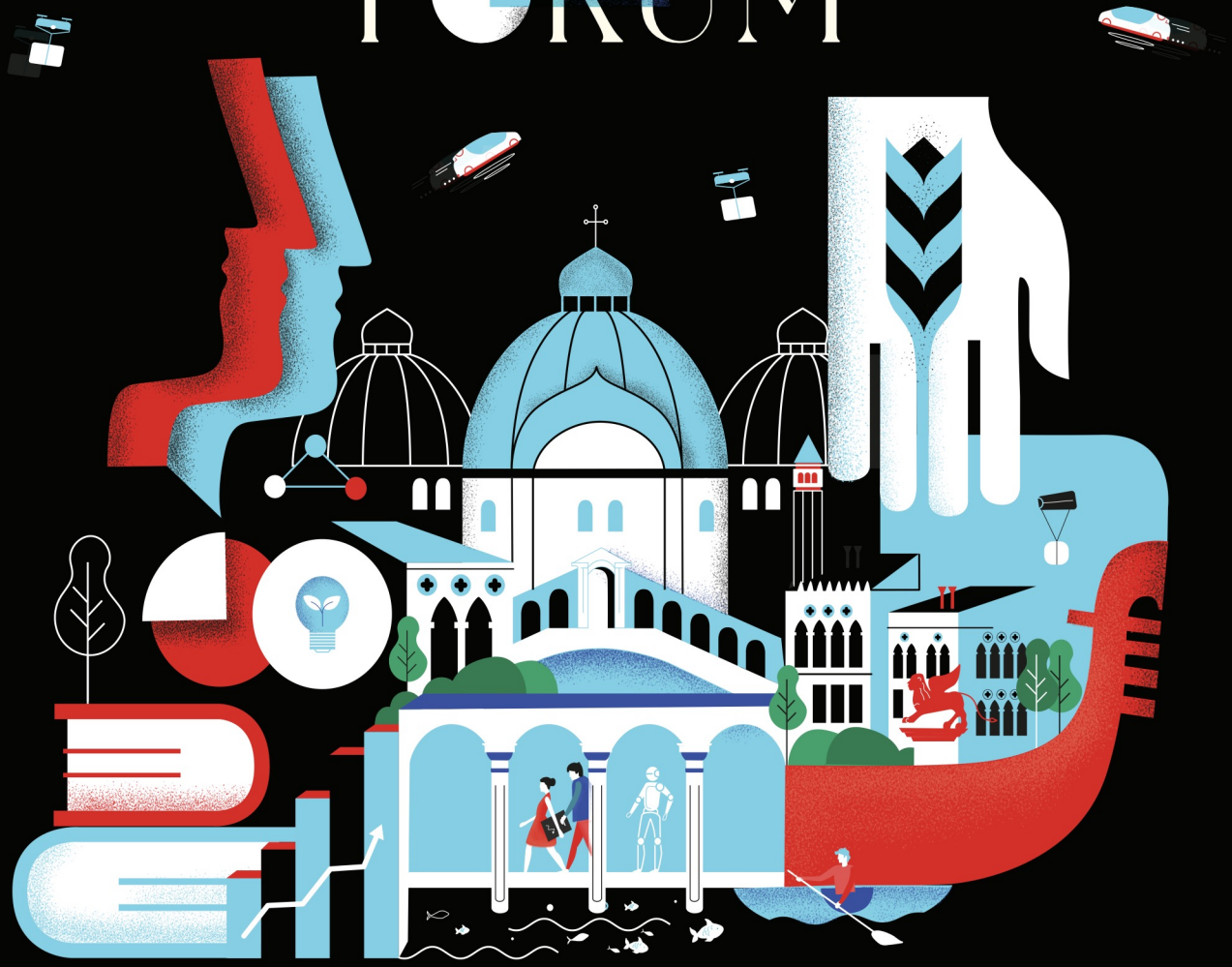
STRATEGY INNOVATION FORUM

VeniSIA Days



Seventh edition

THE IMPACT OF DEEP TECH ON BUSINESS MODELS

Ca' Foscari University of Venice

08/09/2022, 1.30PM – 7.45PM
09/09/2022, 8.30AM – 7.00PM

Promoter

Università Ca'Foscari Venezia

Fondazione Università Ca'Foscari

PATROCINIO REGIONE DEL VENETO

Strategyinnovationforum.com

SIF Forum

Venisia.org

VeniSIA

• THE EVENT

Since 2015, **Strategy Innovation Forum - SIF** annually feeds in Venice the only **Italian think tank focused on strategy innovation**. The forum involves entrepreneurs, managers, professionals, academics and policy makers with the aim to develop knowledge and relationships functional to the transformation of the entrepreneurial system. Scientific research, which analyzes the potential impact of a technological or social innovation on business models, is always the basis of SIF.
The seventh edition of SIF is held on the 8th and 9th September 2022.

*The event will be in **Italian language** with simultaneous translation in english.*

• THE RESEARCH

The Agenda for SIF 2022 is based on an annual research on **Deep Tech**.

SIF 2022 hosts the **VeniSIA Days** to gather the community of innovators around the theme of Deep Tech as an approach that companies will have to adopt to develop innovative and disruptive solutions to the main sustainability challenges. VeniSIA, the innovation accelerator on sustainability, leverages Deep Tech to identify, scale and market technological solutions through business model innovation. VeniSIA is based in **Venice**: thanks to its cultural and naturalistic heritage, the city is the perfect laboratory to generate, develop and test Deep Tech solutions and business models aimed at harmonizing social, environmental and economic sustainability.

SIF partners

Promoters

Università Ca'Foscari Venezia

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VeniSIA Tech Partner

The impact of Deep Tech on Business Models

First Day – 8/09/2022

1.30PM – 2.00PM Welcome Coffee & Registration

2.00PM – 2.15PM Strategy Innovation Forum 2022

2.15PM – 2.30PM Deep Tech: the 4th Wave of Innovation

2.30PM – 2.45PM Hyperloop

3.45PM – 4.45PM Space Economy

4.45PM – 6.30PM Future Computing

6.30PM – 7.45PM Working Groups

7.45PM – 9.30PM Networking Cocktail

Second Day – 9/09/2022

8.30AM – 9.00AM Welcome Coffee & Registration

9.00AM – 10.10AM Future Farming

10.10AM – 11.20AM Decarbonization & Carbon Removal

11.20AM – 12.30PM Atomic Renaissance

12.30PM – 2.00PM Networking Lunch

2.00PM – 3.30PM Working Groups

3.30PM – 4.50PM New Funding Models

4.50PM – 6.00PM VeniSIA's Acceleration Programs

6.00PM – 6.45PM The Impact of Deep Tech on Society

6.45PM – 7.00PM «Una nuova coscienza»

08/09/2022
First Day
1.30PM TO 7.45PM

Welcome Coffee and Registration

1.30PM
TO
2.00PM

> Campiello dei Lecci – Economic Campus San Giobbe

The impact of Deep Tech on Business Models

From 2:00PM to 2:15PM
> Lecture hall «G. Cazzavillan»

SIF 2022

Stefano Campostrini
Full Professor of
Social Statistics
Ca' Foscari University of Venice

INSTITUTIONAL GREETINGS

Caterina Carpinato
Vice Rector for the
Third Mission
Ca' Foscari University
of Venice

Anna Comacchio
Head of
Department of
Management
Ca' Foscari University
of Venice

From 2:15PM to 2:45PM
> Lecture hall «G. Cazzavillan»

DEEP TECH: THE 4th WAVE OF INNOVATION

Carlo Bagnoli
Professor of
Strategy Innovation
Ca' Foscari University

HYPERLOOP

Bibop Gresta
Founder & CEO Hyperloop Italia
Co-Founder HyperloopTT

HYPERLOOP

From 2:15PM to 2:45PM

> Lecture hall «G. Cazzavillan»

Deep Tech is the **fourth wave of innovation**, probably the most disruptive. **Hyperloop** is a paradigmatical example of Deep Tech and represents a revolutionary vision of land transport.

Hyperloop is a magnetic levitation supersonic train that will allow you to travel at speeds of over 1200 km/h, allowing you to cover distances of hundreds, or even thousands of km in a few minutes.

A **global project**, born from Elon Musk which was introduced in Italy by the entrepreneur **Gabriele Bibop Gresta.** In January 2020 he officially presented **Hyperloop Italia** in Rome, a startup engaged in the dissemination and implementation of Hyperloop technologies and new generation infrastructures.

In March 2022, **Veneto** invested in the project with the birth of **"Hyper Transfer",** a memorandum of understanding between the Ministry of Infrastructure, the Region of Veneto and Cav-concessioni autostradali for a first experimentation of **Hyperloop technologies**.

During SIF2022, Bibop Gresta will present his new book **«Hyperloop: Storia e Tecnologia Della Capsula Da 1.223 km/h Che Rivoluzionerà Il Mondo Dei Trasporti»**

THE IMPACT OF DEEP TECH ON BUSINESS MODELS

From 2:45PM to 3:30PM
> Lecture hall «G. Cazzavillan»

Ralitsa Dimitrova-Teofilova
Head of Insights Center & Innovation Lab,
KPMG Switzerland

Massimo Portincaso
Chairman
Hello Tomorrow

Antoine Gourévitch
Managing Director & Senior Partner
BCG

THE IMPACT OF DEEP TECH ON BUSINESS MODELS

From 2:45PM to 3:30PM
> Lecture hall «G. Cazzavillan»

In many ways, **2021 was the year of Deep Tech**. We started the year with a biotech breakthrough — mRNA vaccines that were approved in record time to bring us on course towards a return to pre-pandemic life. We saw a boom in space exploration and a renewed urgency for defense innovation. Nuclear energy began its ascent from taboo technology to a climate-saving must. Even the Time Person of the Year was a Deep Tech founder.

If 2021 was the year of Deep Tech entering the spotlight, **2022 will see increasing validation for this ecosystem** that promises to transform science fiction into world-positive technology.

Deep tech is being heralded as the 4th wave of innovation and it promises to be the most transformational. The great wave.

The Deep Tech wave is a unique opportunity to rethink the foundations of the business. Its power lies in the ability to massively broaden the option space at unprecedented speed and solve fundamental problems.

SPACE ECONOMY

From 3:30PM to 4:45PM
> Lecture hall «G. Cazzavillan»

Luca Paolazzi
Scientific Director
Fondazione Nord Est

Gregorio De Felice
Chief Economist
Intesa Sanpaolo

Roberto Battiston
Full Professor of Experimental Physics
at the Department of Physics
University of Trento

Luca Rossettini
CEO
D-Orbit

Marco Villa
EVP and Chief Revenue Officer
Terran Orbital Corporation

SPACE ECONOMY

From 3:30PM to 4:45PM
> Lecture hall «G. Cazzavillan»

The modernization of space launches will exponentially increase the number of objects in orbit.
In 2021, 134 successful space launches propagated 1701 objects into space, a ~290% increase from 2019 (586 objects).

As more companies plan to build out their constellation of satellites, they will require a cost-efficient way to maneuver in orbit.

It follows that **we expect to see the emergence of in-space transportation and management systems for space debris in 2022**.

Just like how we have the choice to take an Uber directly to a specific address instead of having to rely on disjointed public transportation, **soon satellites** will have the option to do the same. Instead of being deployed by a launcher to a fixed point and using fuel to get to the final destination, they **can use orbital transfer vehicles (OTVs) to get to where they want to, but way quicker**.

FUTURE COMPUTING

From 4:45PM to 6:30PM
> Lecture hall «G. Cazzavillan»

Pierre-Yves Bourguignon
Founder & CEO
Werkstatt für potenzielle Genetik

Davide Corbelletto
Quantum Technology Specialist
Direzione Sistemi Informativi
Intesa Sanpaolo

Federico Mattei
Client Technical Leader & IBM
Quantum Ambassador
IBM

Annarita Giani
Senior Complex System Scientist
Quantum Computing
General Electric

Maksym Plakhotnyuk
Founder & CEO
ATLANT 3D Nanosystems

Jan Goetz
CEO & Co-Founder
IQM

Simone Severini
Professor of Physics of Information, UCL & Director, Quantum Computing, AWS

Davide Venturelli
Associate Director, Quantum Computing
USRA - NASA Amsa Research Center

FUTURE COMPUTING

From 4:45PM to 6:30PM
> Lecture hall «G. Cazzavillan»

Quantum computing is computing that operates according to the laws of quantum mechanics, the branch of physics that deals with atomic and subatomic particles. What quantum computers need in order to realize their full potential is not just smart scientists who are capable of programming them, but also strategic business leaders who are capable of envisioning the brilliant use cases where they can add value.

As they mature, quantum computers running sophisticated machine learning algorithms will be capable of managing gargantuan tasks. A decade from now, they will likely be powerful enough to help us discover new drugs with which to fight pandemics like COVID-19, identify new solutions to global problems like climate change, and new models with which to accurately predict everything from financial risk to weather. **Quantum computing has the potential to change the world**.

WORKING GROUPS

From 6:30PM to 7:45PM
> Lecture hall «G. Cazzavillan»

Working Groups

The working groups are vision groups focusing on each topic of the event.
SIF participants have the opportunity to debate and to share vision and experience, moderated by experts.

Each participant can choose the working group during the registration.

- Space Economy
- Future Computing

The impact of Deep Tech on Business Models

Networking Cocktail

7.45PM TO 9.30PM

> Economic Campus Library Garden – San Giobbe

Ca' Foscari University of Venice

09/09/2022
Second Day

08.30AM
TO
7.00PM

Welcome Coffee and Registration

8.30AM TO 9.00AM

> Campiello dei Lecci – Economic Campus San Giobbe

FUTURE FARMING

From 9:00AM to 10:10AM
> Lecture hall «G. Cazzavillan»

Daniele Modesto
CEO
ZERO

Stefano Babbini
CEO & Co-Founder
SQIM

Simon Trancart
Co-Founder & CEO
Altar

Christina Nesheva
Founder & CEO
Officinae Bio

Frédéric Pâques
CEO
Standing Ovation

FUTURE FARMING

From 9:00^{AM} to 10:10^{AM}
> Lecture hall «G. Cazzavillan»

Future Farming allows to **overcome** some of the current technological and structural shortcomings of **Nature Co-Design** by blending it with Controlled Environment Agriculture.

Nature Co-Design focuses on the microscopic scale and it is based on the **integration of biology, chemistry, and material science**. It signals a shift from an exploitative approach, by consuming natural resources, to a generative one, which relies on building and growing at the atomic level.
Controlled Environment Agriculture focuses on the macroscopic scale and has its most interesting expression in **vertical farming** that allows maximizing the potential yield of crops, minimizing the consumption of natural resources, and eliminating the use of pesticides.

The intersection between Nature Co-Design and Controlled Environment Agriculture originates the idea of Future Farming, which represents a new domain on the edge between disciplines (life sciences, chemistry, engineering, computer science and design) and aims to identify industrial applications using Nature as a manufacturing platform.

DECARBONIZATION & CARBON REMOVAL

From 10:10^{AM} to 11:20^{AM}
> Lecture hall «G. Cazzavillan»

Matteo Romano
Full Professor of Systems for Energy and Environment
Politecnico di Milano

Claudio Spadacini
Founder & CEO
Energy Dome

Antonio Buzzi
COO Cemento Italia
Buzzi Unicem

Olivier Rolland
Managing Director
TWB

Carlos Loscalzo
CEO
Signify Italia, Grecia e Israele

DECARBONIZATION & CARBON REMOVAL

From 10:10^{AM} to 11:20^{AM}
> Lecture hall «G. Cazzavillan»

In 2021 we witnessed a tremendous explosion in climate investing, with startups raising a record $32 billion — five times more than in 2016.

No doubt capital will continue to flood the CleanTech markets, but now attention turns towards action — namely **keeping carbon emissions in check**.
So far, the focus has been on "greenifying" old processes such as transportation and energy generation. While this will continue to be essential, technological advancements are letting us add carbon removal to our arsenal of tools against climate change.

The dire reality is that **we cannot achieve our carbon emission goals without turning towards carbon removal**.

We expect to see a boom in carbon removal startups — spanning from direct air capture (DAC), materials manufacturing (sequestering carbon into chemicals, cement, and wood), battery recycling, biomass power generation (BECCS), wastewater purification, and more.

ATOMIC RENAISSANCE

From 11:20^{AM} to 12:30^{PM}
> Lecture hall «G. Cazzavillan»

Eliana De Marchi
Magnetic Fusion Energy Manager
Eni

Francesco Volpe
Founder, CEO, CTO
Renaissance Fusion

Ognjen Starovic
President Energy
Ultra Electronics Group

Troels Schönfeldt
CEO
Seaborg Technologies

Roberto Casula
Co-founder and Chairman
DuckToSwan

ATOMIC RENAISSANCE

From 11:20^{AM} to 12:30^{PM}
> Lecture hall «G. Cazzavillan»

Even though older models of nuclear power plants are due to go offline, **new and more advanced models are being built**.
The world's first small modular reactor (SMR) aims to be fully operational in 2022 — Huaneng Group Co.'s 200- megawatt SMR, which is 1/5th the size of China's first homegrown reactor design, Hualong One.
We expect to see a lot more of these new microreactor designs in 2022 as they are safer and use more efficient fuel (i.e. produce less radioactive waste) — making them a reliable energy source for remote geographies where the unit economics of energy are challenging.
Fusion is finally not "20 years away" — investors have started to take note of technological advances in this industry. According to the 2021 Global Fusion Industry Survey, 35 fusion-focused startups have raised nearly $3.8 billion including Commonwealth Fusion Systems' latest raise of $1.8 billion, the largest private investment in fusion.

We expect to see a lot more progress in this industry as we get closer to reaching a positive energy gain (i.e. energy out of the system is greater than energy in).
It's unlikely that we reach climate goals without turning towards atomic energy.

Networking Lunch

12.30PM TO 2.00PM

> Economic Campus Library Garden – San Giobbe

WORKING GROUPS

From 2:00PM to 3:30PM
> Campus Lecture Rooms

Working Groups

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Each participant can choose the working group during the registration.

- Future Farming
- Carbon Removal
- Atomic Renaissance

NEW FUNDING MODELS

From 3:30PM to 4:50PM
> Lecture hall «G. Cazzavillan»

Davide Sola
Professor Strategy and Entrepreneurship
ESCP Business School

Elizabeth Robinson
Vice Chairman of the Board
Indaco Ventures Partners SGR

Gianluca Dettori
Founder & President
Primo Ventures

Domenico Nesci
Co-Founder & Managing Director
Deep Ocean Capital SGR

Gregory Bernstein
Venture Lead
EQT Ventures

NEW FUNDING MODELS

From 3:30PM to 4:50PM
> Lecture hall «G. Cazzavillan»

The pandemic showed us that we don't need traditional institutions to advance research.

Across all levels, **we are starting to see science emerge outside of universities through newer funding models** — focused research organizations, for-profit companies with private research teams, open science DAOs, fast grants and similar initiatives...the list goes on. There is a new sense of urgency for biotech innovation and people are realizing that government- and university-based funding are not the only ways to advance science, nor are they the most productive ways.

We expect this trend to unlock more specific categories of biotech innovation, with particular emphasis on commercialization. Longevity has been a good example of how private individuals + world-leading scientists can come together to facilitate biotech innovation in a more creative, independent way.

The decentralization of biotech is something we are keeping a close eye on.

VENISIA'S ACCELERATION PROGRAMS

From 4:50PM to 6:00PM
> Lecture hall «G. Cazzavillan»

Moderation by

Maria Claudia Pignata
Managing Director
VeniSIA

Michele Viglianisi
Head of BIO Refining & Supply
Eni

Lorenzo Rambaldi
Head of Innovability
Enel X Way

Stefania Ratti
Chief Innovation Officer
Atlantia

Gianmatteo Manghi
CEO
Cisco Italia

Claudio Farina
Executive Vice President Digital Transformation & Technology
Snam

VENISIA'S ACCELERATION PROGRAMS

From 4:50PM to 6:00PM
> Lecture hall «G. Cazzavillan»

Partnerships between startups and large companies play a key role in growth and **innovation**.

Startups see large companies as partners capable of facilitating access to funding, supporting the entry into the market and guaranteeing a positive image return.

Large companies are looking for forms of **cooperation** to tap into the pool of **startups' talents, ideas** and **energies** and to **foster cultural change** internally thanks to the contamination with new ways of working.

Collaborating to innovate is the recipe for ensuring the success of partnerships in the long term, in the mutual recognition and respect of different identities.

THE IMPACT OF DEEP TECH ON SOCIETY

From 6:00PM to 6:45PM
> Lecture hall «G. Cazzavillan»

Moderation by

Sara De Vido
Associate Professor of International Law
Ca' Foscari University of Venice

Tiziana Lippiello
Rector
Ca' Foscari University of Venice

Elena Donazzan
Labour, Education and Culture Councillor
Region of Veneto

Katia Da Ros
Vice President for Environment, Sustainability and Culture
Confindustria

Philippe Marlière
President
TESSSI

Diego Puricelli
Professor of Moral Theology and Bioethics

THE IMPACT OF DEEP TECH ON SOCIETY

From 6:00PM to 6:45PM
> Lecture hall «G. Cazzavillan»

Deep Tech, and especially biomanufacturing, faces crucial issues from an **ethics point of view**.
Institutions should drive the regulatory environment and lead the ethical discussion that will help navigate the ambiguity of the future and manage the risks related to Deep Tech. But institutions are not the only ones needing to play an active role in promoting the responsible use of Deep Tech.

Business leaders and corporations will also need to proactively participate in the ethical and societal discussion. Corporations and business leaders will need to address the gap between the speed of scientific and technological progress and ethical and societal adoptions, since the former progresses exponentially while the latter evolve at a much slower pace.
It is important to address emotional, as well as rational issues, through a genuine dialogue and the emergence of a new narrative.
A good place to start is by expanding the conversation transparently, engaging with **biodesigners, bioartists, chefs, and entertainers**, leveraging their roles to push back boundaries while **playing a key part in helping society absorb and react to novel ideas and technologies**.
Including more of society in these conversations is essential to avoid an unintended anti-science backlash.

«UNA NUOVA COSCIENZA»

From 6:45PM to 7:00PM
> Lecture hall «G. Cazzavillan»

«Tra teatro e canzone»

Giulio Casale
Musician

Conclusive Cocktail

7.00PM TO 8.00PM

> Campiello dei Lecci – Economic Campus San Giobbe

STRATEGY INNOVATION FORUM 2022

Date and Time
8th September 2022 - 1:30^{PM} > 7:45^{PM}
9th September 2022 – 8.30^{AM} > 7:00^{PM}

Location
Ca' Foscari University of Venice
Lecture Hall «G. Cazzavillan»,
Economic Campus San Giobbe
Cannareggio 873, Venice

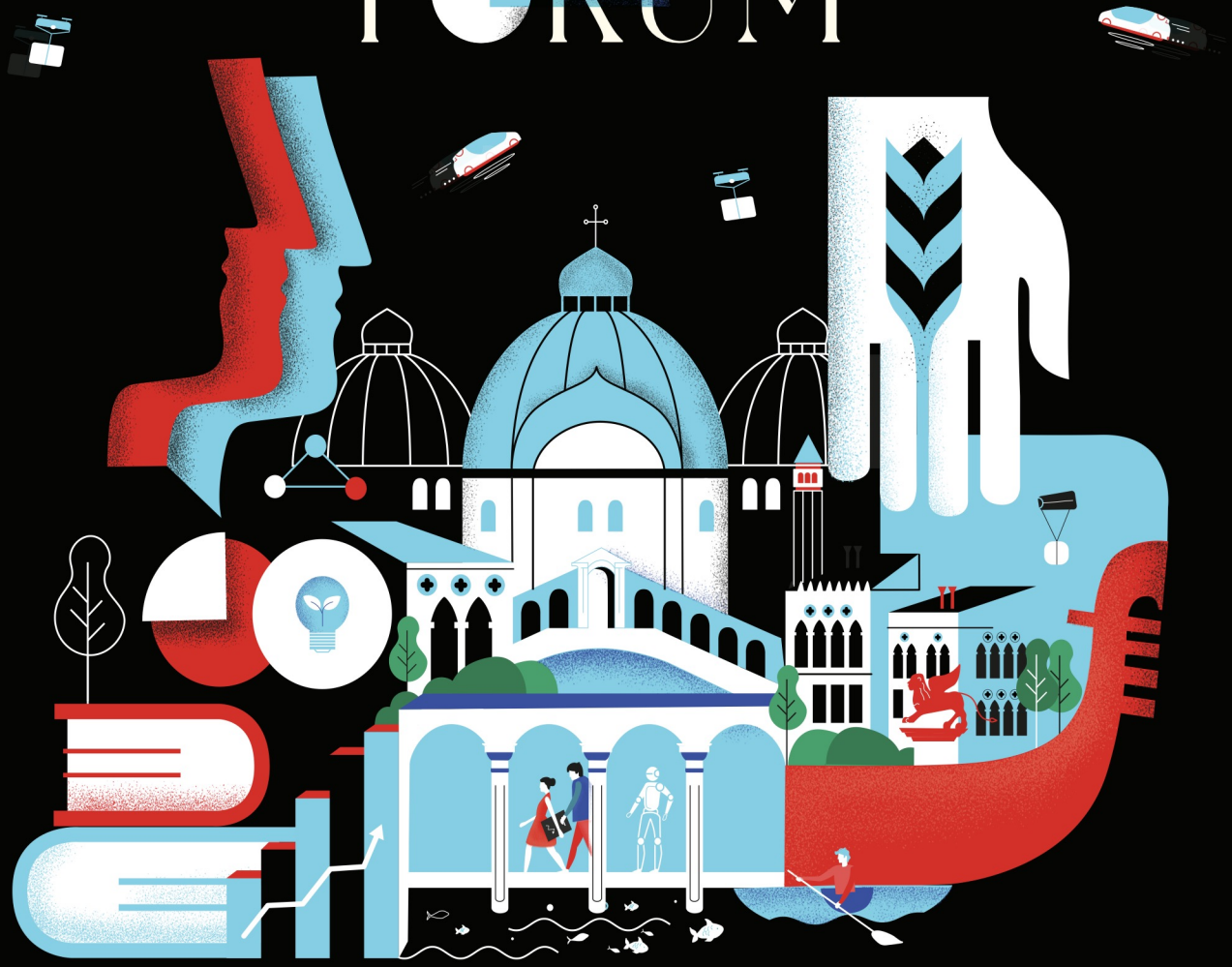
Pre-registration required

Information
sif@unive.it

Visit our website
www.strategyinnovationforum.com

STRATEGY INNOVATION FORUM

VeniSIA Days



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