ISEKI-FOOD ASSOCIATION

Politécnico de Coimbra

Pact for Skills

European Qualifications & Competences for the Vegan Food Industry

621581-EPP-1-2020-1-PT-EPPKA2-SSA

Rui Costa

16 Dec 2022

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EUROPEAN QUALIFICATIONS & COMPETENCES FOR THE VEGAN FOOD INDUSTRY

Co-funded by the Erasmus+ Programme of the European Union

Partnership

1 Ministry

1 Qualifications agency

2 University applied sciences

3 Universities

1 Sec. educ – university

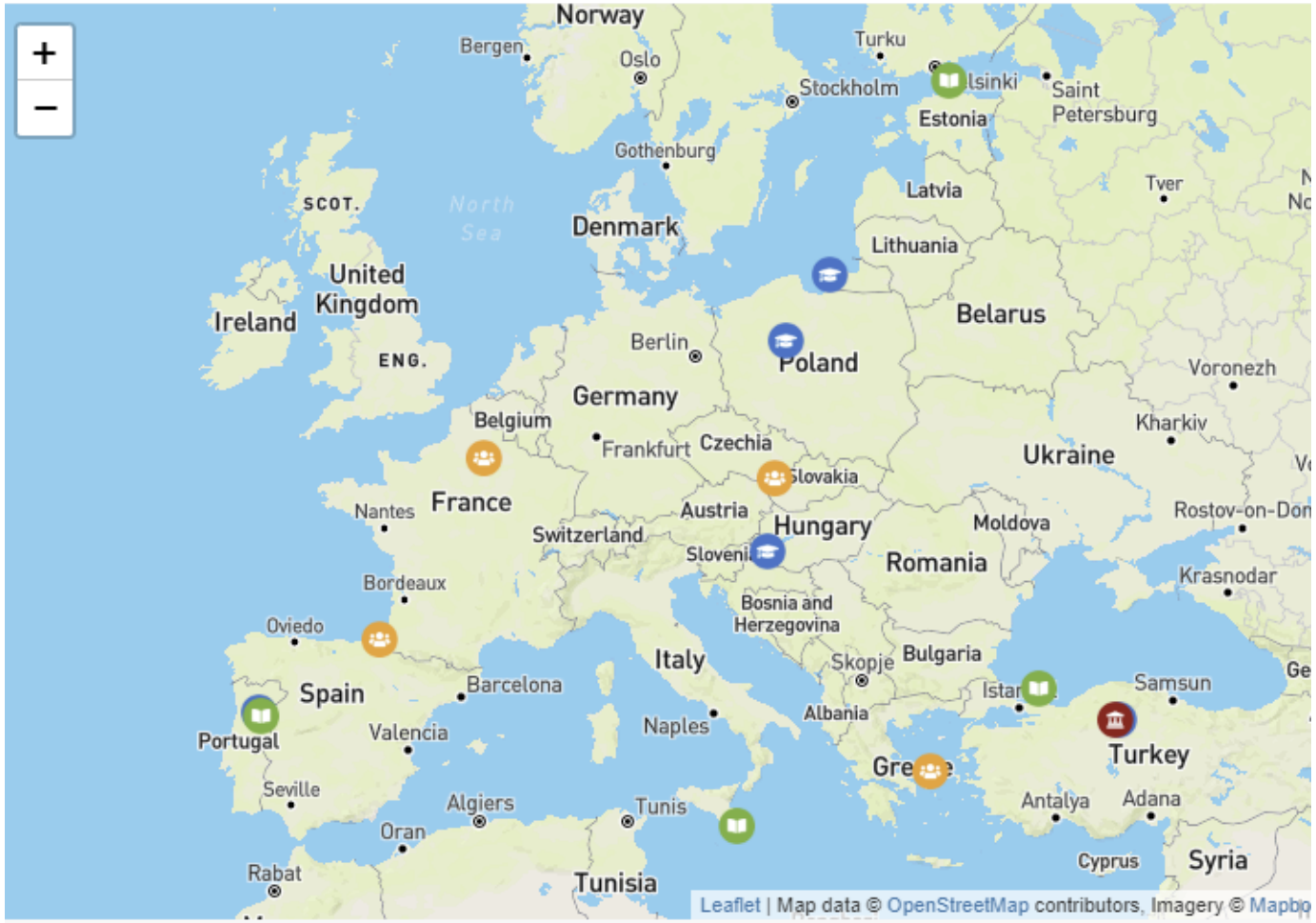
1 Secondary education school

1 Training organization

2 Industry federations

2 Associations of professionals

11 countries



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ANKARA ÜNİVERSİTESİ 1946

ESTONIAN QUALIFICATIONS AUTHORITY Kutsekoda

etpsic Escola Tecnològica e Professional de Sicó

faculty of food technology and biotechnology University of Zagreb

POP CROP

ACTIA

TÜRKİYE GIDA VE İÇECEK SANAYİİ DERNEKLERİ FEDERASYONU
FEDERATION OF FOOD & DRINK INDUSTRY ASSOCIATIONS OF TURKEY

POLSKIE TOWARZYSTWO TECHNOLOGÓW ŻYWNOŚCI

ΣΔBT

Deusto University of Deusto

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THIS PRESENTATION

01 **Driving forces for change of the training of food industry professionals**

02 **EQVEGAN trainings**

03 **EQVEGAN certification and work-based learning**

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Driving forces for change of the training of food industry professionals

- Plant based
- Automation
- Sustainability
- Soft skills
- Work-based learning
- Mobility/valorization of professionals

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Plant based

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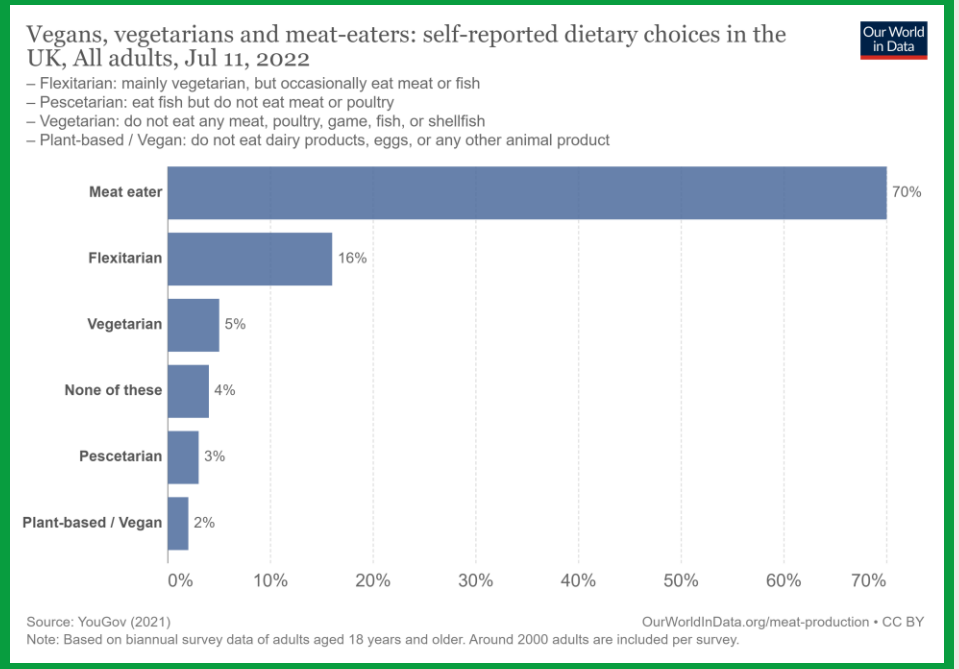
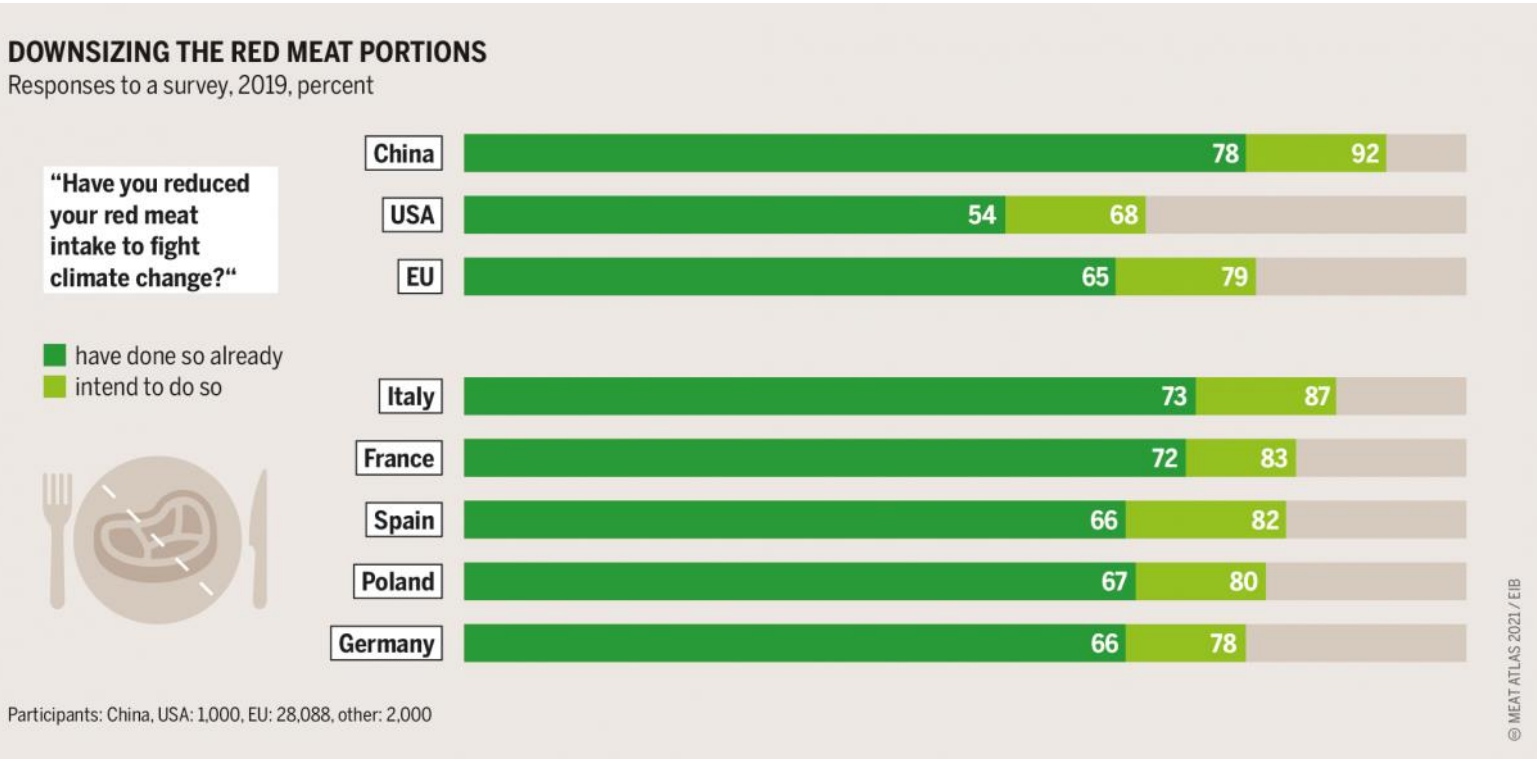
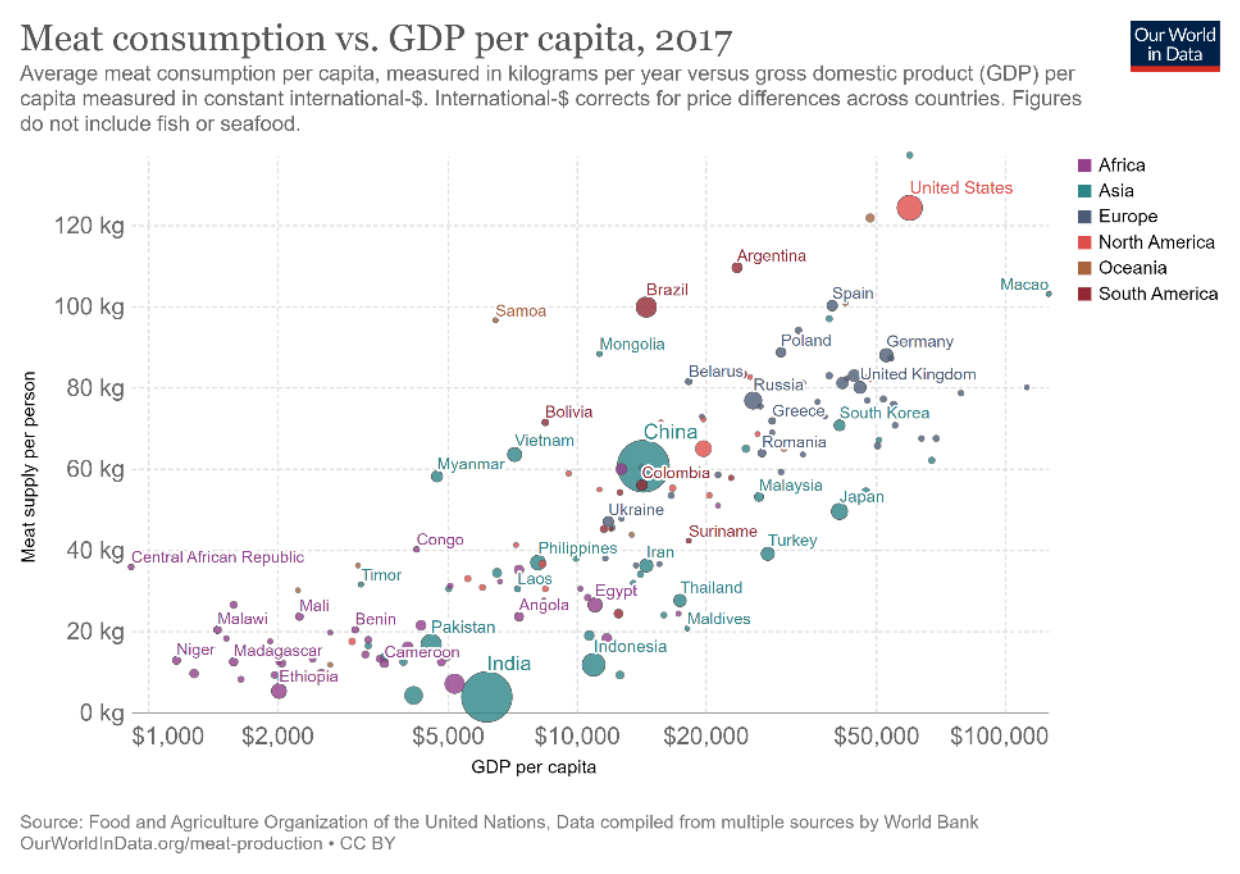
Plant based





https://eu.boell.org/en/2021/09/07/active-state-political-economy-transforming-meat-system

Meat consumption



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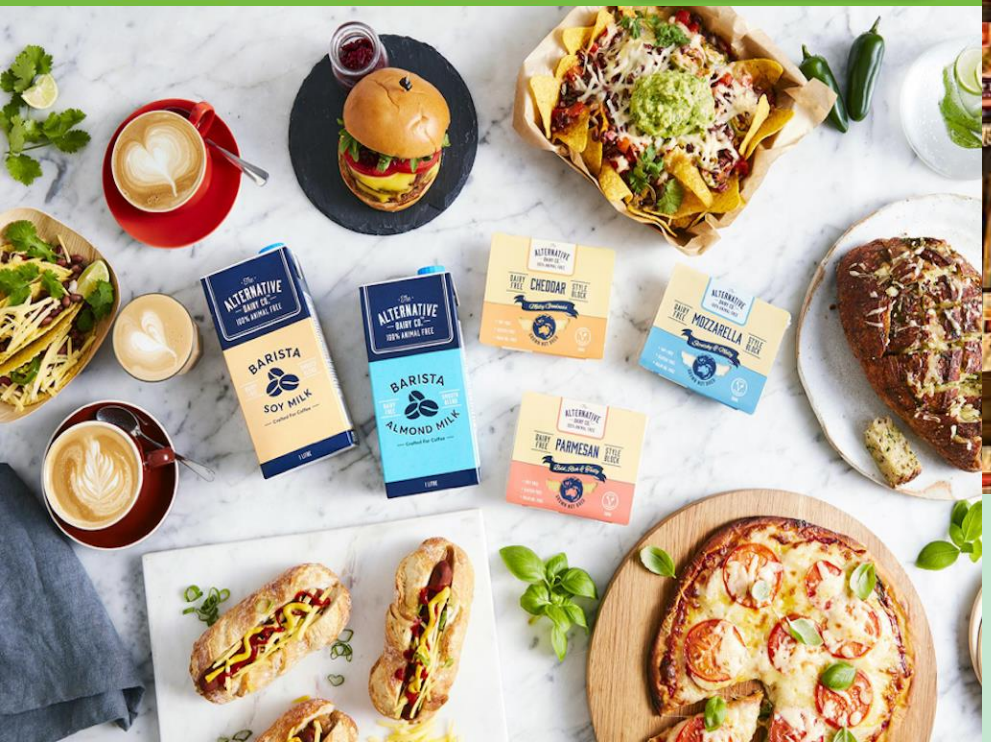

https://www.greenqueen.com.hk/10-stats-that-prove-that-plant-based-is-the-future-of-food/

Plant based processing

Technology of…

Meat analogues
Fish analogues
Dairy analogues
Egg analogues
Vegetable drinks
Mycoprotein
Seaweeds

Nutrition (diets)

Food safety issues

Food product development insights (trends, shelf life, law)

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Sustainability

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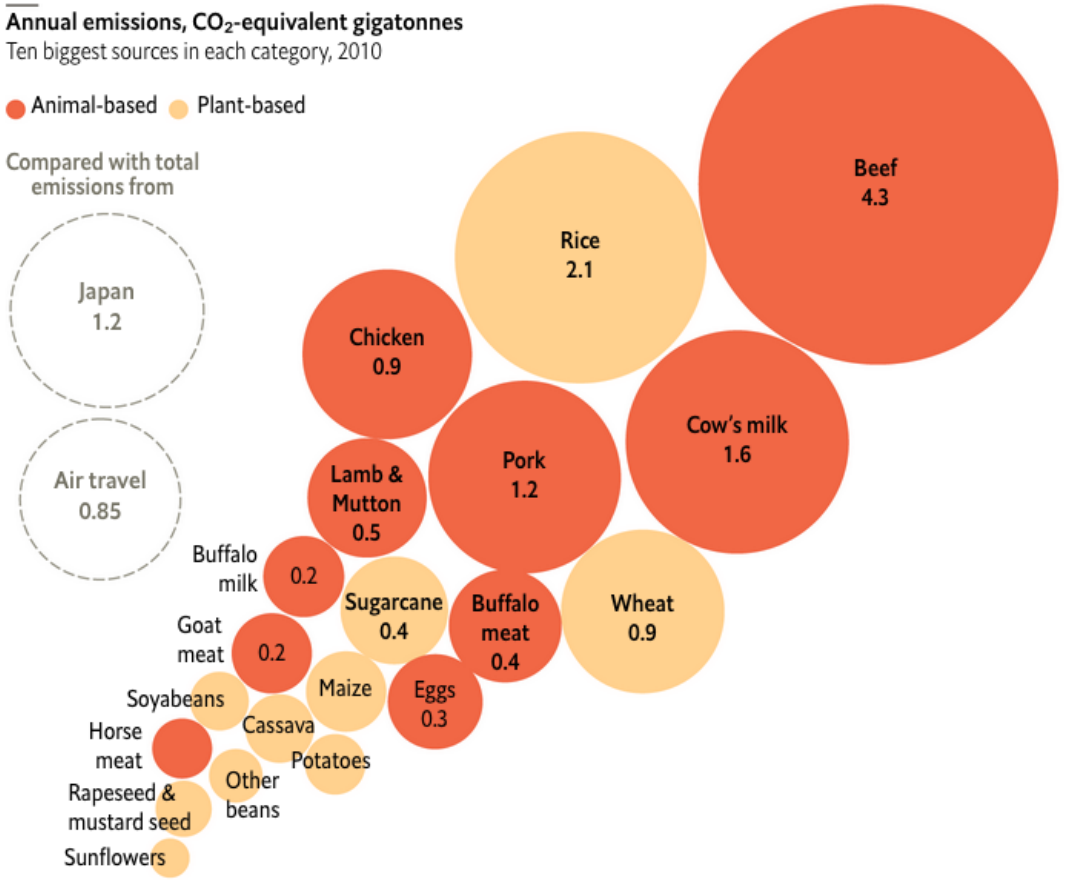
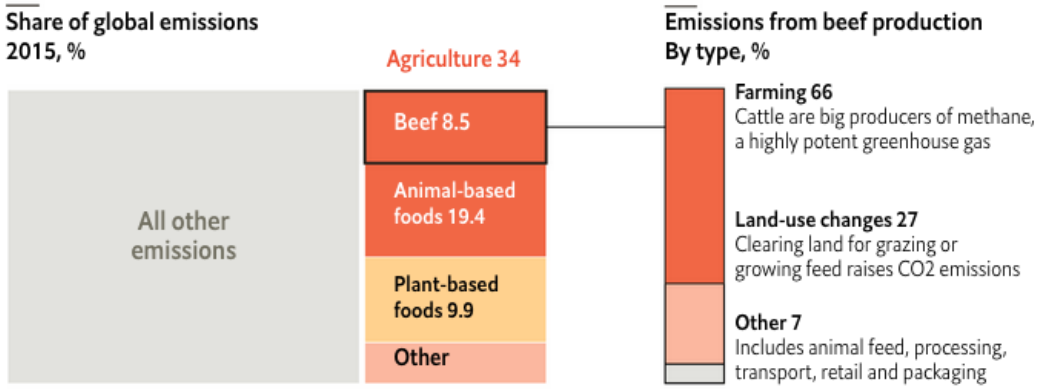
The Economist





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Climate change

GoodSignal: Changing The Climate: The Role of Alternative Proteins

"Global temperatures have risen by 1.1°C as compared to 1850 levels

UN Environment Programme (UNEP) just a week before COP27 stated that there were no longer any viable pathways available to achieve the 1.5°C threshold by 2030.

To meet the 1.5°C threshold, a 44% reduction in current emissions[6] will be needed to achieve the targets – a herculean task. Our food system, which emits a third of global emissions, will play a crucial role. Animal agriculture amounts to a significant component at 14.5% of total global emissions.

Plant-based meat currently commands 1.4% of the conventional meat market.[8] Experts predict alternative proteins will command between 7% to 14% of the conventional animal agriculture market share by 2030 (2% of emissions).[9]"

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Green skills

- Energy/water/waste critical points
- Food waste – targeting consumers
- Waste management
- Food by-products
- Circular economy
- Green economy
- Environmental footprints

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Automation

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AAA advanced skill clusters

Digital delivery	Data Science	Data engineering	Automation & robotics
• Web development • User interface design • Data visualization • Automated testing technics • Application programming interface	• Mathematical modeling • Big data analytics • AI and machine learning • Web analytics • Simulation	• Data wrangling • Cloud computing • Cloud security architecture • Data mining • Data techniques	• Robotics • Automated testing • Automation • Computer-aided manufacturing • Industrial automation

https://www2.deloitte.com/us/en/insights/industry/retail-distribution/digital-skills-food-industry.html (2019)

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AAA advanced skill clusters

Automation & robotics

- Robotics
- Automated testing
- Automation
- Computer-aided manufacturing
- Industrial automation

https://www2.deloitte.com/us/en/insights/industry/retail-distribution/digital-skills-food-industry.html (2019)

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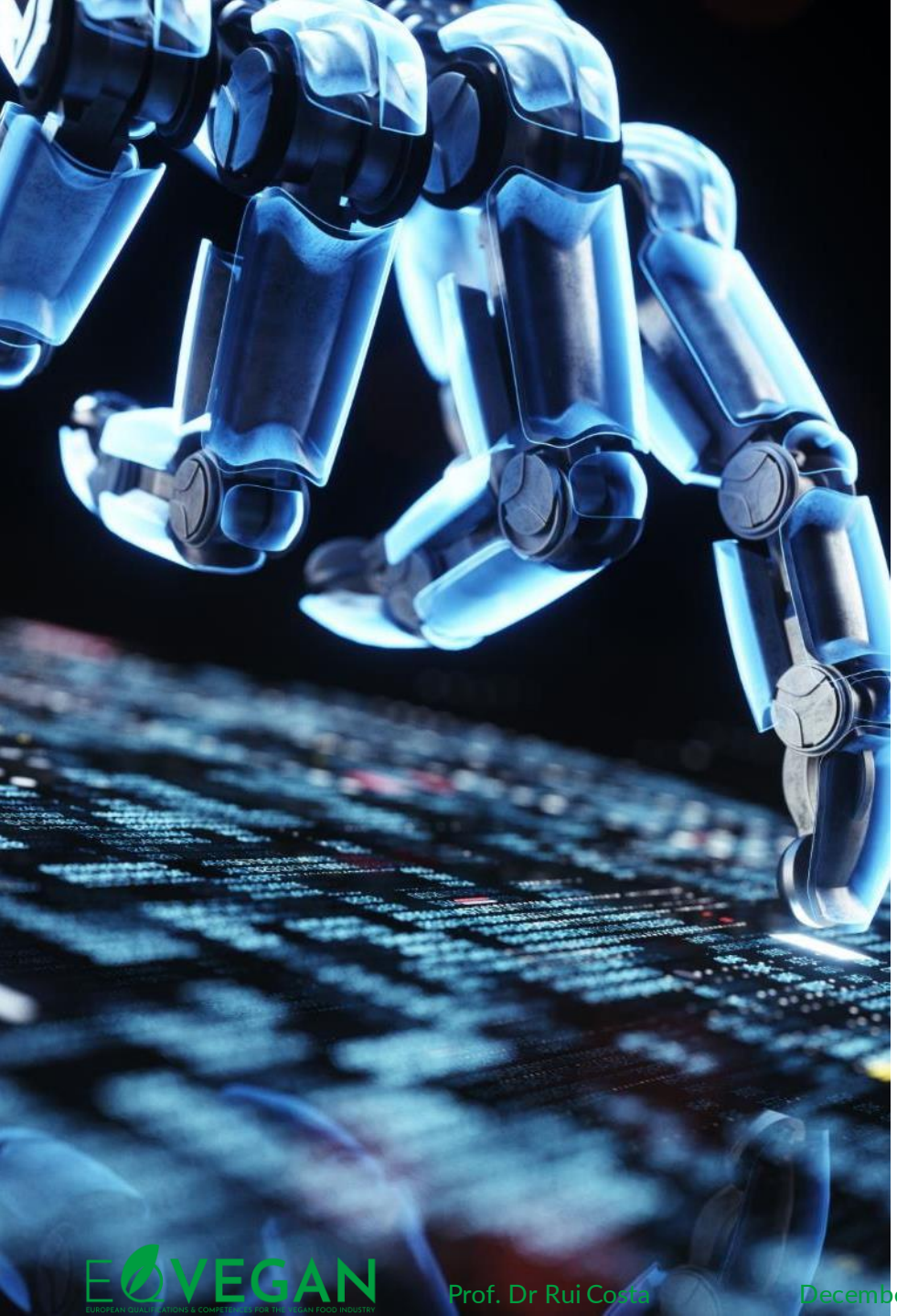

Digitalization and automatization skills

ICT

operate with basic ICT, working with human-machine interface; use different software, like traceability, IoT)

Automation

operate effective cooperation with automation specialists, basic understanding of automated systems, identify common sensors in the automation of components and use cases for sensors, etc

Robotics

identify various types of robots, operate fault diagnostic of robots, select devices for the automatic handling of products, etc.

Electives

additive manufacturing technologies, machine vision, artificial intelligence and machine learning

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Soft skills

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Consumer Trends 2022

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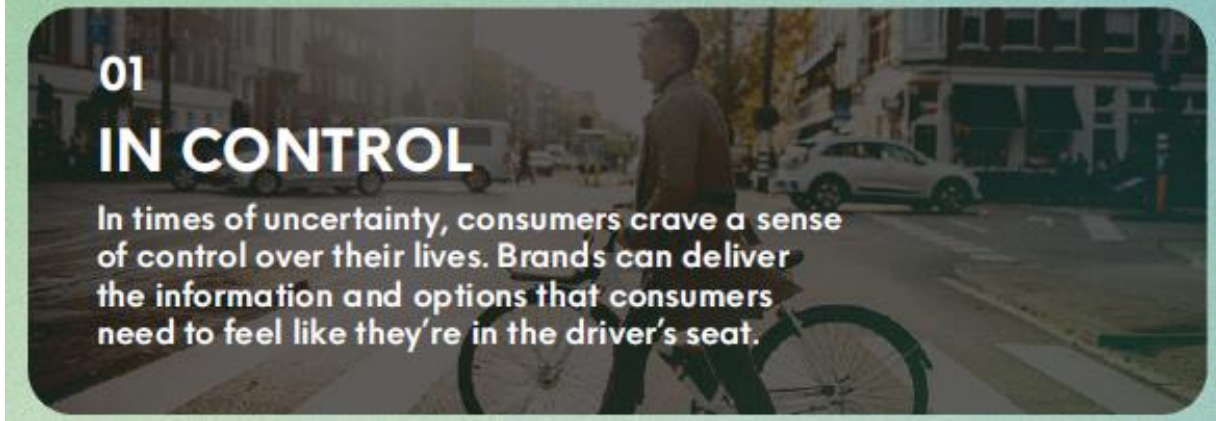
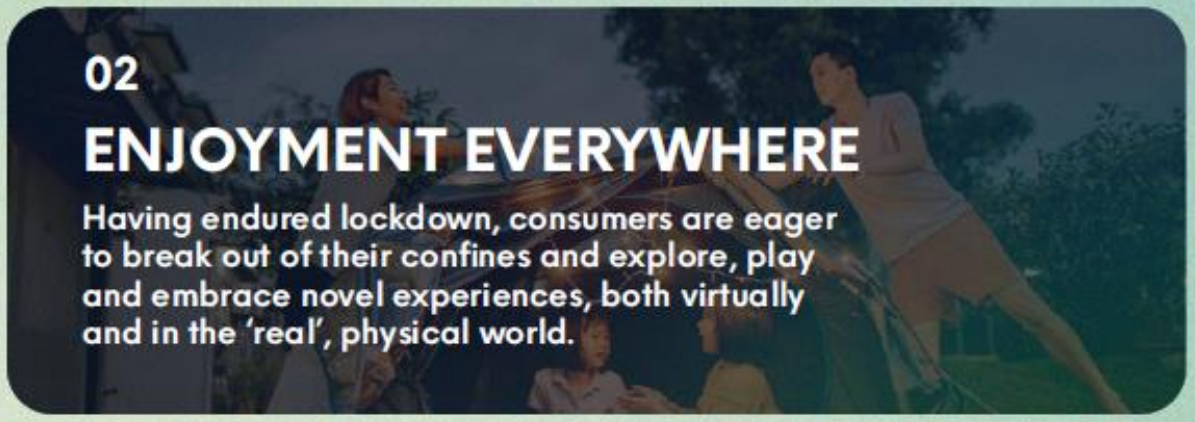


01 IN CONTROL

In times of uncertainty, consumers crave a sense of control over their lives. Brands can deliver the information and options that consumers need to feel like they're in the driver's seat.

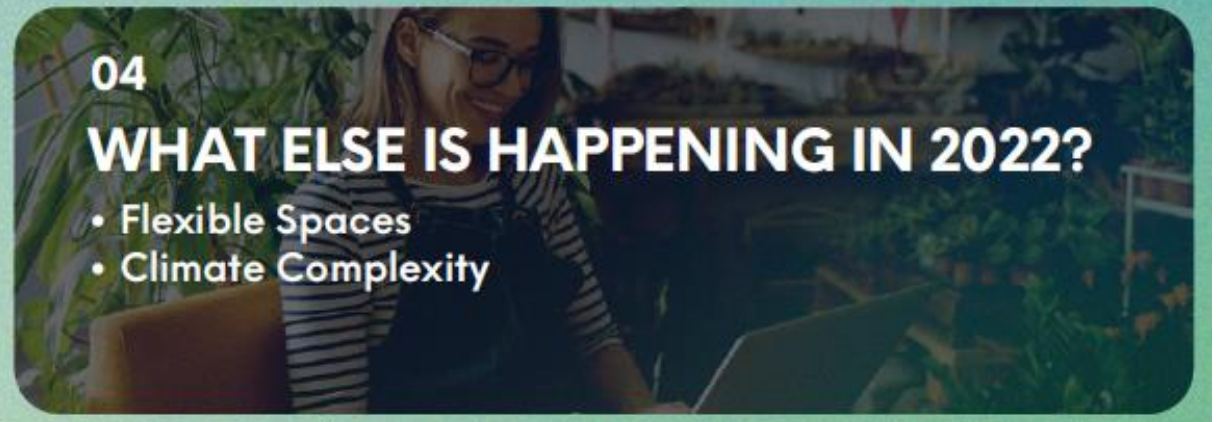
03 ETHICS CHECK

While many brands have made their voices heard on controversial topics, consumers want to see measurable progress against their goals.



02 ENJOYMENT EVERYWHERE

Having endured lockdown, consumers are eager to break out of their confines and explore, play and embrace novel experiences, both virtually and in the 'real', physical world.

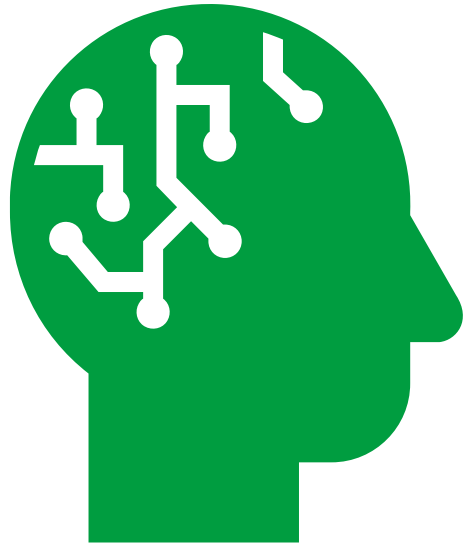


04 WHAT ELSE IS HAPPENING IN 2022?

- Flexible Spaces
- Climate Complexity

Most relevant soft skills for the food industry

Domains	Skills
Critical and innovative thinking	Problem solving Critical thinking
Interpersonal skills	Active listening
	Optional knowledge (Project management) Planning and organization
	Leadership Team building management Team working
Intrapersonal skills	Self-management (time, stress, organization)
	Self-awareness
Other	Ethical understanding



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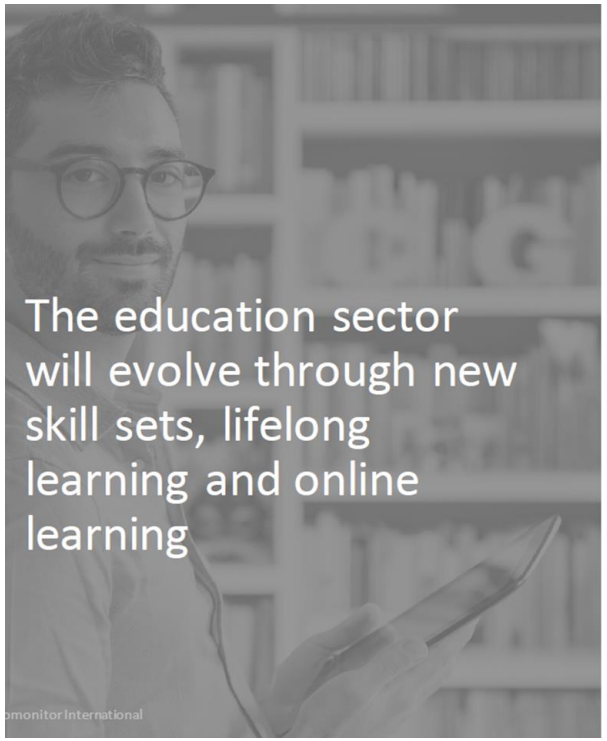
Training aligned with education trends



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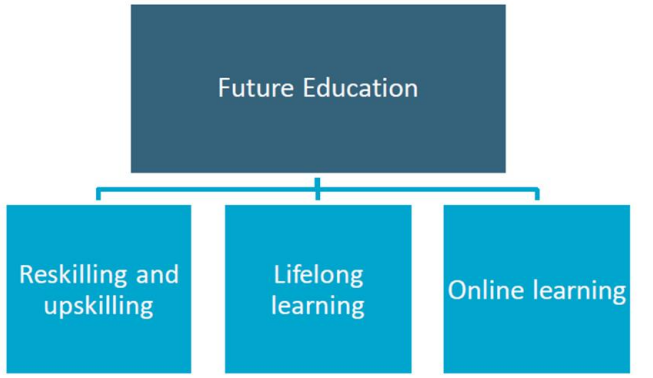

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Training needs

01 **Plant based processing**

02 **Green skills**

03 **Digital and automatization skills**

04 **Soft skills**

Occupations in the food industry

Food operator	Food technician	Food technologist/engineer
• EQF 4 (vocational secondary education)	• EQF 5 (short cycle)	• EQF 6 (bachelor) • EQF 7 (master)

EQVEGAN certification and WBL

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certification and WBL

Work-based learning database

Guidelines for work-based learning and recognition of prior learning

Occupational profiles of food professionals, ready to be incorporated in ESCO

Certification of job profiles

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europass
European Union

English

Home > What are digital credentials

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What are Digital Credentials

European Digital Credentials describe a learning achievement. They can describe activities, assessments, and professional entitlements as well as qualifications.

The **European Commission** is developing the European Digital Credentials Infrastructure (EDCI) to support efficiency and security in how credentials such as qualifications and other learning achievements can be recognised across Europe.

Work is ongoing on the development of the European Digital Credentials Infrastructure (EDCI). The EDCI will support authentication services for any digital documents or representations of information on skills and qualifications as outlined in **Article 4 (6) of the Europass Decision**.

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Sector Skills Alliance
EQVEGAN is a Sector Skills Alliance to prepare innovative trainings to sustain the quick change occurring in the food industry towards the production of vegan food, sustainability, and industry 4.0. Be a part of it!
Know More

FOOD SKILLS

Home Trainings Learn at the Workplace Stakeholders Certification

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ISEKI Food Association

EQVEGAN.EU

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Thank you for your attention!

ERASMUS+ Sector Skills Alliance EQVEGAN
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