AZOLLA, INC.

Turning CO2 into valuable products

Highlights

1. Accelerating transition to net-zero economy by turning COs into biomaterials for everyday products
2. Addressing urgent needs to reduce carbon emissions and combating plastic pollution simultaneously
3. Enabling fashion brands to meet their net-zero goals without sacrificing profitability
4. Each pound of our biodegradable material removes 3 pounds of CO2 from the air
5. Inspiring companies to replace plastics with biodegradable options for a better future

6 CEO with 20+ years in textile industry gives us an inside track to manufacturing pipeline

7 Creating carbon-negative sustainable alternatives for the trillion-dollar textile market

8 Azolla's biomanufacturing platform is designed to evolve industries and drive consumer demand

Team

Lubica Hanacek CEO

Ring Leader. 20+ years of experience in the textile industry including leading positions in strategic business development, supply chain management and product design at Levi's, Target, and Bed Bath & Beyond.

Milan Hanacek CTO

Bioarchitect. 20+ years of experience scaling ideas in megaprojects. Development leader of $1.4B project at AECOM, key developer of engineering and industrial production facilities on two continents at Bechtel.

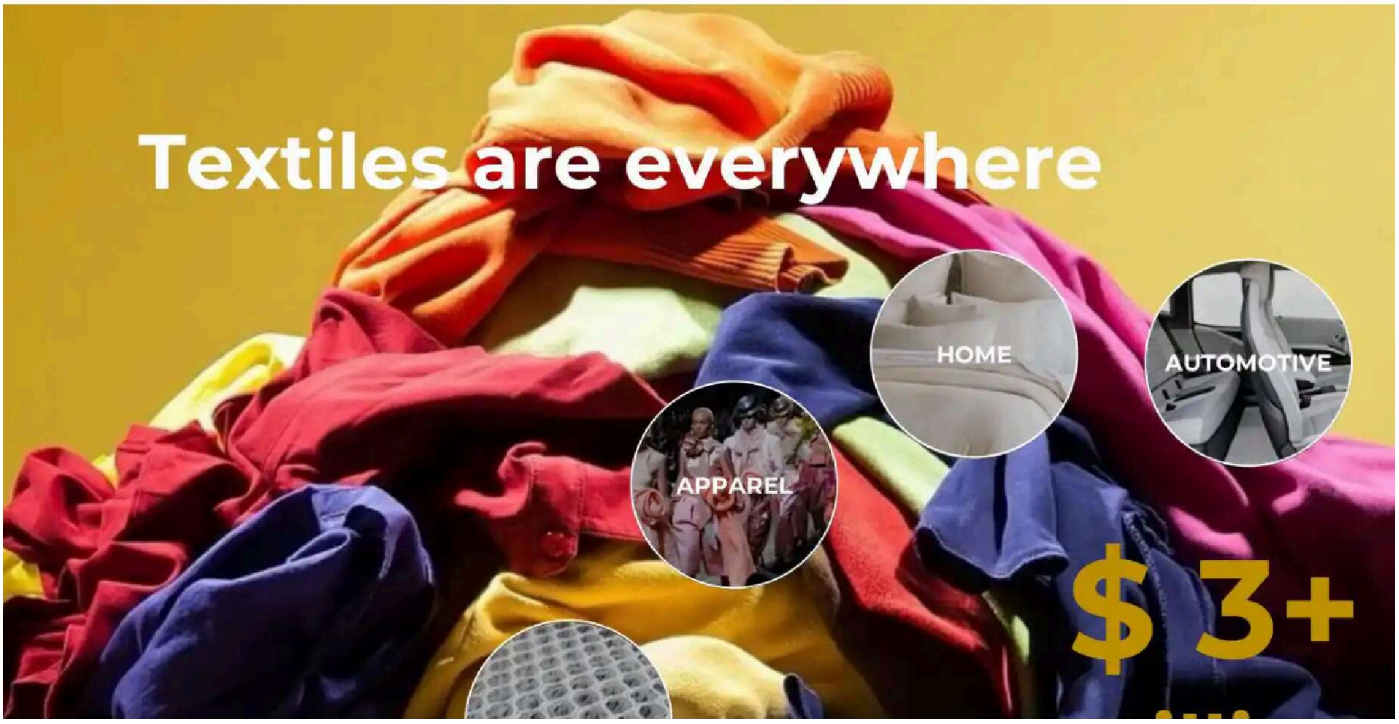
Dan Robertson, PhD Chief Scientific Advisor

Science pro. 30+ years of experience in biotech, from start-up to commercialization. Former CSO and Chairman of Executive Technical Committee at Joule; VP of Biofuels R&D at Diversa. PhD in Biochemistry. 24 patents and 70 publications.

Memo

Azolla's vision is to give people reason to feel good about buying their clothes.

We want to give consumers power to have positive impact on the environment.
We want to give them the opportunity to choose clothes made from carbon negative textiles.
We want people to be able to say that the jeans they are wearing removed 10 ponds of CO_2 from the air.



The global apparel market alone is expected to reach $3 trillion by 2025.

Textiles are an important part of our everyday lives, and the projected growth in demand for textile products is directly linked to population growth.

Textiles are projected to account for 26% of global emissions by 2050 with a burden of more than three gigatons.

***Environmental cost of textile production*:**

98 million tons of non-renewable resources, 342 million barrels of oil, 200,000 tons of pesticides, and 8 million tons of fertilizers are used annually for textile fiber production

Consumers are demanding better options

Key Market Drivers

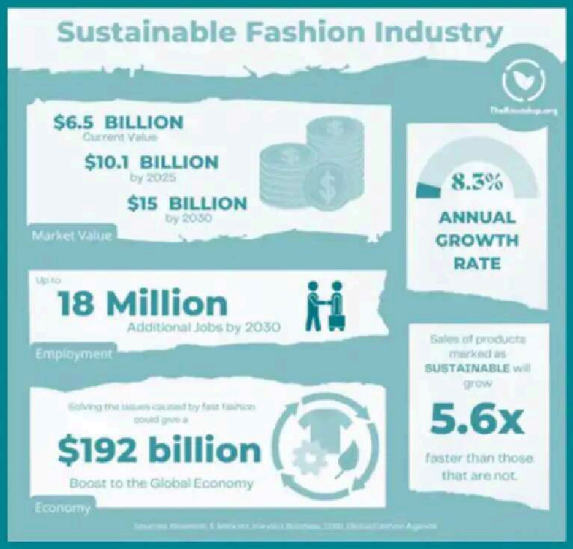
The negative impacts of the industry are becoming ever more transparent and understood by digitally enabled customers, leading to reputational risks for brands.

A public appeal from individuals and governments for the industry's transition to better manufacturing practices is creating a significant demand for sustainable alternatives.

The fashion industry is on a trend towards sustainability.

Top brands have made bold sustainability commitments, but many without comprehensive actionable plans. Today, there simply isn't enough supply of sustainable materials to meet even a fraction of the goals set by these corporates. Azolla's technology is the key to helping them achieve those goals.

The metrics support our vision:



According to *McKinsey & Co*, 55% of fashion companies aim to source half of their products with sustainable materials by 2025, but today only 1% of textiles is labeled sustainable because of lack of viable options. This represents a **$69 billion market opportunity for Azolla's technology** and is the immediate focus of the company's commercial effort.

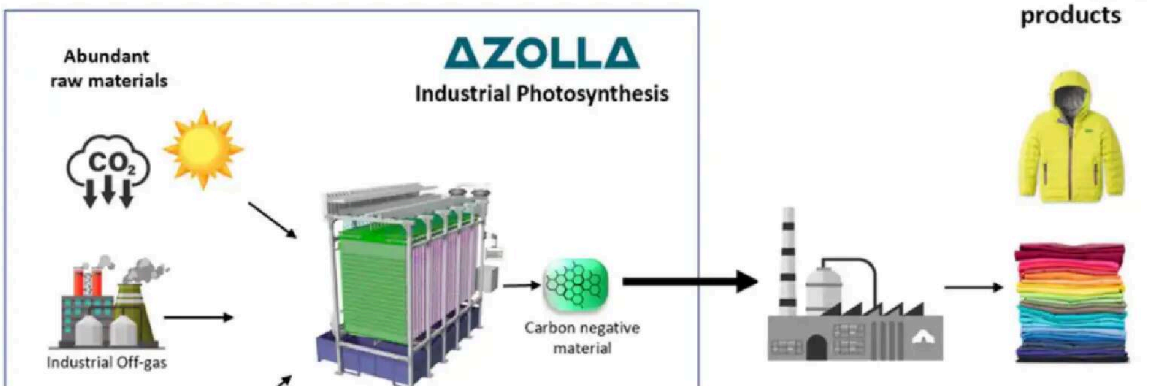
We are bringing a climate positive alternative to the world's biggest brands and manufacturers to give them a powerful tool to

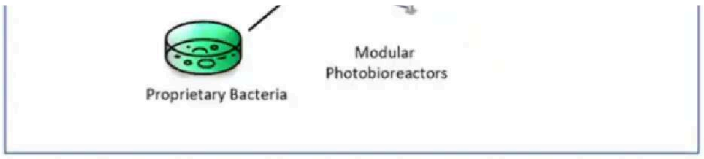
meet their climate goals.

If successfully deployed and implemented on a large scale, Azolla's technology could play a crucial role in addressing climate challenges. Our unique carbon-negative approach to textile production will result in significant carbon dioxide reduction.

Our technology is inspired by Nature, in the same way a tree turns carbon, water and light into the most abundant polymer on earth called cellulose, our process converts waste carbon, into natural biodegradable material.
It takes trees a long time to grow and the process to turn them into fibers is very inefficient and toxic.
We know, that in order to achieve commercial success, our technology must be much more efficient, and to achieve this, Azolla is re-writing biology to create advanced version of photosynthesis.

Our process





Existing
supply chain

Every pound of our material removes **3 pounds** of CO_2

Our process is very simple: our unique, genetically engineered bacteria, we think of them as tiny biofactories, are living happily in a perfect environment in our bioreactor (like a 5-star all-inclusive resort), eating tons of CO_2 and as a payment, they are producing pure carbon negative material that can be used to make textiles.

Because we can eliminate all the steps to grow, harvest, and process raw materials, our method is very efficient, inexpensive and easily scalable.

Better in Every Way

	PERFORMANCE					COMFORT				IMPACT			
	Durable	Flexible	Colorfast	Shrink-resistant	Moisture wicking	Soft	Breathable	Absorbent	Inert	Hypoallergenic	Toxic	Renewable	Sustainable
Polyester	✔	✔	✔	✔	✔						✔		
Cotton						✔	✔	✔	✔	✔	✔	✔	
AZOLLA	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔

Azolla will provide the fashion industry with textile fiber that has the performance properties of synthetics, like durability, strength and flexibility, and the comfort of natural fibers like cotton.

Because our fiber is natural like cotton, it is also biodegradable, and won't contribute to microfiber pollution.

Fast-to market strategy

Our material is applicable to many industries, and we have developed strategic plan to ensure successful scale up and commercialization over the next few years.

Our long-term goal is to address the urgent need for sustainable solutions in multiple markets by licensing our technology to manufactures in various industries that are urgently looking for sustainable materials and ready to collaborate on product development and integration of our technology into their existing supply chains.

Partners

We are supported by prestigious organizations focused on advancing decarbonization of consumer industries that underpin the global economy

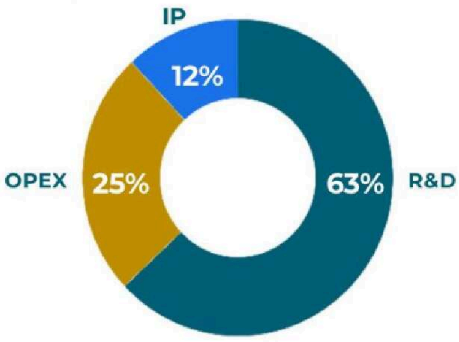
Recognizing the urgent need for rapid market integration, we are eager to accelerate our technology deployment by partnering with National Labs and academic institutions.

We plan to leverage their considerable expertise and state-of-the-art facilities to encourage continuous innovation and improvement, boost production and drive down costs so we can deliver our carbon transformation technology to market on expedited timeline.

Your Investment

will help us complete proof of concept:

- Produce consistent amounts of biomaterial
- Make product samples
- Develop strategic partnership with Fashion Brand
- IP protection

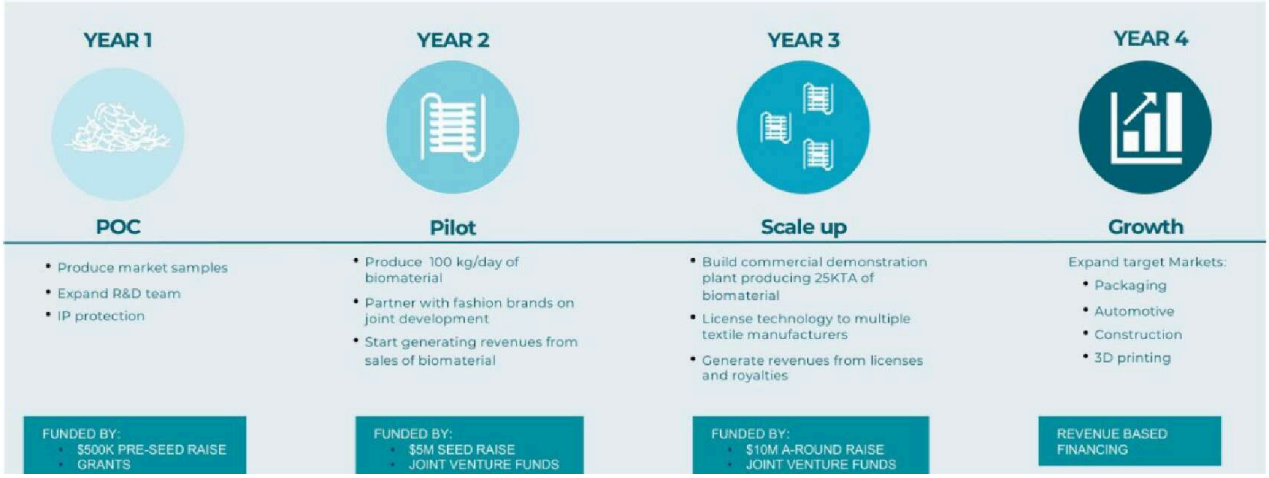


We will use the funds to expand our scientific team, cover lab expenses and file for several patents

Azolla has been awarded $850K funding from DOE of to collaborate with Agile Biofoundry to advance the technology to successful completion of proof of concept. This collaboration with the national laboratories will allow us to leverage the brightest scientific minds as well as the use their state-of-the-art facilities and cutting-edge research in synthetic biology, artificial intelligence and machine learning.

What does Future Look Like?

Azolla is leveraging existing infrastructure and a licensing model to drive rapid growth.



Our objective is to advance the technology to be commercial ready in 2 years to meet the huge demands for sustainable materials.

Looking ahead, we are poised for rapid growth. We are in discussion to form strategic partnerships with several fashion brands and manufacturers to co-develop products for their specific markets.

Forward-looking statements are not guaranteed.

To bring Azolla's technology to market fast, our business model is based on licensing the technology to textile manufacturers that are already looking for sustainable options.

Our revenue projections are robust. Based on our current assumptions and high demand for sustainable materials, we expect to start generating revenue in 24 months.

Forward-looking projections are not guaranteed.

Team

Founding team with deep experience across consumer industries.

Lubica Hanacek
CEO

Milan Hanacek
CTO

As a fashion designer and an architect we know that our industries are major contributors to environmental degradation. Working for large corporations, we were desperately searching for clean and sustainable materials, however all we could find were products using toxic manufacturing. We saw this not only as an immense opportunity, but also as an obligation.

We founded Azolla to develop sustainable solution for our industries.

As skilled professionals with years of experience in product development and project management we are well equipped to ensure successful realization of our vision.

We are two daring adventurers, taking on challenges for a long time and we know that as a team we are invincible. To pursue our dreams, we risked our lives - literally crawling across the border to freedom - with nothing but the clothes on our backs. We came to the US as young political refugees, putting ourselves through college, eventually achieving considerable success in our respective careers.

Encouraged by our track record, we are stepping up our game to leave a legacy of better world.

Team

Founding team is supported by accomplished advisors and scientists from national labs

Dan Robertson, PhD
Chief Scientific Advisor

ADVISORS

Our advisory team includes PhDs in biochemistry, chemistry, genetic engineering and molecular biology along with decades of expertise in engineering and operations, product development and supply chain management with leading organizations, including:

We are supported by a team of accomplished advisors from scientific community, biomanufacturing and business development areas that share our vision and believe that our technology has the potential to deliver economically viable sustainable material option.

The Opportunity

Why invest in AZOLLA?

Actively participate in restoring the environment

Have a stake in company making carbon-negative products

Capture benefits of global decarbonization

Your investment in **AZOLLA** is just the beginning of an exciting future where many consumer products are made from carbon emissions.

We are energized by giving everyone the opportunity to contribute to climate solutions, and we are looking for investors that share our vision for building a climate positive future.

If you can not invest today, you will do just as much good for the world by SHARING this page with someone who wants to ensure sustainable and abundant future.