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Company Presentation

Yoash Zohar, CEO

January 2024



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About Casterra

Our mission is to provide elite castor seeds to the biobased industries

- A leading company supplying an integrated ag-solution, including proprietary castor seed
 varieties supported by agro-technical know-how and novel mechanical harvesting & dehulling
 machines, to address global demand for stable castor oil supply.
- The integrated ag-solution is aiming to enable high scale commercial cultivation of castor beans.
- A fully owned subsidiary of Evogene (Nasdaq: EVGN), utilizing its Computational Predictive Biology (CPB) platform for developing elite castor varieties.
- Currently commercially active mainly in Africa and Latin America with strong business partners.

The Castor Oil Industrial Market

In recent years, castor oil is the 'oil of choice' for many applications in biobased products, lubricants, cosmetics, pharma, electronics, aerospace and other industries.

During the last year, there is a substantial increase in interest in using castor oil as a plant-based source for **biofuels**; a growing number of energy companies are establishing such activity.

The global castor oil & derivatives mechanized market is expected to reach \$2.06 billion by 2028*

CAGR of 4.9%

*https://www.marketreportsworld.com/global-castor-oil-and-derivatives-market-19862171



Castor Oil Value Chain and Uses

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Superior seed development

Seed production

Castor growth protocol

Mechanical harvest

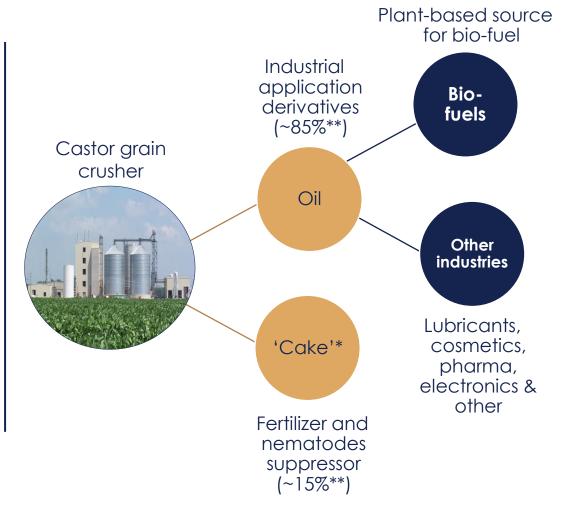








Full value-chain solution



^{*} Castor cake is nitrogen-rich organic fertilizer, obtained as a solid residue from the treatment of seeds for castor oil



^{**} Percentage of value

The Challenge

Existing castor seed supply does not meet increasing demand

- Global trend towards increased sustainability and decreased use of fusil fuel-based material for industrial applications
- Supply is mostly based on traditional cultivation and non-bred seed varieties (wild types -WT) in India

Common castor cultivation:

- Traditional cultivation
- Small-scale farm
- Hand-picked
- Selective harvest



Common castor WT plant:

- Low yield (0.6 MT/Ha.)
- Small shrub
- Perennial plant

Our Solution

Casterra has established a **unique integrated ag-solution**, including proprietary castor seed varieties, supported by agro-technical know-how and a novel mechanical harvesting & dehulling machines, addressing the global increasing demand for **stable castor oil supply**

Common castor family size tall shrub, hand-picked



Traditional cultivation, low yield (0.6 MT/Ha.) perennial plant

Current practice





Modern row-crop cultivation single-season



Compact plants, high density
high oil bred varieties
adapted to commercial mechanical harvest



Technology Platform & Integrated Ag-Solution

BREEDIRECT – a Technology Platform for Developing Elite Varieties

- Combining deep scientific know-how with Big Data and computational technology, to tailor plant genetics for improved plant traits and develop unique castor varieties.
- A proprietary plant genomic and phenotypic diverse Big-Data, to support the improvement of traits of interest.
- Leveraging Evogene's tech-engines, GeneRator AI & ChemPass AI, to accelerate a breeding program for developing unique castor seed varieties.

Integrated Ag-Solution for Commercial Cultivation

Elite Seed Varieties

- ✓ Higher yield
- ✓ Concentrated ripening
- ✓ Compact plants
- ✓ Capsule shattering
- ✓ Earliness
- ✓ Higher germination rate

Growth Protocol

- ✓ Herbicide solution
- ✓ Disease control
- ✓ Irrigation & fertilization protocols
- ✓ Crop rotation
- ✓ Rain-fed / Irrigated crop

Mechanical Solutions

- ✓ Mechanical harvesting
- ✓ Dehulling machine



















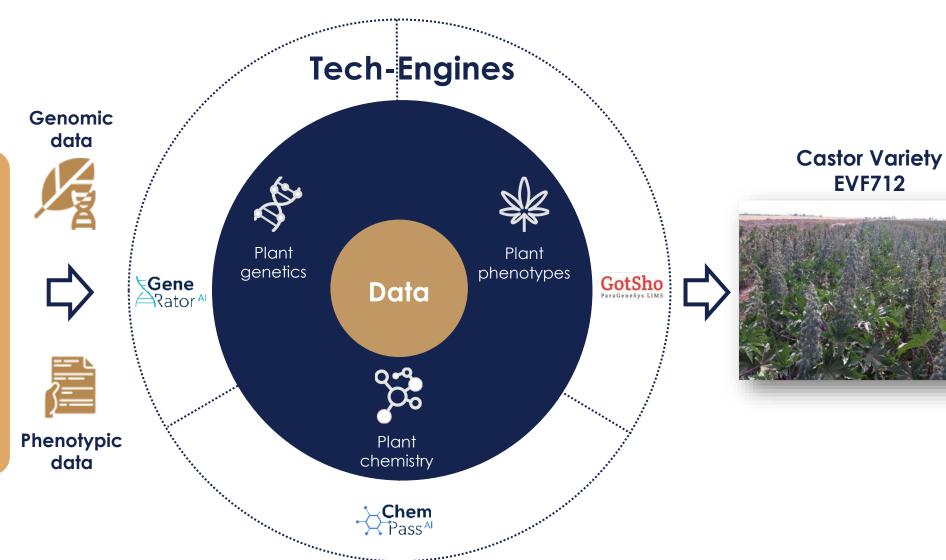
Product Definition

Desired traits

- Improved yield/ha.
- Improved oil content (%)
- Compact plants
- Early ripening







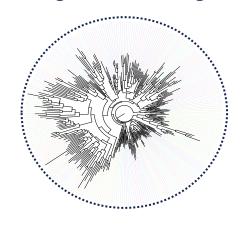


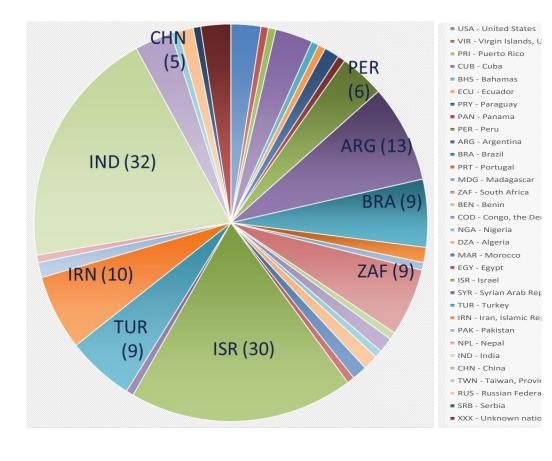
Data – Proprietary Germplasm Collection (~200 accessions)

Various geographics origins



Diverse genetic backgrounds





Distinct plant phenotypes



Tech-Engines: When Data Meets Computational Biology





Computational Genomics

Utilizing advanced Al tech-engines for identifying the most promising genomic compounds, significantly increasing probability of succuss, while directing and accelerating the breeding programs toward the target product and reducing time and cost.



Casterra's Advance Breeding Capabilities



Large prebreeding collections



State of the art data collection systems



World-class computational genomics



Fully equipped molecular labs & tissue culture rooms



NBT's pipelines in place



Field and GH capabilities for seed production







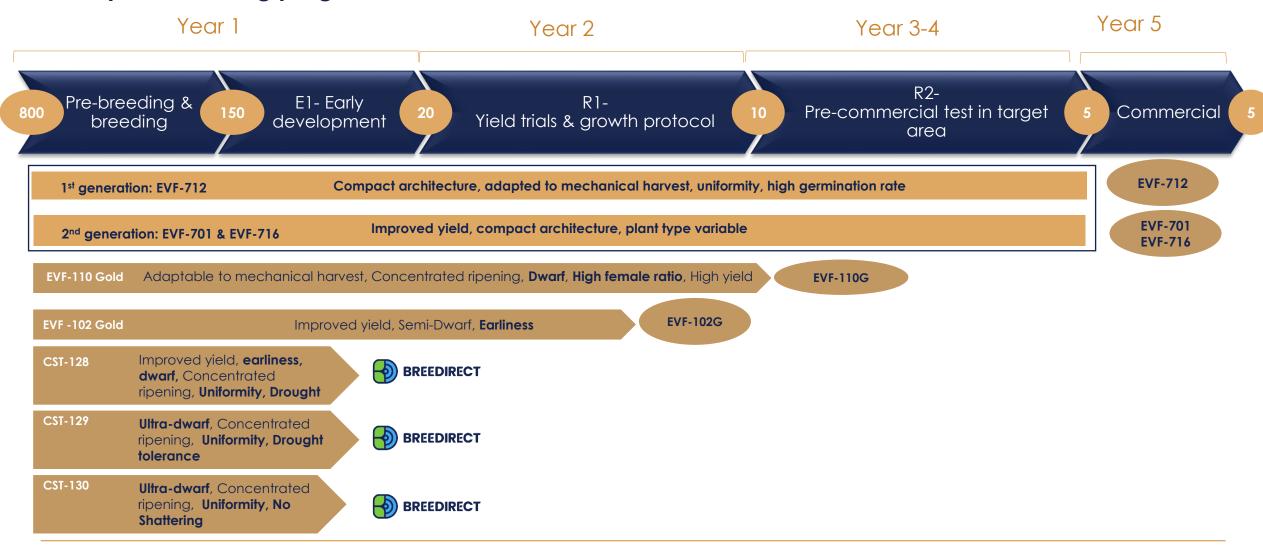






Casterra's Product Pipeline

Five-year breeding program





Castor Varieties – EVF712

Average height: 130 cm

• Flowering: 40-45 days

• Total cycle: 130 days

• Oil content: 48% - 50%

• **Grain yield:** ~ 2.5 Ton/Ha

• **Plant per Ha.:** 35,000

Drought tolerance: Medium

Mechanical harvest



^{*} Variety performance is subjected to weather conditions and to precipitation



EVF712 Ricinus communis (castor beans) Quality Seeds EVF712

Average plant height (cm)	100-150 cm
Flowering (days from sowing)	40-45 days
Total cycle (harvest) (days from sowing)	120-140 days
Receme size	Medium
Number of Receme	3-4 racemes
Stern color	Light green
Drought tolerance	Medium
Oll content (%)	48-50%
Grain yield potential (t/Ha)	2-3 t/Ha

Recommended herbicide	Pendimethalyn
Hand weeding	Proceed when necessary
Fertilizers and liming	Follow local recommendation
Manual or mechanized harvesting	Fantini headers

Explore all Castor Varieties

PEVF701 | PEVF716

Planting time	Early – mld rainy season
Planting system	Pneumatic seeders
Spacing (continuous grooves)	0.75-1 m among furrows
Plants / Hectare (Density)	35-40k
Seed consumption	10-14 kg/Ha









Castor Varieties – EVF701

Average height: 150 cm

• Flowering: 40-45 days

Total cycle: 130 days

• Oil content: 48% - 50%

Grain yield: ~ 3.5 Ton/Ha

• **Plant per Ha.:** 35,000

Drought tolerance: High

Mechanical harvest



^{*} Variety performance is subjected to weather conditions and to precipitation



EVF701 Ricinus communis (castor beans) Quality Seeds EVF701

Average plant height (cm)	120-170 cm
Flowering (days from sowing)	40-45 days
Total cycle (harvest) (days from sowing)	125-145 pays
Receme size	Large
Number of Receme	1-3 racemes
Stem color	Light red
Drought tolerance	High
Oll content (%)	48-50%
Grain yield potential (t/Ha)	2-3 t/Ha

Recommended herbicide	Pendimethalin
Hand weeding	Proceed when necessary
Fertilizers and liming	Follow local recommendation
Manual or mechanized harvesting	Fantini headers
"Variety characteristics are highly subjected to sun radiation and water availability	o temperature,

Explore all Castor Varieties PEVF712 | PEVF716

Planting time	MId – late rainy season
Planting system	Pneumatic seeders
Spacing (continuous grooves)	0.75-1m among furrows
Plants / Hectare (Density)	33-40k
Seed consumption	10-14 kg/Ha
Seeding denth	~5cm

*Variety characteristics are highly subjected to temper sun radiation and water availability









Castor Varieties – EVF716

Average height: 100 cm

• Flowering: 35-40 days

• Total cycle: 115 days

• Oil content: 48% - 50%

• Grain yield: ~ 2.5 Ton/Ha

• **Plant per Ha.:** 35,000

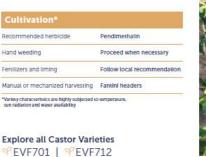
Drought tolerance: Low

Mechanical harvest



^{*} Variety performance is subjected to weather conditions and to precipitation













Casterra's Breakthrough Product Pipeline

New opportunities - new target industries



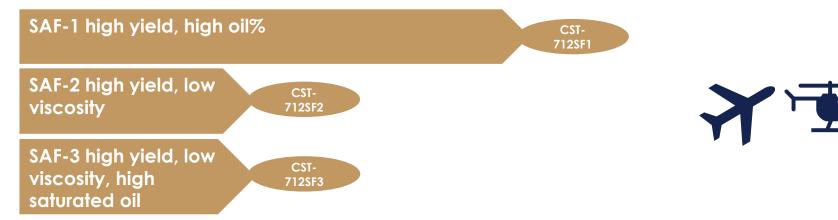
Elite lines under development optimized for animal feed ('Cake' without ricin)

No-ricin, high yield, adapted for mechanized cultivation

CST-712NR



Elite lines under development optimized for jet fuel





Mechanical Harvesting Solution

Proven commercial harvesting

Combining Casterra's proprietary castor varieties and growth protocols with an advanced harvesting solution

Initial results ~50% yield loss









Current results ~5% yield loss



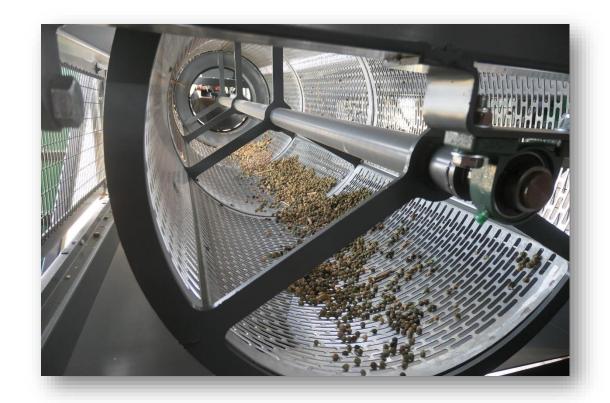
Commercial harvesting in Brazil

Mechanical Dehulling Solution

Proven commercial dehulling

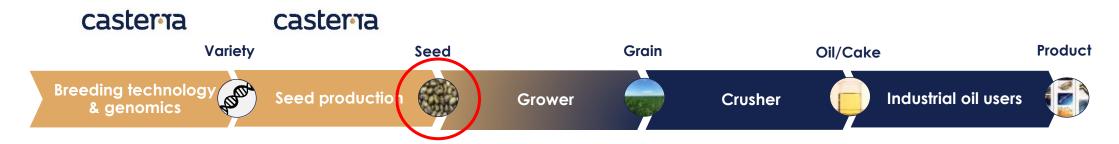
A proprietary dehulling machine, built based on the integration of accumulated worldwide knowhow of Casterra's team and top international engineering experts in seed/grain dehulling

- Higher % of clean grains
- Low % of broken grains
- High uniformity
- Machine is covered by IP application



Business Model

Seed sales – complete solution



Revenue sharing with oil producers



Business Models Execution

Seed sales – complete solution

Casterra Signs a Framework Agreement with a World Leading Oil and Gas Company to Sell Its Castor Seeds for Sustainable Biofuel Production, with Initial Purchase Orders of \$9.1 Million

JUNE 21, 2023

Casterra Announces Additional \$2.2 Million of Purchase Orders to Supply Castor Seeds for New African Territories

JULY 3, 2023

Revenue sharing with oil producers

Casterra Signs Royalty Agreement with Titan for Castor Oil Sales in South-Eastern Africa

NOVEMBER 15, 2022

Casterra's Team



Yoash Zohar

CEO



Yaron Eldad CFO



Liat Foigel Wejgman

VP HR



Yinon Plesser

Director of Production & Logistics



Eran Yossov

Head of Breeding

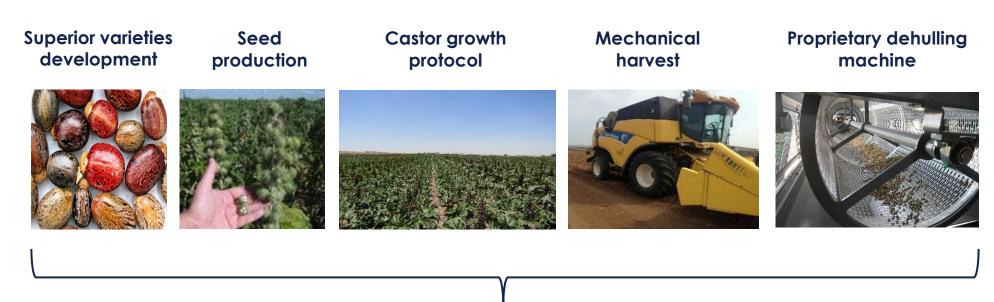


Karel Los

Market Development Agronomist – Latin America

Unique Castor Varieties & Full Value Chain Solution for Castor Oil

Casterra is the only company providing unique varieties & a complete valuechain solution for industrialized castor cultivation for a stable castor oil supply



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Video – Casterra's Dehulling Machine



Video – Casterra's Harvesting Header

