<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Develop BioBricks</td>
</tr>
<tr>
<td>2</td>
<td>Develop genetic constructs</td>
</tr>
<tr>
<td>3</td>
<td>Knock out undesirable genes</td>
</tr>
<tr>
<td>4</td>
<td>Introduce desired genetic constructs</td>
</tr>
<tr>
<td>5</td>
<td>Select improved strain</td>
</tr>
<tr>
<td>6</td>
<td>Pilot-scale bioreactor</td>
</tr>
<tr>
<td>7</td>
<td>Commercialization of 1st strain</td>
</tr>
<tr>
<td></td>
<td>Development of strains for new compounds</td>
</tr>
<tr>
<td></td>
<td>Development of strains for lignocellulosic feedstocks</td>
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</tbody>
</table>

**Strain Improvement**

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Process Development Conceptual Design</td>
</tr>
<tr>
<td></td>
<td>Markup prototype 1</td>
</tr>
<tr>
<td></td>
<td>Bench-scale modeling</td>
</tr>
<tr>
<td></td>
<td>Design Review</td>
</tr>
<tr>
<td></td>
<td>Analysis Markup prototype 2</td>
</tr>
<tr>
<td></td>
<td>Proof of concept</td>
</tr>
<tr>
<td></td>
<td>Pilot-scale plan</td>
</tr>
<tr>
<td></td>
<td>Cost Analysis/Detailed Engineering</td>
</tr>
<tr>
<td></td>
<td>Industrial-scale plan</td>
</tr>
<tr>
<td></td>
<td>Process Optimization</td>
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</tbody>
</table>

**Financing**

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kickstarter campaign</td>
</tr>
<tr>
<td></td>
<td>Approaching angel investors</td>
</tr>
<tr>
<td></td>
<td>Approaching recycling plants</td>
</tr>
<tr>
<td></td>
<td>Front-end funding</td>
</tr>
</tbody>
</table>

**Marketing**

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Market Analysis</td>
</tr>
<tr>
<td></td>
<td>Company Packaging</td>
</tr>
<tr>
<td></td>
<td>On-the-road representative advertising</td>
</tr>
<tr>
<td></td>
<td>Advertising on the web and in trade publications</td>
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<tr>
<td></td>
<td>Participation at trade shows</td>
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<tr>
<td></td>
<td>Sponsoring iGEM teams and charities</td>
</tr>
</tbody>
</table>

**Contracts**

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Establish contracts with enzyme suppliers</td>
</tr>
<tr>
<td></td>
<td>Establish contracts with process equipment suppliers</td>
</tr>
<tr>
<td></td>
<td>Establish contracts with recycling plants</td>
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<tr>
<td></td>
<td>Establish contracts with clients in the specialty chemical industry</td>
</tr>
<tr>
<td></td>
<td>Establish contracts with clients in the pharmaceutical industry</td>
</tr>
<tr>
<td></td>
<td>Establish contracts with suppliers of lignocellulosic feedstocks</td>
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</tbody>
</table>

**Intellectual Property**

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Securing license from Frost Group (in progress)</td>
</tr>
<tr>
<td></td>
<td>Protecting IP on process (application)</td>
</tr>
</tbody>
</table>

**Regulatory Approval**

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Documentation preparation</td>
</tr>
<tr>
<td></td>
<td>Certification for the specialty chemical industry</td>
</tr>
<tr>
<td></td>
<td>Certification for the food industry</td>
</tr>
<tr>
<td></td>
<td>Certification as primary supplier for the pharmaceutical industry</td>
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</table>