GEN3BIO

*Generating **revenue** from municipal wastewater*

Definition

Gen3Bio transforms municipal wastewater by converting landfill expenses into profitable specialty chemicals

It Begins with Algae

> We maximize chemical recovery yields from algae via a proprietary enzyme blend that optimizes sugar, fat and protein extraction

Over prior technologies we…

- increase algae product yields **50%**
- reduce capital requirements up to **90%**
- reduce operating expenses up to **50%**

Our Tangible Progress

- Base technology proven in the lab at various scales
- Basic 5 gallon and 15 gallon pilot plant designs completed
- Interest from facilities in six states for on-site pilot plant trials in Iowa, Illinois, Kansas, Michigan, Ohio, Utah.

Opportunity

The EPA is targeting a
municipal wastewater nutrient discharge reduction of

95%

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Algae is the Solution

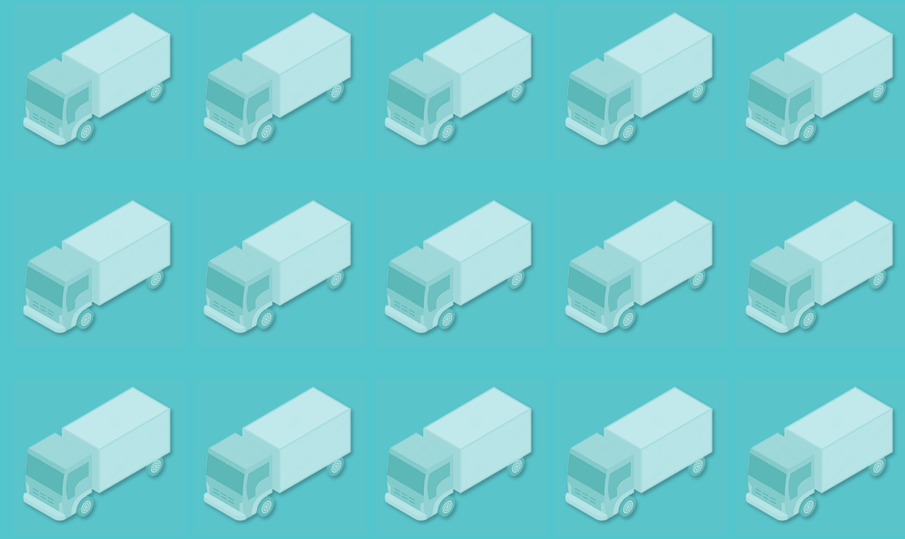
Wastewater nutrients provide a natural algae food source. Therefore, algae use reduces nutrient discharge. BUT, what do we do with all of this algae?

The Challenge with the Solution

One large operator will need to dispose of 15 semi-trucks of algae per day, at an annual cost of

$5.5 Million

*not including operational costs



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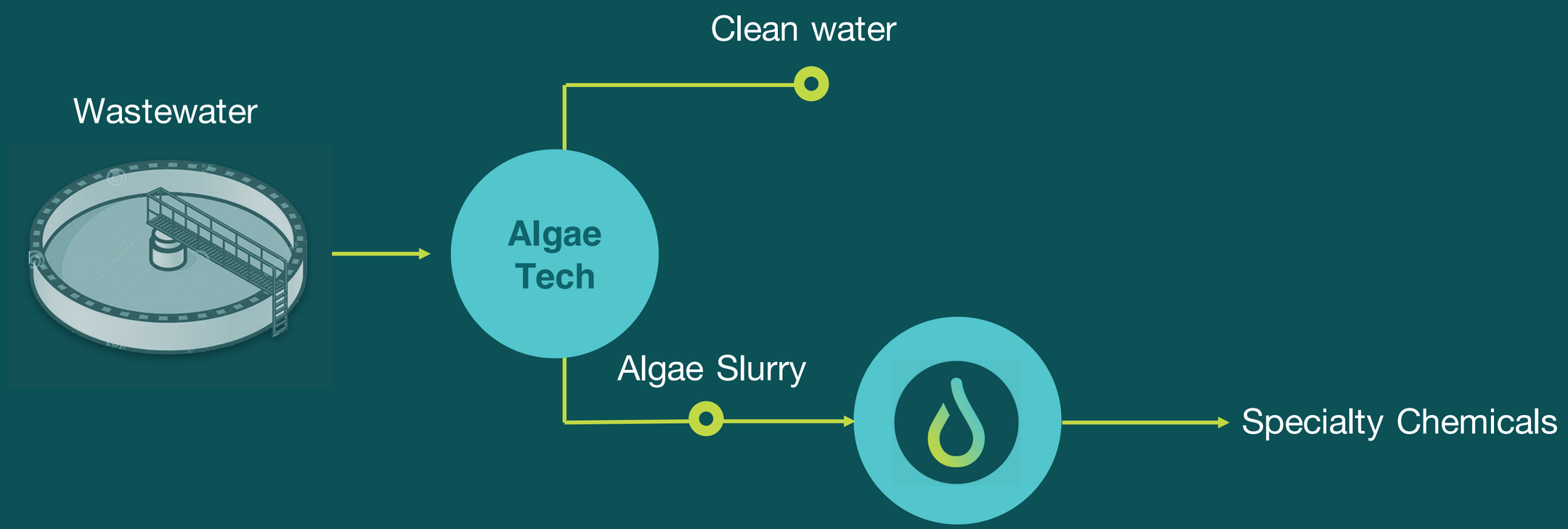
Turning the Challenge into Cash

GEN3BIO enzyme technology converts that waste into products with the $5.5M expense converting into a specialty chemical revenue of

$200 MILLION

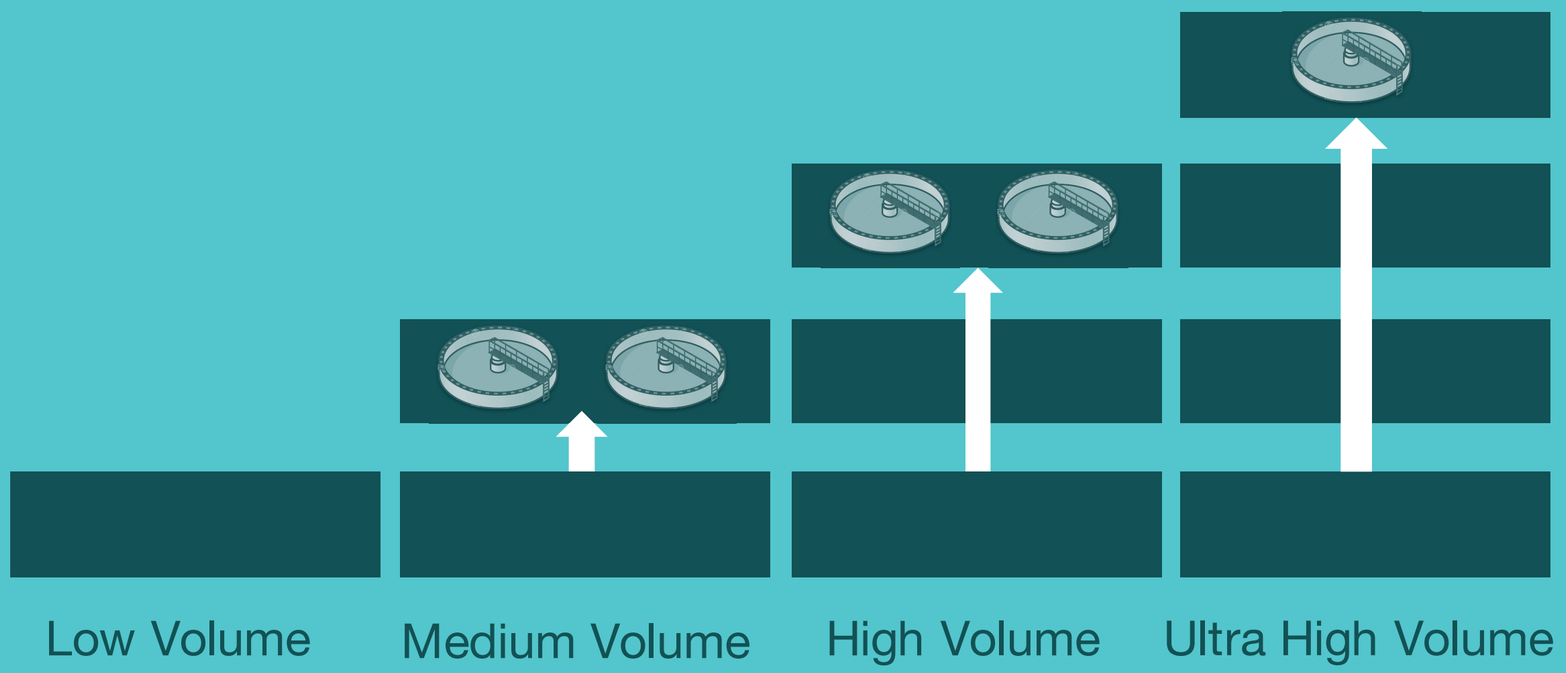
Here Does Gen3Bio Fit?



Business Model

Own and operate plants at municipal wastewater treatment facilities with % of net product revenue provided back to clients.

WWTF Revenue Targets



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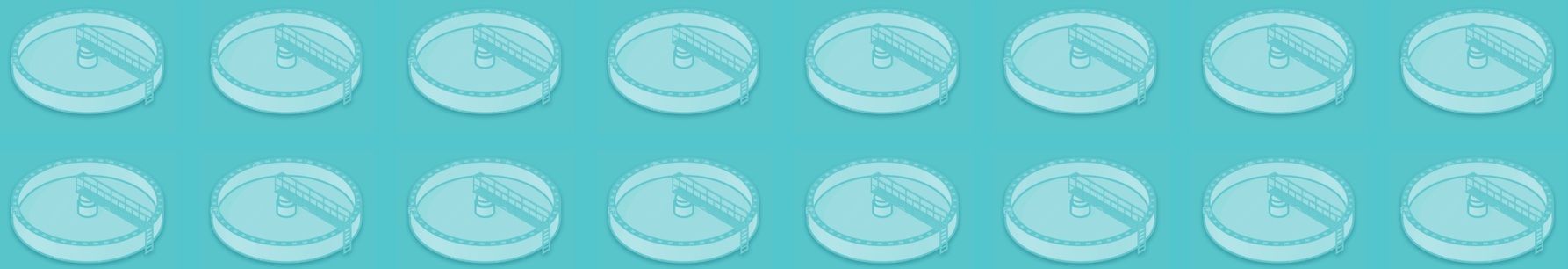
The Scope

There are over 16,000 wastewater treatment facilities in the United States alone.



* = 1,000

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The Team

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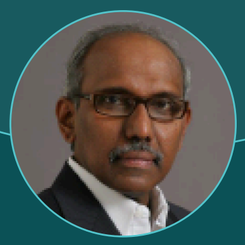

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i2M
a MANN+HUMMEL company

PURDUE FOUNDRY

InNOW
Technology for A Better World

Advanced Algae Systems

CLEARAS
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GWT
GROSS-WEN TECHNOLOGIES

THE UNIVERSITY OF TOLEDO
1872

In the News

Waste360 | 9/15/17
New Technology Turns Waste Algae into Biochemicals

Bio-Based World News | 8/14/17
Plans Underway to Scale up Tech that Transforms Microalgae into Bio-based Chemicals.

Algae Industry Magazine | 7/24/17
Improving Algal Extraction for Chemical Components

Purdue University Research Foundation News | 7/19/17
Technology Could Transform Microalgae into Bio-based Chemicals to Increase Biofeedstock, Reduce Landfill Waste

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