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8th KETGATE Newsletter

CE1188 Central European SME Gateway to Key-enabling technology
infrastructures - sparking a new transnational KET Innovation Ecosystem

Project Aim

Enabling a Central Europe - wide access to highly competent KET
technology and infrastructure services for SMEs irrespective of their
location

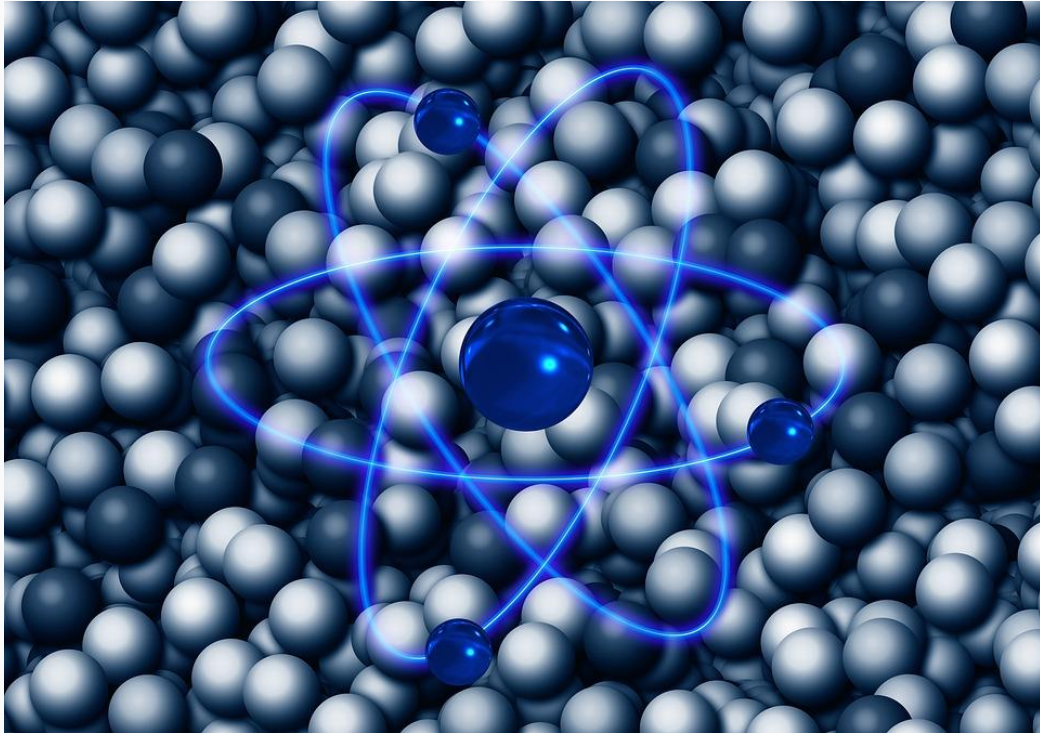
PROJECT NEWS



NATURAL GAS-POWERED VEHICLES BETTER THAN EVs, DIESEL, AND PETROL SAYS ADAC

A new study by the German Automobile Club reveals that natural gas-powered vehicles are currently the least contaminating when you take all factors into account. Natural gas-powered vehicles are followed by electric and diesel cars, which are almost on the same level. Only when the electricity used is 100% regenerative, electric car show a significantly better balance than all other types of drive. This is the result of the current life cycle analysis conducted by Joanneum Research.

[\(READ MORE\)](#)



RESEARCHERS AT JOZEF STEFAN INSTITUTE DISCOVER NEW KIND OF MATTER BASED ON "ELECTRON JAMMING"

A group of researchers from the Jozef Stefan Institute has discovered what they describe as entirely new kind of matter that cannot be understood with existing physics and which opens up an entirely new field. The paper was published in the issue of *Nature Materials*.

[\(READ MORE\)](#)

52. MOS

10.–15. september 2019

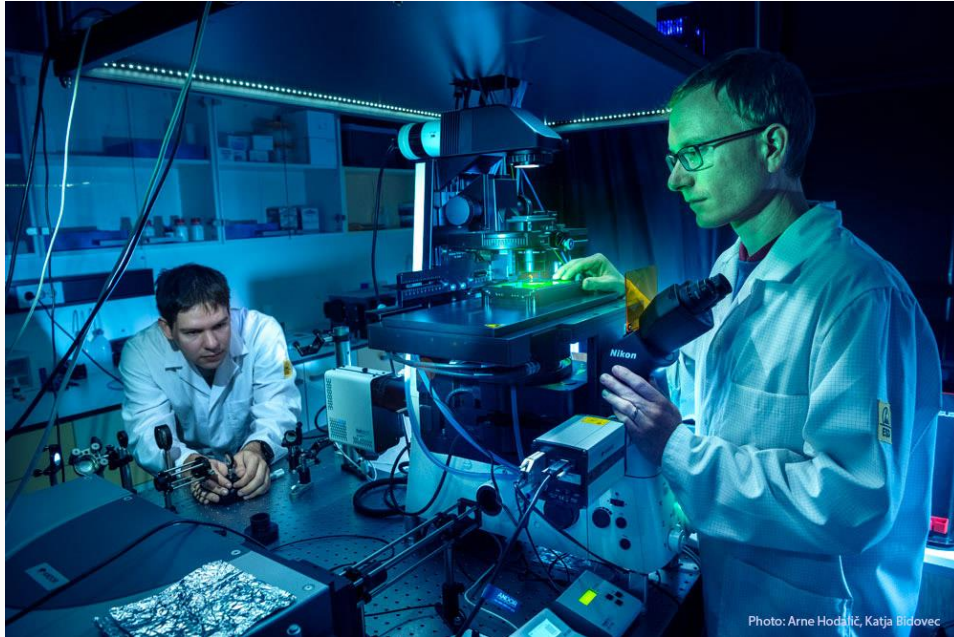
CELJE SHOWGROUND



JOZEF STEFAN INSTITUTE AT THE 52ND MOS FAIR

The Jozef Stefan Institute presented itself at the 52nd International MOS Fair in Celjsje, Slovenia. Main Slovenian research institution showed their research progress in the fields of micro, bio and nanotechnologies as well as space technologies. This year, the expert commission of Celje Fair has given a special award for the comprehensive presentation of new technologies and technological process and examples of good practices in connecting science with industry. The gold award was given to Janez Skrlec, for innovation in the field of bionics in connection with the technological world of modern medicine, and the Chemical Institute for Innovation in the field of nanotechnology and hydrogen cells.

[\(READ MORE ABOUT THE EVENT\)](#)



"CELL LASERS" AS A NEW WAY TO BE IMPLANTED INTO HUMAN BODIES

Dr. Matjaz Humar, Head of the Laboratory for Biointegrated Photonics and the fellow of the Jozef Stefan Institute's Department of Solid State Physics, won the prestigious European Research Council (ERC) Starting Grant worth EUR 1,5 million.



12th INTERNATIONAL TECHNOLOGY TRANSFER

CONFERENCE IN LJUBLJANA, SLOVENIA

Jožef Stefan Institute organizes 12th International Technology Transfer Conference (ITTC) took place in Ljubljana, Slovenia between 9th and 11th of October 2019. The aim of ITTC was to promote knowledge exchange between academia and industry, in order to strengthen the cooperation and transfer of innovations from research labs into industrial exploitation. In past events, more than 2500 participants were hosted, including investors, inventors, researchers, commercialization experts, start-up funders, industrial development experts, etc. Every year competitions are organized to award the technology with the best business proposition, which led to successful start-ups and licensing contracts, and to 11 annual awards of CCIS for best innovation.

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MEET THE BUSINESS SUPPORT ORGANISATIONS



TERA TEHNOPOLIS

TERA Tehnopolis is a joint-venture of the Josip J. J. Strossmayer University of Osijek, the City of Osijek and the Osijek-Baranja County. The activities of the Centre especially focus on the development of knowledge-based economy implementing significantly improved technologies (products, services and

processing), including the commercialization of publicly funded research conducted by the university and the protection of intellectual property.

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KETGATE POINT SERVICES

Within the following newsletters, we would like to give you an overview of the different services offered by the KETGATE Points in Central Europe. The KETGATE project partners have elaborated two service packages: One service package dedicated to SMEs and one service package for Research and Technology Organisation (RTO). In this edition of the newsletter, we would like to present you service #3:

SME SERVICE #3

SME SERVICE 3: STRENGTHENING RTO-RTO COOPERATION FOR THE BENEFIT OF THE SMES



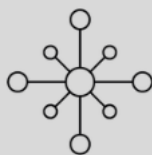
GOALS: to strengthen the relationship between complementary RTOs to offer better services to SMEs, to use synergies within RTOs and facilitate the access of KETs to SMEs.

TOOLS:



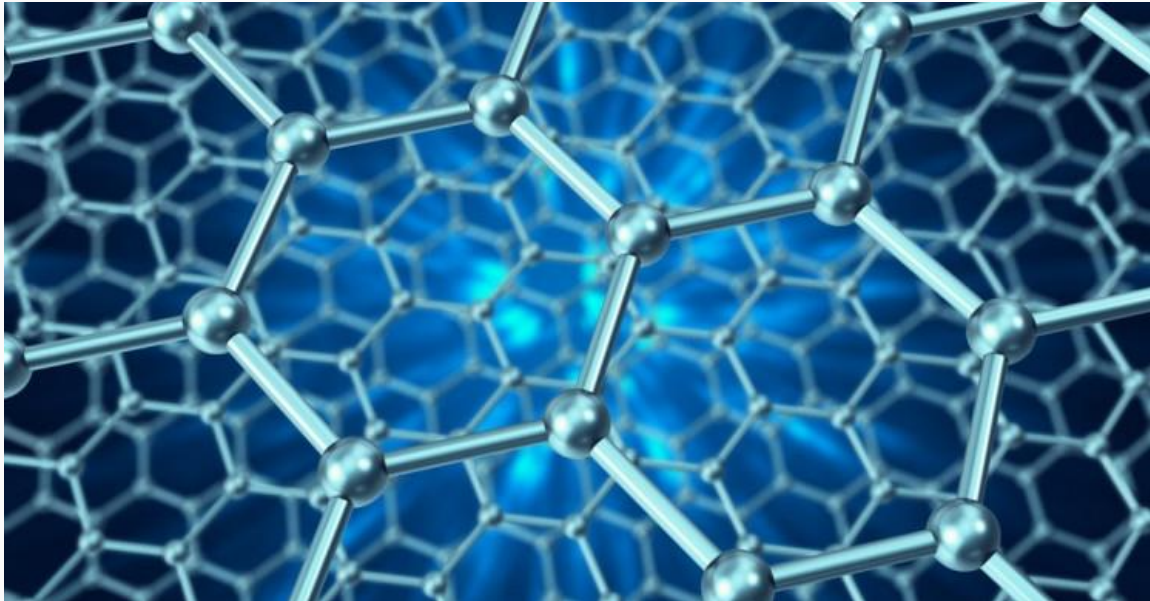
The tool includes simple contract signing procedures where more than one RTO offers the service to the SME. The RTOs will have a cooperation agreement. In this cooperation agreement, the IPR should also be defined from the beginning in order to avoid conflicts. Only one of the RTOs signs the contract with the SME. The other RTOs are subcontracted for the services that they offer. The SKAPs will offer standardized cooperation agreements and contracts between RTOs and between RTOs and SMEs.

LINK WITH OTHER SERVICES:



The RTO-RTO tools for the online matching and matchmaking events work in the same way as the RTO-SME cooperation tools. The tools are used to communicate within the KET-RTOs.

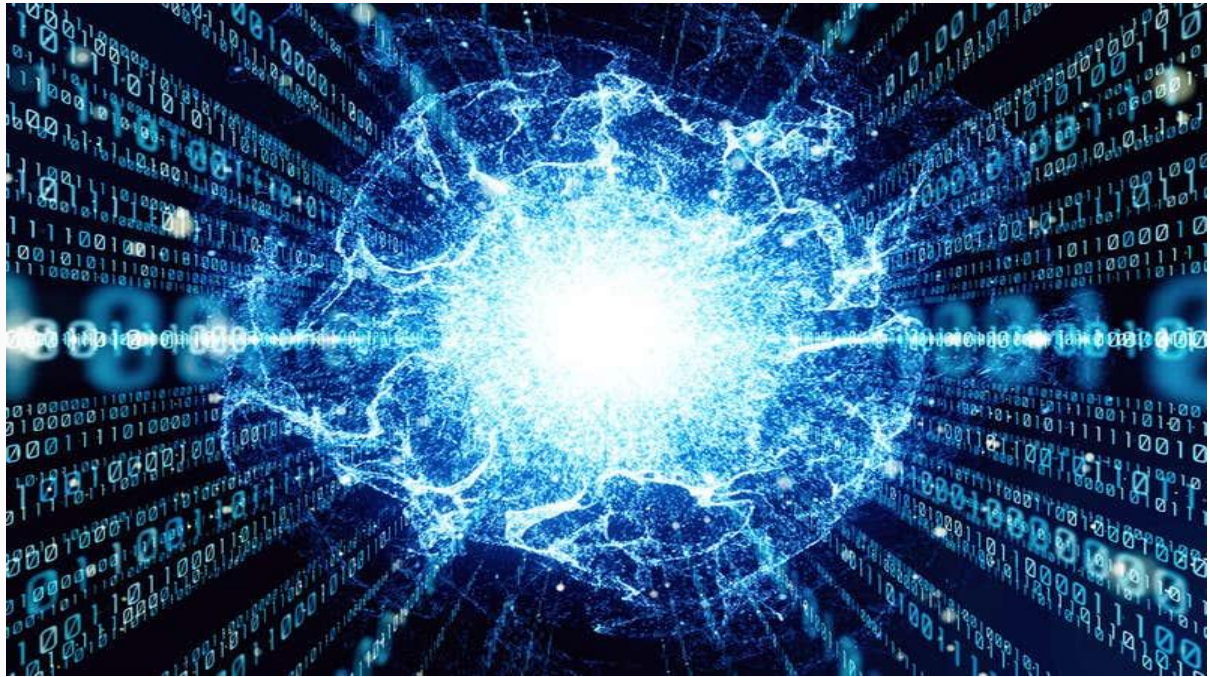
FAVOURITE READS ON KETS



GRAPHENE CAN ALSO BE VIEWED AS A 3D MATERIAL, NEW STUDY CLAIMS

The new research could help in the discovery of new uses for the "wonder material". Understanding the properties and dimensions of graphene is important for understanding novel ways in which the extremely thin, potentially world-changing material can be used. Now, a new study from researchers at Queen Mary University of London claims that Graphene is a 3D, as well as 2D material:

[\(READ MORE\)](#)



GOOGLE CLAIMS IT HAS FINALLY REACHED QUANTUM SUPREMACY

This could be the dawn of a new era in computing. Google has claimed that its quantum computer performed a calculation that would be practically impossible for even the best supercomputer - in other words, it has attained quantum supremacy. If true, it is big news. Quantum computers have the potential to change the way we design new materials, work out logistics, build artificial intelligence and break encryption.

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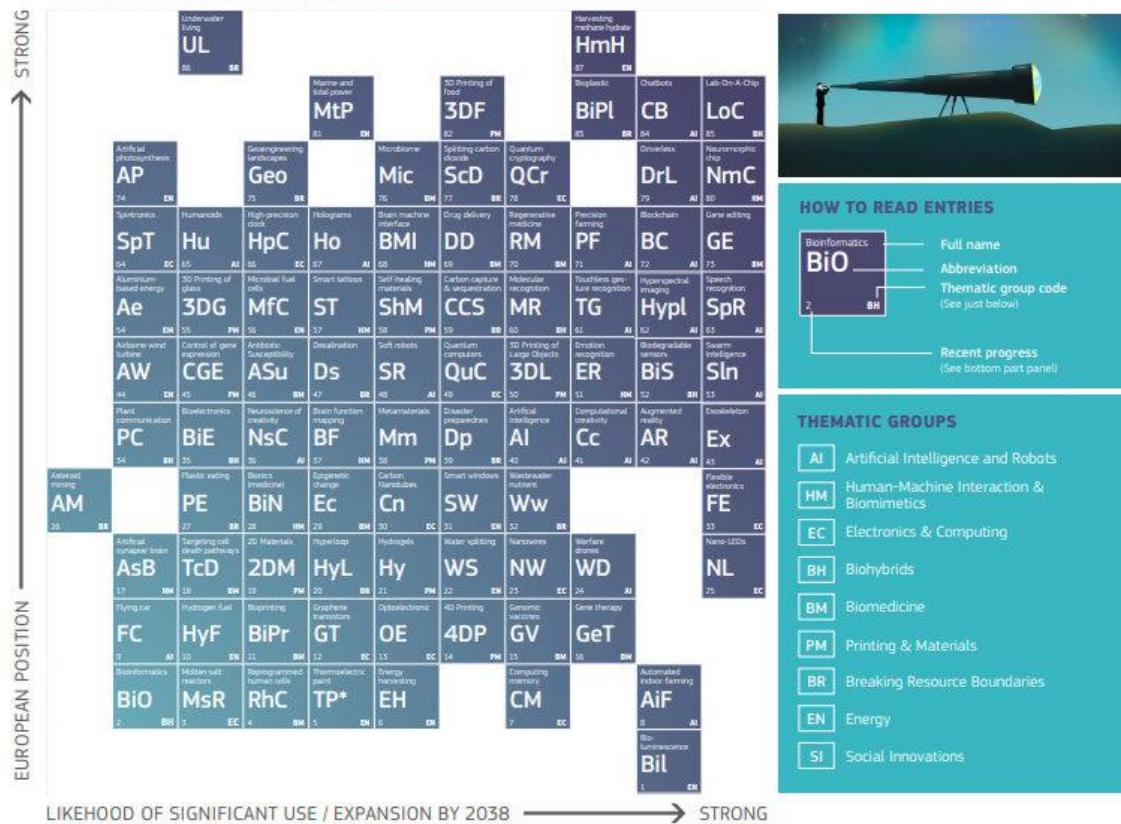
QUANTUM COMPUTER



WHAT IS A QUANTUM COMPUTER?

TABLE OF RADICAL INNOVATIONS BREAKTHROUGHS

A dashboard of 100 emerging developments offering strong impact on global value creation and potential solutions to societal needs



WHAT ARE THE TECHNOLOGIES THAT WILL RESHAPE OUR WORLD? INDEPENDENT EXPERTS IDENTIFY 100 OF THEM

The report is a foresight study displaying the progress and outlook for 100 ground-breaking social and technological innovations. Some of the innovations, such as plant communication, are a long way off. Others, such as medical exoskeletons, are already being tested and used.

[\(READ MORE\)](#)



RECOMMENDED EVENTS

High-growth technology business conference 2019

Boosting your strategy with intellectual property

4-5 November 2019
Dublin

**04-05.11.2019, HIGH-GROW TECHNOLOGY
BUSINESS CONFERENCE 2019, DUBLIN**

Patents are a cornerstone of a multitude of growth strategies and instrumental in enabling value creation transactions. Integrating good practices in intellectual property (IP) strategy that involves decision-makers, IP professionals and external partners into the broader business strategy is key to using IP to generate value for high-growth technology enterprises.

This conference, jointly held by the EPO and the Licensing Executives Society International (LESI) with support of the government agency Enterprise Ireland, provides a platform for high-growth technology enterprises and others in their innovation ecosystem to learn about business strategy and IP management. An international team of highly experienced practitioners will share best

practices on how to leverage patents for business success and help you to develop useful networks at regional and international levels.

Join us for a compact one-day conference offering a unique combination of a business strategy track with an IP management track, followed by the second day of training sessions tailored for decision-makers and IP professionals in high-growth technology enterprises. Additionally, participants registering first will have the opportunity to meet experts in IP clinics (one-to-one 30-minute-sessions).

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**28-29.10.2019, VINCENZA CONFERENCE CENTRE
@FIERA DI VINCENZA**

The 2019 CAE Conference will illustrate how and where engineering simulation, already pervasive in design and production processes and in the use of products themselves, is inextricably linked to the other Industry 4.0 technologies. One could even say that Engineering Simulation's role is central

to Industry 4.0 and digital transformation. This year's CAE Conference will illustrate how engineering simulation can be used in different productive contexts to orchestrate a successful and considered path towards effective digital transformation.

The Plenary Session on an opening day will feature thought leadership presentations by recognized authorities in their fields and will appeal to the wide and diverse audience.

The Breakout Sessions will be related to the most common application areas of virtual experimentation: such as automotive, aerospace, and energy, among others. These sessions will be focused on the practical experiences of international organizations in different industrial sectors.

A number of Collateral Events will take place alongside the 2019 CAE Conference and Exhibition, enriching the overall value of the event to delegates. Organized independently but alongside the CAE Conference and Exhibition, these events will nonetheless be able to reach the prestigious, qualified pool of technology and business decision-makers that come from around the world to attend the CAE Conference each year

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PROJECT BUDGET: 2,02 mln €

ERDF CO-FINANCING: 1,66 mln €



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