

INFORMATIVE BULLETIN



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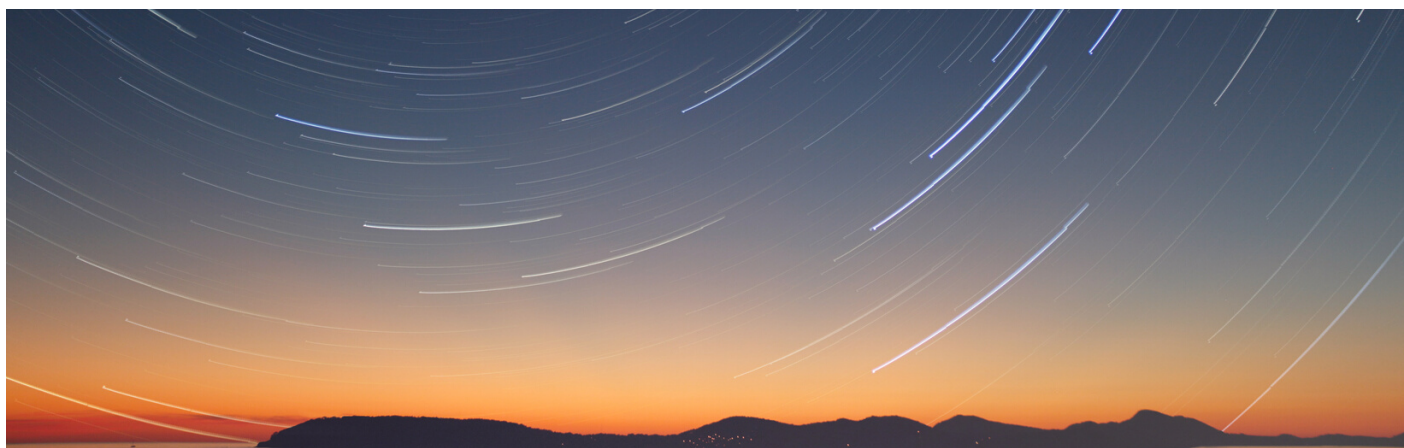
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"PEACE AND
UNITY DEPENDS
ON EVERYONE"

DIGDEEP PROJECT : NEWBORN STARS RELATED TO THE FORMATION OF NEW PLANETS



Protoplanetary discs surround newborn stars in the galaxy. EU project DIGDEEP, thanks to a cutting-edge instrument, discovered that these discs expel matter through winds, potentially key to planets remaining in the zone where habitation is possible.

Roughly one new star forms per year in our galaxy, the Milky Way, and planet formation follows. Astronomers on EU project DIGDEEP, with the support of the Marie Skłodowska-Curie programme, have discovered the discs that surround newborn stars emit winds that may help the formation of planets and their location in our galaxy.

When stars are formed there is a build-up of matter that is expelled through winds and jets. However, astronomers didn't know whether the matter was expelled from the newborn star or from the surrounding protoplanetary disk.

The researcher Rebeca García López on the project DIGDEEP —supervised by Ray— studied young stars forming within 5 astronomical units from their Sun, a region containing what astronomers dub the 'Habitable Zone', or the 'Goldilocks Zone', because its distance from the sun makes it an ideal environment for life: not too hot and not too cold.

García López realised she could use the interferometer GRAVITY, a sophisticated instrument she helped build and test as part of a European consortium with colleagues from DIAS. It is based at the European Southern Observatory in northern Chile.

Studying a sample of newborn stars allowed García López and her team to gain insight into the conditions in the terrestrial planet-forming zone in a protoplanetary disc. She used those conditions in computer simulations to replicate how planet formation takes place, gaining clues into how previous planets ended up in the Habitable Zone.

Further out winds from the protoplanetary discs turn into jets that stretch for several light-years. We now know these jets are an essential ingredient for planet formation.

FULL NEWS :



KEYS TO TACKLE EUROPE'S WASTE PROBLEM AND FOSTER A MORE CIRCULAR ECONOMY



Improved circular and climate-friendly business models and policies to boost reuse and recycling, plus improved consumer awareness will help the European Union tackle the growing problem posed by plastic, battery, electronic and textile waste, according to the European Environment Agency (EEA). European Union Member States face a dilemma on how to deal with the millions of tonnes of waste generated in Europe every year, amid a growing number of bans and tougher international rules on the export of certain waste to other countries. There is growing concern over the impact of such waste on the environment and our health, as well as the impacts of increased resource extraction, production and consumption. Waste generation also contributes to air, water and soil pollution as well as climate change and biodiversity loss.

The two EEA briefings provide an assessment of the role of plastic waste export in the circular economy and a snapshot of resource losses from waste management – the latter looking specifically at waste from electrical and electronic equipment, end-of-life batteries, plus textile and plastic waste.

The EEA briefing on resources and waste management shows that tens of millions of tonnes of plastic waste are generated in the EU every year. Alongside plastics, millions more of tonnes of electronic waste – like old computers, cameras or TVs, and textiles (mostly clothing) are also regularly thrown away with little to no recycling or repurposing. Poor or inadequate collection, reuse and recycling of these waste streams plus low consumer awareness of the waste problem all need addressing in order to improve the situation. The presence of hazardous substances can also hamper recycling and hence opportunities to move to increased circularity, as do products not properly designed for recycling.

The EEA briefing on exports of plastic waste shows there is huge potential to increase reuse and recycling in the coming years. Reusing and recycling plastic waste could provide a large amount of material resources for local manufacturers. The briefing notes that the EU has already taken steps to improve the management of plastic production, use and waste, including the European strategy for plastics in the circular economy, the EU's Single Use Plastics Directive, and new, more ambitious targets for plastic recycling included in the EU's updated waste directives of 2018.

FULL NEWS :



FIRST VACCINE TO PROTECT AGAINST EBOLA



EMA's human medicines committee (CHMP) has recommended granting a conditional marketing authorisation in the European Union for Ervebo (rVSVΔG-ZEBOV-GP), the first vaccine for active immunisation of individuals aged 18 years and older at risk of infection with the Ebola virus.

"The CHMP's recommendation is the result of many years of collaborative global efforts to find and develop new medicines and vaccines against Ebola. Public health authorities in countries affected by Ebola need safe and efficacious medicines to be able to respond effectively to outbreaks and save lives."

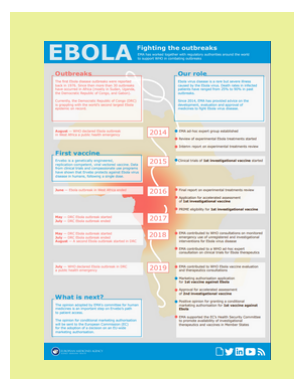
Death rates in patients who have contracted the disease have varied from 25% to 90% in past outbreaks. The largest outbreak to date occurred in West Africa in 2014-2016 with more than 11,000 deaths. The current outbreak in the Democratic Republic of Congo (DRC) which is caused by Ebola Zaire, has shown case fatality rates of approximately 67%. More than 3,000 people have been infected with the Ebola virus during the ongoing outbreak, which was declared a public health emergency of international concern by the World Health Organization (WHO) in July 2019.

Ervebo is a genetically engineered, replication-competent, attenuated live vaccine. Data from clinical trials and compassionate use programs have shown that Ervebo protects against Ebola virus disease in humans following a single dose administration.

The clinical development of Ervebo was initiated in response to the 2014-2016 Ebola outbreak in cooperation with public health stakeholders, including national institutes of health, ministries of health in countries such as Guinea and DRC, WHO, the US Centers for Disease Control and Prevention, the Public Health Agency of Canada, Médecins Sans Frontières and others.

RELATED DOCUMENT

Visual guide on EMA's role in supporting the development of Ebola medicines



FULL NEWS :



CLIMEFISH: ZERO HUNGER AND SUSTAINABLE GROWTH FOR THE FISHERIES AND AQUACULTURE SECTOR



ClimeFish offers various prediction models and strategies for reconciling growing fish consumption with depleting stocks due to climate change.

Europe currently accounts for 8 % of the world's fish production in terms of volume. It imports 70 % of the fish and seafood it actually consumes. In fact, Europeans have never eaten so much fish.

The ClimeFish project aimed to solve this delicate equation: meeting the growing appetite of European consumers while ensuring a sustainable management of declining fish stocks.

"ClimeFish consortium has picked 15 case studies across seven different habitats representative of marine aquaculture, freshwater lakes and ponds, and marine fisheries. Our models cover the most important species and the least resilient exploited fish stocks, the most productive aquaculture species, emerging species, and species vulnerable to perturbations such as temperature increase," explains Prof. Aschan.

The ClimeFish team hopes these models will enable zero hunger, good health and well-being, economic growth, industry innovation, and the sustainable utilisation of marine resources. All case studies come with forecasting models identifying risks and opportunities.

The project also devised strategies to improve long-term production planning and the policy-making process, which have been included in a framework including maps and charts, models, data for all case studies and decision support software (DSS).

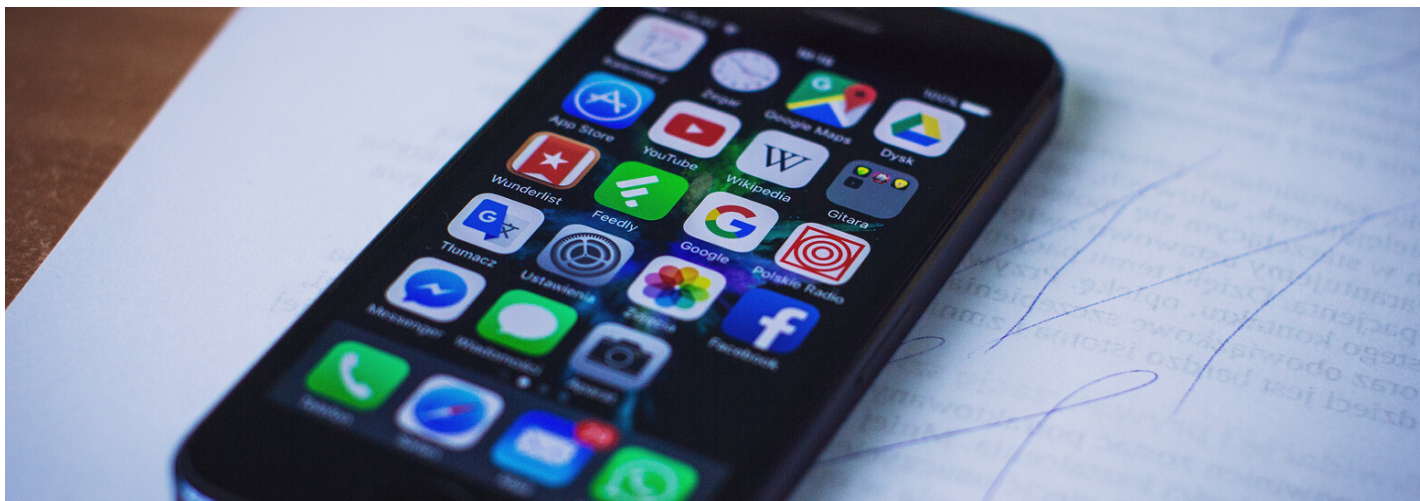
"The DSS simulates and visualises the impacts of different climate change scenarios for three case studies, namely West of Scotland demersal fisheries, Hungarian pond production, and Greek marine aquaculture. It also encompasses economic impacts. We produced tutorials for stakeholders to make sure that they can easily understand and apply this tool for their needs," explains Prof. Aschan.



FULL NEWS :



5G: A POTENCIAL MARKET FOR GSA



5G will deliver high-speed, low-latency broadband connectivity that will open the door to a new generation of applications.

The market reports predicts that several mobile 5G commercial launches will take place over the next three years in North America, Asia-Pacific and Europe, with 1.2 billion 5G connections expected in 2025 according to the GSM Association (GSMA). In anticipation of this 5G growth, receiver manufacturers are developing and launching hardware that can meet the increased requirements of the future networks. One such launch is the new GNM181 receiver module from Meinberg, which hit the market at the start of October this year.

Accuracy in time and security

With nanosecond-level timing accuracy, the new Meinberg GNM181 multi-band GNSS receiver module not only meets the most stringent 5G timing requirements, it provides a differential timing mode for highly accurate local timing and built-in security for highest robustness against malicious attacks.

This robustness is particularly relevant for 5G, as the 5G timing and synchronisation function may require more precision and more robustness than 4G, and will face more deployment challenges, such as a large number of sites in difficult locations. Thanks to its multi-constellation capacity (Galileo, GPS, BeiDou, and GLONASS), the receiver is ideal for global deployments and is unaffected by ionospheric errors, with automatic ionospheric correction. Moreover, the combined GNSS receiver is suitable for a broad range of applications, including time and frequency synchronisation tasks and the measurement of asynchronous time events.

Availability

According to the GNSS Market Report, the availability of accurate, cost effective and robust, dual-frequency GNSS systems, in particular Galileo, will be critical in providing business opportunities within the 5G market.

European Leadership in 5G

FULL NEWS :



WHY STEM CELLS COULD HOLD KEY TO TACKLING BREAST CANCER



Stem cells can play a critical role in breast cancer relapses, EU-funded researchers have found. By understanding the molecular characteristics of these stem cells, the BRECASTEM project hopes to advance new treatments and more targeted therapies – and ultimately save lives.

The cells in our body are constantly being replaced. This requires new cells to be continually produced, just to maintain equilibrium.

These new cells are produced by stem cells. Unlike the ‘working’ cells in our skin or hair that are constantly being shed and replaced, stem cells can live for years. It is this property that makes them more likely to give rise to a tumour, as cancerous ‘working cells’ generally don’t stick around long enough to spread.

The BRECASTEM project focused on Lgr6-positive cells, a very specific stem cell population located in the breast. One of the functions of this particular stem cell is to mediate breast expansion after pregnancy. Scientists at the Francis Crick Institute recently confirmed that a tumour-inducing genetic change occurring in these cells can lead to a particular form of breast cancer.

The project confirmed a conceptual similarity between how a normal organ is built and how a tumour is built. In both, stem cells and ‘working’ cells play a role.

“This is one of the first times that scientists have demonstrated that there is indeed a small sub-population of cells within the tumour that can be linked to post-chemo relapse. It is these cancer stem cells that initiate the relapse,” Dr Behrens adds.

Dr Behrens acknowledges that there is ongoing scientific debate on this issue but is confident that the findings of the BRECASTEM project represent an important step forward. “The first step towards finding a cure is understanding how relapses are caused. Now we have a better picture of how this happens, we can work on ways of getting rid of these malignant stem cells and making a relapse far less likely,” Dr Behrens says.

FULL NEWS :



NEW CHALLENGES FACING EUROPE'S WASTE WATER TREATMENT PLANTS PRESENT OPPORTUNITIES FOR IMPROVING SUSTAINABILITY



More investment is needed to make urban waste water treatment plants fit to meet the difficult challenges posed by the impacts of climate change, as well as the presence of antibiotics and other micro-pollutants in waste water, according to the European Environment Agency (EEA).

Much has already been done in recent decades to improve waste water treatment, according to the EEA briefing 'urban waste water treatment for 21st century challenges'. The proportion of households connected to treatment facilities varies across Europe, from 97% in western and central Europe, to around 70% in southern, south-eastern and eastern Europe. However, urban waste water treatment now needs to address challenges like climate change, changes in population and newly emerging pollutants.

The briefing notes that energy costs and scarce resources are reasons to promote water efficiency. Furthermore, they provide an opportunity for treatment plants to contribute more to recycling and reusing water and recovering materials like phosphorus, which can be collected during the treatment cycle.

The briefing cites some examples of investments already being taken across Europe to improve waste water treatment resilience, with the use of retention ponds and rainfall reservoirs to manage water flows from flash floods, or in reusing water that has been treated and cleaned.

Urban waste water treatment for 21st century challenges



FULL NEWS :



EU CONTROL MEASURES FOR AFRICAN SWINE FEVER



African swine fever is a viral disease of pigs and wild boar that is usually deadly. There are neither vaccines nor cures. For this reason, it has serious socio-economic consequences in affected countries. Humans are not susceptible to the disease.

Improved surveillance, communication and collaboration are key to controlling the spread of African swine fever in Europe, according to a new risk assessment carried out by EFSA.

EFSA evaluated the possibility of spread among nine disease-free countries: Albania, Bosnia-Herzegovina, Croatia, Greece, Kosovo, Montenegro, North Macedonia, Serbia and Slovenia, and the Agency concluded that the chances of the disease spreading within one year of introduction are very high (66-100%). However, the chances of the disease spreading west into other EU Member States within the same time frame are rated as very low (0-15%).

- Control measures – which have been in place in the EU since 2014 – should continue to focus on the importance of early detection and preparedness, EFSA says. In particular, EFSA recommends:
- Rigorous surveillance, especially surveillance of wild boar and domestic pigs, which remains the most effective means for early detection of African swine fever.
- Measures to limit access of wild boar to food and further reduce boar numbers through hunting.
- Awareness campaigns for travellers, hunters, farmers etc. to limit the risk of spread via movement of people, as well as to assist with early detection.
- Communication and collaboration among national authorities and stakeholders to support awareness campaigns.
- Training activities for veterinary officers, other relevant bodies and hunters to increase the probability of early detection and effective control.
- Risk assessment of African swine fever in the south-eastern countries of Europe.



WARMHIVE PROJECT: A SIMPLER SOLUTION TO STOP THE DEATH OF BEES



The EU-funded WarmHive project is using thermotherapy to fight the disease responsible for large losses in honeybee populations.

Honeybee populations around the world are experiencing massive losses. This is primarily the result of varroosis, a disease caused by the varroa mite that, if it doesn't kill the bee directly, causes other diseases that do. In fact, the varroa mite is responsible for killing 85 % of all bee colonies. Considering the essential role that bees play in plant pollination, if left unchecked, the varroa mite could wreak havoc on the human food chain.

It is known that the varroa mite is particularly sensitive to increased temperatures. In fact, by increasing the temperature only slightly, the mite is no longer able to reproduce. While long-term exposure to 38 degrees Celsius will cause the mite to suffer irreversible damage, raise the heat only slightly to 40 degrees Celsius and the mite will die.

Although this increase in heat has catastrophic consequences on the varroa mite, it has little to no effect on honeybees, making it an ideal method for controlling varroosis.

Unlike the thermotherapy-based beehives that have been on the market for decades, the WarmHive is the first to offer a fully integrated solution that is so intuitive even amateur beekeepers can use it. The unique design integrates all the required hardware into a single roof structure that can be placed on top of any standard beehive. As the system runs completely on solar energy, there is no need for beekeepers to monitor electricity flow. Instead, they can simply attach the WarmHive roof to a beehive and forget about it.

According to Bereziewicz, –ounder and WarmHive project coordinator–, the WarmHive solution has been shown to kill 100 % of mite populations. It also eliminates the need to use chemicals, which can pose a risk to the bees, the beekeeper, and the end consumer.

FULL NEWS :



SEEKING ENERGY EFFICIENCY IN AIRCRAFTS



An emphasis on reducing the environmental impact of aircraft means EU-funded scientists have been researching ways to reduce drag using an aircraft's small, active components to make them more energy-efficient and reduce emissions.

Reductions in carbon dioxide and nitrogen oxide emissions from aircraft are directly related to an aircraft's fuel burn, drag and aircraft weight. So reducing surface drag – which impedes forward movement during flight – will help reduce the environmental impacts of harmful emissions.

"It is not just the shape of the airframe but also some devices which act on the flow field that determines drag," says DRAGY project coordinator Gabriel Bugada, Professor of Civil and Environmental Engineering at the International Centre for Numerical Methods in Engineering (CIMNE), at the Technical University of Catalunya (UPC), in Barcelona, Spain.



Riblets, and other devices such as plasma actuators, where a small amount of air is injected into the flow field using plasma devices, can reduce drag. "These are the two most promising devices," says Bugada, adding that pulse jets, which inject a specific amount of fluid in a pulsating action rather than steady stream, and rotating discs, to inject additional momentum of fluid, also have potential.

Nonetheless, with fuel costs at least 30 % of a commercial aircraft's operating costs, it could represent a significant saving. But there is also a payoff because: "These devices have some weight and need some energy to work and we have not yet evaluated the 'cost' of these, but it is nonetheless a significant finding."

Scaling up is still a major challenge. Bugada notes. "It is not easy to extrapolate the results of these [laboratory scale] experiments to real-sized aircraft."

As the project is a collaboration between European institutions and China, with the costs in China covered by the Ministry of Industry and Information Technology in Beijing, the project was able to take advantage of large-scale experimental facilities at Zhejiang University, Northwestern Polytechnical University, Peking University and Beijing University of Aeronautics and Astronautics.

FULL NEWS: 

MORE THAN €200 MILLION TO PROMOTE AGRI-FOOD PRODUCTS INSIDE AND OUTSIDE THE EU



EU policy on the promotion of agri-food products is designed to help the sector take advantage of the expanding and increasingly dynamic global agri-food market, raise awareness on quality schemes including organic produce and help producers should they face market disturbances.

In 2020, more than half of the budget (€118 million) will go towards campaigns pursuing markets outside the EU with high-growth potential, such as Canada, China, Japan, Korea, Mexico and the United States. Eligible sectors include dairy and cheese, table olives and olive oil and wines. The selected campaigns are expected to enhance the competitiveness and consumption of EU agri-food products, raise their profile and increase their market share in these targeted countries.

Campaigns will also inform EU and global consumers of the various EU quality schemes and labels such as geographical indications or organic products. An additional focus of the campaigns will also be to highlight the high safety and quality standards, as well as the diversity and traditional aspects of EU agri-food products.

Finally, within the EU, the focus will be on promoting healthy eating and increase, in the framework of balanced diets, the consumption of fresh fruits and vegetables.

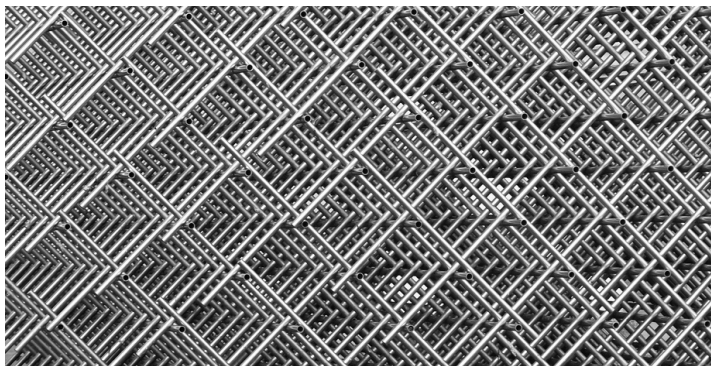
Annual Plan 2020



FULL NEWS :



POSTDOCTORAL RESEARCH ASSOCIATE – MULTISCALE MODELING OF METALLIC ALLOY SOLIDIFICATION



This postdoctoral project will focus on phase-field modeling of crystal growth and microstructure development during solidification processing of metallic alloys, with emphasis on additive manufacturing using selective laser melting technology. Units (GPU) architectures.

The researcher's main responsibility will be to adapt and extend existing phase-field codes for solidification in order to make them applicable to additive manufacturing.

Deadline: 23 December 2019

MORE INFORMATION :

WEBSITE



H2020: NOCHE EUROPEA DE LOS INVESTIGADORES 2020



This call (MSCA-NIGHT-2020) aims at supporting the public recognition of researchers, creating an understanding of the impact of researchers' work on citizen's daily life, and encouraging young people to embark on research careers, through celebrating the European Researchers' Night 2020, belongs to the Marie Skłodowska-Curie Actions sub-programme, in the Horizon 2020 Program.

The challenge is addressing and attracting people regardless of the level of their scientific background, with a special focus on pupils and students. Activities can take various forms, e.g. hands-on experiments, science shows, etc.

Deadline: 09 January 2020

MORE INFORMATION :

WEBSITE



H2020: EIC HORIZON PRIZE FOR 'INNOVATIVE BATTERIES FOR EVEHICLES'



This call (Batteries-EICPrize-2018), whose aim is to contribute significantly to the decarbonisation of Europe for the benefit of the EU's economy and its citizens, belongs to the Towards the next EU Framework Programme for Research and Innovation: European Innovation Council (EIC) Pilot subprogramme, in the Horizon 2020 Programme.

The challenge is to develop a safe and sustainable battery for electric-vehicles through the development of new materials and chemistries making use of abundant, sustainable low cost materials, which are easily available in Europe.

Deadline: 17 December 2019

MORE INFORMATION :

WEBSITE



SOLAR-ERA.NET COFUND 2 ADDITIONAL JOINT CALL



The SOLAR-ERA.NET proposal aims at raising emerging solar cell technologies with high efficiency / low cost potential to the industrial scale and beyond.

The objective of this call are o re-build European technological leadership in the sector by pursuing high-performance PV technologies and their integration in the European energy system; and to bring down the levelized cost of electricity from PV rapidly and in a sustainable manner to allow competition in electricity markets all over Europe.

Deadline: 19 January 2020

MORE INFORMATION :

WEBSITE



ERASMUS+ KA3. SUPPORT FOR POLICY REFORM : CENTRES OF VOCATIONAL EXCELLENCE



This call (EACEA 33/2019), whose objective is to support the development of Centres of Vocational Excellence (CoVEs), belongs to the Erasmus+ KA3 programme.

The general objective of this call is to bring together CoVEs which share a common interest in specific sectors or trade and develop together innovative approaches to tackle societal, technological and economic challenges

Deadline: 20 February 2020

MORE INFORMATION :

WEBSITE



H2020: HEALTHY SOILS FOR HEALTHY FOOD PRODUCTION



This call (SFS-40-2020), whose objective is to increase soils health and producing more high quality food for increasing population, maritime and inland water research and the bioeconomy, belongs to the Horizon 2020 Programme.

The challenge is to achieve certain quality of food production management of soils at the farm level by incorporating techniques for soil quality restoration and balanced fertilizer application

Deadline: 22 January 2020

MORE INFORMATION :

WEBSITE



EMFF: MONITOREO DE LOS OCÉANOS



The general objective of this call (EMFF-OM-2019) are increasing the amount of environmental data and improve knowledge on assessing possible impacts of ocean energy devices deployed at sea; reducing uncertainty about potential impacts of future ocean energy devices; providing guidance to ocean energy developers and to public competent authorities; and informing stakeholders and help feed the public debate.

Deadline: 15 January 2020

MORE INFORMATION :

WEBSITE



H2020: COMPRENDER Y MITIGAR LOS EFECTOS SOBRE LA SALUD PÚBLICA DE LOS PROBLEMAS EMERGENTES DE EMISIONES DE NANOPARTÍCULAS NO REGULADAS Y EL RUIDO



This call (LC-MG-1-14-2020), whose main objective is to mitigate the effects of nanoparticles and noise on health belongs to the Building a low-carbon, climate resilient future (LC) subprogramme, in the Horizon 2020 Programme.

Proposals can focus on one or both of the following subtopics, but must be ready to work in cooperation and share results with other selected or running proposals particularly as far as data and material for experimentation.

Deadline: 09 January 2020

MORE INFORMATION :

WEBSITE

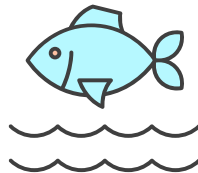


STATISTICS

NOVEMBRE
2019



ENVIRONMENTAL PROTECTION
SPENDING IN 2018



SDG 14 -
LIFE BELOW WATER



PERCENTAGE OF THE
ICT PERSONNEL IN
TOTAL EMPLOYMENT

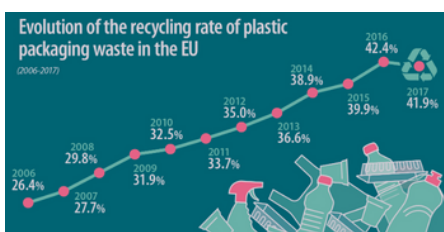


GREENHOUSE GAS EMISSION STATISTICS CARBON FOOTPRINTS

[CLICK HERE](#)



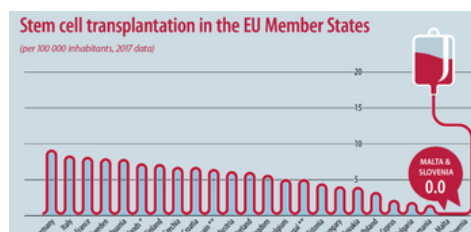
HOW MUCH PLASTIC PACKAGING WASTE DO WE RECYCLE?



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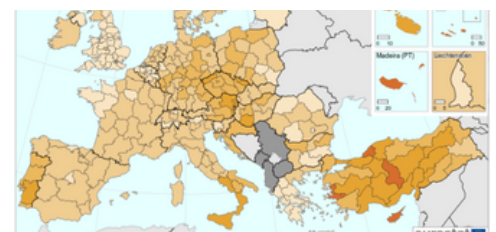
STEM CELL TRANSPLANTATION IN THE EU



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DEATHS FROM PROSTATE CANCER IN EU REGIONS

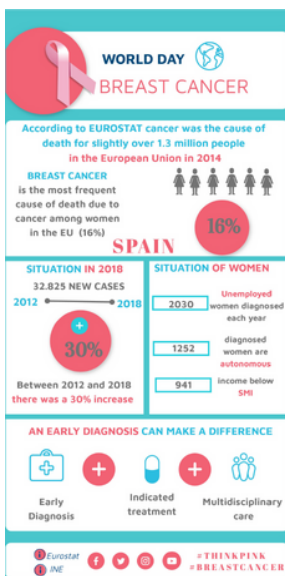


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INFOGRAPHICS

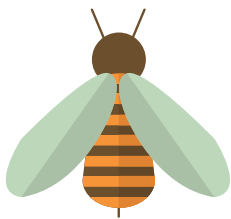
NOVEMBER
2019



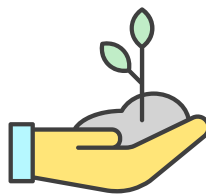
BREAST CANCER WORLD DAY



Infographic created by the European Documentation Center in Almería, with data on breast cancer and situation of diagnosed women in 2017 and 2018.



10 FACTS ABOUT BEES IN THE EU



REGIONAL ORGANIC FARMING IN THE EU



MENTAL HEALTH CARE : PSYCHIATRIC HOSPITAL BEDS



RESEARCH POLICIES

EU PUBLIC HEALTH POLICIES. STATE OF PLAY, CURRENT AND FUTURE CHALLENGES



Abstract: The original full study presents an outlook on the topics that may shape the public health agenda of the Committee on the Environment, Public Health and Food Safety, during the legislative term of 2019-2024. It provides a description of some of the key policy developments and future challenges, drawing, among others, on guidance documents for the new Commission.

Publication date: 14-11-2019

Author: Directorate-General for Internal Policies of the Union

ISBN / ISSN: 978-92-846-5830-5

Link: [CLICK HERE](#)

Key words: disease prevention, health care system, health policy, powers of the institutions (EU), public health

SMART SPECIALISATION AND THE WIDER INNOVATION POLICY CONTEXT IN THE WESTERN BALKANS - STUDY



Abstract: Enhancing the innovation potential has been on the policy agenda of the Western Balkan economies for years. Hence, innovation policymaking has led to a number of policy documents and strategies that relate to economic and innovative competitiveness.

Publication date: 18-11-2019

Author: Centro Común de Investigación

ISBN / ISSN: 978-92-76-12550-1 / 1831-9424

Link: [CLICK HERE](#)

Key words: competitiveness, development worker, EU research policy, innovation, regional development, research report, Western Balkans

SCIENTIFIC ADVICE TO EUROPEAN POLICY IN A COMPLEX WORLD. INDEPENDENT EXPERT REPORT



Abstract: In order to ensure that trust in science is maintained, science advice needs to be provided in an impartial, reliable, relevant and transparent way, following a set of principles and building on existing best practices. This scientific opinion makes recommendations to ensure the quality and relevance of scientific advice.

Publication date: 11-11-2019

Author: CEU. SAM_ADV , Directorate-General for Research and Innovation

ISBN / ISSN: 978-92-76-12557-0

Link: [CLICK HERE](#)

Key words: consultancy, EU policy, policymaking, scientific research

FISHERY

COURSE FOR EU FISHERIES MONITORING CENTRES' OPERATORS ON VESSEL TRACKING SYSTEMS



Abstract: This course for EU fisheries monitoring centres' operators on vessel tracking systems is a training manuscript. It can be used by EU Member States competent authorities and the European Commission for the training of their staff. The objective of this course is to provide an overview of the wide variety of systems and tools used in a Fisheries Monitoring Centre (FMC) and to demonstrate how they work.

Publication date: 28-10-2019

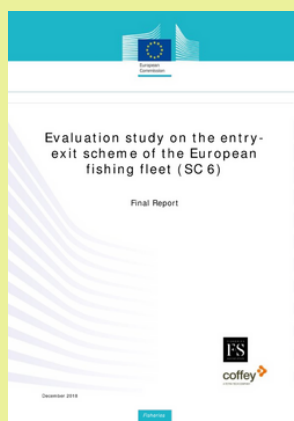
Author: European Fisheries Control Agency

ISBN / ISSN: 978-92-9209-089-0

Link: [CLICK HERE](#)

Key words: Community fisheries, data processing, EU Member State, fishery management, fishing vessel, guide, information system, maritime shipping, traffic control, vocational training

EVALUATION STUDY ON THE ENTRY-EXIT SCHEME OF THE EUROPEAN FISHING FLEET (SC 6). FINAL REPORT



Abstract: One of the main objectives of the EU's Common Fisheries Policy (CFP) is to bring fishing capacity in line with available resources. Over the past 15 years, specific measures have been set up in order to attain that objective including an entry-exit scheme (EES). This evaluation report aims to provide the Commission with data and information on the performance of the entry-exit scheme over the 2003-2017 period.

Publication date: 29-10-2019

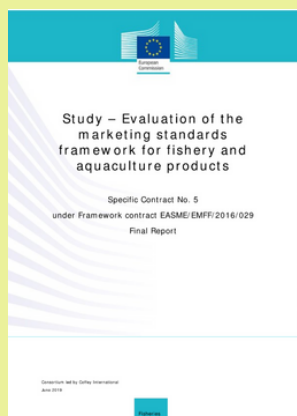
Author: Coffey, Directorate-General for Maritime Affairs and Fisheries, FS

ISBN / ISSN: 978-92-76-08875-2

Link: [CLICK HERE](#)

Key words: common fisheries policy, data collection, EU Member State, fishery management, fishery resources, fishing fleet, fishing industry, fishing statistics, report, sustainable fisheries

STUDY, EVALUATION OF THE MARKETING STANDARDS FRAMEWORK FOR FISHERY AND AQUACULTURE PRODUCTS.



Abstract: The evaluation of EU marketing standards for fishery and aquaculture products in the Common Market Organisation (CMO) regulation (1379/2013) and three specific regulations for fresh and chilled fishery products (2406/96), preserved tuna and bonito (1536/92) and preserved sardines and sardine-like products (2136/89) explored their continued relevance, effectiveness, efficiency, coherence and EU added value.

Publication date: 28-10-2019

Author: Coffey International, Directorate-General for Maritime Affairs and Fisheries

ISBN / ISSN: 978-92-76-12787-1

Link: [CLICK HERE](#)

Key words: aquaculture, fisheries policy, fishery product, marketing, report

ENERGY

THE POTENCIA CENTRAL SCENARIO. AN EU ENERGY OUTLOOK TO 2050 - STUDY



Abstract: This report describes the evolution of the EU energy system until the year 2050 under the assumption that no further policies and measures are introduced beyond the end of 2017. The results show that both the energy and the carbon intensity of the European economy remain on a declining path in the 'Central' scenario set-up, but will miss mid-century targets.

Publication date: 29-10-2019

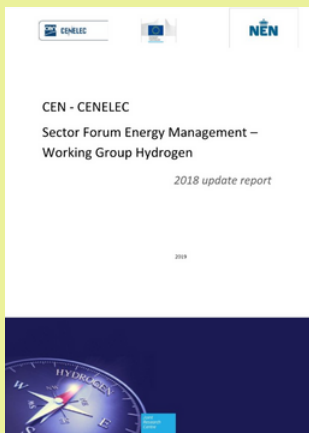
Author: Joint Research Centre

ISBN / ISSN: 978-92-76-12010-0 / 1831-9424

Link: [CLICK HERE](#) 

Key words: energy diversification, energy grid, energy policy, energy production, energy research, energy technology, environmental impact, EU environmental policy, new technology, reduction of gas emissions, report

CEN - CENELEC SECTOR FORUM ENERGY MANAGEMENT. WORKING GROUP HYDROGEN : 2018 UPDATE REPORT - STUDY



Resumen: It is not a review, but an update of the 2015 Report, since the content of the original report, its organization, and its general priorities of the strategic plan remain fully valid and relevant for the creation of a market for hydrogen in the system energetic.

Fecha publicación: 07-10-2019

Autor: Institute for Energy and Transport (Centro Común de Investigación)

ISBN / ISSN: 978-92-76-10759-0

Link: [CLICK HERE](#) 

Palabras clave: energy industry, energy policy, energy research, energy technology, hydrogen, innovation, natural gas, renewable energy, research and development, research report, standardisation, technological change

TRENDS AND PROJECTIONS IN EUROPE 2019. TRACKING PROGRESS TOWARDS EUROPE'S CLIMATE AND ENERGY TARGETS



Abstract: The EU aims to become the world's first climate-neutral economy. Achieving climate neutrality will help Europe contribute to the Paris Agreement objectives of limiting global temperature increase to well below 2° C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5° C, but will require substantial change across Europe.

Publication date: 05-11-2019

Author: European Environment Agency

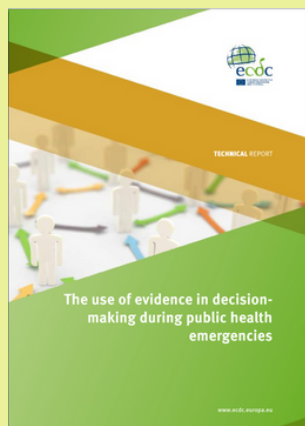
ISBN / ISSN: 978-92-9480-103-6 / 1977-8449

Link: [CLICK HERE](#) 

Key words: EU environmental policy, greenhouse gas, Kyoto Protocol, pollution control measures, quality of the environment, reduction of gas emissions, report, sustainable development

HEALTH

THE USE OF EVIDENCE IN DECISION-MAKING DURING PUBLIC HEALTH EMERGENCIES.



Abstract: Public health institutes and centres for disease control are responsible for safeguarding national health security and generating evidence to inform national health initiatives. This duty is most challenging during public health emergencies, when time is limited, scientific uncertainties and political pressures are high, and irrefutable evidence to support a decision may be lacking.

Publication date: 18-11-2019

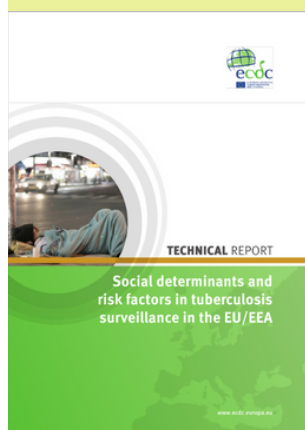
Author: European Centre for Disease Prevention and Control

ISBN / ISSN: 978-92-76-12975-2

Link: [CLICK HERE](#)

Key words: cross-border cooperation, decision-making, disease prevention, epidemiology, health control, health risk, infectious disease, public health

SOCIAL DETERMINANTS AND RISK FACTORS IN TUBERCULOSIS SURVEILLANCE IN THE EU/EEA



Abstract: Tuberculosis (TB) is more frequent in certain socio-economic groups and the course of the disease can be more rapid or more severe in individuals with specific risk factors. The objective of this report is to provide countries with advice on what social determinant and risk factor variables to collect and what definitions to use, and to propose information to be collected at the national and European level.

Publication date: 06-11-2019

Author: European Centre for Disease Prevention and Control

ISBN / ISSN: 978-92-9498-184-4

Link: [CLICK HERE](#)

Key words: disease prevention, health control, health policy, health risk, infectious disease, public health, report, respiratory disease, social situation

HEALTHY WORKPLACES GOOD PRACTICE AWARDS 2018-2019. AWARDED AND COMMENDED EXAMPLES : HEALTHY WORKPLACES MANAGE DANGEROUS SUBSTANCES



Abstract: The Healthy Workplaces Good Practice Awards are organised by the European Agency for Safety and Health at Work (EU-OSHA) as part of its pan-European Healthy Workplaces Campaigns. The 2018-19 campaign — Healthy workplaces manage dangerous substances — has a focus on managing exposure to substances that can cause harm to workers.

Publication date: 18-10-2019

Author: European Agency for Safety and Health at Work

ISBN / ISSN: 978-92-9479-143-6 / 2315-1021

Link: [CLICK HERE](#)

Key words: awareness campaign, working condition, workplace, health risk, occupational health, occupational safety, dangerous substance

NEW TECHNOLOGIES

DON'T FEAR AI



Abstract: A new production revolution, enabled in part by artificial intelligence (AI), is now emerging, bringing a new wave of technologies, but there are widespread fears that these changes also will bring a big rise in unemployment as machines replace human beings in big numbers.

Publication date: 08-10-2019

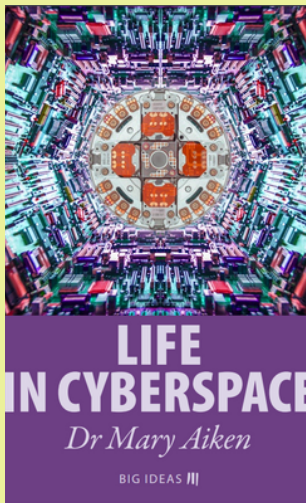
Author: European Investment Bank

ISBN / ISSN: 978-92-861-4328-1

Link: [CLICK HERE](#)

Key words: artificial intelligence, impact of information technology, information processing, information technology, information technology applications, new technology, robotics

LIFE IN CYBERSPACE



Abstract: Every time we switch on our computers, use an application, when we log in to a social media we enter a virtual space. But we behave differently when we interact with technology: technology amplifies and accelerates our deeds, it can help us find useful information, benefit from a wide range of services and stay in touch with our friends, but it can also create addictive-type behaviours and subliminally manipulate us online.

Publication date: 17-07-2019

Author: European Investment Bank

Link: [CLICK HERE](#)

ISBN/ISSN: 978-92-76-08603-1 / 1831-9424

Key words: behavioural sciences, computer crime, computer network, human relations, impact of information technology, information security, information technology, Internet, Internet of Things, psychology, social media, virtual community, virtual reality, web surfer

THE AGE OF ARTIFICIAL INTELLIGENCE. TOWARDS A EUROPEAN STRATEGY FOR HUMAN-CENTRIC MACHINES



Abstract: As the world stands at the cusp of this transformative technology, much is at stake. Deployed wisely, AI holds the promise of addressing some of the world's most intractable challenges, from climate change and poverty to disease. Used in bad faith, it can lead the world on a downward spiral of totalitarianism and war, endangering – according to Hawking – the very survival of humankind itself.

Publication date: 25-11-2019

Author: European Political Strategy Centre

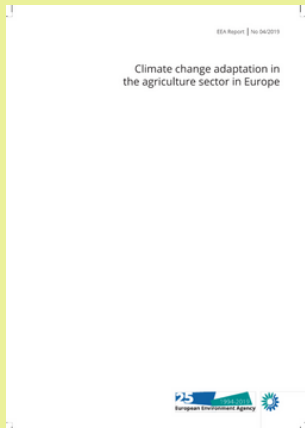
ISBN / ISSN: 978-92-79-81355-9 / 2467-4222

Link: [CLICK HERE](#)

Key words: artificial intelligence, digital technology, ethics, EU strategy, new technology

CLIMATE CHANGE

CLIMATE CHANGE ADAPTATION IN THE AGRICULTURE SECTOR IN EUROPE



Abstract: Climate change has an impact on European agriculture in a number of ways. Climate change has already negatively affected the agriculture sector in Europe, and this will continue in the future. Future climate change might also have some positive effects on the sector due to longer growing seasons and more suitable crop conditions. However, the number of climate extreme events negatively affecting agriculture in Europe is projected to increase.

Publication date: 06-11-2019

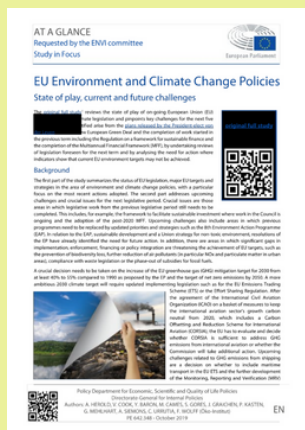
Author: European Environment Agency

ISBN / ISSN: 978-92-9480-073-2 / 1725-9177

Link: [CLICK HERE](#)

Key words: adaptation to climate change, agricultural policy, environmental impact, EU environmental policy, EU Member State, Europe, farming sector, report, research report

EU ENVIRONMENT AND CLIMATE CHANGE POLICIES. STATE OF PLAY, CURRENT AND FUTURE CHALLENGES



Abstract: The original full study reviews the state of play of on-going EU environmental and climate legislation and pinpoints key challenges for the next five years. Challenges identified arise from the plans released by the President-elect and the completion of work started in the previous term, by undertaking reviews of legislation foreseen and by analysing the need for action where indicators show that current EU environment targets may not be achieved.

Publication date: 25-10-2019

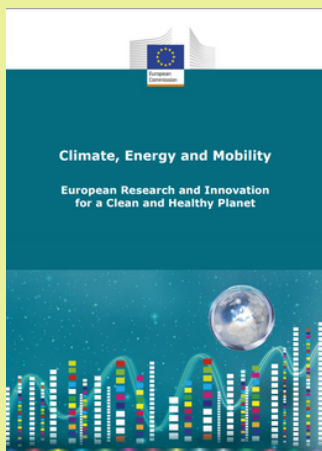
Author: Directorate-General for Internal Policies of the Union

ISBN / ISSN: 978-92-846-5819-0

Link: [CLICK HERE](#)

Key words: adaptation to climate change, biodiversity, climate change, climate change policy, energy efficiency, environmental law, environmental protection, EU environmental policy, sustainable development

CLIMATE, ENERGY AND MOBILITY. EUROPEAN RESEARCH AND INNOVATION FOR A CLEAN AND HEALTHY PLANET



Abstract: This publication highlights the key messages of 23 sessions in the field of 'Climate, Energy and Mobility' of Horizon Europe, the Research and Innovation Framework Programme. These sessions took place during the first European Research & Innovation Days and allowed 2 000 stakeholders to interact and to shape the future R&I priorities.

Publication date: 28-10-2019

Author: Dirección General de Investigación e Innovación

ISBN / ISSN: 978-92-76-11581-6

Link: [CLIC AQUÍ](#)

Key words: clean technology, climate change policy, energy efficiency, energy research, environmental protection, EU research policy, innovation, sustainable mobility

AGRICULTURAL SECTOR

THE 2016 EUROPEAN UNION REPORT ON PESTICIDE RESIDUES IN FOOD



abstract: This report provides an insight into the official control activities carried out by EU Member States, Iceland and Norway in 2016. Based on the analytical results provided by the reporting countries, a detailed data analysis was performed regarding pesticide occurrence in the most important food products consumed and the dietary risk related to the exposure of European consumers to pesticide residues.

Publication date: 16-06-2019

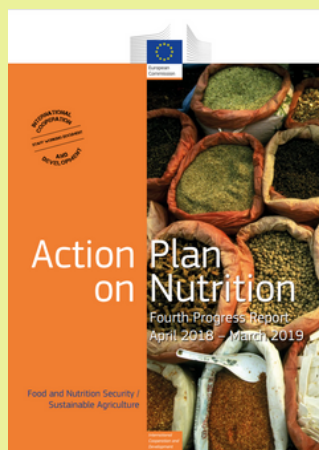
Author: European Food Safety Authority

ISBN / ISSN: 978-92-9499-096-9 / 2443-6054

Link: [CLICK HERE](#)

Key words: assessment, consumer protection, food additive, food chemistry, food contamination, food safety, foodstuffs legislation, pesticide residue, regulation (EU)

ACTION PLAN ON NUTRITION. FOURTH PROGRESS REPORT APRIL 2018 – MARCH 2019 : FOOD AND NUTRITION SECURITY / SUSTAINABLE AGRICULTURE



Abstract: Publication that includes the fourth results report (April 2018 - March 2019) of the Nutrition Action Plan, specifically on food and nutrition security and sustainable agriculture.

Publication date: 04-10-2019

Author: Directorate-General for International Cooperation and Development

ISBN / ISSN: 978-92-76-09808-9

Link: [CLICK HERE](#)

Key words: action programme, child, development policy, early childhood, financial aid, food safety, humanitarian aid, malnutrition, nutrition, nutritional disease, nutritional needs, report, sustainable agriculture

EU GPP CRITERIA FOR FOOD PROCUREMENT, CATERING SERVICES AND VENDING MACHINES. STUDY



Abstract: Food service supply chains are extremely complex and diverse ranging from the traditional 'cook from scratch' model while others buy the food 'ready to serve' and some use a hybrid of the two. The food categories included in the current EU GPP (EU GPP 2008) were further enlarged to categories such as bread and cereals, oils and fat and sugar, jam, honey, chocolate and confectionery.

Publication date: 04-11-2019

Author: Joint Research Centre

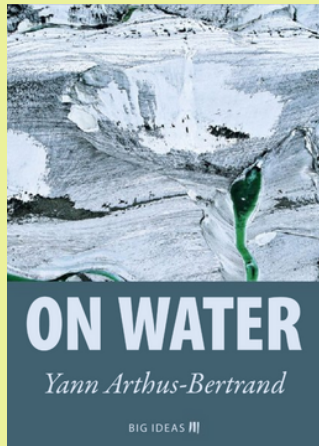
ISBN / ISSN: 978-92-76-12119-0 / 1831-9424

Link: [CLICK HERE](#)

Key words: automatic vending machine, catering industry, food safety, food standard, foodstuff, research report

OCEANS

ON WATER



Abstract: When taking a drink is as easy as turning a tap, it is easy to forget that our water supply is fragile and that hundreds of millions of people do not have clean drinking water or proper sanitation. The human impact on our land, the oceans and the climate is endangering our future.

Publication date: 08-10-2019

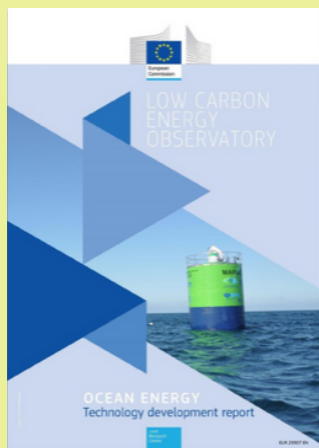
Author: European Investment Bank

SBN / ISSN: 978-92-861-4319-9

Link: [CLICK HERE](#) 

Key words: degradation of the environment, drinking water, environmental protection, sustainable development, use of water, water, water consumption, water pollution, water protection, water resources

OCEAN ENERGY TECHNOLOGY DEVELOPMENT REPORT



Abstract: The purpose of this report is to provide an assessment of the state of the art of ocean energy technology, to identify their development need and barriers and to define areas for further R&D in order to meet announced deployment targets and EU policy goals. The analysis focuses primarily on tidal and wave energy technology, considering their potential to provide a significant contribution to the European energy mix in the coming years.

Publication date: 12-11-2019

Author: Joint Research Centre

ISBN / ISSN: 978-92-76-12428-3 / 1831-9424

Link: [CLICK HERE](#) 

Key words: energy research, energy technology, EU energy policy, hydroelectric power, marine energy, ocean, renewable energy, research and development, research report, tidal energy, wave energy

OCEAN HEALTH PROJECTS THAT INNOVATE : A SAMPLE OF THE PROJECTS FUNDED BY THE EUROPEAN MARITIME AND FISHERIES FUND BETWEEN 2014 AND 2019



Abstract: As the name suggests, the European Maritime and Fisheries Fund does not just support fisheries, but also maritime policy. What follows is a snapshot of some of the most intriguing projects that emerged in recent years thanks to the European Commission funding.

Publication date: 29-03-2019

Author: Agencia ejecutiva para pequeñas y medianas empresas

ISBN/ISSN: 978-92-9202-636-3

Link: [CLICK HERE](#) 

Key words: protección costera, distribución de fondos de la UE, cooperación medioambiental, protección medioambiental, Fondo Europeo Marítimo y de Pesca, política pesquera, innovación, política marítima integrada, ecosistema marino, contaminación marina, energía renovable, pesca sostenible, embarcación

MEDIA COLLECTION



EEA Noise Pollution

This video is about the major impact of noise pollution in our lives and health.



AML saves lives with Galileo: A true story from Austria

AML makes use of Galileo to establish location for emergency calls to the national emergency numbers. Mandating the use of Galileo in smartphones will improve the accuracy of the caller location, which will allow emergency responders to get to the scene of an accident faster. The Regulation will apply in all EU Member States from 17 March 2022.



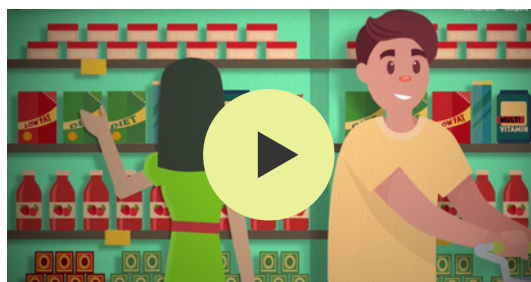
Breaking news from EFSA's expert meetings: animal feed

What were the main highlights of the info-session on applications for feed additives? And what about the talking points at the latest open meeting of EFSA's Panel on Additives and Products or Substances used in Animal Feed? Find out by watching our flash report.



Meet our 'Vaccine heroes'

EMA supports European Immunization Week by celebrating real life "vaccine heroes": paediatricians and nurses who, after treating thousands of patients, including children, feel comfortable enough to recommend immunisation; scientists who spend thousands of hours developing and testing vaccines, so they are effective and safe; parents and patients who have become passionate advocates for vaccination. We have published a video that features some of these heroes.



Safe and nutritious food #EUandMyFood

Ingredients, processes, packaging, health/nutrition claims are scientifically assessed by the EU so you can make safe and informed choices. We're with you every step of the way - keeping Europe's food safe.

MAGAZINES AND PERIODICALS OF INTEREST

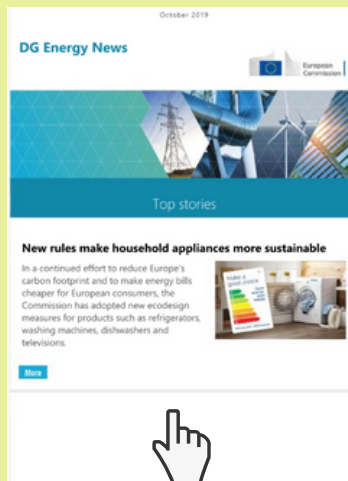
We offer the latest issues of the magazines published by the European Union and other european institutions such as the GSA-GSSN.



MARITIME AFFAIRS AND FISHERIES NEWSLETTER



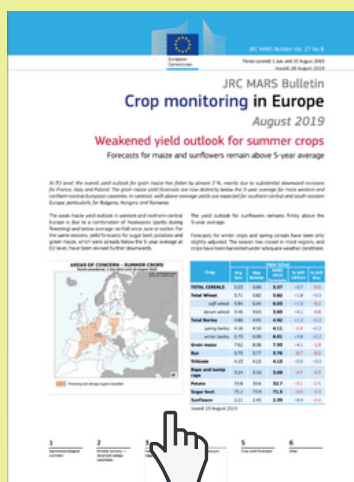
GSA GNSS MARKET REPORT 2019



DG ENERGY NEWS. OCTOBER 2019



RESEARCH*EU #86. OCTOBER 2019



JRC MARS BULLETIN CROP MONITORING IN EUROPE. VOL. 27 NO 8, AUGUST 2019



EFI DEVELOPERS MANUAL. OCTOBER 2019




CORDIS RESULTS PACK ON BREAST CANCER. SEPTEMBER 2019



THE EUROPEAN FOOD RISK ASSESSMENT FELLOWSHIP PROGRAMME. SERIES 2, 2019-2020



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