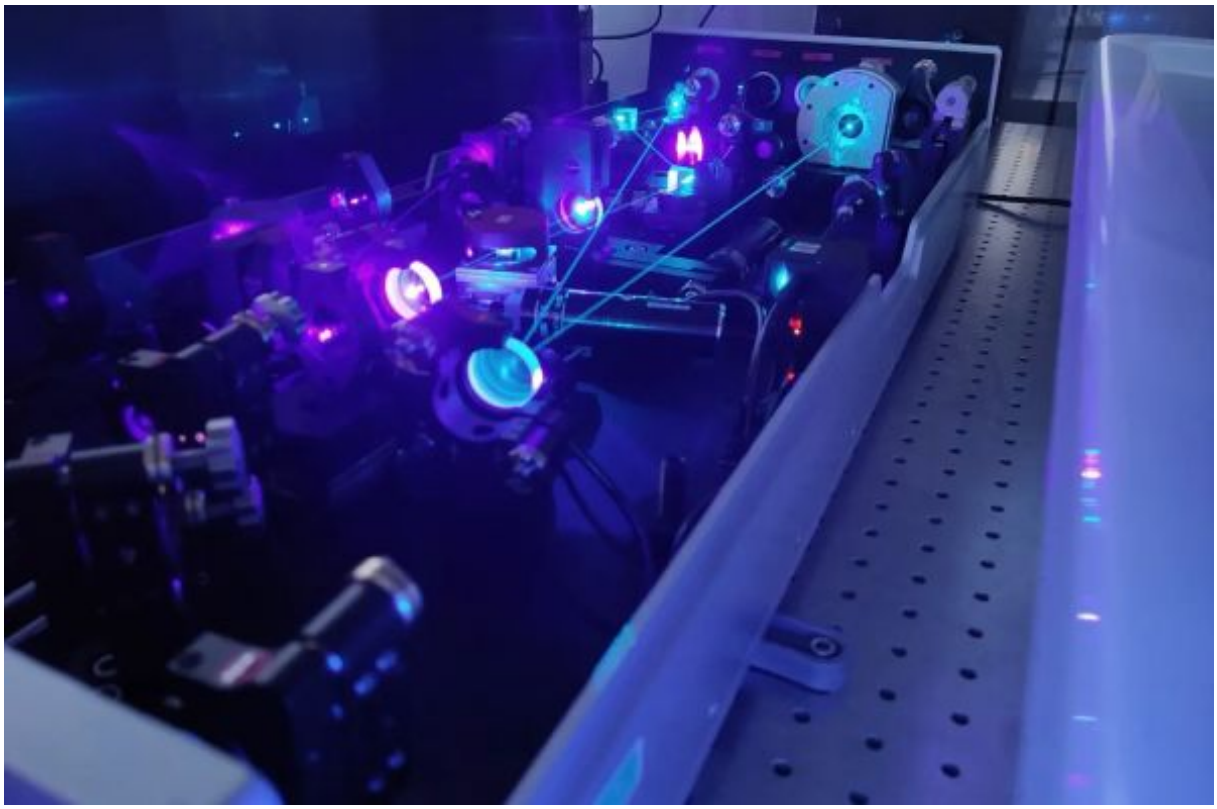

ICFO spin-off Radiantis is acquired by Hawthorn Photonics

Hawthorn Photonics announces a strategic acquisition of Radiantis to expand its Photonics Solutions Portfolio along with Covesion and AdvR.

July 16, 2025

Hawthorn Photonics, a global leader in nonlinear optical solutions and parent company of Covesion Ltd. in the UK and AdvR Inc. in the US, has acquired Radiantis, the first spin-off company of ICFO, innovator in advanced tunable laser technology and Optical Parametric Oscillators (OPOs). This acquisition signals a major step forward for the group as it strengthens its position at the forefront of photonics innovation.

Radiantis, the brainchild of ICREA Prof. at ICFO Majid Ebrahim-Zadeh, was created in 2005 with the goal of transforming his academic research into innovative technology. Two decades on, Radiantis is a leading supplier of start-of-the-art solutions for laser tuning worldwide, offering best-in-class OPOs and frequency conversion sources including various harmonic generators. The turnkey systems offered by Radiantis are capable of addressing the

difficult spectral regions from the UV to the mid-IR, which are not available to lasers, and cover all temporal domains from the continuous-wave to ultrafast femtosecond time-scales. With this acquisition, all three companies, **Covesion, AdvR, and Radiantis**, are united by a shared vision: to **deliver high-performance, cutting-edge solutions for the rapidly evolving photonics sector**. The renowned expertise of Radiantis in state-of-the-art OPOs and tunable laser systems enhances the group's existing portfolio of wavelength conversion technologies and phase modulators.

i¿½The acquisition of Radiantis represents an opportunity to accelerate our growth and innovation,i¿½ said Mike Day, President at Hawthorn Photonics. i¿½By integrating Radian is' advanced technologies and talented team, we're strengthening our ability to del ver cutting-edge solutions that meet the ever-evolving and complex demands of the photo ics commuiii¿½

Working for more than twenty years in the field of nonlinear optics, ICREA Prof. at ICFO Majid Ebrahim-Zadeh, where he served as President and Scientific Advisor, with Dr. Sara Otero as CEO. He is absolutely i¿½thrilled to share the news of acquisition of Radiantis by Hawtho n Photonicsi¿½. For him, this acquisition signifies i¿½an exciting milestone in the twent -year history of Radiantis. I am proud that during the past twenty years Radiantis has em loyed over thirty personnel including several talented PhD graduates from ICFO wh have contributed to the success of the company. This acquisiton represents a str tegic partnership with strong synergy, complementary expertise and shared vision, whic will enhance innovation, heralding a new era for Radiantis, expanding its technology pl tform and accelerating growth. I am committed to this new challenge and an exciting futu e for Radia

tis." With the addition of Radiantis' competencies to Covesion and AdvR the group will now offer an expanded suite of photonics solutions, incl

Tunable laser systems for spectroscopy and imaging applications.
Optical parametric oscillators (OPOs) to generate broadly tunable, coherent light with high power and wavelength versatility.
Advanced nonlinear crystals and waveguides designed for second harmonic generation (SHG), difference frequency generation (DFG), and a wide range of other non-linear applications.
Phase modulators for visible wavelengths.

Together, the companies are ideally positioned to provide a comprehensive range of solutions for applications spanning quantum technologies - quantum computing, biophotonics, medical imaging, industrial processes, environmental monitoring, and advanced scientific research.

Radiantis' skilled team of engineers and scientists will join Covesion and AdvR and by

combining their unique set of capabilities, the Hawthorn Photonics Group will be able to deliver a **broader range of high-performance, reliable solutions to new and existing markets**. Radiantis brings a strong reputation for excellence, with its products widely recognised for their precision, stability, and innovation. The integrated knowledge and resources of the three organisations creates a centre equipped to meet the growing demand for next-generation photonics systems.



Members of the Radiantis Team with Prof. Majid Ebrahim-Zadeh in the middle row, and Dr. Sara Otero in the last row on the right. Image credit: Radiantis.