

## Report: Industrial workshop: “Solving pressing industrial challenges using mathematical modelling”

Our industry-academia workshop was a great success. The workshop brought together companies and researchers with a mathematical background and it was held at the Cyprus Chamber of Commerce and Industry (CCCI), who were also co-organisers in order to maximize company attendance. M-NET, the [UK in Cyprus - British High Commission Nicosia](#) and the [Cyprus University of Technology / Τεχνολογικό Πανεπιστήμιο Κύπρου](#) were co-organisers of the event. The workshop’s main was to highlight in an accessible way several successful collaborations between universities and companies from various countries and act as a catalyst for such collaborations in Cyprus.

Several very interesting success stories were delivered by international and local experts; the plenary speaker was Prof. Demetrios Papageorgiou, Chair of Applied Mathematics at Imperial College London, and the invited speaker Dr [Ian Griffiths](#), Royal Society University Research Fellow at the Oxford Centre for Industrial and Applied Mathematics (University of Oxford). The workshop was addressed by Mr Leonidas Paschalides, Senior Director at the CCCI, HE Matthew Kidd the British High Commissioner, and Dr [Katerina Kaouri](#) on behalf of MI-NET.

The workshop was attended by more than 60 participants and more than 10 represented companies.

The workshop was also designed as a follow-up activity of the [1st CY Study Group with Industry](#) (125th European Study Group with Industry - ESGI125 which was also funded by MI-NET). In ESGI125 the Cypriot companies Water Development Department, [Engino](#), [OSEL](#), and Party Ice worked intensively together with 50 researchers from 17 countries; at the industrial workshop these industry-academia collaborations and their impact were briefly presented by Dr Katerina Kaouri (Cyprus University of Technology), who was the Chair of the ESGI125 Organising Committee. Dr [Margarita Zachariou](#) (Cyprus Institute of Neurology and Genetics), who was the Vice-Chair of the ESGI125 Organising Committee, presented the concept of the Maths in Medicine Study Groups, workshops where medical challenges are solved by mathematical scientists.

Subsequently, Mr [Andreas Athanasiades](#), General Manager of OSEL and Dr [Ioannis Kyriakides](#) from the University of Nicosia presented the important challenge of improving bus routes in urban Nicosia, Dr Nikos Ploskas from Carnegie Mellon (MI-NET MC member) demonstrated how with math. modelling they helped Mitsubishi improve their heat exchangers, and finally [Petros Sorokkos](#) from KPMG Cyprus presented the new EU-funded project Science Shops, a platform facilitating collaborations between academia, society and industry. The event concluded with a lively discussion and a networking session that enabled the participants to connect and identify together new industry-academia collaborations. After the workshop, some companies contacted the organizing committee in order to explore opportunities of collaboration.

The workshop was supported by several stakeholders who can play a role in the further development of industrial mathematics in Cyprus – the [Research Promotion Foundation](#), the [Enterprise Europe Network](#), the [Cyprus Association of Research and Innovation Enterprises](#), [KPMG Cyprus](#), [RTD Talos Ltd](#), [Centre for Entrepreneurship - C4E](#), [University of Cyprus](#), [Πανεπιστήμιο Κύπρου | University Of Cyprus \(Engineering School\)](#), [The Cyprus Institute of Neurology and Genetics](#), the [Cyprus Mathematical Society](#), the [Thales Foundation](#) and [Oxford University Society in Cyprus](#)

More info: <https://industry-academia.esgi-cy.org/>, [www.esgi-cy.org](http://www.esgi-cy.org)