

Organic farming – a global perspective



IFOAM
ORGANICS
INTERNATIONAL



Future agricultural challenges:

- **Enough, healthy, affordable food**
- **Limitations of fossil resources**
- **Climate change**
- **No / low pollution**
- **Preserve nature and biodiversity**
- **Changing ethics and habits**
- **Economics and globalisation**



Recently we use our world 1.5-times

5 mio tons of pesticides are used per year
(0.7 kg / capita and year; trend: increasing)



	Pesticide use kg/ha cropland 2019
World	2.7
Asia	4.4
India	0.4

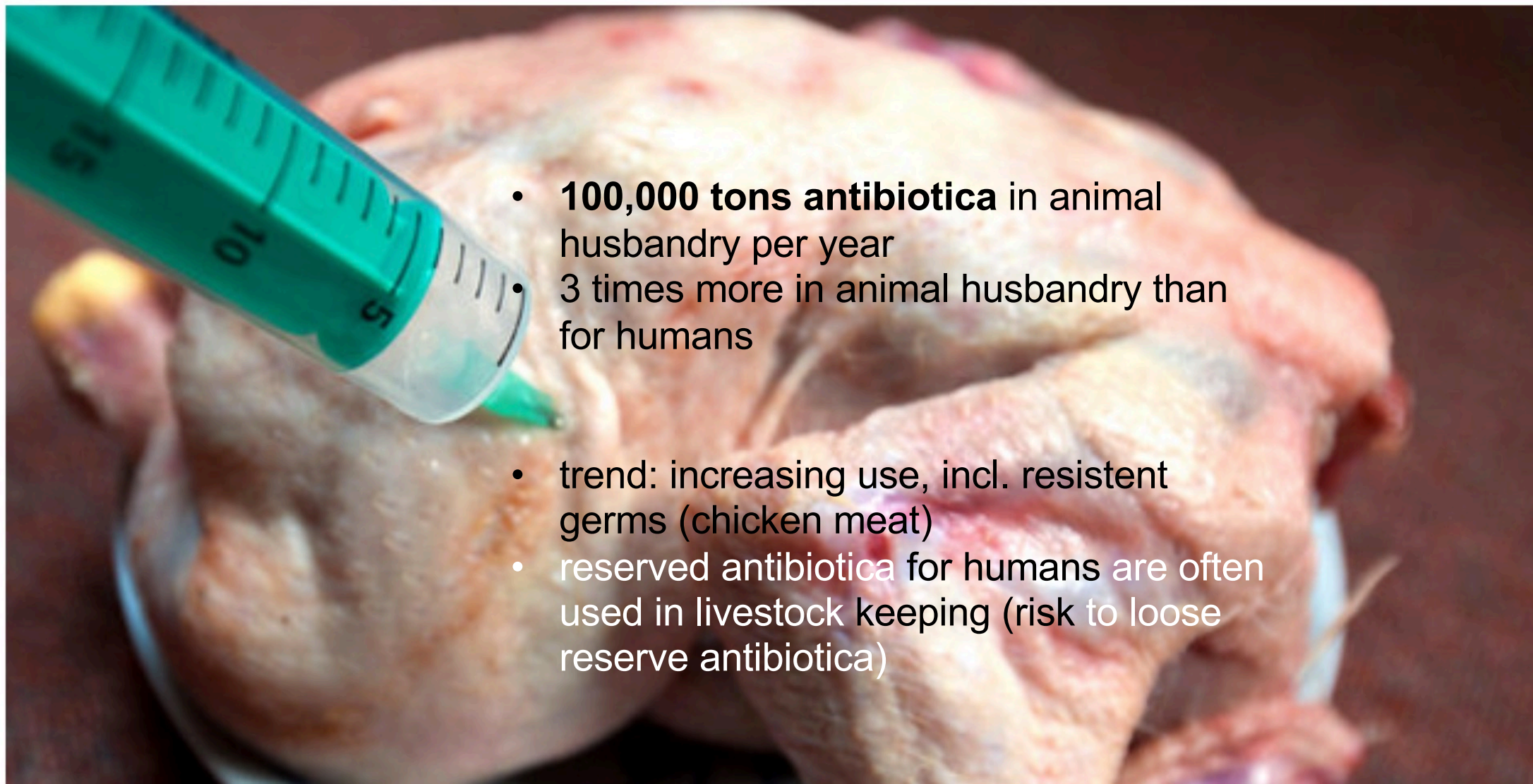
FAOstat 2021

1 billion tons of nutrients are applied per year
(trend: increasing)

- 80% manure, 20% mineral fertilizer NPK
- Water contamination
- Polluted soils (drugs)
- Food security risks

	Mineral fertilizer (kg NPK/ha 2018)
World	39
Asia	64
India	152

FAOstat 2021



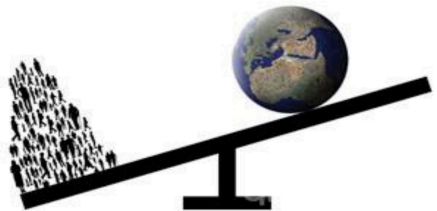
- **100,000 tons antibiotics** in animal husbandry per year
- 3 times more in animal husbandry than for humans
- trend: increasing use, incl. resistant germs (chicken meat)
- reserved antibiotics for humans are often used in livestock keeping (risk to loose reserve antibiotics)

Degradation, pollution, sealing and droughts

(globally, every
arable land
food
year are 2.5%
lost for
production)

Water supply





Land becomes scarce



in
2100

m2 / person	World	Asia	India
today (2015)			
country area	18.324	7.279	2.507
- grassland	4.457	2.464	1.371
- cropland	2.165	1.325	1.293
medium case 2100			
country area	12.383	6.775	1.981
- grassland	3.012	2.293	1.083
- cropland	1.463	1.233	1.021
maximum case 2100 (95% variation)			
country area	8.632	4.550	1.429
- grassland	2.100	1.540	781
- cropland	1.020	828	737

Rahmann et al. 2019

2100 City	Population (mio)
Lagos	88,345
Kinshasa	83,494
Dar Es Salaam	73,678
Mumbai	67,240
Delhi	57,334
Khartoum	56,149
Niamey	56,149
Dhaka	54,250
Kolkata	52,395
Kabul	50,270

Hoornweg and Pope, 2014

Organic can be
one option
to solve future
problems

Organic Farming

Health

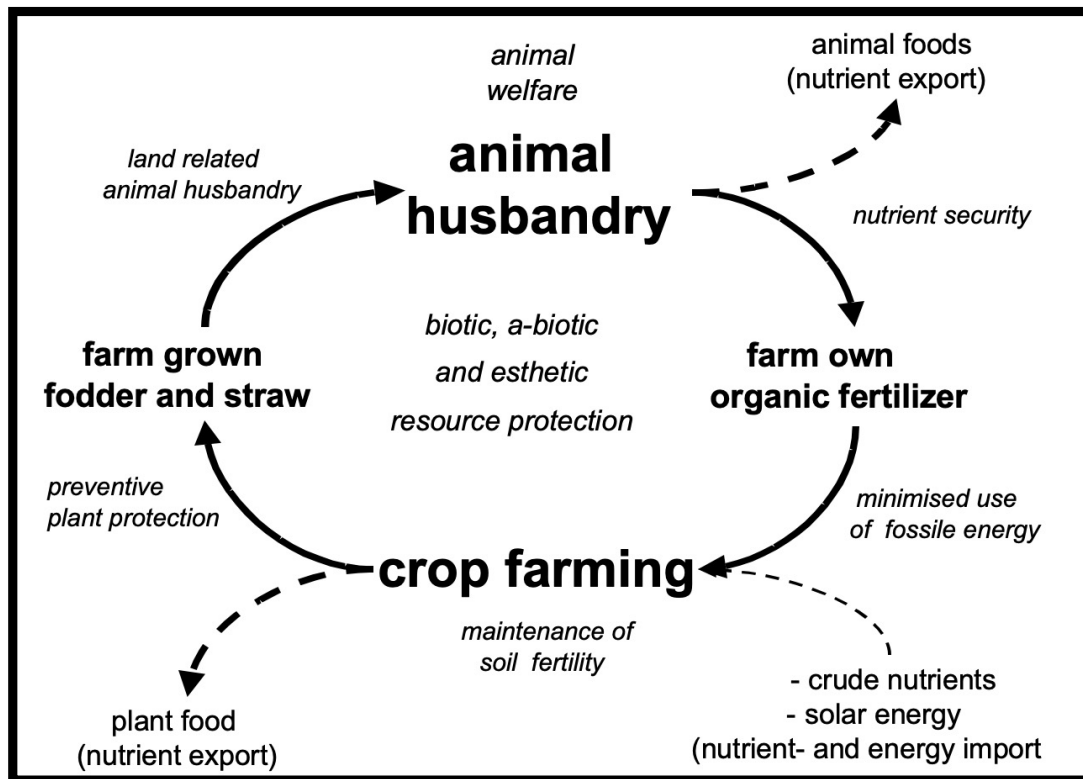
Care

Ecology

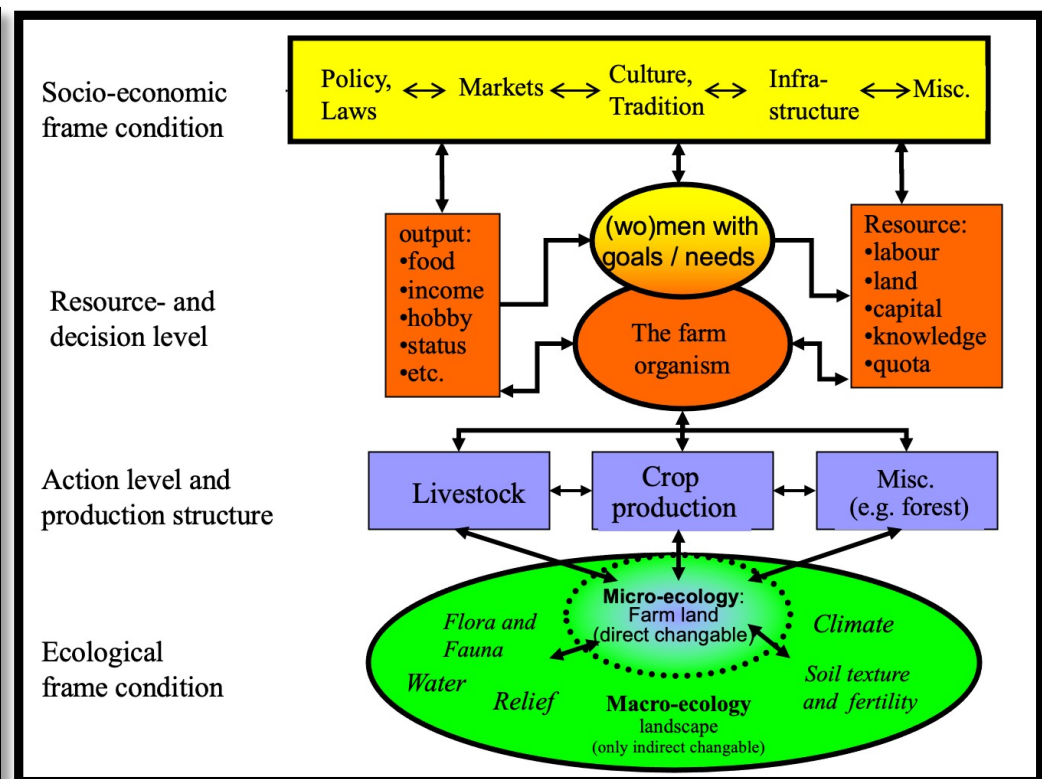
Fairness

Organic Farming is a system approach

on farm level

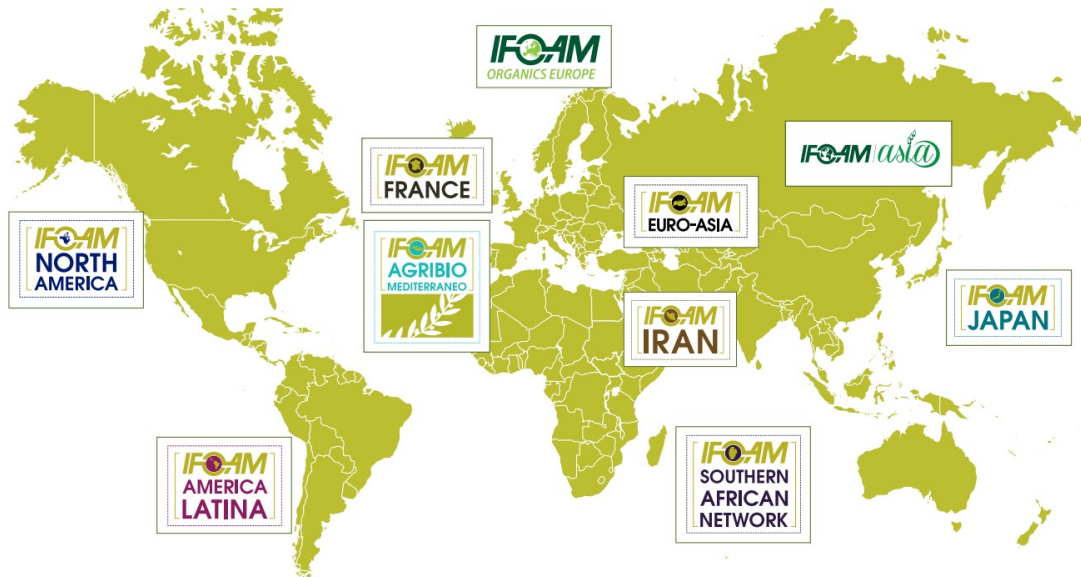


on agro-ecology level



International Federation of Organic Agricultural Movements (IFOAM)

www.ifoam.bio



ANNUAL REPORT 2020

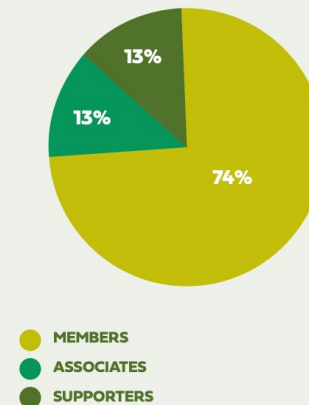
IFOAM - Organics International

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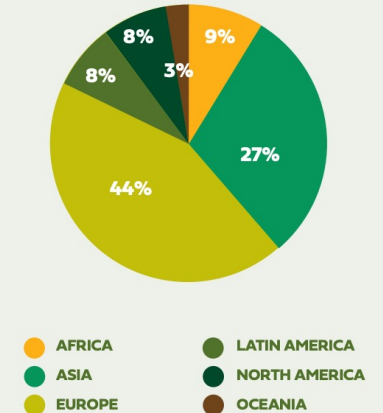
We have 719 affiliates around the world.



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AFFILIATES BY REGION



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BioFach: world leading organic fair

BioFach:

- Germany (main)
- Japan
- India
- Thailand
- USA
- Brazil
- Kenia



Organic World Congress: every 3 years

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19TH ORGANIC WORLD CONGRESS

जैविक कृषि विश्व कुंभ

An Organic World Through an Organic India

9 - 11 November 2017 | New Delhi, India

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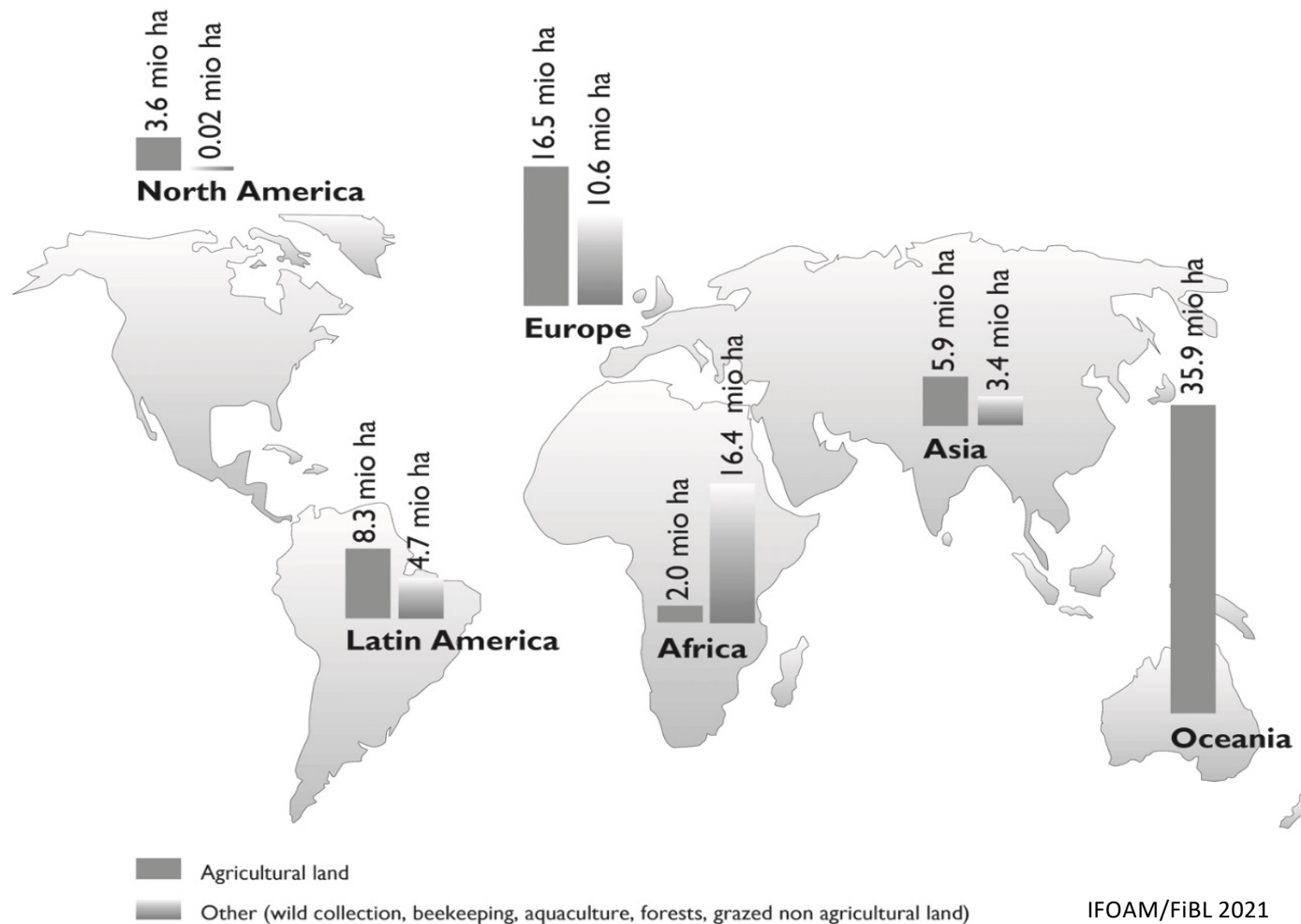
OWC 2017
organized by:

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PDA
trade fairs



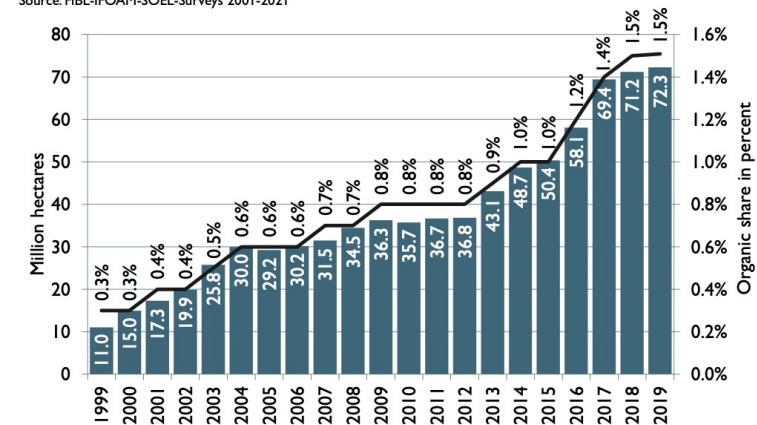
Organic farming worldwide



IFOAM/FiBL 2021

Growth of the organic agricultural land and organic share 1999-2019

Source: FiBL-IFOAM-SOEL-Surveys 2001-2021

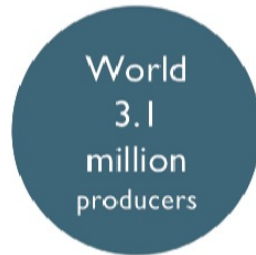


World organic farmland share 2019:

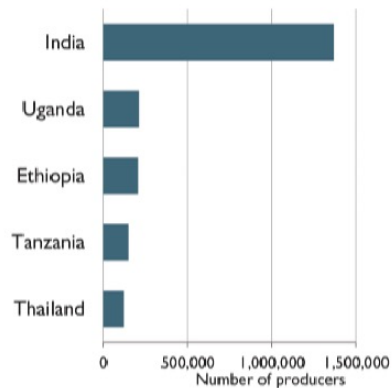
1.5 %

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ORGANIC PRODUCERS 2019



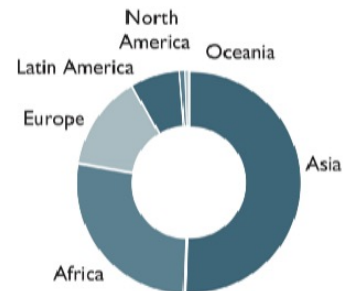
The country with the most organic producers is India, followed by Uganda and Ethiopia.



The five countries with the most organic producers 2019



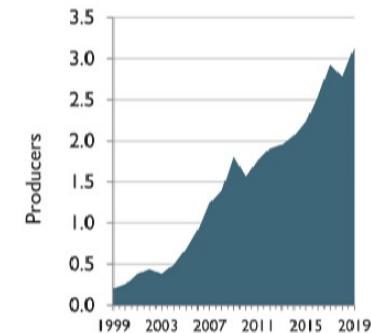
More than 91% of the producers are in Asia, Africa, and Europe.



Distribution of organic producers by region 2019



There has been an increase in the number of producers by 1'564,524 or over 100% over the past decade.



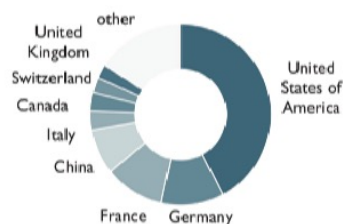
Development of the number of organic producers 1999-2019

Source: FiBL survey 2021 www.organic-world.net – statistics.fibl.org

ORGANIC RETAIL SALES 2019

World
over
106 billion €

The largest single market is the USA (44.7 billion €) followed by the EU (41.4 billion €) and China. By region, North America has the lead (48.2 billion €), followed by Europe (45 billion €) and Asia.



Distribution of retail sales value by country 2019

North America
48 billion €

The countries with the largest markets for organic food are the United States (44.7 billion €), Germany (11.9 billion €), France (11.3 billion €) and China (8.5 billion €).



The five countries with the largest markets for organic food 2019

344€

are spent per
person in
Denmark,
338 € in
Switzerland

Denmark and Switzerland have the highest per capita consumption worldwide, followed by Sweden, Luxembourg and Austria.



The five countries with the highest per capita consumption 2019

12.1 %
of the
food market
in Denmark is
organic

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



The five countries with the highest organic shares of the total market 2019

Source: FiBL survey 2021 www.organic-world.net – statistics.fibl.org

Organic farming targets:

- EU: 25 % till 2030
- by law in Bhutan: 100 %
- top-down Sri Lanka: 100 %
- some Indian states: 100 %
- ...

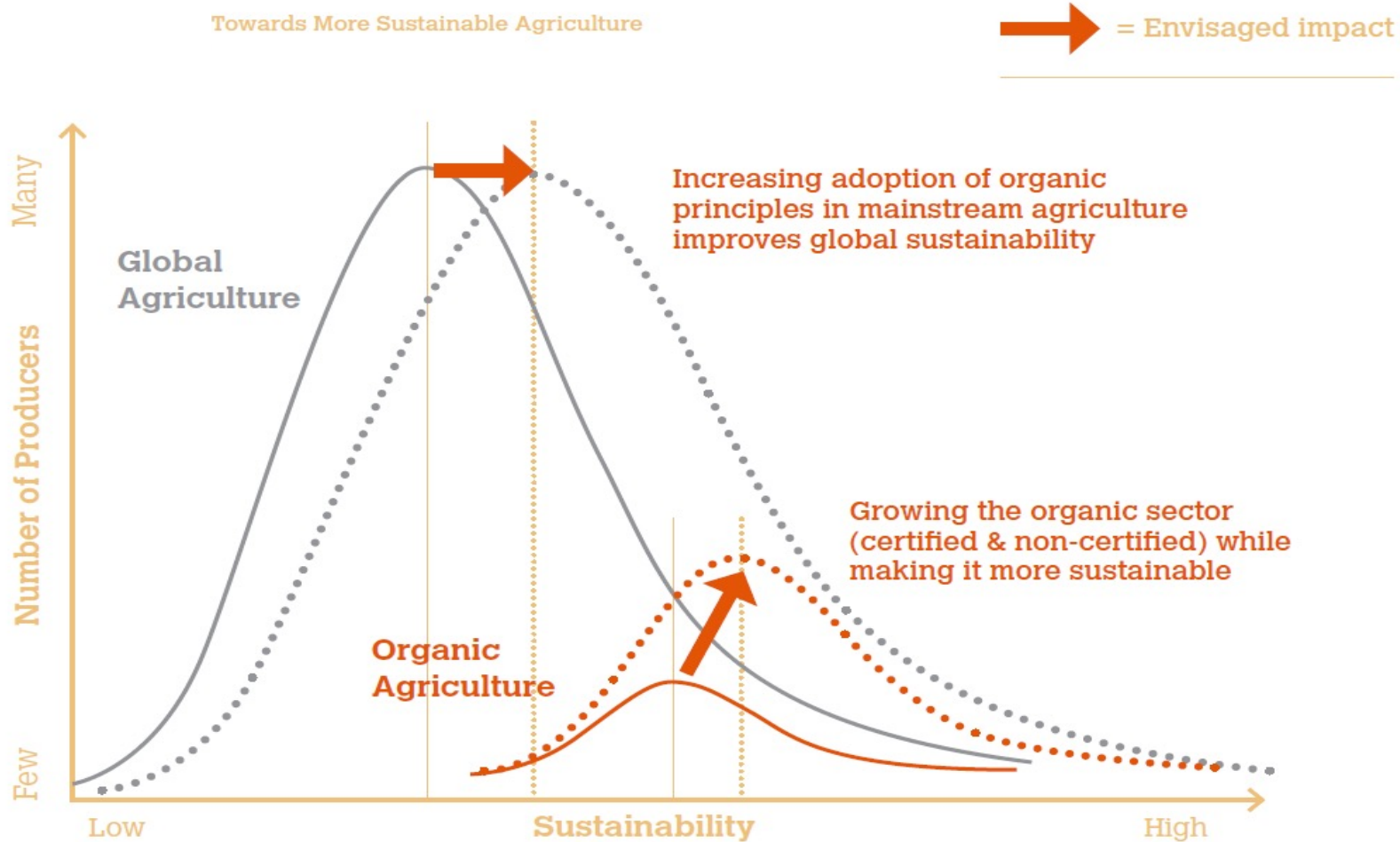
Action plan for organic production in the EU

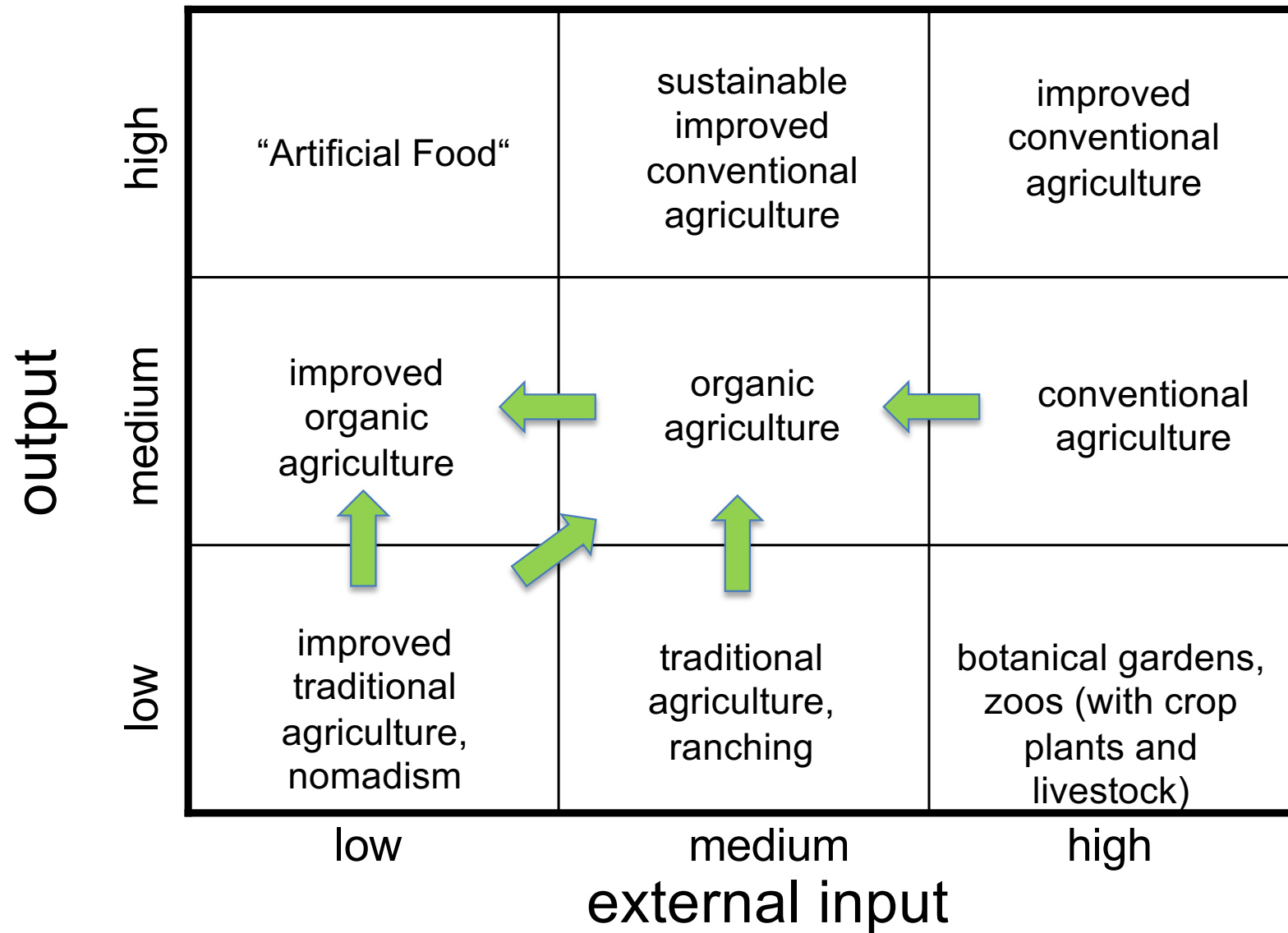


The Commission has set out a comprehensive organic action plan for the European Union. Through it, the Commission will aim to achieve the European Green Deal target of 25% of agricultural land under organic farming by 2030.



Organic 3.0





Organic farming – a researchers perspective

behind

beside

in front

... farmers

Treutflon, Germany
Nov. 2021



International Society of Organic Agriculture Research
www.isofar.org

- Networking the global organic scientists
- Making organic research results communicated
- Networking with the Organic movement
- Creating capacities for research activities

Conventional can learn from Organic

For example:



Nutrient cycles



Crop rotation & mix crops



Improve animal welfare

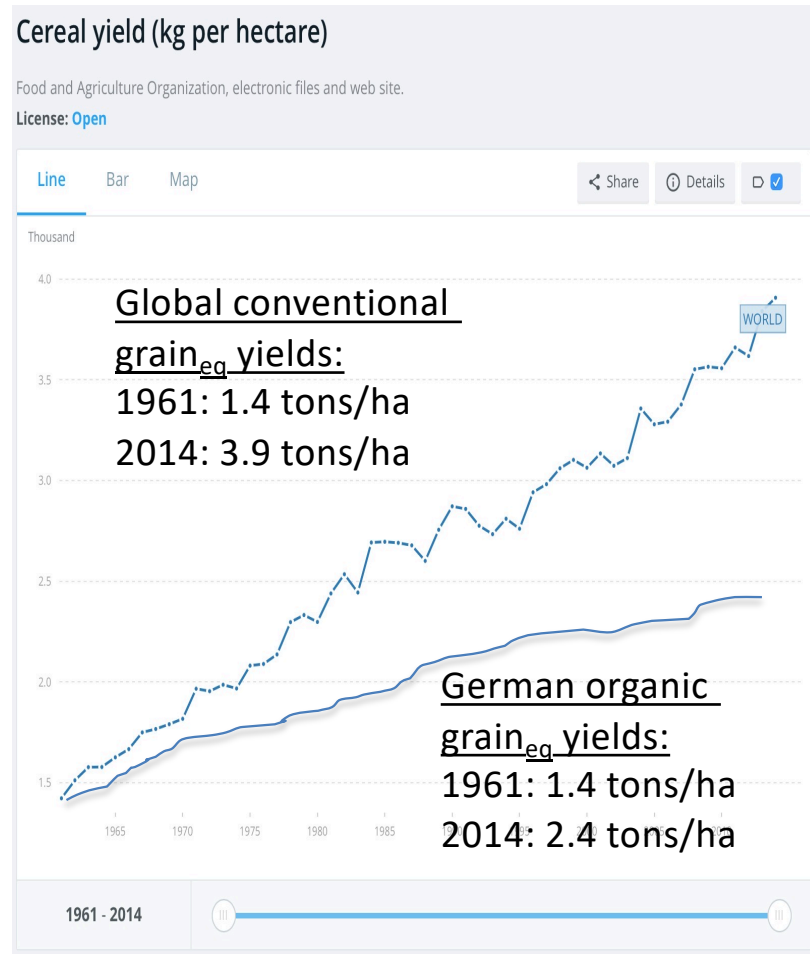


Avoiding pesticides with machines and knowledge

Learn from Organics: what does that mean?

- Farm as an “organism”
(System-approach)
- Crop rotation (risk reduction,
agro-ecology)
- Soil fertility with organic matter
- Healthy farmer seeds
- Mechanical and manual weeding
- Systemic and biological pest control
- Livestock and crop integration
- Protecting water, climate and
biodiversity
- Integrity and traceability from
production to consumption.
- Premium markets and prices
(export option to launch organic
in local markets)

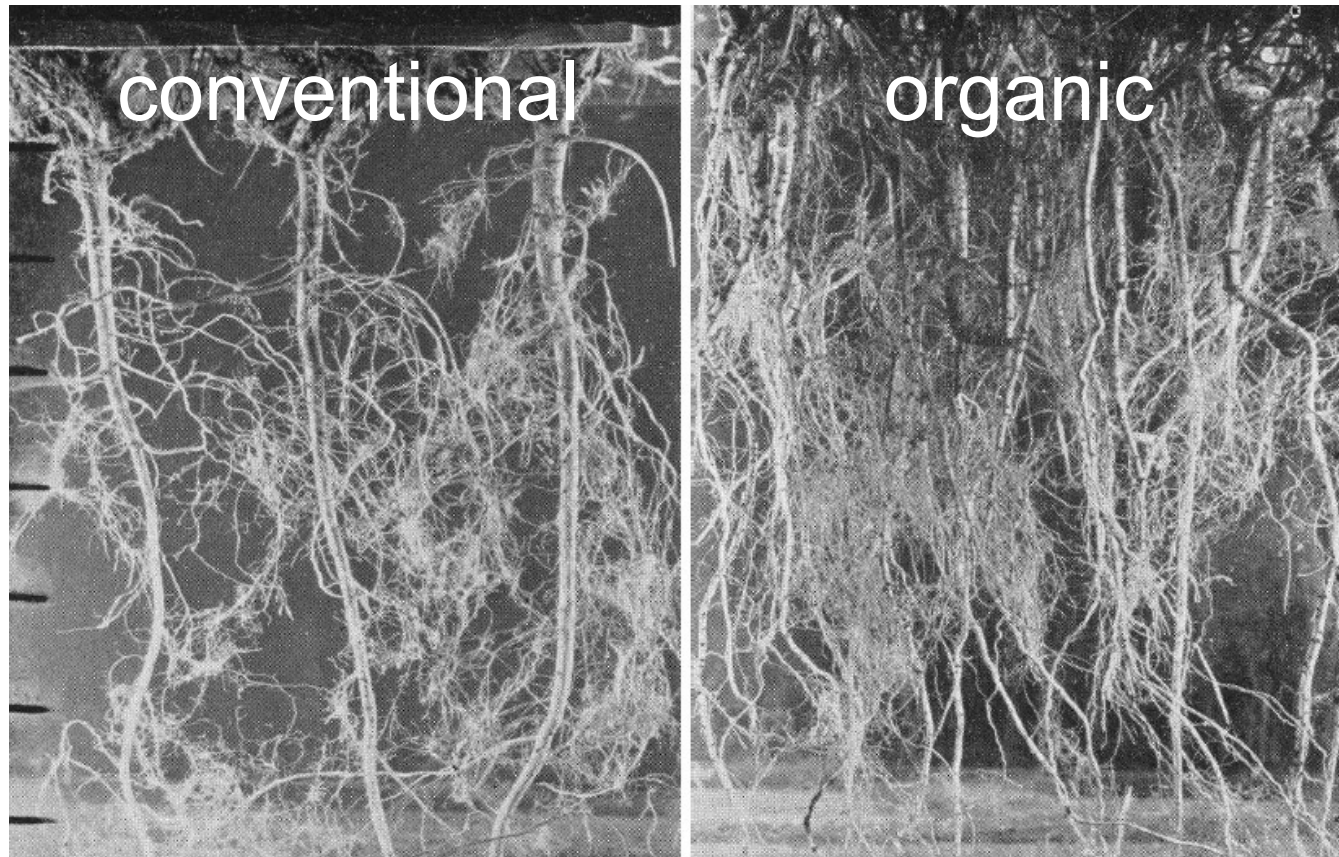
Organic can learn from Conventional




OA and non-OA reseach

- OA yields and qualities are lower than non-OA:
 - OA goals and standards have restrictions to ensure ecological sustainability.
 - Markets are not as much developed as non-OA: losses and costs
- OA does re-invent research methodologies and concepts:
 - System research versus isolated disciplinary approaches
 - Working with practice and find solutions together


C sequestration in the soil (CO₂ sink)




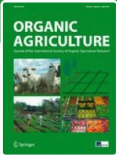
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ISO FAR-International Organic Expo 2015 in Korea



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Research

