TAXA

Investor Presentation
May 2016

A Bioengineered World

Economics – Glowing Plant – Shipping Fluc v1

Generates Cashflow
$650K Pre-orders
90%+ Gross Margin

Positive Story
Marketing for Biofab

Proved Science
Best assay for developing platform

* Long exposure photograph, luminosity still being enhanced

Fragrant Moss – ready to ship

New Creative Media – addressing EPA issues

Maker Kit – Shipping in Beta

How We Make Money

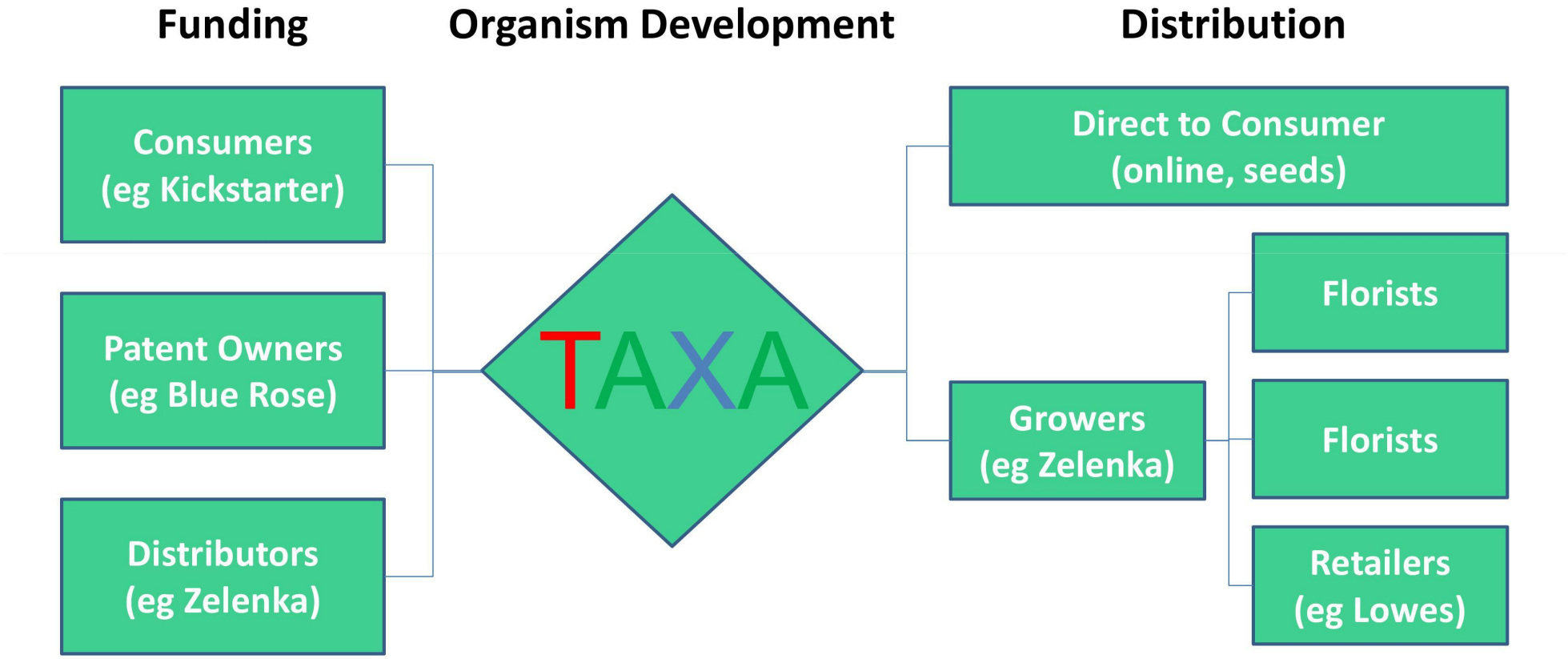
Collaborative Research Agreements

- We partner with other companies on the development of some new products
- We have signed three of these agreements with one additional in the final stages of contract review
- Depending on the nature of the research goals these revenues are either milestone based or monthly recurring payments
- These agreements are priced at the cost for us to complete the work, our profit comes from sharing in the revenues from the completed product

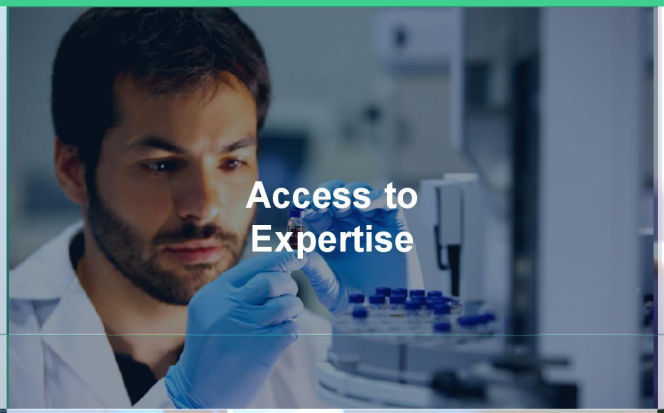
Sale of Products

- We earn revenues from the sale of completed products to consumers
- Products developed internally, like the Glowing Plant, typically have high gross margins (>90%)
  - In some instances where another party has a patent claim on part of the product we may also pay out royalties to third parties
- Products developed under collaborative research agreements earn us royalties of between 7.5% and 92% of revenues depending on how much risk we incur on the project
  - Typically we have no costs with these as the partner handles manufacturing

Partnership Model

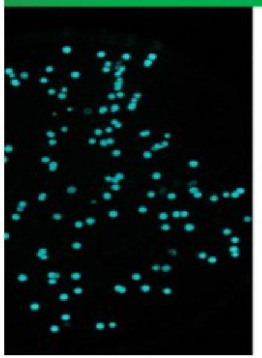


Partner Value Proposition



Technology Stack

PROTEIN ENGINEERING



We have two systems that allow us to perform protein engineering on the entire pathway:

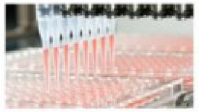
Directed Evolution: we mutagenize the plasmid randomly and then screen for variations which improve performance. This is faster and cheaper than the saturation scan but produces more false positives which improve the genes in E. Coli but don't translate into plants (eg through codon optimization)

Saturation Scan: We step through each codon in the pathway and substituted the other 19 possible amino acids that could be inserted at that point. We've tested this on pathways up to 2,000 amino acids long. Hits generated with this method are more likely to translate into higher performance in plants, but the process is more expensive than directed evolution.

AUTOMATED DNA ASSEMBLY SYSTEM

We've automated our DNA assembly system which means no more nights in the lab working on cloning. Currently all of our parts are in the Golden Braid assembly system; we are in the process of adding support for MoClo parts. You can design your sequences using your favorite DNA editing software

The list and description of available parts can be found on github at https://github.com/TAXA/DNAlibrary.



TRANSIENT EXPERIMENTS

Transient experiments are designed to enable you to test a DNA construct quickly and without the expense of a stable transformation. This allows a relatively large number of constructs to be tested quickly and affordably. The key bottleneck here is the assay. We are developing new protocols all the time - currently we offer the following experiments:

- **Callus: Arabidopsis, N. tabacum, Rose**
- **Seedlings: Arabidopsis, N. tabacum, Petunia**
- **Leaf tissue: N. tabacum**
- **Petal tissue: Rose, Petunia**
- **Epidermis: Onion**

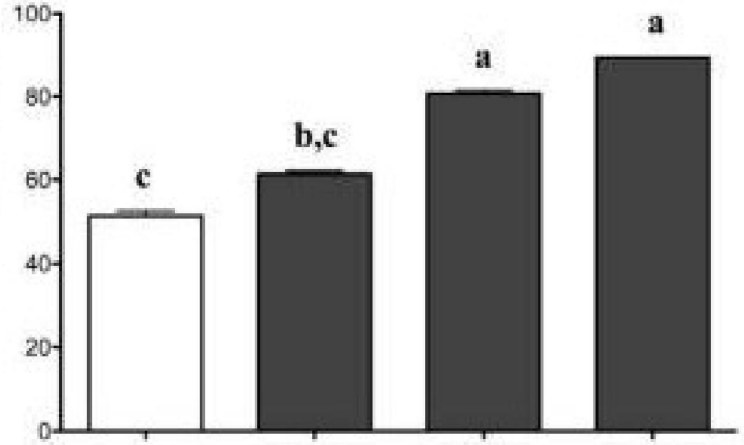
STABLE TRANSFORMATION

We generally use the biolistic method for stable transformation, though we do have agro-bacterium methods available in case you want to prototype a construct more cheaply.

While the biolistic method is slower and more expensive to generate a single plant, it's key advantage is that - if care is chosen with DNA parts used - the final product is immediately free for sale and distribution in the United States without requiring regulatory review. This saves years and millions of dollars from the budget for getting the product to market.

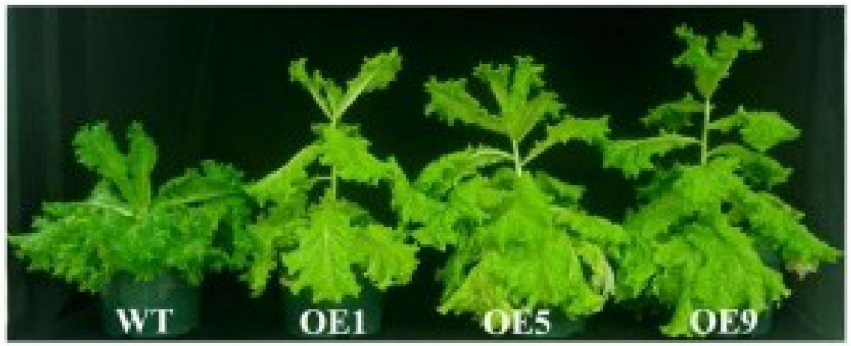
Fast Growing Lettuce – Biz Dev

Biomass of Engineered Lettuce



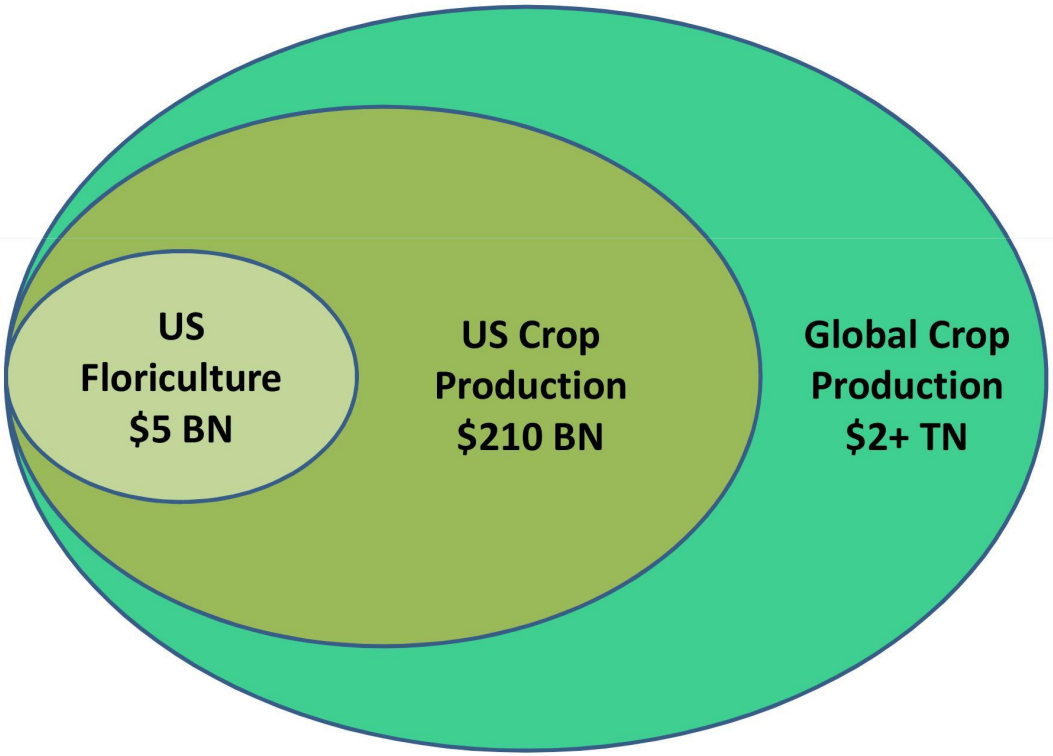
= Wild Type

= Enhanced Genes

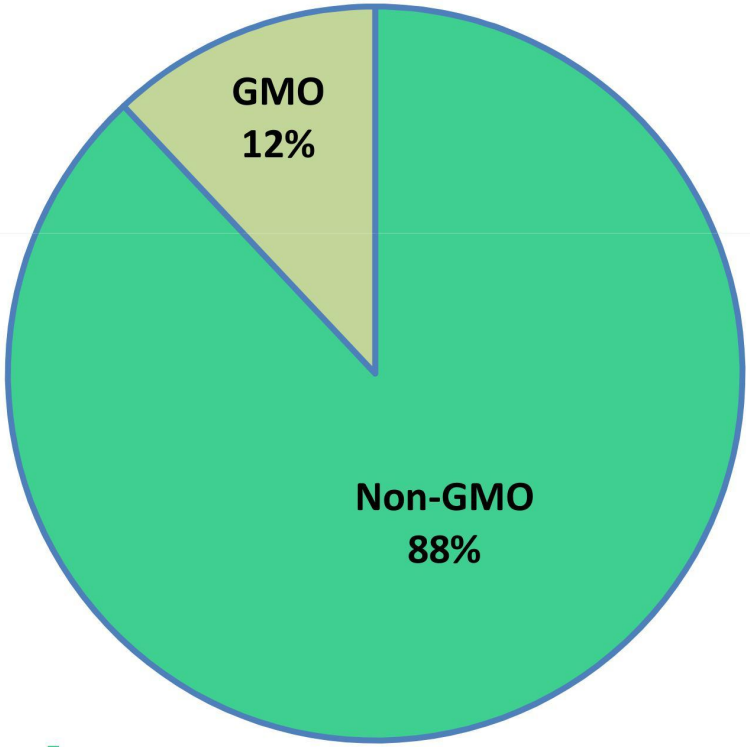


Long Term Addressable Market

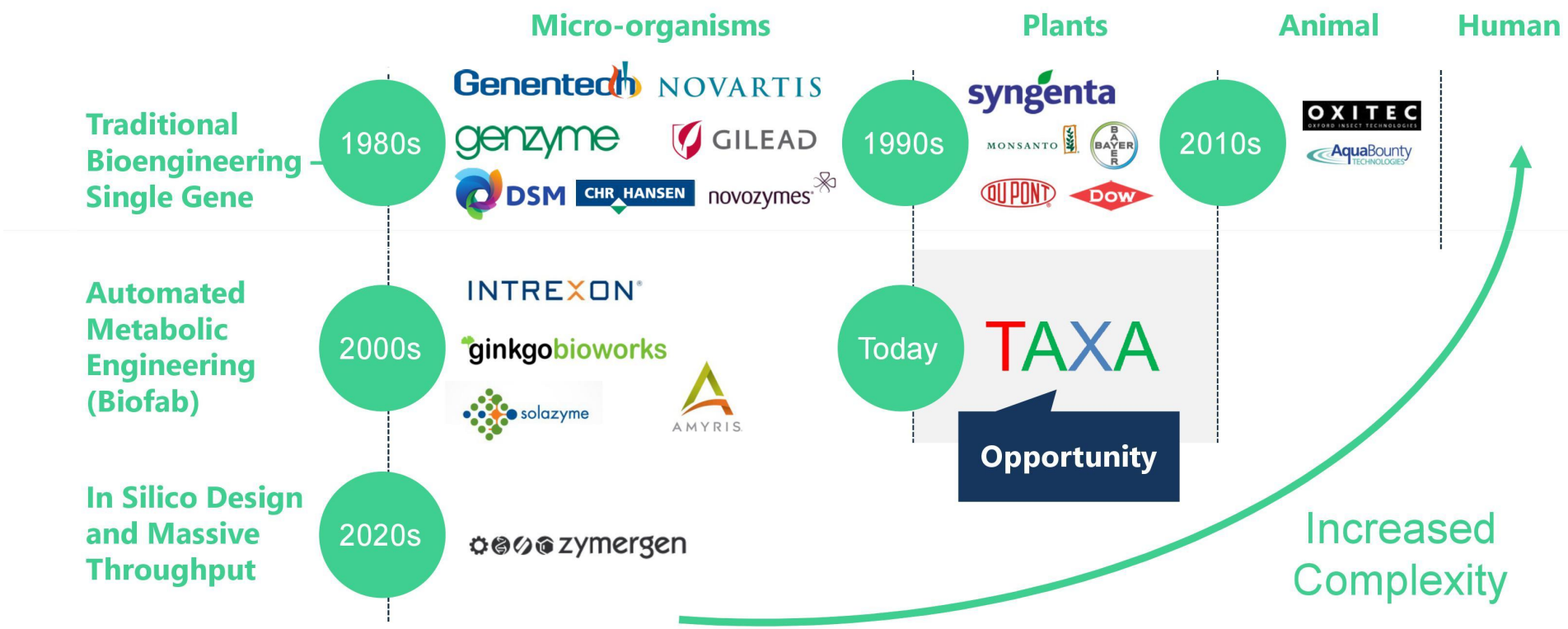
Agriculture production (wholesale income)



Engineered Crops



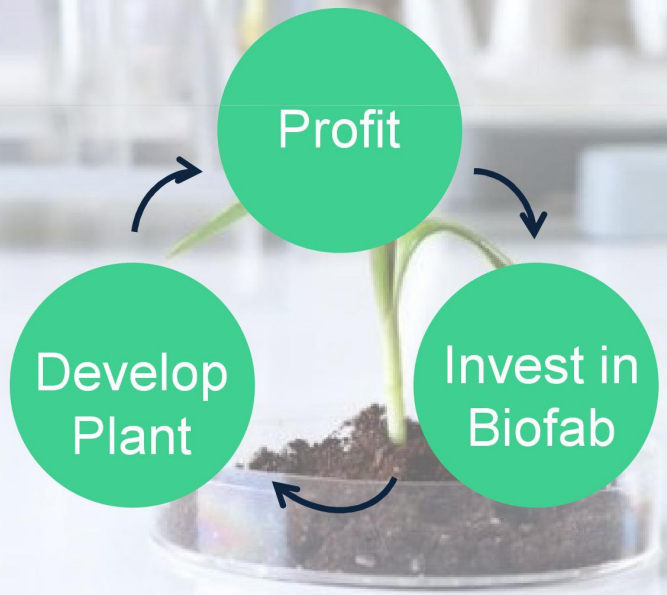
Competitive Landscape



Sustainable Strategic Advantage

80-90% gross margins

Pharma-type cashflow structure



Sell forward to validate market demand and key sales and distribution channels ahead of product development

Continuous improvement in platform allows us to stay ahead of competition and develop more complex products

Management

Antony Evans

Founder & CEO

- MA in mathematics from University of Cambridge
- MBA from INSEAD
- GSP Singularity University
- Consultant at Bain & Company

Dr. Jihyun Moon

Chief Scientific Officer

- PhD & post-doc in Plant Biology at University of California, Berkeley
- BS/MS in biology at Seoul National University

Dr. Jamey Kain

Senior Molecular Scientist

- PhD & post-doc in Molecular Biology at Harvard University
- BS in Cell & Molecular Biology at University of California, Berkeley

Accomplishments + Milestones

2014-2015	2016-2018	2019 Onwards
Early Seed - $450K	**Late Seed - $1-2MM**	**Series A - $5MM+**
✓ TAXA Market Validation ✓ Science Proof of Principle ✓ Regulatory pathway validation ✓ $650k crowd funding	❑ Distribute first Product ❑ Build PlantFab1 ❑ Grow revenues to $5MM ARR ❑ Build full team ❑ 15 TAXA partnerships ❑ Fortune 500 partner	❑ Build PlantFab2 ❑ Launch API/Cloud lab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