

Tryptolemos Foundation is a private entity that promotes the sustainable development of Food Systems that is defined in 4 axes or interrelated macro areas: economy, policies and regulations, availability and accessibility, knowledge, behaviour and culture, with the conviction that there can be no sustainable and socially balanced development if a balance is not maintained between all of them. The objective is to contribute with its actions to adequate and sustainable food for the entire population at affordable prices, which citizens can trust, and to the dignity of the sector, in accordance with knowledge, proven science and technology. The motor of the system is related responsible business activity of all types and sizes. It is open to any new addition that shares its goals.

• International Conference on Sustainability in Food Systems



The act coincided with the start of the Spanish presidency of the EU on July 1, during which food systems will play a very important role on the agendas. Science and technology and training play an important role. The General Secretary for Research of the Government of Spain, the Secretary General for Agriculture and Food, the President of the CSIC, the President of the Tryptolemos Foundation, the Rector of the UNED, a representative of the European Commission and renowned researchers in their respective areas were invited to participated. During

the event, the Tryptolemos Foundation's model for the quantification of food systems, was presented and current issues were discussed such as, new genomic editing techniques, how much food is not wasted thanks to technology?, water and climate change or training and food systems. The importance of approaching the challenges from a vision of a system based on science, technology and training was underlined, and where the motor is responsible business activity. The day had a large influx of participants both in person and online.

[Event recording](#)

[Galery](#)

[Programm](#)

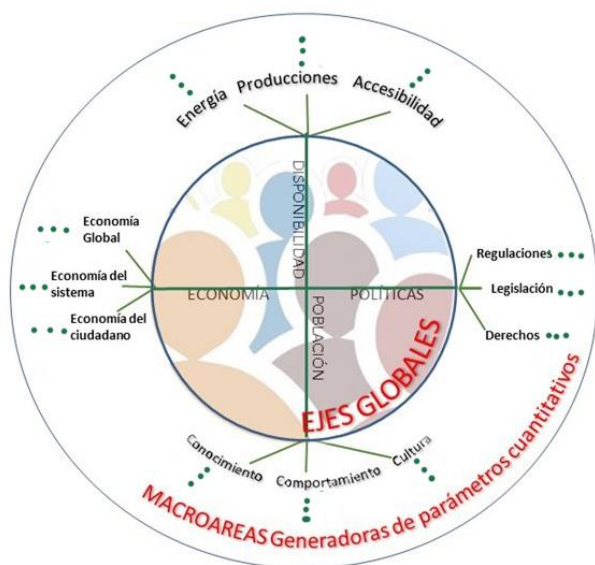


Eloísa del Pino, CSIC President



Raquel Yotti, General secretary for research

- **Triptolemos Foundation presents its quantitative model of food systems**



The Triptolemos Foundation and the UNESCO-UNED-TRIPTOLEMOS Chair "Science and Innovation for Sustainable Development: Global Food Production" have worked intensively on an original vision of the food system. A mathematical model has been developed that allows comparing, quantifying and making forecasts and predictions from a food system approach in different geographical areas. At the conference held at the CSIC on June 8, the team made up of Ricardo Mairal, rector of the UNED, Eusebi Jarauta, coordinator at the UNESCO Chair, Ramon Clotet, a founding member of Triptolemos, Yvonne Colomer, executive director, and José Pío Beltrán, president of Triptolemos Foundation, presented the model. Triptolemos Foundation bases its model of food systems on four interrelated axes: 1) availability and accessibility of food (D), 2) economy (E), 3) legislation and

regulations (P) and 4) knowledge, behavior and culture (S).) (Colomer, Y. et al, 2016) and works with a multidisciplinary approach (mathematicians, philosophers, sociologists, biologists, journalists, economists, agronomists...), based on indicators with statistical data from reliable sources. The four axes are aligned with the 17 Sustainable Development Goals (SDGs).

Quantifying and modelling food systems is not an easy task. The model makes it possible to define actions to correct deficiencies or imbalances and maintain the elements that work satisfactorily, while the values

obtained from the geographical environment allow the development of more globally coordinated strategic actions on food policies. The graph shows the French value clearly superior to the average. Spain presents a positive average, Italy presents a negative average and Greece shows a higher percentage of negative values of the position ratio, ITRI[©]: Triptolemos Index. For more information on the applicability of the model to the quantitative and comparative calculation of food systems in specific geographical areas, you can contact triptolemos@triptolemos.org



Graph of the global ITRI (Triptolemos Index) for the set of four countries analyzed: France, Spain, Italy and Greece.

	ITRI inicial	ITRI actual	ITRI futuro	ITRI global	Porcentaje valores negativos de los RP en el ITRI global
ESPAÑA	0.036	0.076	0.083	0.065	50.00%
FRANCIA	0.171	0.183	0.164	0.172	8.33%
GRECIA	-0.215	-0.204	-0.158	-0.192	66.67%
ITALIA	-0.022	-0.050	-0.089	-0.054	50.00%

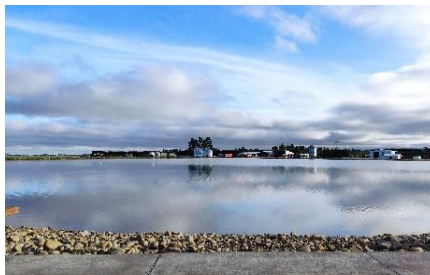
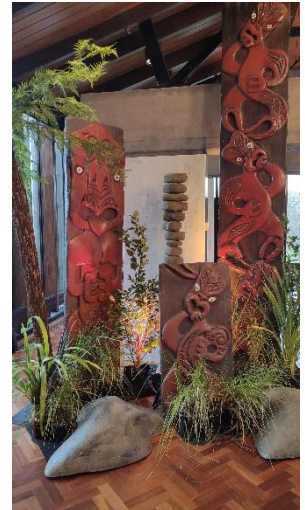
Table of the global ITRI (Triptolemos Index) for all the four countries analyzed (France, Spain, Italy and Greece) based on the comparative analysis of food systems by geographical area.

- **Triptolemos Foundation participated in the IFAMA 2023 International Congress held in New Zealand**



IFAMA (International Food Agribusiness Management Association) is an international organization that brings together the world's leading academics and students, professionals of the industry and NGOs, and policy makers, with the aim of improving strategic focus, transparency, sustainability and response capacity of the food system, emphasizing agribusiness. This 33rd world conference covered topics ranging from the

beginning of the supply chain to finished products, through regenerative agriculture, innovation and the future of agriculture, through proposals and valuable networking opportunities, that inspire the agents of change through out the industry, so that specific, positive action can be taken. The congress was completed with a visit to various agricultural production and processing areas, including South Pacific Seeds (the world's leading seed company) and Fonterra (one of the largest dairy companies in the world). At the last meeting of the Board of Trustees, it was announced that the Triptolemos Foundation had been invited to participate in the IFAMA structure. This participation has materialized with the incorporation of Yvonne Colomer to the IFAMA Management Board, made up of representatives from different countries.



- **Alimentaria Foodtech Barcelona 2023**



One year more Triptolemos Foundation will be present at ALIMENTARIA FOODTECH from September 26 to 29, 2023. Alimentaria FoodTech is the fair for machinery, technology and ingredients that integrates the value chain of production, transformation and preservation of the food and beverage industry. Triptolemos is part of the scientific committee of the show. During the fair, Triptolemos will present its project Triptolemos Food TechTransfer. Available technologies and

innovations developed by the research groups of the member institutions of Triptolemos Foundation (Technology readiness levels 6-7) will be presented. The project opens a window for professionals and researchers to discover new lines of innovation in the food industry. Triptolemos will also organize a round table around the "concept of ultra-processed food" on September 27 at 12 noon. You will find us in Barcelona Gran Vía, Hall 2, Level 0, Lane E, Stand 469.

- **IFAMA 2023 Students Case competition in New Zealand**



Since 2005, IFAMA has hosted the only International Students Case Competition for students who start their career in the service of the agribusiness sector. It offers students and professionals a global stage to demonstrate their problem-solving and analytical skills. In this edition, talented young people had the opportunity to present their innovative ideas on how to improve the livelihood of small farmers. 21 teams from various universities around the world spent hours working together on the proposed case.



Veerle Mommaerts, Senior Manager Partnerships – Global Food Value Chain at Bayer, was responsible for announcing the 3 winning groups, which had to go through various juries to reach the finals. Triptolemos participated in one of the juries. In this edition the contest was sponsored by Bayer. During the congress gala dinner, the Fellow Award was awarded to Ronald Guendel, Global Head Partnerships-Food Value Chain at Bayer Crop Science, in recognition of his outstanding management practices in the food and agribusiness sector, research and scholarships, teaching and academic administration, and his service to IFAMA.

- **Renewal of the UNESCO Chair UNED-TRIPTOLEMOS Science and Innovation for sustainable development: Global Food Production and Food Security**



Science and Innovation
for Sustainable
Development: Global Food
Production and Food Safety



UNESCO is a specialized agency of the United Nations for Education, Science and Culture. It was created on November 16, 1945 and its mission is to contribute to the consolidation of peace, the eradication of poverty, sustainable development and intercultural dialogue through education, science, culture, communication and information. UNESCO programmes contribute to the achievement of the sustainable development

goals defined in Agenda 2030, approved by the United Nations General Assembly in 2015. UNESCO works to ensure that all children and adults have access to quality education and live as global citizens. UNESCO strengthens the links between nations by promoting cultural heritage and the equality of all cultures.

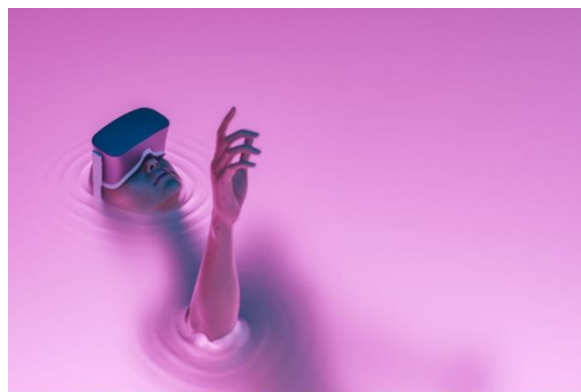


Since 2014 Triptolemos has a UNESCO Chair with the UNED. UNESCO has approved the activities of the Chair and renewed its confidence, whose mission and objectives are aligned with those established in its Constitution, especially its role in promoting international collaboration through education, science and culture, including inter-university cooperation for the promotion of intellectual and moral solidarity. The Chair will promote an integrated system of research, teaching and training, as well as participation and communication in society.

- **Lost in the metaverse? How digital anthropology can help leaders navigate uncertain futures**

By 2030, 700 million people will inhabit the metaverse. These digital worlds offer endless possibilities for human interaction and social transformation, but they also carry inherent threats. Without a deep understanding of the cultures and dynamics at play, we risk losing our ethical orientation. To fully understand the human experience in the metaverse, we must embrace new fields of the social sciences, such as digital anthropology.

The metaverse promises to blend our physical and virtual lives seamlessly, as the digital world moves toward an immersive and interactive future where humans and artificial intelligence (AI) coexist (as envisioned in ChatGPT). The challenge is to create virtual worlds that are truly inclusive and ethical. Read the article originally published in the World Economic Forum. Article written by Gabriela Ramos, Assistant Director-General for Social and Human Sciences of UNESCO and James Ingram, CEO of the Liiv Group, Founder of the Liiv Center for Innovation in Digital Anthropology.



- **Barcelona hosted the First International Summit "Global.es Food Systems"**



Barcelona was the venue for the first edition of the "Sistemas Alimentarios Global.es" Summit on March 22 and 23, 2023 organized by the **Triptolemos Foundation, the INCYDE Foundation of the Chambers of Commerce and the Mediterranean Diet Foundation**. The summit that coincided with the Spanish presidency of the EU, took place in the Palacio de Congresos de Montjuïc. It had the participation of more than 80 national and international experts from a key sector for the European and international economy such as agri-food. Diplomats, businessmen, academics and political leaders from 25 countries who participated in the summit. The Minister of Agriculture of the Government of Spain, Luís Planas, the Commissioner for Agriculture of the European Union, Janusz Wojciechowski, José Luis Bonet, president of the Chamber of Commerce and José Pío Beltrán, president of Triptolemos, among other prominent national and international personalities, spoke. The summit was a success in terms of participation, with more than 800 in-person and online attendees.



Luí Planas, Ministro de Agricultura, Pesca y Alimentación



Janusz Wojciechowski, Comisario Europeo de Agricultura

- **Initiative “Peace for Food. Opportunities to promote more sustainable, productive and resilient food systems” (OECD Istanbul)**



The Triptolemos Foundation has participated as a panelist in the international Peace for Food event held in Istanbul and organized by the OECD. The Peace for Food initiative aims to draw international attention to global food markets by emphasizing business engagement and their commitment to the OECD's proactive work on sustainability and innovation in agriculture. The speakers discussed new opportunities to promote more sustainable,

productive and resilient food systems, focusing on current issues such as sustainable agriculture, agricultural productivity and value chains of inclusive agriculture, food security and food price inflation. Triptolemos Foundation contributed with its vision of sustainable food systems to face the food challenges we have, emphasizing the fact that we must act in an interdisciplinary and transversal way so that the system reaches equilibrium and not only in economic or environmental approaches and counting on the commitment of the whole society as the key.



- **Triptolemos Foundation meet the rector of the University of Barcelona**



Triptolemos Foundation, represented by Jordi Valls, vice president of institutional relations of the Foundation and Yvonne Colomer, executive director, had a meeting with the rector of the University of Barcelona, Joan Guardia to strengthen their strategies on the sustainability of food systems. The University is classified in the 11% of the best universities in the world and obtains the 70th position in Europe according to the World University Rankings. In addition, it is the state leader in three ranking indicators:

sustainability, international research networks and academic reputation. Universitat de Barcelona is one of the founding members of the Triptolemos Foundation.

- **Project "Interviews on the Food System" fruit of the collaboration agreement signed between Fundación Triptolemos and the Association of Agrifood Journalists of Spain (APAE)**

After the signing of the collaboration agreement between APAE and Triptolemos Foundation, as a stable framework of actions between both institutions, which contribute to energize and optimize the sustainability of food systems, the project "Interviews on the Food System" was launched. [In this link you can find the interviews see here.](#) The interviewees explain the contribution of the institution or company that they represent to contribute to a sustainable development of food systems. Latest videos:



- **The University of Almería and Biorizon found the Regenerative Agriculture Chair in 4.0**



With the title of 'Regenerative Agriculture in 4.0', the Chair created by Biorizon Biotech and the University of Almería was born, aimed at promoting dissemination, research and transfer activities, in the field of microalgae and other microbial and biological solutions for regenerative agriculture in a digital environment. This new chair will promote the development of joint research between Biorizon Biotech and the University of Almería, in the field of microalgae biotechnology and the automation and digitization of their production processes, thus favouring the

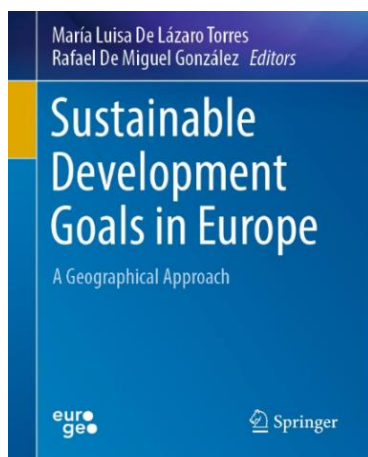
transfer of knowledge and social culture towards the development of sustainable agricultural practices. The University of Almería is a member of the Triptolemos Foundation.

- **Global Soil Partnership FAO - 11th Plenary Assembly**

From July 12-14, 2023, the Plenary Assembly of the Global Soil Partnership (GSP), which was the most important meeting of the alliance where crucial decisions related to the global soil agenda are made, took place. It is the main platform for FAO members and GSP partners to meet and exchange knowledge and experience in the field of sustainable soil management. For this year's plenary, a special event will be held to give a voice to all GSP partners. The event will revolve around the theme: soil and water, highlighting its vital importance in our daily lives. Triptolemos Foundation is a member of the GSP of FAO.

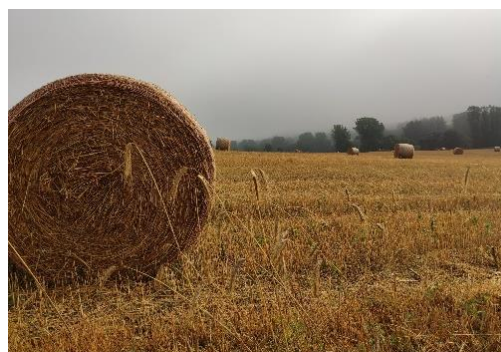


- **Participation in the book Sustainable Development Goals in Europe (Eurogeo Book Series)**



Triptolemos Foundation has participated in the elaboration of the book Sustainable Development Goals in Europe edited by Springer. The book has 17 chapters, one for each Sustainable Development Goal. Fundación Triptolemos has written chapter 2: **SDG 2. End Hunger, Achieve Food Security and Improved Nutrition, and Promote Sustainable Agriculture**. The book has been coordinated by the European Association of Geographers EUROGEO and is part of the new series of books entitled key challenges in geography. This series of books is indexed on the Web of Science™. The European Association of Geographers EUROGEO held its 2021 international conference in Madrid with the title: "Sustainable

development goals for all", and which had more than 180 participants from 35 countries. Fundación Triptolemos was invited to give the inaugural conference "Geography: origin of the complexity of the food system". In the conference, Dr. Yvonne Colomer referred to the influence of geography on the development of the Food System throughout history and focused on the current situation, challenges and future prospects, providing examples of the interrelationships of the Food System and geography, population, eating habits, culture, communications. The initiative for the book was the result of the international conference of the European Association of Geographers EUROGEO.



SDG 2. End Hunger, Achieve Food Security and Improved Nutrition, and Promote Sustainable Agriculture.

- **Mercabarna celebrates a conference on Collective Catering focused on the hospital sector**



Mercabarna is the main fresh food wholesale market in Europe in sales volume. The Foodservice committee of the Mercabarna Food Cluster is the promoter of the event, which has relied on Collective Catering as specialists in the sector, for the organization of the conference. The Mercabarna Food Cluster is an example of how **cooperation between companies** can generate synergies and improve the competitiveness of the food sector, according to Toni Nieto, head of Studies, Clusters and Development at

Mercabarna. The sessions that aim to promote innovation, quality and improve the **relationship between suppliers and customers**. Mercabarna is a member of the Triptolemos Foundation.

- **The One Health Platform and Ecodes join forces to contribute to the transformation of mobility and the protection of the health of people and the planet.**

The One Health Platform and ECODES began a path of collaboration, dialogue and support in individual or joint actions and initiatives. The One Health Platform is a state-wide network that brings together the efforts of



national collegiate organizations, associations, universities, companies and foundations belonging to different fields and sectors. This platform promotes a comprehensive approach to health that integrates three interrelated areas: human health, animal health and the environment. The objective is that public health, medicine, sanitation, veterinary and environmental sciences, together with other disciplines, work together to defend one health. Currently, 146 entities are attached to the platform. Given the importance of food in human health, Fundación Triptolemos has joined the One Health initiative.

- **2nd GHI World Congress on Global Food Safety and Security: Escalating the Transition of the Global Food System for a Sustainable Future**

The 2nd World Congress of the Global Harmonization Initiative (GHI), on Global Food Security and Protection of which Triptolemos Foundation is a member, will be held in Rotterdam, the Netherlands from March 18 to 20, 2024. This international Congress will explore the theme: Intensifying the transition of the world food system towards a sustainable future. It will become clear that there is a pressing need to reforme global food systems that are not fit for their intended purpose of providing food, jobs and economic opportunity. Hunger is on the rise, healthy diets are unaffordable for the world's poorest people, and approximately 30% of food produced is wasted.



- **4th International Legume Society Conference**



The 4th Conference of the International Legume Society will be held in Granada (Spain) from September 19 to 22, 2023. This International Conference aims to stimulate knowledge exchange and interactions between researchers and stakeholders in promoting greater cultivation and use of

grain and forage legumes, as a necessary path towards more sustainable food and feed systems and healthier diets. The conference will cover a wide range of topics.



- **Publication of the Triptolemos report on the impact of the Green Deal with focus on a Sustainable Global Food System in the EffL magazine.**



The legal magazine EffL has published the report coordinated by the Triptolemos Foundation that analyzes the impact of the Green Deal both at the EU and global level. It is a document

for analysis and reflection, with a holistic view of the impact of the Green Deal on food production and the citizen. It is aligned with the vision of the food system of the Triptolemos Foundation, which contributes, as a member of civil society, to the development of a comprehensive food policy in the EU following the opinion of the European Economic and Social Committee. The legal journal EffL aims to deal in a problem-oriented and comparative manner with the effective implementation of European food and feed law in all 25 Member States, as food regulations are increasingly evolving at national and international level. [Download the article.](#)

- **CSIC presentation of 8 Science4Policy 2023 reports**

Eloísa del Pino, president of the CSIC (Higher Council for Scientific Research), inaugurated the presentation of the **8 Science4Policy 2023 reports**, which featured prominent speakers in their different areas. It is a programme that aims to consolidate robust scientific evidence and research carried out in various CSIC centres and institutes around strategic issues such as plastic pollution, sustainable food, drought, super bacteria or forest fires with the intention of influencing the orientation of public policies in crucial sectors. The objective of the initiative is to bring science closer to society, to politicians and in a stable way, not only in emergency situations. **The CSIC is the 7th public research institution in the world and has 121 research institutes.** The CSIC is a member of the Triptolemos Foundation.



Educate and inform the citizen

Triptolemos Foundation is aware that adequate food information is essential for social well-being, and that we live in an environment of growing uncertainties, dubious claims and lax ideologies on social networks. The need to train and make an effort to provide verified information endorsed by science to the citizen is evident, so that they can freely decide their best option. Triptolemos Foundation has several initiatives underway, including an agreement with Nueva Tribuna, a digital newspaper that has a circulation of more than 1,800,000 monthly visitors, of which 1,000,000 are members, and with the publishing group Eumedia. Triptolemos is committed to participating with opinion articles in the section on food, health, responsible consumption and the global food system, among others.

Latest Triptolemos Foundation publications:

- Loss of agricultural land: one more risk of insecurity in the availability of food
- The impact of the European Green Deal Green Deal with a sustainable global food system approach
- The impact of social networks on the eating habits of adolescents
- Report on the classification of foods: the concept of "Ultra processed"
- Frontal labeling: nutritional traffic lights, Nutri-Score and others.
- Food safety and innovative tools with a focus on a Sustainable Global Food System
- Statement of Fundación Triptolemos in defense of science on false news and recommendations in the food field
- Science for sustainable availability and food security in conservation techniques
- Education to create a Sustainable Global Food System

- **University education in the Food System: competitiveness factor**



The food sector is strategic and has an important economic weight. Education is a commitment to the future and it is essential to have good professionals for its development. Access to university education is one of the best predictors of wealth in Western societies. The Triptolemos Foundation for the Development of the Food System draws up the catalogue of university education in the food sector, which classifies the training offer of the main Spanish universities by geographical area into degrees, masters, doctorates and postgraduates. This

interactive map in the link aims to provide the information offered by the Triptolemos Foundation member universities in the specific area of the food system.

University education in the Food Systems: some outstanding courses

- Universitat Politècnica de Catalunya- Barcelona Tech
[Máster en Ciencia y Tecnología de la Sostenibilidad](#)
- Universitat de Lleida:
[Máster en innovación en la industria alimentaria](#)
- Universidad Nacional de Enseñanza a Distancia (UNED):
[Sistema Alimentario Sostenible.](#)
[Agroecología y alimentos ecológicos: efectos en la salud y el medio ambiente.](#)
[Agroalimentación: sustancias tóxicas en los productos agrícolas.](#)
- Universidad Complutense de Madrid (UCM):
[Máster en Nutrición y Dietética Culinaria en Gastronomía](#)
- Universitat Oberta de Catalunya (UOC):
Postgrado Sistemas Alimentarios,
- Universidad Politécnica de Valencia (Erasmus+):
[European master degree in plant health in sustainable cropping systems](#)
- Universidad Rovira i Virgili, Universitat de Lleida, Universitat Politècnica de Catalunya y Universitat de Girona: [Máster interuniversitario en Ingeniería Agronómica](#)

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