



Arcadia Biosciences Overview

Spring Investor Summit – April 1-2, 2019

Forward-looking statements



- “Safe Harbor” statement under the Private Securities Litigation Reform Act of 1995: This presentation contains forward-looking statements about the company and its products, including statements relating to components of the company’s long-term financial success; the company’s traits, commercial products, and collaborations; the company’s ability to manage the regulatory processes for its traits and commercial products; the company’s anticipated financial results; current and future products under development; additional collaboration agreements; the regulatory process; business and financial plans; and other non-historical facts.
- Forward-looking statements are subject to risks and uncertainties that could cause actual results to differ materially, and reported results should not be considered as an indication of future performance. These risks and uncertainties include, but are not limited to: the company’s and its partners’ ability to develop commercial products incorporating its traits and complete the regulatory review process for such products; continued competition in seed traits and other products; the company’s compliance with laws and regulations that impact the company’s business, and changes to such laws and regulations; the company’s reliance on its collaborators to commercialize products incorporating its seed traits; the company’s future capital requirements and ability to satisfy its capital needs; the company’s exposure to various contingencies, including those related to intellectual property protection, success of field trials, regulatory compliance, the speed with which regulatory approvals are received, and public acceptance of biotechnology products; developments related to foreign governmental regulations, political climate, currencies and economies; successful operation of the company’s joint ventures; fluctuations in commodity prices; the company’s ability to obtain a significant portion of the increased value to farmers from products that incorporate its traits; and the effect of weather conditions, natural disasters and accidents on the agriculture business or the company’s facilities.
- Further information regarding these and other factors that could affect the company’s financial results is included in filings the company makes with the Securities and Exchange Commission from time to time, including the section entitled “Risk Factors” in the company’s Annual Report on Form 10-K for the year ended December 31, 2018. These documents are or will be available on the SEC Filings section of the Investor Relations pages of the company’s website at www.arcadiabio.com. All information provided in this presentation and in the attachments is as of the date hereof, and Arcadia Biosciences, Inc. undertakes no duty to update this information.

Arcadia Biosciences is improving the nutrition and quality of food ingredients while improving crop productivity



Using advanced plant breeding and gene editing technologies



Optimizing crops to improve health benefits, quality and productivity



Accelerating innovation through partnerships with industry leaders



Developing specialty ingredients with advanced nutritional profiles



Founded in 2002 ■ Public company in 2015 (Nasdaq: RKDA) ■ Headquarters in Davis, CA

Arcadia Biosciences innovations address the challenges facing our food systems



IMPROVE

- Shelf life
- Dietary fiber
- Oil quality
- Nutrient profile
- Plant proteins
- Flavor and color



REDUCE

- Allergenicity
- Calories
- Added fibers and sugars
- Crop variability
- Environmental impact



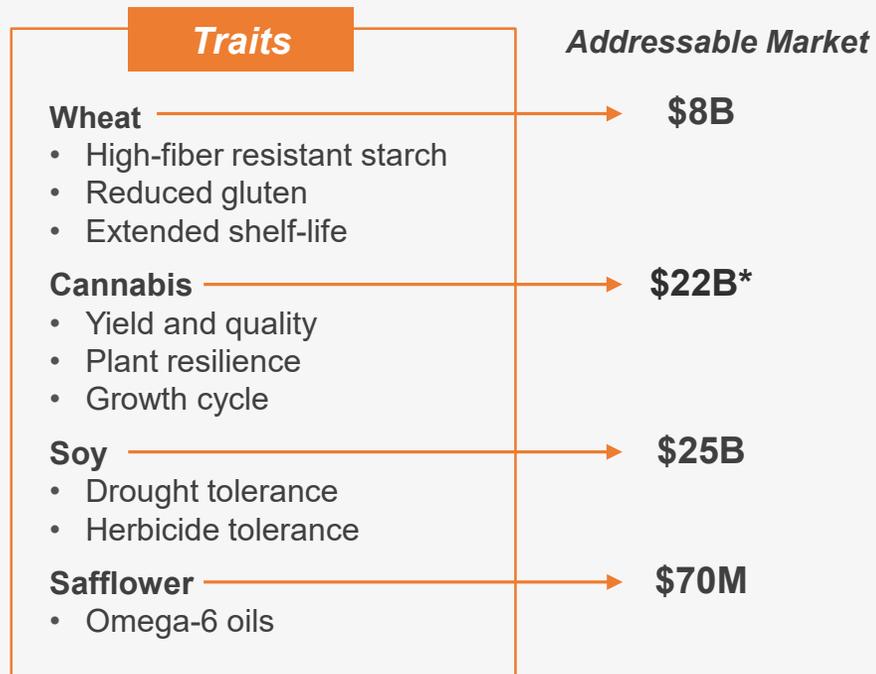
MANAGE

- Yield and quality
- Drought tolerance
- Herbicide tolerance
- Plant resilience
- Growth cycle

Using our non-GM breeding platform and proprietary libraries

Arcadia's product portfolio addresses large global market opportunities through strategic partnerships

Key crop & ingredient traits



Strategic partnerships



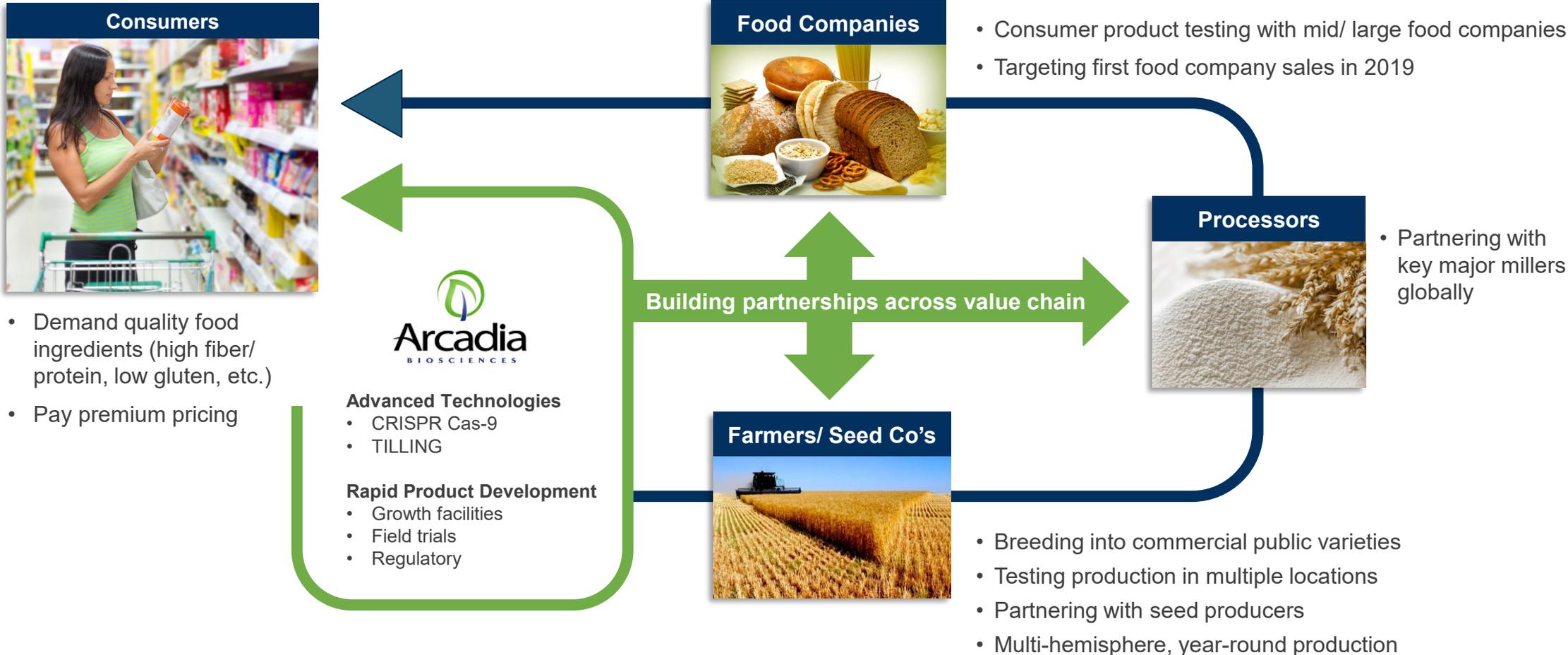
Customer Targets

- Consumer Packaged Goods Companies
- Expanded milling/processing partner coverage in EU, Japan and Australia

Building on over 15 years of industry expertise

* CBD market estimate for 2022, total addressable market greater, not yet quantifiable

Health & nutrition business model extracts value throughout the food supply chain



Arcadia's competitive advantages allow for accelerated market entry



In-house trait discovery

- Unique patent-protected, portfolio of traits for diverse crops
- Leading TILLING researchers, unmatched in their years of experience
- Proprietary TILLING libraries for key broad-acre crops, fruit & vegetables
- CRISPR-Cas9 gene editing capabilities



Accelerated breeding processes and germplasm

- Up to four generations per year through accelerated breeding
- Proprietary heirloom wheat, durum and oilseed varieties
- Germplasm partnerships with leading public programs in North America



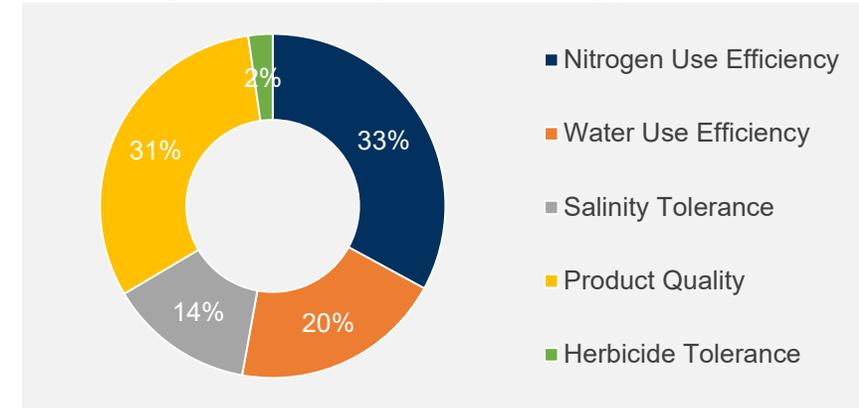
Field trial, regulatory and production capabilities

- Home based in USA, global capabilities
- Diverse facilities: lab, greenhouse, field research farms in Idaho and Hawaii
- In-house oilseed production optimized for best cost position
- Secured partners for seed bulking and grain/oil production

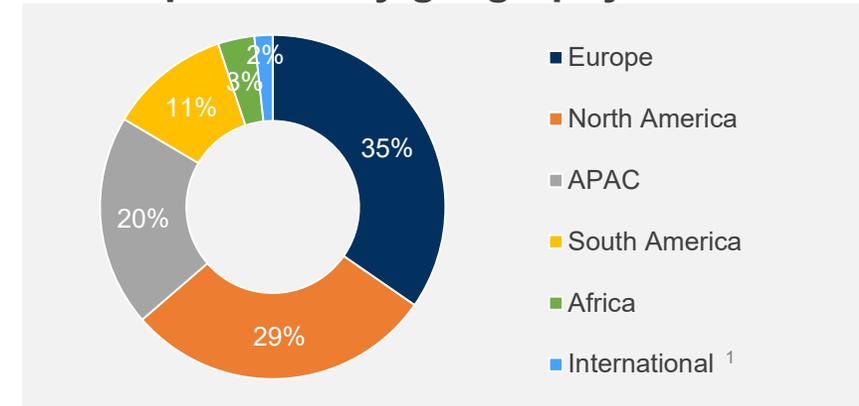
Strong patent portfolio addressing a variety of trait technologies

- Owns or exclusively controls 216 patents worldwide in 30 families
- Issued 48 patents and filed 53 new patent applications since January 2015
- Owns patents in most key production markets for specific crops
- Unique ability to achieve full control over mutation enables the company to obtain patents on non-GM traits

Patent portfolio by technology

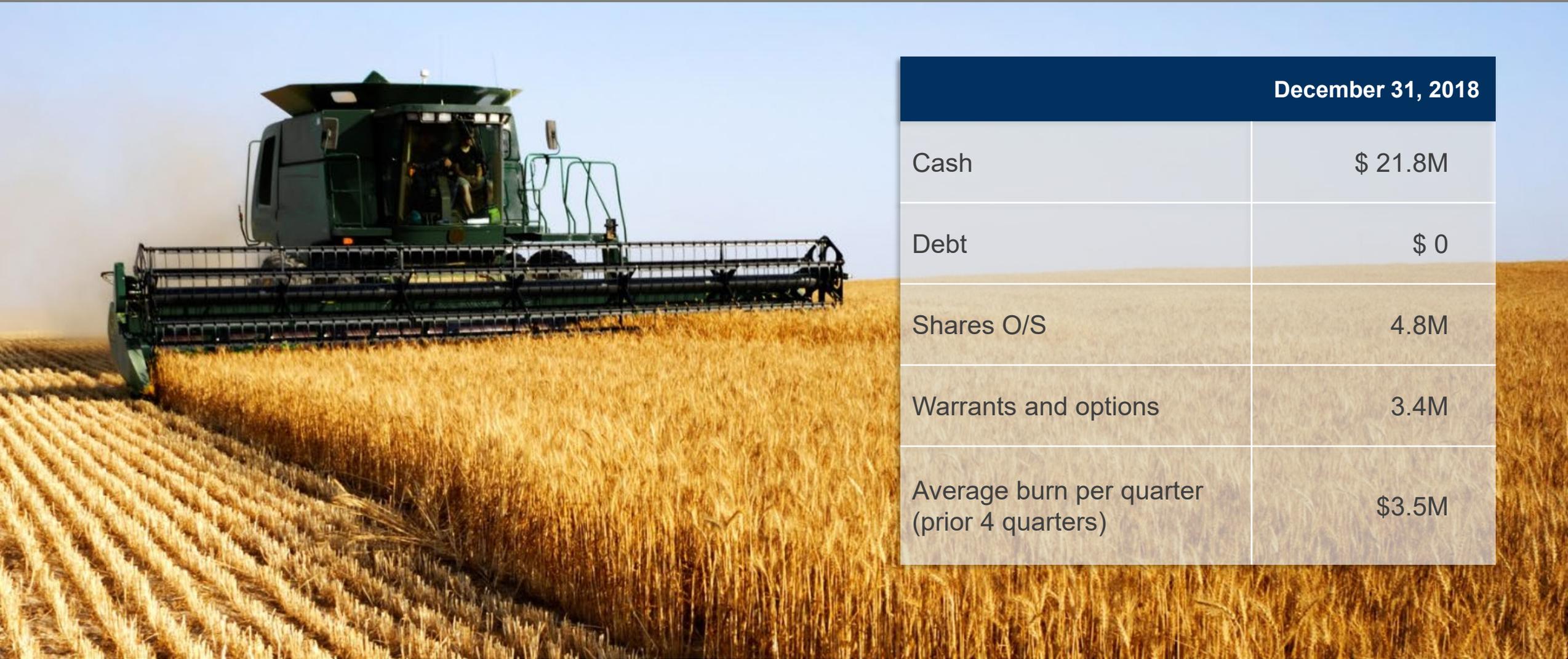


Patent portfolio by geography



Note: International applications filed under the Patent Cooperation Treaty

Financial highlights: Solid cash reserves and no debt



	December 31, 2018
Cash	\$ 21.8M
Debt	\$ 0
Shares O/S	4.8M
Warrants and options	3.4M
Average burn per quarter (prior 4 quarters)	\$3.5M

Arcadia is advancing toward first commercial sales of GoodWheat™ in 2019

Achieved key technical milestones

- 94% amylose (vs. 25%-30% in traditional wheat)
- 70% reduction in allergenic glutens



Breeding into commercial germplasm

- Introducing trait into commercial germplasm
- Produced increased acres of wheat across several states in US to supply customers for testing

Building partnerships across wheat value chain

- Seed production
- Logistics – identity preservation
- Grain millers
- Food companies

Development phase:

1

2

3

C

Collaborating with Ardent Mills to develop and commercialize wheat innovations

- Ardent Mills is the leading flour milling and food ingredient company in North America 
- First project is Extended Shelf Life wheat – to improve taste, encourage whole grain consumption and reduce waste
- Partnership leverages Arcadia's innovations in non-GM wheat trait development and Ardent Mills' expertise and market reach
- Consumers benefit because of the health benefits of whole grains; food companies benefit because of the extended shelf life and reduced waste
- Arcadia recently received US patent for the technology in wheat
- Whole grain market is \$46B, growing 6% per year¹

¹ Statistics MRC



HB4 drought and herbicide tolerant soybeans are advancing through field trials and regulatory progress

- Developed through Verdeca joint venture with Bioceres 
- 2018 field trials coincided with drought conditions, demonstrating benefits of trait
- HB4 and herbicide tolerant trait stack approved in Argentina
- Third season of breeding trials underway
- First sales expected in 2019, pending import approval in China

Development phase: **1** **2** **3** **4** **5** C

Arcadia Specialty Genomics™ leverages our extensive plant science expertise to improve cannabis



- Cannabis lags behind other crops in advanced breeding to improve cultivation and consistency
- Suboptimal genetics threaten the scalability and long-term viability of the industry
- **Arcadia's expertise in plant innovation offers:**
 - Novel, traceable cannabis varieties that improve the crop's productivity for cultivators
 - Quality traits to improve its functional value as a consumable ingredient
- Targets include improvements to cannabis plant yield, quality, resilience and growth cycle
- Moving quickly to establish research programs in key states, working initially in hemp, planting in Hawaii in April

Focused on delivering key milestones in 2019

GoodWheat™

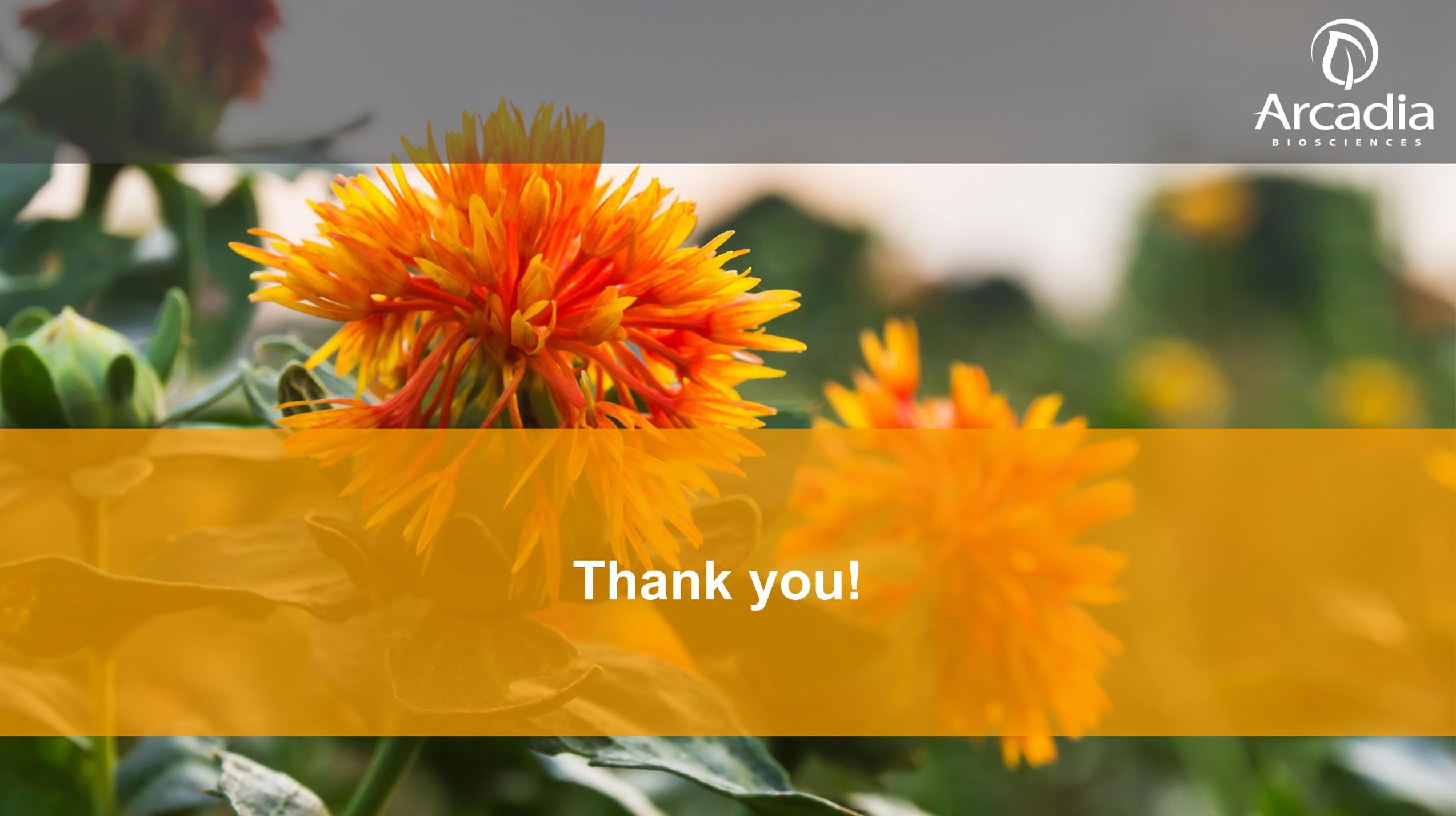
- Scale-up production and achieve first commercial sales
- Secure CPG and processor alliances for wheat ingredients
- Test market GoodWheat in bread, pasta and/ or feed
- Execute branding strategy

HB4 Drought Tolerant Soybeans

- Prepare for launch in Argentina in 2019, pending import approval in China

Arcadia Specialty Genomics™

- Build proprietary germplasm estate
- Secure partnerships
- Achieve research milestones



Thank you!