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Climate-KIC Malta Newsletter



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Towards a Zero Carbon Economy

Climate Conference Gives Birth To 'Valletta Declaration' - Engagement and effective implementation of new and future environmental projects, twinning projects and EU funded regional projects for climate action, through the nurturing of an Innovation Hub in Malta, creation of 10,000 jobs in existing and new SME's and realizing 10% of GDP through innovation and development are amongst the most salient points of a new Valletta Declaration.

This Valletta Declaration was drawn up following a full-day international conference "Towards a Zero-Carbon Economy beyond 2030" organised by Paragon Europe in collaboration with Climate-KIC at the Old University in Valletta. Green roofs, challenges from climate change, economic growth from better waste management as well as greener mobility options were amongst the main topics discussed during this conference.

Smart Sustainable Districts Project

Valletta can be considered a relatively young city, compared to other European counterparts. Despite being small in size (0.8km²), it is extremely rich in history and has a diverse cultural heritage that makes it stand out as one of Europe's most important micro cities.

The city has embarked on a transition process to become a smart sustainable city, strongly convinced that this is the right answer to the challenges it must address. For this reason, Valletta has activated many initiatives and projects, pilots and demos, to experiment which best solutions the city should be investing in. At this moment in time though, the challenge is to be able to map all such initiatives and do an integration exercise which will enable the city to assess lucidly which ones can really offer the best solutions. In fact, Valletta is in a delicate integrated planning phase which will set the action plan for the next ten years.

"The urgency to change our behaviour to limit climate change has never been higher than today. The next 30 years are about do or die."

Kirsten Dunlop, Climate-KIC CEO

The Smart Sustainable Districts (SSD) Project will represent an accelerator for Valletta, because the city needs to speed up the process to realise its ambition of becoming a smart city and a zero-carbon capital by 2030. Secondly, the programme will enable the city to strategically integrate the key initiatives it is implementing, thus covering the existing gaps in integrated planning and data. SSD will also assist Valletta in unlocking and prioritising on investments to be made with the EUR 26 M the city is expected to receive in 2018 to implement sustainable urban integrated projects.

If you are interesting knowing more please contact our Project Manager, Gonca Kara Demir
gonca.kara@paragoneurope.eu

"We will deliver Paris"

Eighteen months after representatives from 200 countries met in Paris to make a global agreement on how to reduce carbon emissions to mitigate the severely damaging effects of climate change, Joanna Drake, Deputy Director-General in charge of Coordination of Resource-efficiency policies and instruments in DG Environment, sent a powerful message to Valletta: "We stand to Paris, and we will deliver Paris."

Drake pointed out that there is sufficient proof that **climate change programmes boost economic growth**. Cities have a major role to play influencing the behaviours of their citizens as well as working towards a better quality of life for everyone by introducing circular economies.



"If climate change is not mitigated, within the next 30 years Malta could be very different to how we know it today."

Edwin Ward, Paragon Europe Chairman

FreeWat

(FREE and open source tools for WATER resource management)

is an HORIZON 2020 project financed by the EU Commission under the call WATER INNOVATION: BOOSTING ITS VALUE FOR EUROPE.

The tools are used for the simulation of water quantity and quality in surface water and groundwater with an integrated water management and planning module.

The results of the Gozitan case study were presented on the 31st July to Maltese stakeholders. The main outcomes of the Freewat project in Malta were that through this software we are in a better position to understand ground water quantity and to start planning better its management.



FREEWAT
Free and Open Source Software Tools for Water Resource Management
EU HORIZON 2020 Project

If you are interested in water management and in simulation tools, the software and training is available at www.freewat.eu

Carbon-free electricity

A UK-based solar developer has applied to the **Tunisian government** for authorisation to build a 4.5 gigawatt plant in the country, making it a solar plant large enough to provide carbon-free electricity to over five million European homes or over seven million electric vehicles.



"We need to look at the water management challenges as a jigsaw. Only trying to solve one aspect won't help us, we need to bring all experts around the table to achieve sustainability."

Anton Theuma, Paragon Europe CEO

Accelerating Innovation

A key activity within the Climate-KIC calendar is the **Business Acceleration** project, with an open invitation extended to local entrepreneurs seeking to launch an innovative business that will help address climate change.

On July 19th after an initial interest by **28 potential start-ups** a 'live' pitching day was held with 14 entrepreneurs selected to present their business concepts, ranging from energy efficiency, mobility, retrofitting of buildings to marine vessel efficiency.

We are pleased to announce that 8 of these will now be receiving funding to help them start their business. We will be organizing a demo day for these new businesses and are interested to hear from anyone interested in them, especially **potential investors**.

www.climate-kic.org/programmes

Sofia Urban Challenge: The City of Sofia is looking for excellent start-ups that can offer solutions for clean air. Application deadline is 15th September. To apply: cleantech.bg/running-campaigns/sofia-city-urban-challenge-2017

"Climetrics is a unique rating designed to transform investment decisions and drive climate-positive outcomes. As a climate innovation catalyst, we work with partners to identify and broker system-changing collaborations with the most potential for growth and environmental gain. This project is an excellent example of the potential for collaborative innovation to unlock the finance needed to scale up climate action."

Dr Kirsten Dunlop, CEO of Climate-KIC
www.climate-kic.org/news

Did you know?

Malta was the first country to formally table the issue of climate change as a political agenda item at the United Nations General Assembly.

Since that initiative in 1988, Malta has played a dynamic role in ensuring that climate change would remain a matter of high-level attention for the international community.



Electric Cars

Rolling Geeks are self drive electric cars, complete with **pre-programmed GPS** that not only take you on the **perfect tour**, but explain what you're looking at too. So you get all the benefits of an organised excursion, but with the freedom of being in your own quirky electric car.

www.rolling-geeks.com

Discover Malta

The Maltese archipelago lies in the Mediterranean, 93 km south of Sicily and 288 km north of Africa. The Maltese archipelago consists of three islands: Malta, Gozo and Comino. The island of Malta is the largest of the three and is the cultural, commercial and administrative centre of the country. A population of 446,547 occupies an area of 316 square kilometers. This makes Malta one of the most densely populated countries in the world, as well as one of the smallest.

UNESCO: The capital city of Malta is Valletta. It is the smallest capital city in the European Union. Referred to in Maltese as Il-Belt, the city, Valletta is essentially Baroque in its character. It is listed as a world heritage site by UNESCO. **Valletta will be the European Capital of Culture in 2018.**

Water quality and supply improvement project

Through this project the Corporation will water quality and its monitoring capabilities. Reverse Osmosis membranes will be upgraded and Ultra Filtration equipment installed at Wied il-Kbir and Tal-Hlas.

The WSC laboratory will also be upgraded thus enabling a wider range of tests to be carried out. These measures are interlinked and complimentary to each other thereby contributing towards improving operational efficiency and providing a better service to the customer.

www.wsc.com.mt/Current-Projects

Carbon footprint reduction project

This project consists of measures aimed to reduce the carbon footprint of the Water Services Corporation. Pumping huge volumes of water all around the Maltese Islands needs a lot of electrical energy. This not only costs money but it also produces CO2. This project will reduce frictional energy losses in pipes by upgrading the pipeline between the Ta' Bakkja Pumping Station and the Ta' Qali Reservoir, the transfer pipeline between Ta' Qali and Naxxar Reservoirs and the transfer pipeline between Hondoq Booster and Ta' Cenc Reservoir in Gozo.

Art Exhibition

"WATER AS
A SOURCE OF LIFE
AND INSPIRATION"

National Water Conservation
Awareness Centre

Opening on 7th September,
and running through the
whole month of September
Opening hours:
9:00 - 16:00hrs (weekdays)

For more info check
energywateragency.gov.mt

€5
billion

**More sustainable
resource use could net
electricals sector €5 billion**

The electrical and electronic equipment industry could benefit by up to €5bn from using resources more sustainably and improving on re-use and consumer take-back schemes, research by UK organisation WRAP has estimated.

Source: www.dailyplanet.climate-kic.org



Professional Education

Climate-KIC professional education courses are international, stimulating and practitioner-oriented. Main skills and competencies trained within our professional education programmes are designed to enable practitioners to think outside the box, and create new climate-friendly innovative solutions to own or peer's challenges.

In 2017 Climate-KIC is implementing ten professional education courses throughout the year. This includes both 1-3 day Spotlight courses and 5-day Catalyst courses.

For further information and registration

www.learning.climate-kic.org/professional-education

For residents of Malta, the normal course fees do not apply.

To succeed in innovation processes, transversal competencies are needed that transcend mere scientific knowledge: managing context for creativity, guiding co-creation processes and leading innovation among others are key to working in a transdisciplinary way on generating new ideas. These skills will enable societal actors and employees to exploit innovations at the interface with other disciplines and industries.

Certified Professional an Innovative European Certification Programme

The European policy agendas have identified transversal skills and competencies as key to foster sustainable change in the European job market. Against this background, Certified Professional introduces a pan-European standard for key competencies for the postgraduate job market focussing on sustainable change.

The European Certification programme will measure and certify a new set of competencies to make key actors fit to tackle climate change challenges on multiple societal layers:

- Certification Programme for "Accelerating Sustainable Transitions" in particular emphasizes competencies for driving systemic change through key actors such as European city networks on a macro level.
- Certification Programme for "Promoting Sustainable Innovation" addresses creativity competencies to foster the development of new innovative products, processes, or services that can have implications for an entire system.
- Certification Programme for "Driving Sustainable Entrepreneurship" focuses on essential entrepreneurship competencies that are needed to boost change through bottom-up processes on start-ups and organisational level.

Spotlight

The Spotlight courses are short and comprehensive educational programmes, ranging from 1-3 days. The programme focusses on a specific innovation or transition challenge – and aims to increase specific competencies (knowledge, skills, attitudes) for climate innovation.

Accessing new low carbon energy markets:
Birmingham, Great Britain, **9 -10 October 2017**

Biomimicry:
How to mastermind blue-green infrastructure:
Limassol, Cyprus, **13 - 15 October 2017**

Advanced business models for climate friendly technologies and innovation:
Valencia, Spain, **19 - 20 October**

Greening your business. Embedding sustainability into business model innovation:
Bologna, Italy, **18 - 20 October 2017**

Copernicus: from geospatial to agribusiness:
Bologna, Italy, **25 October 2017**

Copernicus: from geospatial to smart cities:
Bologna, Italy, **26 October 2017**

Innovations for low carbon transitions:
Wroclaw, Poland, **30 - 31 October 2017**

Impact Players - Gamification for a greener city:
Budapest, Hungary, **30 November - 1 December 2017**



Catalyst

The Catalyst Courses bring together professionals/ entrepreneurs facing similar challenges for sharing and transfer of best practice to enhance their projects, strategies and skills on managing innovation. It is a 5-day coached residential workshop, accompanied by online modules. Participants work intensively and in a trans-disciplinary setting on specific "bring your own cases".

Professional skills for the transition to a circular economy. A systematic approach to water management:
Valencia, Spain, **16 - 21 October 2017**

Sustainable City – responsible leadership:
Wroclaw, Poland, **20 - 25 November 2017**

Sustainable innovation in agrofood industry:
Budapest, Hungary, **27 November - 2 December 2017**

Online Educational Courses

Climate-KIC offers a range of Free courses focussing on many aspects of climate change. These courses are open to anyone who is interested and offer educational content. Current courses available include amongst others:

- 1. E-Waste Challenge:** With our growing appetite for electrical and electronic products, combined with rapid innovation and ever-shorter product lifespans, e-waste has now become one of the fastest growing waste streams.
- 2. System Innovation:** The learning material will support you to develop your skills related to facilitation, in order to enable you to better manage multi-functional teams and complex stakeholder environments.
- 3. Supply Chain:** The GRI Supply Chain course is designed to support individuals and organizations that want to better understand how to take action to promote sustainability and transparency in their supply chain, and the role of sustainability reporting using GRI Standards.
- 4. Biodiversity:** This course will help you develop your understanding of the sustainability context and the content of the GRI Sustainability Reporting Standards for the GRI Aspect: Biodiversity.

Climate-KIC Events

Paragon Europe and Climate-KIC continuously throughout the year organise a number of events focussed on encouraging greater co-operation amongst local stakeholders, looking at the challenges we face and innovative ways to tackle these. The forthcoming events both locally and internationally are focussed on Urban Transitions and other key priorities we are seeking to address in 2017.



Low Carbon City Lab (LoCaL) Partner Day Denmark, 19th September 2017

Climate-KIC's Low Carbon City Lab (LoCaL) Flagship is holding a partner day on Tuesday 19 September. This event will seek to bring Climate-KIC partners working in the city space together to identify challenges and provide solutions for financing low carbon and climate resilient cities.

This partner day aims to

- Bring old and new partners together
- Promote and identify synergies in our existing portfolio
- Develop ideas for the next project intake

The event will take place at Copenhagen, Denmark. Venue TBC.

To register and participate in this event:

www.climate-kic.org/events/low-carbon-city-lab-local-partner-day/

Attendance to the partner day is free and open to all Climate-KIC partners and interested future partners.



Transitioning to Smart Sustainable Districts Workshops

Malta, 13th – 14th September 2017

Applying Smart & Transition models to Valletta

The City has embarked in a transition process to become a smart sustainable city. The challenge is to map all current and future initiatives through an integration exercise enabling all stakeholders to assess which pilots, projects and demonstrations can really offer the best solutions for the city. Integration of the current initiatives GrowSmarter, Destinations (H2020), Sustainable Energy and Climate Action Plans (SECAP) and others will also support Valletta in preparing to be European Capital of Culture in 2018.

The event will take place in Valletta, venue to be confirmed.

www.maltalifesciencespark.com

To register and participate in this event, please contact contact our Project Manager, Gonca Kara Demir gonca.kara@paragoneurope.eu

This event is free to accepted delegates.



Ideation Day – Malta, 29th September 2017

How to increase energy efficiency in the Mediterranean's buildings and the tourism sector

Existing buildings represent significant energy saving opportunities because their performance level is frequently far below current efficiency potentials. As such, deep retrofit of buildings is one of Climate-KIC's Thematic Priorities for 2017. For the Mediterranean area, energy efficiency is inevitably linked to buildings and tourism, as they tend to have the most energy-inefficient infrastructures which leads them to be highly energy-intensive.

This ideation event which will bring business propositions tackling energy efficiency in buildings and the tourism sector to the attention of potential investors and fund managers. The event will spot threats and weaknesses of the business potential of the ideas presented, stimulating a co-creation exercise which will sensibly accelerate the uptake of these solutions from the market.

The event will take place at The Malta Life Sciences Park, San Gwann, Malta. www.maltalifesciencespark.com

To register and participate in this event, please contact contact our Project Manager, Gonca Kara Demir gonca.kara@paragoneurope.eu

This event is free to accepted delegates.



Climathon – Malta, 27th October 2017

Ideate. Collaborate. Become part of a Global Community. All in 24 hours

Climathon is a global 24-hour climate change hackathon which will take place simultaneously in major cities around the world on 27 October 2017. Now its third year of operation, the Climathon movement has grown tremendously over the past two years, encouraging more innovators across the globe to drive climate action. Climathon has grown from 19 to 59 cities in the space of a year, operating across 6 continents, creating over 2330 ideas and reaching 16.8 million people worldwide in 2016.

Each city sets its own local climate challenge that reflects what affects their urban life the most. Challenges can vary from air quality, water and waste management, and extreme weather events, use of city satellite data, etc. Participants then tackle the set challenge for a full 24-hours, before pitching their ideas in front of relevant local stakeholders. These ideas can develop into tangible sustainable solutions and businesses that address city climate challenges across the globe.

Find inspiration for your challenges in the 4 thematic areas of Climate-KIC: **Urban Transitions, Sustainable Land Use, Sustainable Production Systems and Decision Metrics & Finance.**

The event will take place in Valletta, venue to be confirmed.

To register and participate in this event, please contact contact our Project Manager, Gonca Kara Demir gonca.kara@paragoneurope.eu

This event is free to accepted delegates.



Malta Stakeholder Events

What's happening in Malta?

The following forthcoming local events are organized by the Malta College of Arts, Science & Technology (MCAST).

Established in 2001, the Malta College of Arts, Science and Technology (MCAST) is Malta's leading vocational education and training institution. Through six institutes in Malta and the Gozo Campus, MCAST offer 185 full-time and over 300 part-time vocational courses ranging from certificates to degrees (MQF Level 1 to Level 6). Students are prepared for careers in different sectors of the economy or for higher education. MCAST collaborate closely with local industries to ensure that the knowledge, skills and competencies within curricula are appropriate and relevant to a dynamic and forward-looking economy.

Summer School

4th to 7th September 2017

Why water-agriculture sectors?

An intensive course of 4 full-days that brings together higher education students, young researchers, professionals, representatives of businesses, policy makers and civil society representatives who will be learning, debating and sharing experiences about strategic and practical issues related to water-agriculture sectors.

The event will take place at Paola, Malta.
To register and participate in this event:
www.fowarim.eu or contact via email [fowarim.summerschool@gmail.com](mailto:summerschool@gmail.com)
The summer school is free of charge

Conference

7th September 2017

The MCAST Energy Day Conference

The MCAST Energy Research Group (MCAST-ERG) specializes in global and regional solutions by innovative devices in emerging technologies, systems level integration to policy engagement for a better community. Keynote speakers will discuss a range of topics including Wave Energy, Energy Efficiency in Buildings, Micro-Grids and Smart Grids.

The event will take place at The Auditorium, MCAST, Malta (www.mcast.edu.mt)
To register and participate in this event:
forms.office.com/Pages/ResponsePage.aspx
Main contact: Dr Ing. Brian Azzopardi
brian.azzopardi@mcast.edu.mt
This event is free to accepted delegates.

Summit

18th to 20th October 2017

The 10th International Summit on Stability of Organic and Perovskite Solar Cells (ISOS-10) '17

ISOS has been running since 2008 and has rapidly become one of the most attended workshops in the field of third generation solar cell technology, bring together an expert community both from industry and academia. Keynote speakers will discuss a range of studies on Real World Applications (Field Installations, BIPV, Portable Devices), Testing against IEC and ISOS Standards, Accelerated Laboratory Aging, Detailed Analysis of Degradation Mechanisms.

The workshop will take place at The Cavalieri Art Hotel, Spinola Road, St Julian's Malta.
To register and participate in this event:
www.isos10.mcast.edu.mt/isos10/

Request for Expressions of Interest - Carbon Reduction

Paragon Europe is inviting organisations, entrepreneurs and start-ups to express their interest in providing solutions aimed at delivering a Zero Carbon Economy. You must be able to demonstrate an innovative approach to the application of new or existing solutions to help us meet the Climate Change challenge.

If you can demonstrate solutions that will have a high impact at minimum cost in tackling carbon emissions in areas such as Energy Efficiency, Renewable and Digital Energy, Water treatment and management, Waste management and Waste to Energy, Transport and Electric Mobility, Agriculture and Tourism, we want to hear from you.

Please contact - Mark Anthony Brown MBA, Climate-KIC Network Developer at mark.brown@paragoneurope.eu