



Introduction to Organic Farming

**Dr Thakur SKR
2021**

A GetSetLive Organic Farming Series

How We will Proceed

- Organic Farming
- Origin and History
- Reasons for Chem. Farming
- Darker Side of Chem. Farming
- World Scenario of Organic Farming
- Indian Scenario of Organic Farming
- Opportunities for India
- What You Gain at the END of Workshop



Organic Farming

- Organic Farming or Traditional Indian Farming
- A production system which avoids or largely excludes the use of synthetically compounded fertilizers, pesticides, growth regulators, genetically modified organisms and livestock food additives
- Rely upon crop rotations, use of crop residues, animal manures, legumes, green manures, off farm organic wastes, biofertilizers, mechanical cultivation, mineral bearing rocks and aspects of biological control to maintain soil productivity and tilth to supply plant nutrients and to control insect, weeds and other pests.

Four Principles

- Principles of good health: Health of ecosystem, people and communities
- Principles of ecology: Right balance bw ecosystem and environment
- Principles of fairness: Good human relationship and quality of life
- Principles of care: Considerations to environment or more specifically to future environment

History

Organic farming was practiced in India since thousands of years.

The great Indian civilization thrived on organic farming and was one of the most prosperous countries in the world, till the Britisher invaded it.

In traditional India, the entire agriculture was practiced using organic techniques, where the fertilizers, pesticides, etc., were obtained from plant and animal products.

The cow, not only provided milk, but also provided bullocks for farming, dung & urine which were used as fertilizers and natural pesticides.

The so called founder of Organic Farming Albert Howard founded an Institute of Plant Industry in India in 1921 stating that he wants to improve traditional methods of Indian farming.

And Mr Albert Howard like other Britisher did the gamut of translation of traditional knowledge and practises of organic farming prevailing in India into English literature and presented to the World to become so called Father of Organic Farming.

Reasons to Change to Chem. Farming

During 1950s and 1960s, the ever increasing population of India and several natural calamities lead to a severe food scarcity in India. It was feared that millions of poor Indians would die of hunger in the mid 1970s.

As a result, the government was forced to import food grains from foreign countries.

To increase food security, the government had to drastically increase the production of food in India.

The Green Revolution (under the leadership of M. S. Swaminathan) became the governments most important program in the 1960s.

Large amount of land was brought under cultivation.

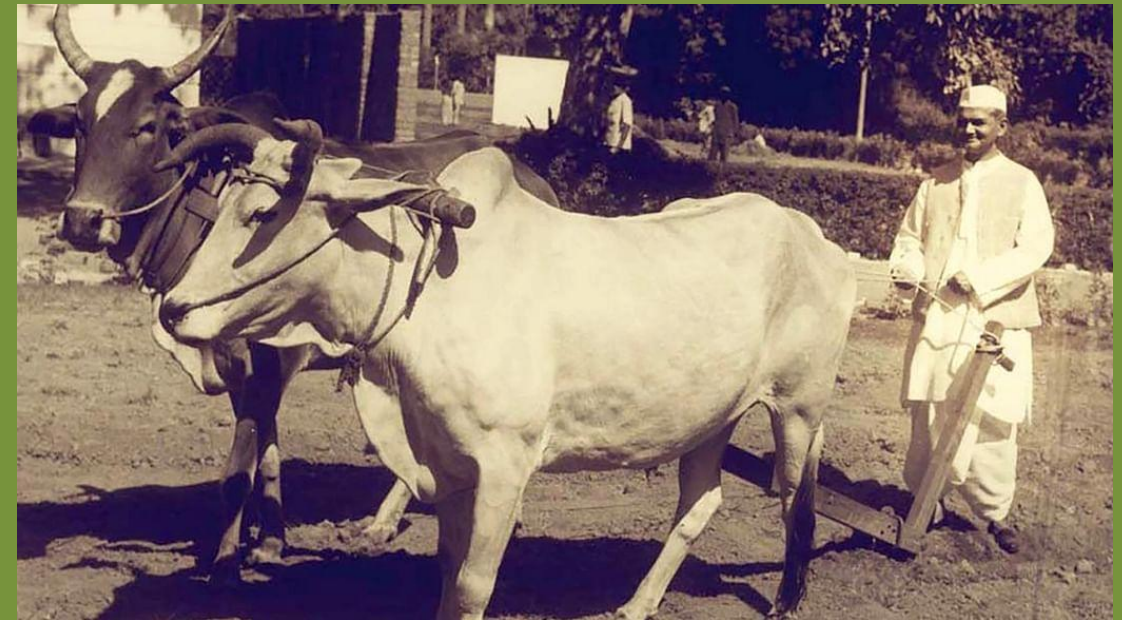
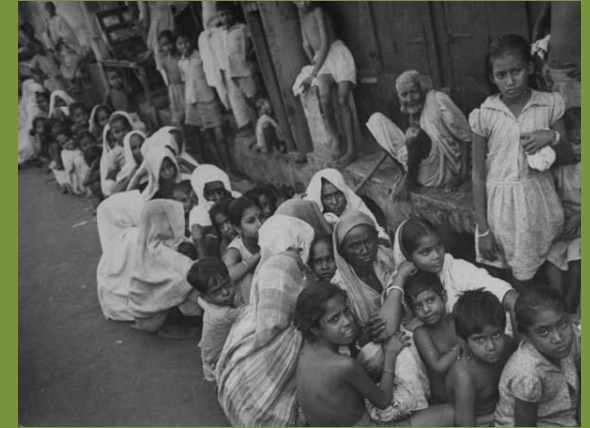
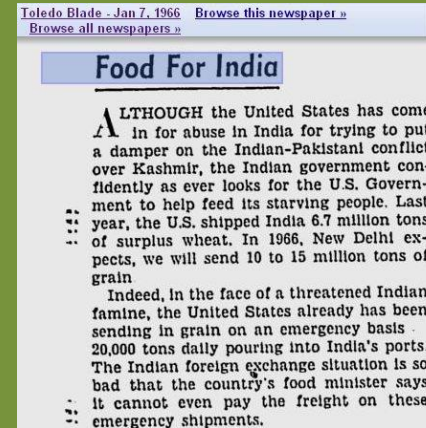
Hybrid seeds were introduced.

Natural and organic fertilizers were replaced by chemical fertilizers and locally made pesticides were replaced by chemical pesticides.

Large chemical factories such as the Rashtriya Chemical Fertilizers were established.

After Green Revolution, the country, which was greatly relied on imports for its food supply, reduced its imports every passing year.

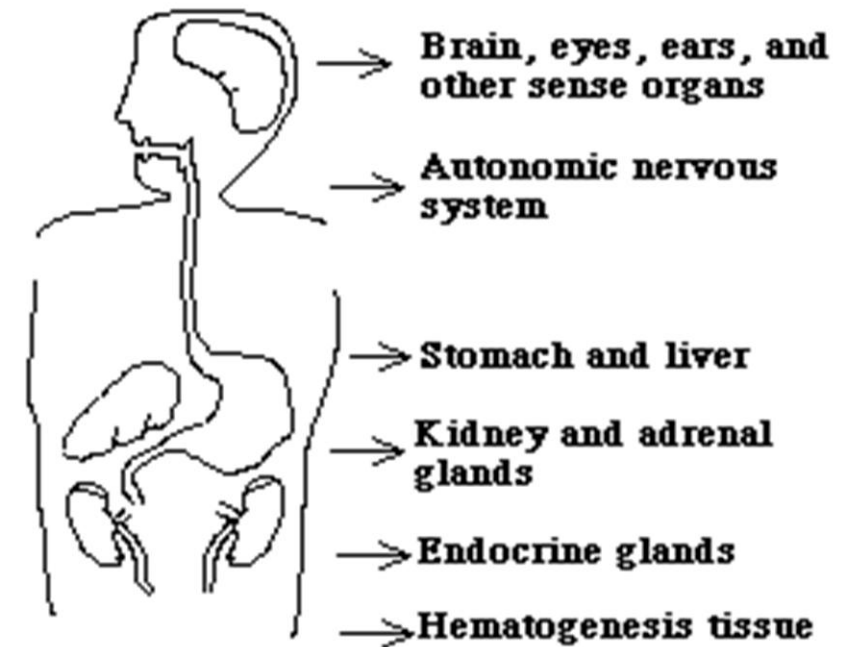
In 1990s, India had surplus food grains and once again became an exporter of food grains.



Darker Side of Chem. Farming

- As time went by, extensive dependence on chemical farming has shown its darker side.
- The land is losing its fertility and is demanding larger quantities of fertilizers to be used.
- Pests are becoming immune requiring the farmers to use stronger and costlier pesticides.
- Due to increased cost of farming, farmers are falling into the trap of money lenders, who are exploiting them no end, and forcing many to commit suicide.
- Both consumer and farmers are now gradually shifting back to organic farming in India.
- It is believed by many that organic farming is healthier.
- Many farmers in India are shifting to organic farming due to the domestic and international demand for organic food.
- Organic farming, therefore, provides a better alternative to chemical farming.
- No doubt, the organic movement has again started in India.

DAMAGING AFFECTS OF AGRICULTURAL CHEMICALS



World's Region



Sector Wise Contribution in GDP

USA

Agricultural: 0.9
Industry: 18.9
Services: 80.2

China

Agricultural: 7.9
Industry: 40.5
Services: 51.6

Japan

Agricultural: 1.1
Industry: 30.1
Services: 68.7

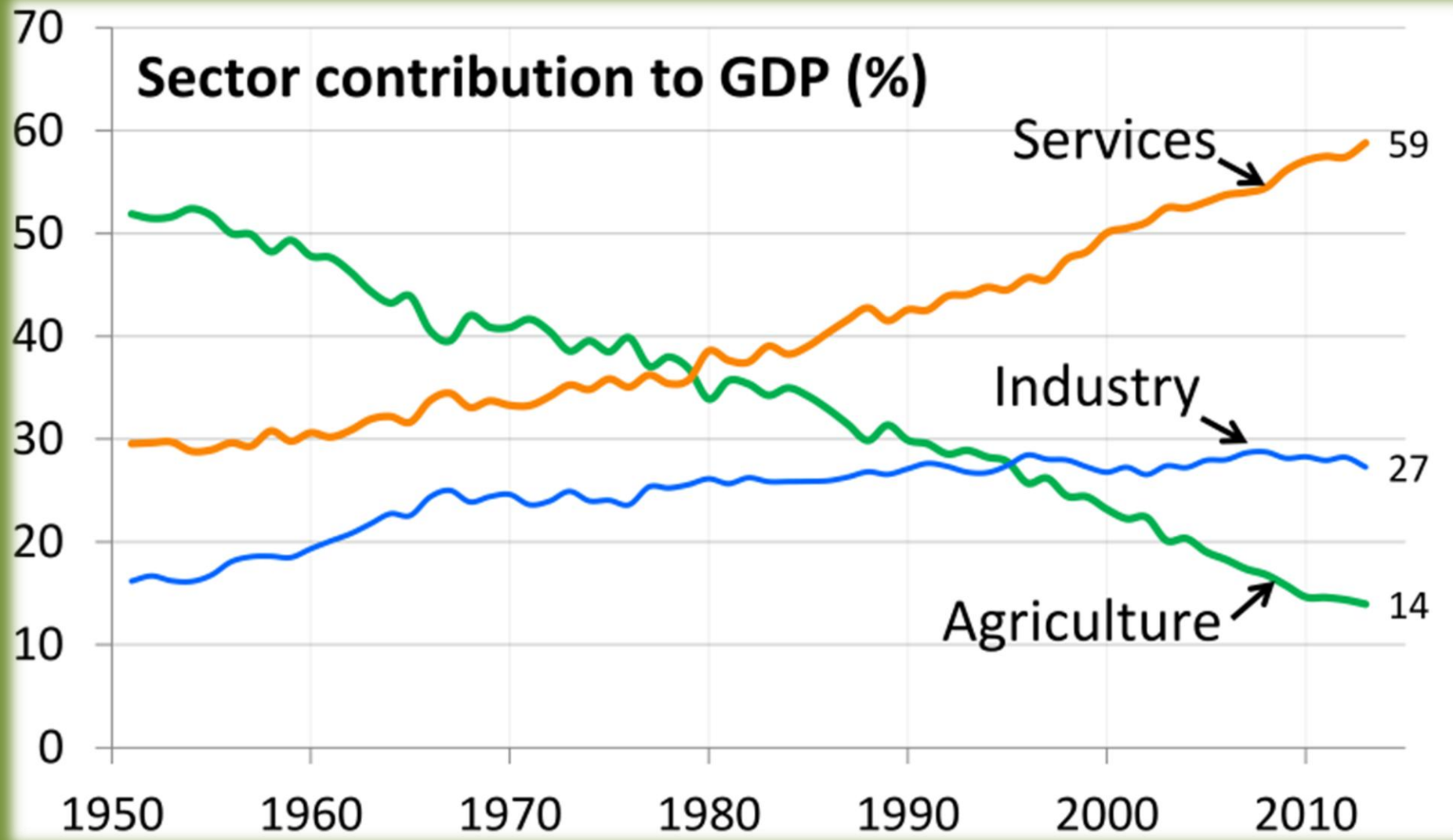
Germany

Agricultural: 0.7
Industry: 30.7
Services: 68.6

India

Agricultural: 16
Industry: 25
Services: 49.9
Manufacturing: 14

Sector Wise Contribution Trend of India

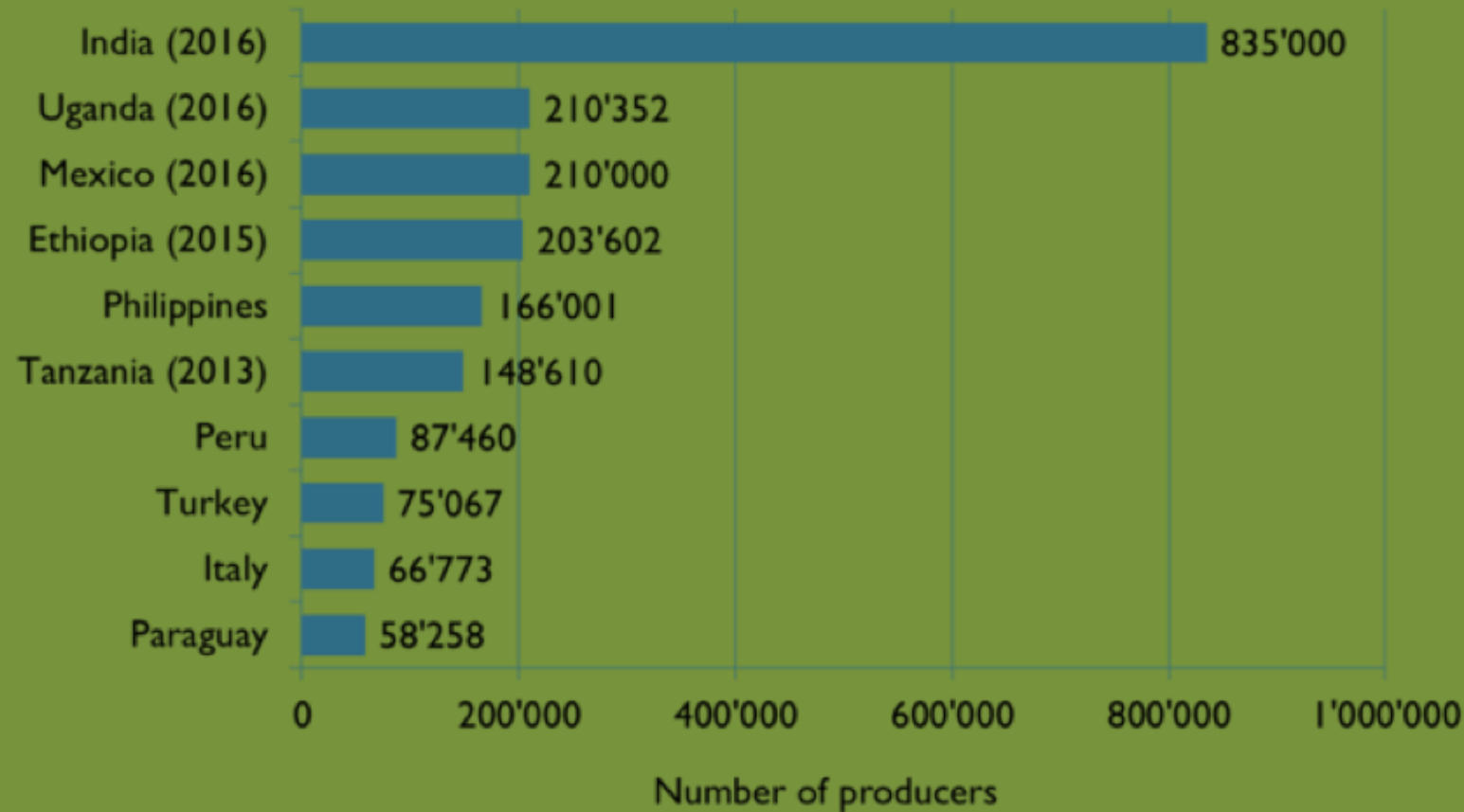


World Scenario of Organic Farming

The ten countries with the largest numbers of organic producers 2017

FiBL

Source: FiBL survey 2019



Development of the number of countries with data on organic agriculture 1999-2017

FiBL

Source: FiBL-IFOAM-SOEL-Surveys 1999-2019



ORGANIC FARMLAND 2017

World
69.8
Mio ha

In Oceania there were 35.9 Mio ha, in Europe 14.6 Mio ha, and in Latin America 8 Mio ha.



Distribution of organic agricultural land by region 2017

Australia
35.6
Mio ha

The ten countries with the largest organic agricultural areas represent 79% of the world's organic agricultural land.



The five countries with the largest areas of organic agricultural land 2017

1.4% of the
world's farmland
is organic

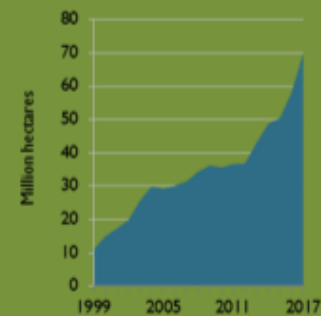
14 countries have 10% or more of their agricultural land under organic management.



Top 5 countries with more than 10 percent of organic agricultural land 2017

+533%
since 1999

In 2017, over 11.7 million hectares more were reported compared with 2016.



Growth of the organic agricultural land 1999-2016

FiBL

Source: FiBL survey 2019 www.organic-world.net – statistics.fiblor.org



ORGANIC RETAIL SALES 2017

World
approx.
90 billion €

The largest single market is the USA followed by the EU (34.3 billion €) and China. By region, North America has the lead (43 billion €), followed by Europe (37.3 billion €) and Asia.



Distribution of retail sales value by country 2017

North America
almost
42 billion €

The countries with the largest markets for organic food are the United States (40 billion €), followed by Germany (10 billion €), France (7.9 billion €) and China (7.6 billion €).



The five countries with the largest markets for organic food 2017

288€
are spent per
person in
Switzerland

Switzerland has the highest per capita consumption worldwide, followed by Denmark and Sweden.



The five countries with the highest per capita consumption 2017

13.3%
of the
food market
in Denmark is
organic

The highest shares the organic market of the total market is in Denmark, followed by Sweden, Switzerland, Austria, and Luxembourg.



The five countries with the highest organic shares of the total market 2017

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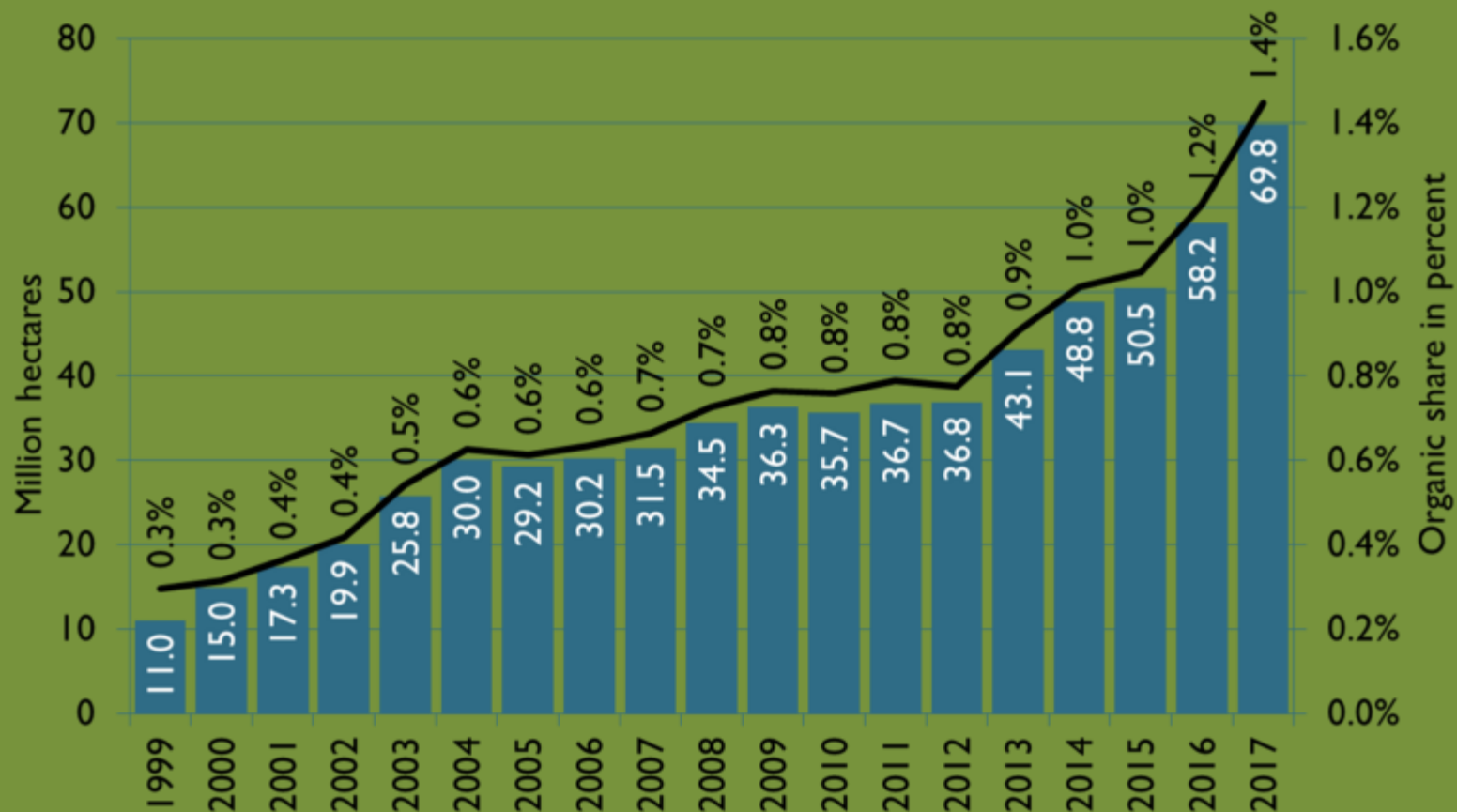
Source: FiBL survey 2019 www.organic-world.net – statistics.fibl.org



Growth of the organic agricultural land and organic share 1999-2017

FiBL

Source: FiBL-IFOAM-SOEL-Surveys 1999-2019



Organic Farming World Economy

2021

7.77 billion
dollar

CAGR

4.9%

2025

10.01 billion
dollar

Indian Scenario of Organic Farming

Total Area

328.7 million
hectare

Cultivable Area

155.2 million
hectare

Work Force

42%

GDP

16-17%

Organic Farms

15000

Organic Land

2.78 million
hectare

Rural

66%

Farm Output

2nd

Land

7th in world

Population

2nd

Necessity to Change Back to Traditional Indian Farming

Improvement of Human Health

Organic Food Industry is Growing Fast and Guarantees High Profitability

Environmental Sustainability and Food Security

For instance, the estimated market value of certified organic products in 2001 was approximately \$20 billion. As of 2002, it was \$23 billion and more than \$46 billion by 2007. The market had reached \$63 billion worldwide by 2012.

Rich in Nutrients

2017 it has reached 90 billion pound economy

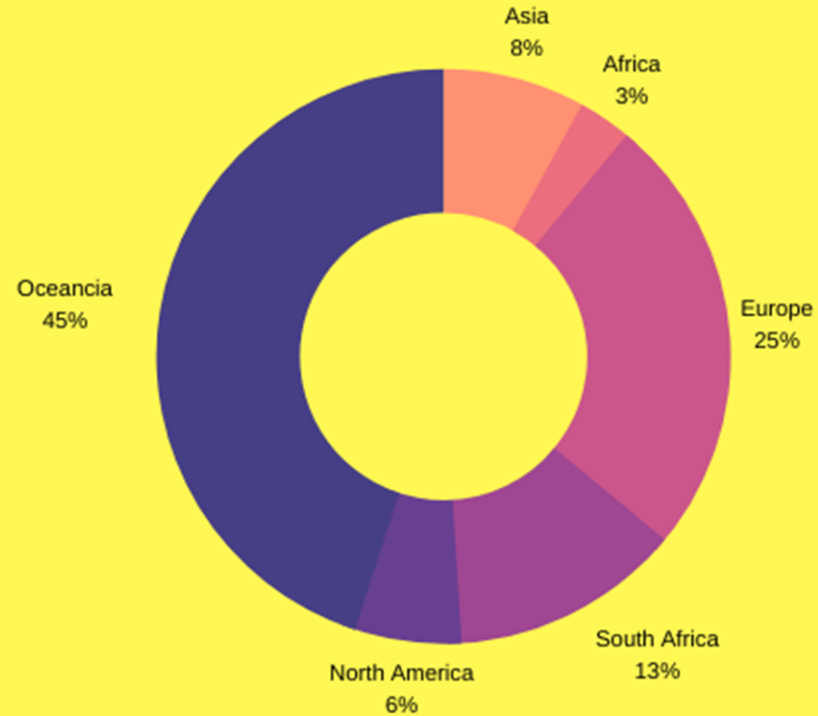
Rich Taste of Organic Produce

Opportunities for Young India

Market Share

1000 Cr

Global Share of Organic Food Industry



Go

"

Get Set Live

the dream of

Rasayan Muket Khaddan

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