

## Press Release

### *Reef Support* Wins the Copernicus Masters 2020 Competition

## Copernicus Data and AI to Protect the World's Coral Reefs

Celebrating its 10th iteration in 2020, the international innovation competition Copernicus Masters awarded prizes in 22 categories to outstanding products and services based on Earth observation data. All the winners presented their ideas at the Space Pitches session, and nine challenge winners were honoured during the online Space Awards on 8 December as part of European Space Week 2020. *Reef Support* is an automatic warning system that uses artificial intelligence and satellite imagery to detect coral bleaching, algal blooms, sediment plumes, and debris caused by humans. This pioneering technology was crowned the overall winner of the Copernicus Masters 2020.

Gilching, 8 December 2020 – Coral reefs around the world are not only crucial to maritime biodiversity as the habitats of many species of fish, algae, and other marine life. They also have great economic significance as rich fishing grounds, attractive tourist destinations, and natural coastal protection barriers.



*The Team of Reef Support (from left to right): Crystle Wee, Yohan Runhaar, Marcel Kempers, Marijn van der Laan, Eilidh Radcliff, © Reef Support*

*Reef Support* addresses both the environmental and economic aspects at hand with state-of-the-art technology. Its user-friendly online monitoring and maintenance tool uses AI and satellite imagery to track coastal reef health and also provides guidelines for crowd and pollution control, debris management, and coral restoration. Different types of data can be combined to form a picture of reef ecology across a wide range of spatial and temporal scales. The *Reef Support* platform can be used for strategic planning and resource management in aquaculture farming, as well. Its deep learning algorithm adapts to user applications and regional tendencies. Small business owners can quickly access its subscription-based service, which is available for both iOS and Android. After winning the

Copernicus Prize the Netherlands, this innovative startup edged out more than 200 other ideas to become the overall winner of the Copernicus Masters 2020.

### Copernicus Masters driving new EO businesses

Acting as “Europe’s eyes on Earth”, the Earth observation programme Copernicus provides open access to up-to-date information that can help better understand and sustainably manage our planet. Companies and entrepreneurs can benefit from vast amounts of data related to climate, atmosphere, land, marine, security, and emergency management in developing new solutions for global challenges. Since 2011, the Copernicus Masters has been driving entrepreneurial talent and new business models that are needed to convert EO data into sustainable services for a wide variety of industries.

“Copernicus Masters has proven to be the perfect instrument to reach entrepreneurs to become a reality in Earth Observation and tackle challenges such as climate change, technology revolutions, shifts in geopolitical power or humanitarian crises, and to support economic growth, safety and security, quality of life and sustainable development,” stated Jan Wörner, ESA’s Director General, in a statement for the Copernicus Masters results brochure.



This year, the Copernicus Masters featured nine Challenges presented by first-class industrial and institutional partners, along with 13 Copernicus Prizes powered by the European Commission (EC) and organised by regional Prize Partners as part of a growing network of 107 European affiliates. “Prize Competitions will be further expanded under the new European Commission Space Entrepreneurship Initiative CASSINI. A major pillar of this initiative is to put in place a European Space Fund of EUR 1 Billion is to boost

*The Copernicus Masters Prize Partner Network, © AZO*

start-ups and SMEs, in order to improve access to finance and dedicated seed and scale-up funding”, stated the European Commissioner for Internal Market, Thierry Breton in his opening speech at the Space Awards Ceremony.

In the 2020 competition, 591 participants from 47 countries submitted 220 new Earth observation business cases and application ideas. The winners of the nine Challenges held by the Copernicus Masters partners were recognised during the Space Awards by high-ranking industry and institutional representatives from the likes of the European Space Agency (ESA), the European Commission (EC), the German Aerospace Center (DLR), Planet, BayWa AG, Airbus and sobloo, the German Federal Ministry of Transport and Digital Infrastructure (BMVI), and AZO Anwendungszentrum GmbH Oberpfaffenhofen, the organiser of the Copernicus Masters.

“The Copernicus Masters has given a significant boost to the rise of the Earth observation industry in Europe,” explained Thorsten Rudolph, CEO of AZO. “Out of the more than 4,300 innovative ideas that have been entered since 2011, the top 100 companies have created more than 2,800 jobs and

generated EUR 153 million in total turnover in 2019. In recent years, these companies have also raised around EUR 274 million in venture capital.”

The Copernicus Masters’ close cooperation with institutional, industrial, and regional partners promotes the development of high-tech EO products and services for Europe on a global scale. Next year’s submission phase will start on 1 April 2021.

#### **About the Copernicus Masters**

AZO Anwendungszentrum GmbH Oberpfaffenhofen launched the Copernicus Masters in 2011 on behalf of the European Space Agency (ESA) with the strong support of world-class partners. The Copernicus Masters is an international competition with the objective to drive Copernicus User Uptake of Earth observation (EO) data and thus respective business cases. With partners such as European Space Agency (ESA), the European Commission (EC), the German Aerospace Center (DLR), Planet, BayWa AG, Airbus, and the German Federal Ministry of Transport and Digital Infrastructure (BMVI), the competition awards prizes to innovative solutions for business and society. With the expansion of the Copernicus Space Component every year, new prize categories enable solutions that tackle global challenges. For more information [www.copernicus-masters.com](http://www.copernicus-masters.com).

#### **About AZO**

AZO Anwendungszentrum GmbH Oberpfaffenhofen is an international networking and branding company initiating the most important space-related innovation competitions with more than 15,000 participants, over 200 industrial & public - and 400 international stakeholders. The Masters Series, presented by AZO consists of the Galileo Masters, Copernicus Masters, and INNOspace Masters. Additionally, AZO organises the Copernicus Hackathons by the European Commission. AZO runs a very successful business angel network which invested more than EUR 500 million Venture Capital in since 2016. Additionally, AZO manages its ESA Incubation Centres (ESA BIC) Bavaria and Northern Germany. The ESA BIC Bavaria incubation programme has supported more than 185 company foundations solely in Bavaria to date. Since May 2019, AZO jointly operates the ESA BIC Northern Germany (NG) located in Bremen. For more information, please visit [www.azo-space.com](http://www.azo-space.com).

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