



# Company Overview

The carbon negative bio-materials company

*July, 2023*



# AirX- At a Glance

The carbon negative bio-materials company

Enormous  
Global TAM

~\$750 Billion

*\$300Bn near-term focus  
in PE, PP & PET by 2030;*

Decarbonizing Platform  
Technology



*Enables customers' net-  
zero commitments*

Carbon Negative

-720 kgCO<sub>2</sub>/ton

*Coffee bio-composite has  
negative carbon footprint  
(cradle-to-gate boundary)*

Disruptive Materials  
Technology Company



*AirX produces low and  
negative carbon materials*

Global Partners <sup>1</sup>



Cost advantaged



*Agricultural feedstocks  
are competitive with oil and  
cheaper than other Bio  
Materials*

Protected & Validated  
Technology

2 Patents Pending

*Core technology protected in key  
countries*

2023 Capacity

1,500 tons/month

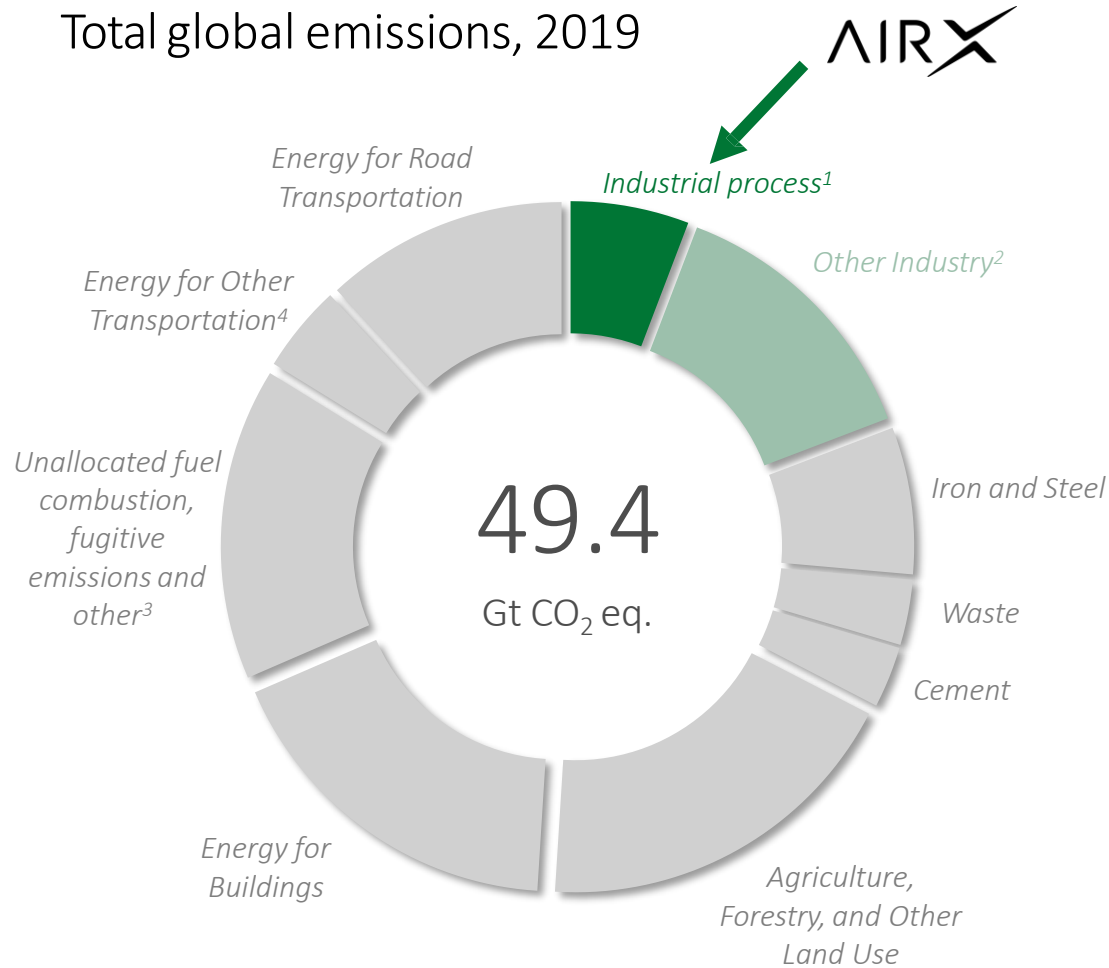
*Partner factories located in  
Long An & Dong Nai, Vietnam*

1. International Partners ongoing for testing & offtake agreements



# Nearly half of all global emissions come from making products

Total global emissions, 2019



1. Includes energy-related emissions from the manufacturing of chemicals as well as direct industrial process. 2. Includes energy-related emissions in mining and quarrying, construction, textiles, machinery, food and tobacco, paper & pulp and other industries. 3. Includes energy-related emissions from the use of machinery in agriculture and fishing. 4. Includes energy-related emissions in aviation, shipping, rail and pipeline transportation.  
Source: Climate Watch, the World Resources Institute (2020), ourworldindata.org.

# Empower the world's transition to sustainable materials

Fossil-based

**10.6Mn**

Daily barrels of oil consumed by the chemicals market

Sustainable-based

**<1%**

Of annually available 900Mn tons of forest residue and agricultural waste

Emitting

**1.8-3.5kg**

carbon emissions per kg of fossil-based PE/PP plastic produced

Avoiding

**>100%**

Carbon reduction for AirX's materials vs. fossil-based PE/PP

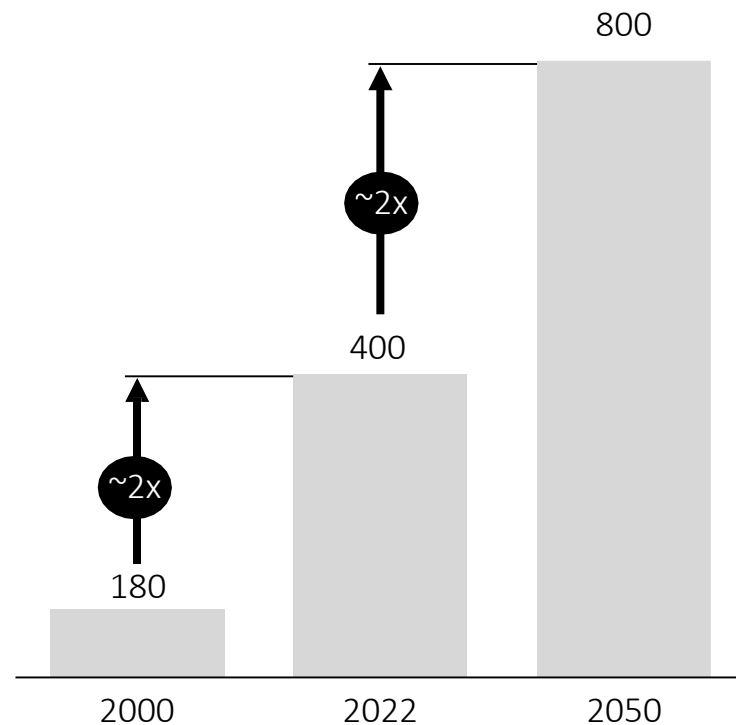
**The AirX platform can replace oil as the foundational feedstock for the materials economy**



# Ubiquitous plastics are a prime target to begin reducing carbon emissions

Plastics enable modern life...

Million tons



... but we need better, scalable solutions



Drop-in ready – change only happens at scale

Transforming the materials economy won't happen in niche markets. Plastics permeate every sector and AirX's products are supply-chain ready **alternatives/complements** for fossil-based materials



Low to Negative carbon

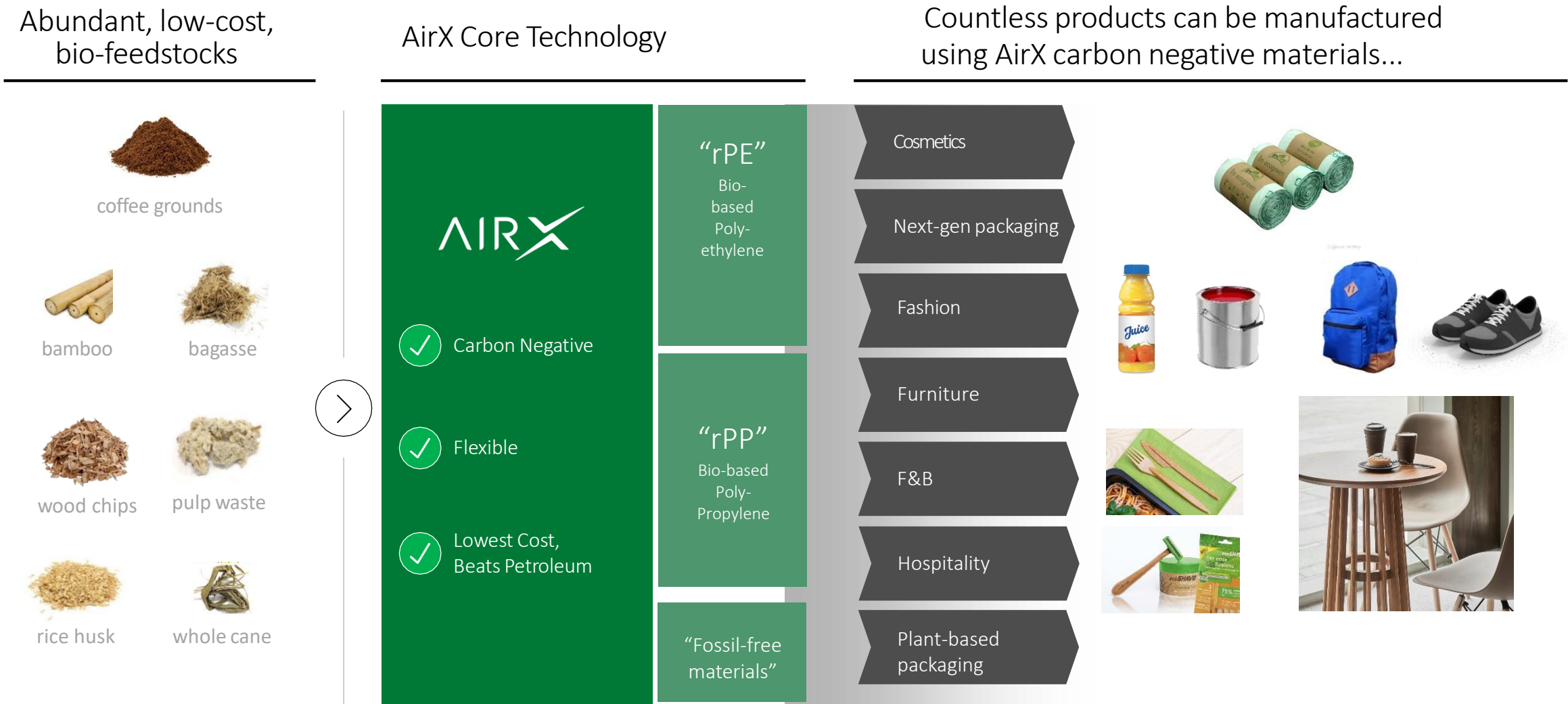
Sustainably harvested, renewable feedstocks (e.g., forest waste / agricultural residues) can convert naturally **captured carbon** into useable end products



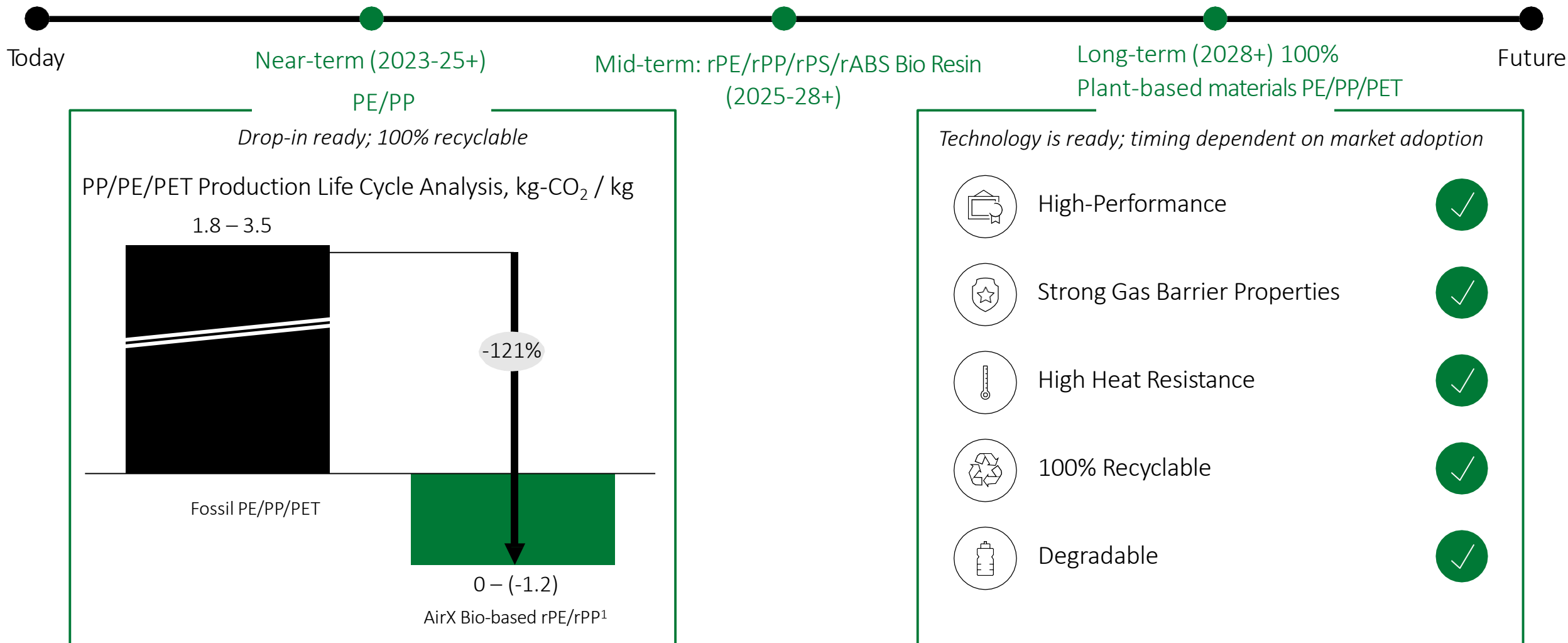
Sustainable, end of life solutions (recycle first)

Responsible plastics use goes from 'cradle to grave'. Enabling the circular economy through high rates of **recycling CO2** is a must for any solution

# The AirX platform: ‘Once in a planet’ shift from fossil to decarbonized materials



# AirX's material is a carbon negative solution for recyclability and degradability



1. Process step carbon impacts are derived from Eurofins compliant LCA report. Deviations from supply chain described in LCA report may affect carbon impacts.



# AirX's platform technology decarbonization impact

Till 2030, AirX's best case estimation are expected to avoid **~1.05 MMT<sup>1</sup>CO<sub>2</sub>** equivalent to approximately...

~168,000



homes' electricity use for 1 year

~230,000



passenger vehicles driven for 1 year

~2,484,000



barrels of oil consumed

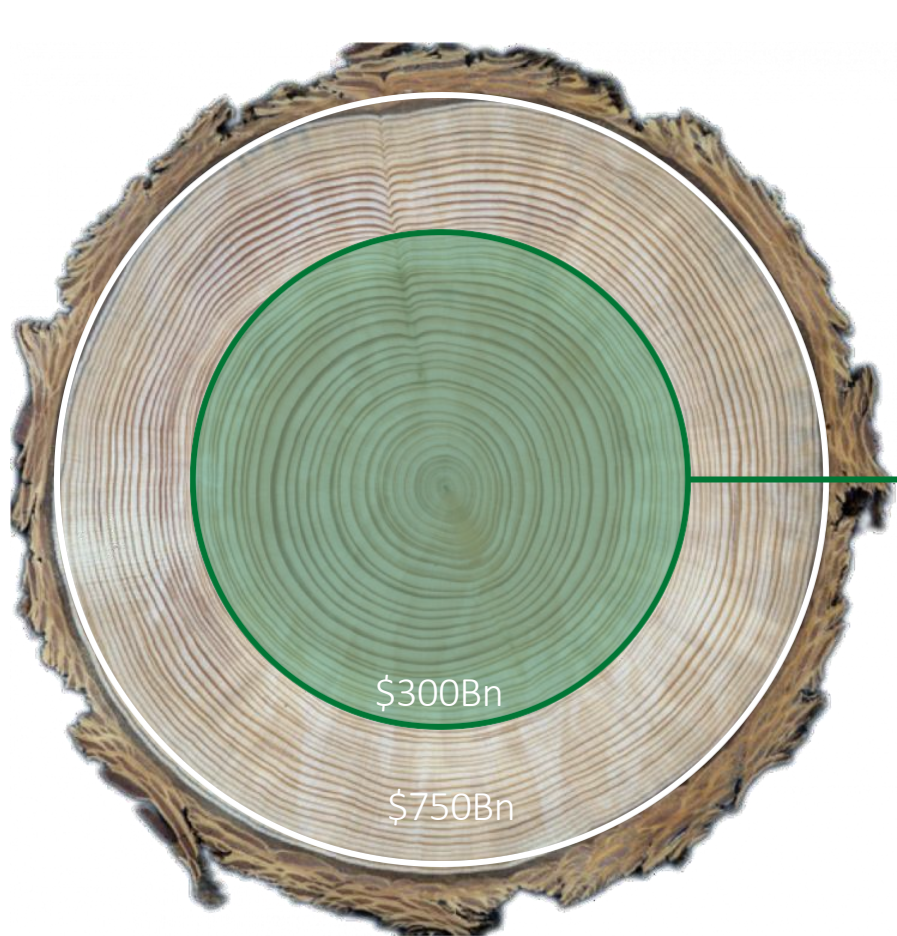
1. Million Metric Tons.

Source: AirX calculations based on commercial scale and life cycle impact estimates. U.S. Environmental Protection Agency greenhouse gas equivalencies calculation:  
<https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>

# Estimated total addressable market for AirX products is more than \$750 Bn

AirX addresses a growing market with broad applications

Cumulative TAM = >\$750 Bn



Markets	Market Size \$
PE Resin	~\$145Bn
⬢ Packing	
⬢ Automobile	
PP Resin	~\$120Bn
⬢ House hold, Fabric	
⬢ Consumer goods, Toy	
PET Resin	~\$40Bn
⬢ Packing	
⬢ Textile	

Near term focus pre-2030  
>\$300Bn market



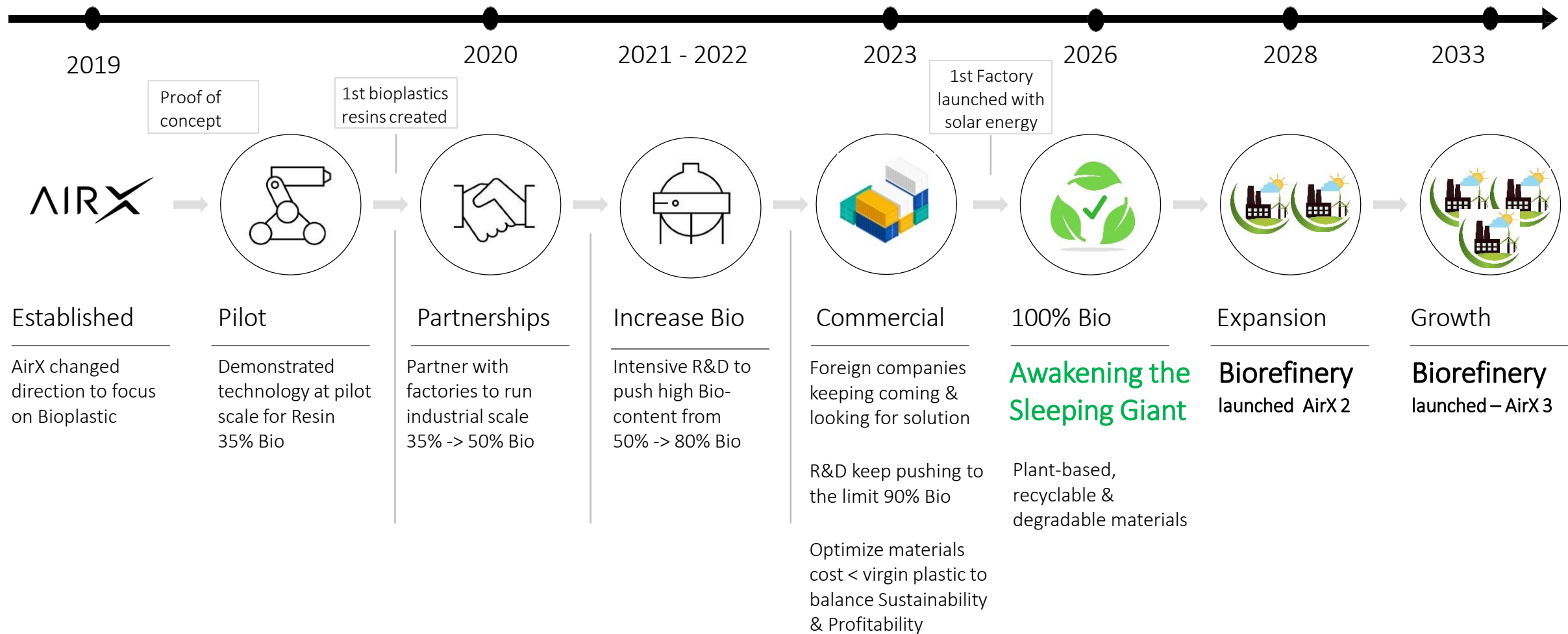
Near-term focus TAM is expected to grow by ~\$15Bn annually

Source: AirX management estimates based on 2030 addressable market of Fortune business insights.





# AirX is building on a strong foundation toward rapid growth...



# A1 Environment Partnership



## “AirX and A1 Environmental MOU to Develop Next-Generation Sustainable Materials for Coffee Grounds in Singapore”

– July 20, 2022

- A1 Environment was established in 2012 and is the only coffee recycling company in Singapore. Having been in the business of recycling for over 11 years, A1 Environment provides more flexibility and better services to organizations who aim to increase their food waste recycling efforts.
- They provide door-to-door collection services of coffee grounds from F&B, hotels, and offices on a subscription basis.
- A1 is working with other partners in Singapore & Malaysia to secure offtake agreements for Phase 1: 100 Tons of Bio Coffee Resin/Month





# TTC AgriS Partnership



“AirX and TTC AgriS to develop sugarcane-based Packagings and Agricultural Plastic Mulch Films from Carbon-Negative Materials”

– March 22, 2023

- TTC AgriS is one of the leading agricultural enterprises in Vietnam with over 50 years of experience. The company is currently dominating the domestic market with nearly 50% of the sugar industry market share.
- TTC AgriS aims to become a leading provider of high-tech agricultural solutions on a sustainable development platform and deeply involve in the global agricultural value chain and commodity trade.



# MUJI Partnership



“AirX and MUJI to produce Coffee-based Housewares from Carbon-Negative Materials”

– June 22, 2023

- MUJI was founded in 1980. Its origin was a thorough rationalization of the manufacturing process with an eye to creating simple, low-cost, good quality products.
- Muji takes wide-ranging measures to reduce its consumption of water, energy, and other resources, avoid waste, and combat climate change. It strives to reduce the negative impact on the global environment throughout the entire life-cycle of all products, services, and activities.





# UNIQLO Partnership



“AirX and UNIQLO to produce Coffee-based Promotional Coffee-based Products from Carbon-Negative Materials”

– June 22, 2022

- UNIQLO is a clothing apparel company, which was originally founded in Yamaguchi, Japan in 1949 as a textiles manufacturer. Now it is a global brand with over 1000 stores around the world.
- UNIQLO is committed to using resources effectively across our supply chain and reducing our environmental impact. These initiatives have been ranked highly in international indicators.



# New World Saigon Hotel Partnership

NEW WORLD  
SAIGON HOTEL

“AirX and New World Saigon Hotel to produce Coffee-based in-hotel Products from Carbon-Negative Materials”

– April 22, 2023

- New World Saigon Hotel has been the first choice for royalty and world leaders visiting the city since 1994. It has hosted such luminaries as US Presidents George W.H. Bush, George Walker Bush and Bill Clinton, former president of the Republic of the Philippines Corazon Aquino, and Japanese Prince Akishinomiya Denka and Princess Kiko.
- The spirit of "zero waste playground" is the most valuable aspect of these cups. New World Saigon Hotel takes the opportunity to give coffee grounds a "second life" while providing an excellent customer experience.





# The Coffee Bean & Tea Leaf Partnership



“AirX and The Coffee Bean & Tea Leaf to produce Coffee-based Products from Carbon-Negative Materials”

– July 3<sup>rd</sup>, 2023

- The Coffee Bean & Tea Leaf is an American coffee shop chain founded in 1963. The chain had over 1,000 self-owned and franchised stores in the United States and 31 in other countries.
- The Coffee Bean & Tea Leaf sees every day as an opportunity to make meaningful changes. Recycle coffee grounds: Don't throw your used coffee grounds at home in the garbage. Instead, you can give coffee grounds a "second life" while providing an excellent customer experience.



# Leading institutions are committing to a net zero future

The global industrial complex is committed to decarbonization

2030



SoftBank  
Carbon neutral by 2030



Proctor & Gamble  
Net zero by 2030

SIEMENS

Siemens  
Net zero by 2030



MUFG  
Carbon neutral by 2030

BlackRock

BlackRock  
Carbon negative by 2030



KDDI  
Carbon neutral by 2030



Unilever  
Carbon neutral before 2030

2030-2040



Toyota  
Net zero by 2035



Mazda  
Net zero by 2035



SK Innovation  
Net zero by 2040

NAVER

Naver  
Net zero by 2040



Vinfast  
Net zero by 2040



Hyundai  
Net zero by 2040



Kia Motors  
Carbon neutral by 2045

2040 - 2050



OUB  
Net zero by 2050



DBS  
Net zero by 2050



Mizuho  
Net zero by 2050

TEMASEK

Temasek  
Net zero by 2050



Mitsubishi  
Net zero by 2050



Nike  
Net zero by 2050



Fast Retailing  
Net zero by 2050





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