Setting up SOMAR

Libby Hemphill
ICPSR
Setting up SOMAR: Timeline

**Fall**
Outline Technical Infrastructure
Libby, REU students

**Winter**
Discuss with ARC-TS
Jeff, Jeremy, Jule, Libby, Seth

**Spring**
ICPSR Builds Prototype
ICPSR CNS, Libby
# Setting up SOMAR: Technology Stack

<table>
<thead>
<tr>
<th>Function</th>
<th>Technology</th>
<th>Provider</th>
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</thead>
<tbody>
<tr>
<td>Data Ingest</td>
<td>Custom Python/Java</td>
<td>AWS</td>
</tr>
<tr>
<td>Search</td>
<td>Elasticsearch</td>
<td>AWS</td>
</tr>
<tr>
<td>Visualization/exploration</td>
<td>Kibana</td>
<td>AWS</td>
</tr>
<tr>
<td>Sandbox</td>
<td>Django + Elasticsearch + Kibana</td>
<td>Yottabyte through ARC-TS</td>
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</tbody>
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Additional Info

Contact:

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SOMAR Overview:

https://deepblue.lib.umich.edu/handle/2027.42/143185
If Needed Slides Follow
Setting up SOMAR: Computing Resources

1. Work out general plan with REU students
2. Discuss general plan with ARC-TS
3. Test plan on minimum-scale AWS resources
4. Propose plan and explain test outcomes to ICPSR CNS
5. ICPSR CNS builds SOMAR pilot in Archonnex
Hold for Kibana screen shot