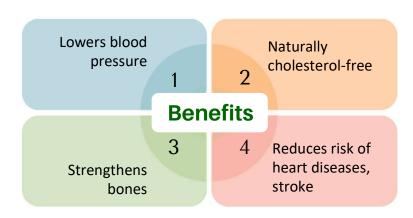


Increasing Global Significance of Soy



The plant-based market grew by 20% during the pandemic.

Worldwide **veganism** grew with increasing health and consumer awareness 10% of US adults are Vegan

By **2031**, it wi increase by



A study published in an Italian article journal, Environmental Public Health in Jan 2023

Association exist between soyfood or soybean products consumption and psychological symptoms.

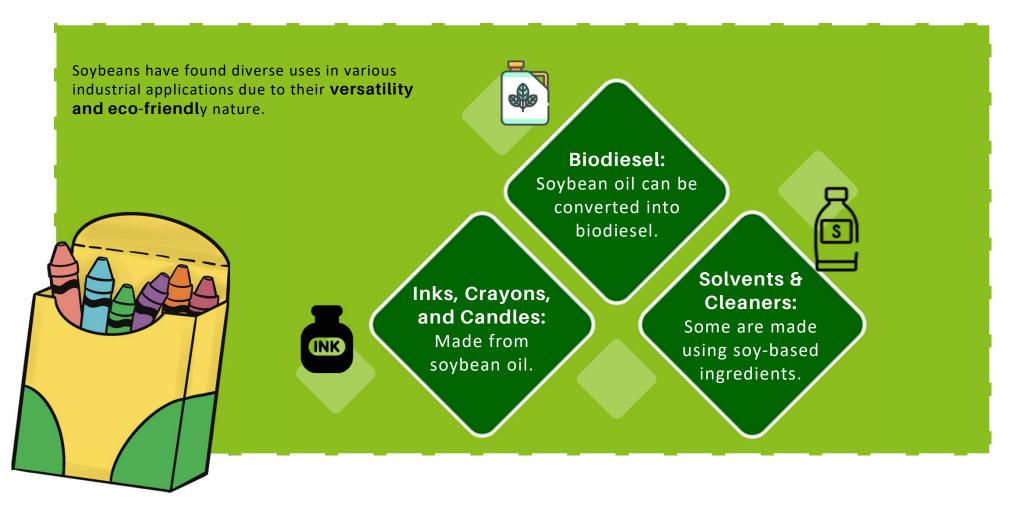
- 1 Secretion of brain hormones
- lsoflavones in soy act as antidepresentants.
- Animal experiment reverted potential mechanism of action of Isoflavones



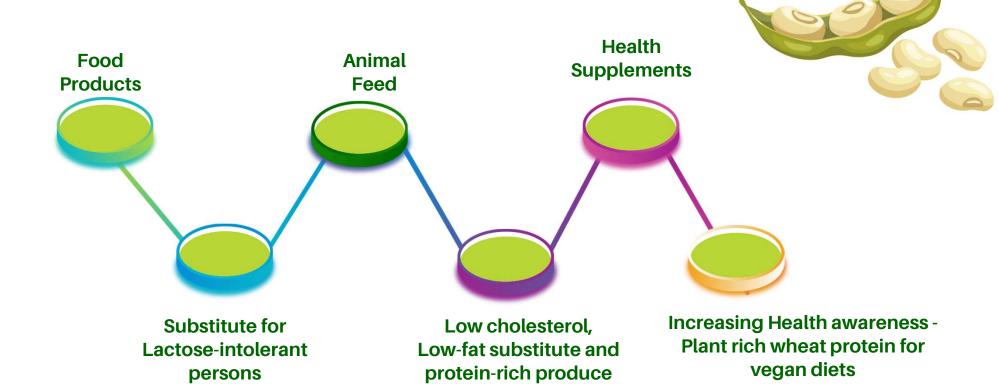
Scope of Soy



Soy for Industrial Application



Impact of Soy on Nutrition



Soy Sauce: A condiment made from fermented soybeans.

Tempeh:
A fermented soy
product
consumed as a
protein source.

Soy Milk: A common dairy milk alternative.

Food Products

Edamame:

Young green soybeans often consumed as a

Tofu:

A popular meat substitute, especially in vegetarian and vegan diets. Soy Flour & Offe

Soy Protein: Used in various food products like bread, cereals, and meat Textured
Vegetable
Protein (TVP):

ften used in meat analogues or as meat extenders.

Soy Food Products & Health Supplements

Soybean Meal: A major source of protein used in livestock feed.

Soy Lecithin:
Used as an
emulsifier in many
food products &
supplements.

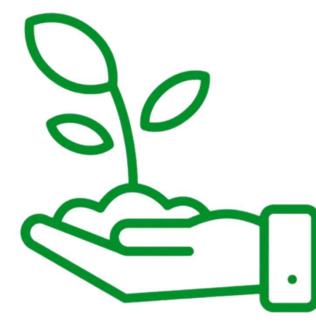
Soy Isoflavones:
Often promoted
for their
potential health
benefits

Soy's role in a sustainable future

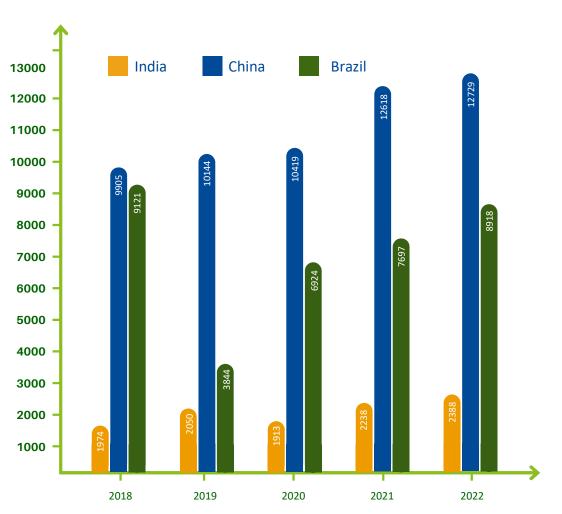
Genetic Modification:

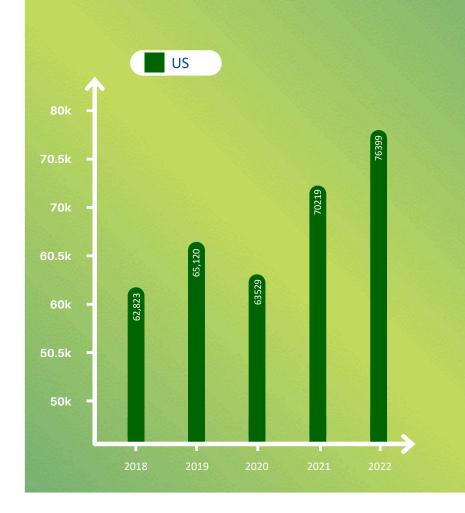
Sustainable Agriculture:
Soybeans can be grown sustainably,

- Crop Rotation:Soybeans are nitrogen-fixing plants and are often used in crop rotation to improve soil health.
- Genetic Modification:
 Soybeans are one of the primary crops that have been genetically modified for various reasons, such as resistance to certain pests.
 - 4 Carbon Sequestration: Soybean plants can capture and store atmospheric carbon, playing a role in combatting climate change



Impact of purchasing power on Soya



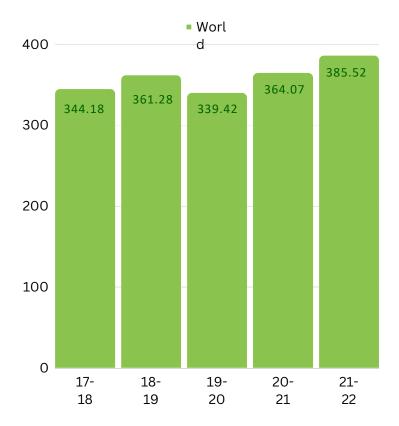


The growing market for Soy





Soy production



Year	India		
17-18	8.35		
18-19	10.93		
19-20	9.30		
20-21	10.45		
21-22	11.20		



Light Green to Dark Green: Soybean Farms.

Orange: Other pulses & crops, also there are high chances of intercropping in these fields.

Red: Trees / Fruit & Vegetables.

White: Trees

Soybean Acreage

STATE	DISTRICT	CROP	2021-22	2022-23	2023-24
Madhya Pradesh	SHAJAPUR	Soybean	284,807	253,479	272398
Madhya Pradesh	Agar Malwa	Soybean	166,167	144,565	SOPA
Madhya Pradesh	Ujjain	Soybean	509,257	483,794	SOPA
Maharashtra	Akola	Soybean	231,961	255,157	SOPA
Maharashtra	Nanded	Soybean	415,310	448,535	SOPA
Maharashtra	Parbhani	Soybean	276,896	296,279	SOPA

^{*} All area unit is in hectare (ha)

Production

COUNTRY	INDIA
CROP	Soybean
YEAR	2022-23
GOVT	149.76
ARYA	143.01
CHANGE %	-4.5

Tonnes

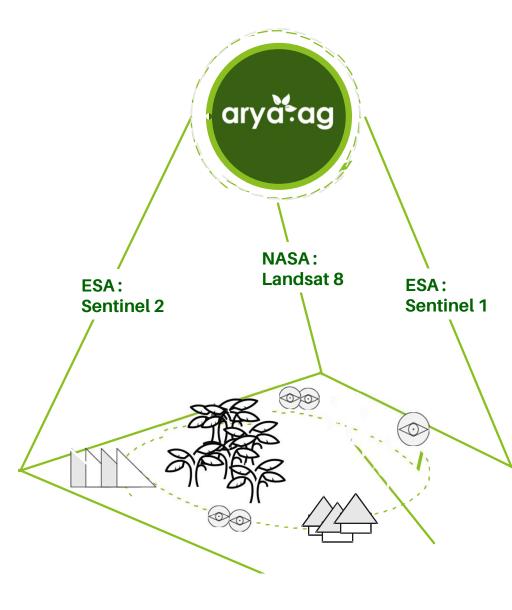
^{*} Arya has done tie up with sopa, the numbers will be presented by sopa shortly

Our flagship offering, Satellite Data Intelligence

We leverage advanced AI and machine learning techniques to analyze satellite imagery for monitoring farms, crops & area of operations across the globe.

>90% | 07 | 50+

Al Models | Days | Crop | Revisit | Portfolios



An integrated platform enabling













Sectors we impact

Inputs and Chemical

Farm Stress and Catchment Analysis

60

Seed and Processors

Member and Trials Farm Management



Banks and Insurance

Farm Credit and Income Assessment

Corporate & Government

Farm Sustainability & Carbon

Monitoring

Farm Boundaries

The Need for Mapping

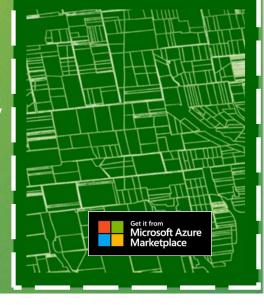
Essential for Effective Land Management and Crop Production

70x Fast and Accurate

Our Al Technology Provides Precise Farm Boundary and Reduces Physical Fieldwork

Best Quality

Trained on 1.1 Billion+ segments over 11 million training images. Accuracy > 97%.



Farm Insights



> Boundaries

Ease user onboarding on digital platforms

> Activities

Strategic Sowing & Harvest Timing for Growth & Risk Control

Soil Moisture %

Improving Water Usage with Timely Irrigation Triggers

> Score & Credit & Income Rankings Analysing Past Years

Analysing Past Years Crop History and Management Practices

> Stress

Analyzing Stress Zones for Optimal Farm Management.

DAMAGED

Improve Farm

Sustainability

Performance &

- STRESSED
- HEALTHY

Catchment Understanding



Year-over-Year

Comparison from Last Year for Decision Making

> Resolution

Leveraging Data for better Analysis

- STATE
- DISTRICT
- TALUKA
- VILLAGE

> Crop Classification

Identification & distribution of types of crops using AI

Stress Projection

Algorithms for projection of losses, i.e, biotic, abiotic, nutrient, weather-based

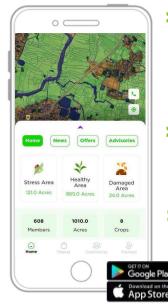
>Production Estimate

Estimate to Improve Portfolio and Reduce Risks

>Time Calendar

Tracking Time & Intervals of Sowing and Harvesting.

Mobile App



> Home

Access Reports, News, Expert Advice, Weather, Offers & Discounts.

> Market

Find Mandi Prices, Connect Buyers & Sellers, Avail Loans

> Member:

Monitor Farms,
Connect with
Members, Manage
Crop, Plan Input Sales
& Purchases

> Community

Solve issues via Video calls, Announcements, Broadcast Messaging

Digital Shop

Create Own Shop to Share Product

Multi-Lingual

Available in 6 languages.

arya ag

Multiple Crops



Paddy



Mango







Pomegranate































CROPS

