tr>
<th>Product</th>
<th>Overall</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>Declared</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product A</td>
<td>96</td>
<td>31</td>
<td>100</td>
<td>2</td>
<td>BPA</td>
</tr>
<tr>
<td>Product B</td>
<td>46</td>
<td>130</td>
<td>120</td>
<td>3</td>
<td>NC</td>
</tr>
</tbody>
</table>

* Note: All in-process audit results are written in full to indicate specific areas of attention.

Conclusion

The literature analysis tool enables an efficient and effective literature search process. The tool allows for a more streamlined and cost-effective literature search process for PSCs.

Figure 3. Design Phase of the Hospital Pre-Approach

An iterative focus group approach was implemented to ensure the tool was meets the needs of the customer. The feedback gathered from the customer was used to improve the tool.

Figure 4. Critical to Process

Table 2. Literature Audit Results

<table>
<thead>
<tr>
<th>Product</th>
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Discussion

The literature analysis tool provides a high-level summary of the literature and helps guide the search process. The tool also allows for a more efficient and cost-effective literature search process for PSCs.

Figure 5. Literature Analysis Tool - Search

The tool allows for a more efficient and cost-effective literature search process for PSCs. The tool enables a more streamlined and cost-effective literature search process for PSCs.

Figure 6. Search Analysis Generated in Administration Section of Literature Analysis Tool

The tool allows for a more efficient and cost-effective literature search process for PSCs. The tool enables a more streamlined and cost-effective literature search process for PSCs.

Figure 7. 10 Hit List Report with Key Concepts Ahead

Figure 8. 10 Hit List Report Demonstrating Ability to Search and Sort

Figure 9. Bar Chart by Topic with 97% Acx Covered

Figure 10. Pie Chart by Journal (Top 10)

Figure 11. Bar Chart by Author (Top 10)

Figure 12. bar chart showing research results with Table of Contents

Figure 13. Pie Chart by Author (Top 10)

Figure 14. Pie Chart by Author (Top 10)

Figure 15. Bar Chart by Author (Top 10)