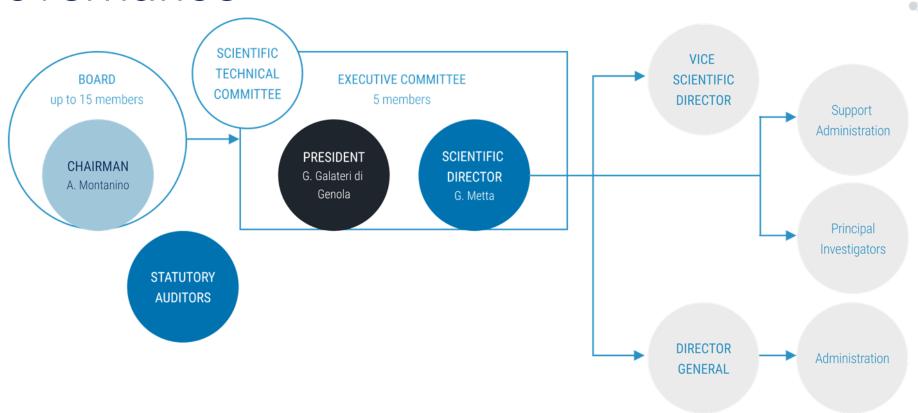
FACTS & FIGURES IIT TODAY



Last update 31 December 2023



IIT Governance











Scientific Director Giorgio Metta

IIT Governance

Board

Responsible for the planning and approval of the Institute's main strategies (up to 15 members)



Andrea Montanino (Chairman)



Rita Cucchiara



Elena Goitini



Luigi Gubitosi



Alessandro Nasi



Gianluca Pettiti



Alessandro Profumo



Alessandro Rivera



Donatella Sciuto



Raffaele Squitieri



Francesco Stellacci



Mariarosaria Taddeo



Gianmario Verona

Executive Committee

Responsible for ordinary and extraordinary administration activities (5 members)



Gabriele Galateri di Genola



Giorgio Metta



Vittorio Terzi



Luciana Vaccaro



Giuseppe Zampini

IIT Governance

Scientific Technical Committee

General advisory role with regard to the technical and scientific evaluation of research activities (13 members)



Francesco Sette (Chairman)



Adriano Aguzzi



Tamim Asfour



Uri Banin



Roberto Car



Martin Chalfie



Gianaurelio Cuniberti



Adrienne Corboud Fumagalli



Oussama Khatib



Sonja Kotz



Arto Nurmikko



Jean-Jacques Slotine



Alberto Sangiovanni Vincentelli

Board of Statutory Auditors

To ensure compliance with the law and internal regulations and the proper keeping of accounts (3 members)



Francesco Alì (President)



Vincenzo Di Felice



Enrico Vassallo

Internal Control

Audit, Risk Management & Compliance Directorate

To provide independent and objective assurance and advice to management and governing bodies on the adequacy and effectiveness of the internal control and risk management system.



Valeriano Vidili (Director)



Stefano Desiderio



Leonardo Nigro

IIT Internal Committee

Committee of the Scientific Director

To support the Scientific Director's work on various strategic, scientific and organizational topics (15 members + 3 invited)



Athanassia Athanassiou



Darwin Caldwell



Marco De Vivo



Paolo Decuzzi



Tommaso Fellin



Stefano Gustincich



Ilka Kriegel



Liberato Manna



Barbara Mazzolai



Lorenzo Natale



Teresa Pellegrino



Raffaella Tonini



Velia Siciliano



Nicola Tirelli



Agnieszka Wykowska



Fabrizio Moscone*



Lorenzo De Michieli*



Francesca Cagnoni*

* invited



IIT Internal Committee

Management Committee

To support the Scientific Director in formulating and developing IIT's policies and strategies.



Fabrizio Moscone



Stefano Bencetti



Francesca Cagnoni



Andrea Caporali



Lorenzo De Michieli



Giuliano Greco



Antonella Fontana



Massimiliano Gatti



Enzo Gelati



Ilaria Monaldi



Marco Monga



Alessandro Roscini



IIT Values



Integrity

We adhere to scientific and moral integrity. We value and strive for openness, honesty, authenticity, sincerity, and transparent behavior. We communicate transparently.

Courage

We like challenges and we face them with determination, striving for excellence.

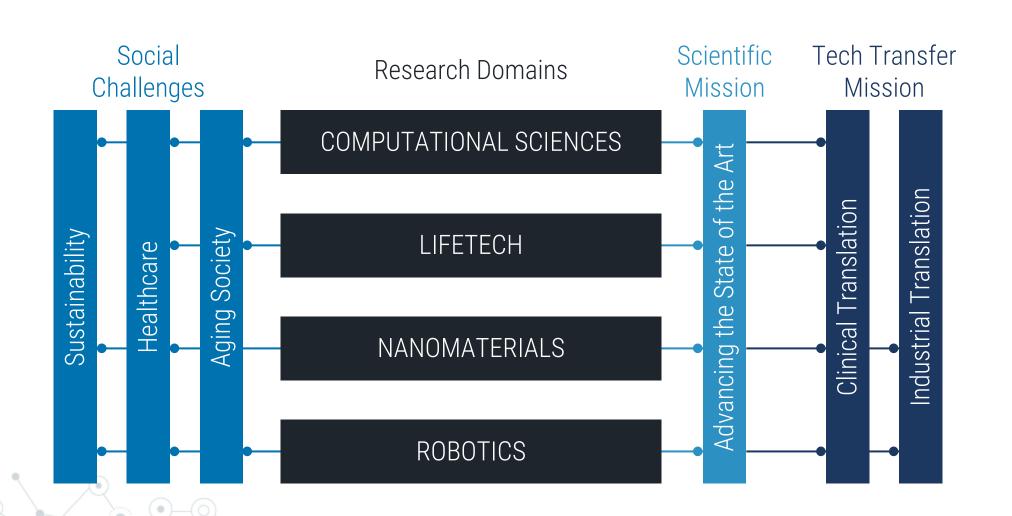
Societal responsibility

We aim to benefit humanity worldwide. We strive to help society develop for the common good.

Inclusion

We welcome and cherish diversity in every form. We do not tolerate discrimination in any form. We are always inclusive, respecting individual freedom.

Research Vision





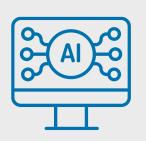
Strategic Plan

"[...] reflects our overarching priority of developing Human-Centered Science and Technology with an approach that is not merely multidisciplinary, but rather merges different skills and expertise into a truly interdisciplinary synthesis"

From the Strategic Plan 2018-2023



Research Domains



COMPUTATIONAL **SCIENCES**

Development HPC Algorithms and Software Computational Modeling Machine Learning, Deep Learning and A.I. Computer Vision

157 scientists (Researchers, PostDocs and PhD students) 37 technicians (3 technologists) 4 facility coordinator 10 Pls 2 ERC grant holders (1 grants ongoing) 20 ongoing European projects



Neuroscience and Brain Technologies RNA Technologies Technologies for Healthcare

344 scientists (Researchers, PostDocs and PhD students) 63 technicians (8 technologists)

4 facility coordinators

32 Pls

12 ERC grant holders (8 grants ongoing)

45 ongoing European projects

261 patents

85 patents



NANOMATERIALS >

Nanomaterials for Sustainability Nanotechnologies for Human Health Nanomaterials Energy **Exploratory Material Sciences**

350 scientists (Researchers, PostDocs and PhD students) 63 technicians (9 technologists)

5 facility coordinators

24 Pls

17 ERC grant holders (15 grants ongoing)

70 ongoing European projects

419 patents



Mechatronics Soft Robotics

Social Cognition and Human Robot Interaction **Biomedical Robotics** Intelligent Companion Robots

279 scientists (Researchers, PostDocs and PhD students) 146 technicians (6 technologists)

5 facility coordinators

13 Pls

5 ERC grant holders (5 grants ongoing)

36 ongoing European projects

264 patents

Scientific Initiatives

Visionary research that address the major societal challenges to break new ground



Cognitive Architectures (iCog)

Designing, building, and sharing a common cognitive architecture for an embodied artificial system.

Al for Materials Sciences (iMat)

Applying Artificial Intelligence (AI) to new challenges in Materials Science.



RNA Technology (iRNA)

Investigating non-coding RNAs whose knowledge has experienced the most rapid growth in recent years.

Robotics for a Better Life (RBL)

Advance research for making robots self-aware, adaptable, and interactive.



Sustainability

Facing sustainability goals of global economic, societal and environmental importance.

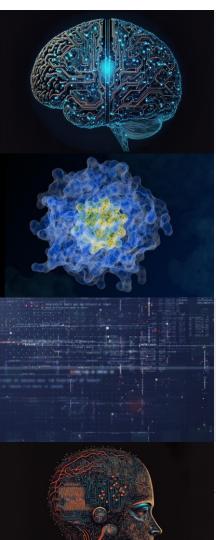
Visualization of Nanomaterials in Operando

Visualizing molecular interactions and electronic processes at nano-interfaces.



Strategic Research Directions

Research aimed at addressing the Horizon Europe program of promoting strong alliances in artificial intelligence, data, and robotics



Artificial Intelligence (AI)

First ELLIS node in Italy (with the University of Genoa). The ELLIS Society is a highly prestigious European network for fostering research in machine learning and artificial intelligence (sever IIT PIs involved).

IIT Technology Transfer plans to create a business accelerator to complement the AI ecosystem with Industry 4.0 resources (Competence Centers), the EDIH, and a network of VCs, funds, and so on.

Atomistic and Molecular Simulation

New methods to calculate the thermodynamics and kinetics of molecular systems in life science and materials science.

IIT has been a pioneer in molecular simulations applied to drug discovery with a focus on kinetics and residence-time prediction. The next frontier, in this field, will be the systematic combination of atomistic and molecular simulations with machine learning and artificial intelligence.

Non-Turing Computation

Exploration of new avenues in non-Turing computation. Starting from exploring quantum technology (QT) based on state-of-the-art hardware and software and moving towards next-generation code for QT.

The challenges include scalability and precision.

IIT aims to build a network of Italian academic and industrial players to develop innovative QC applications.

Integrative Neuroscience

III neuroscientists work with diverse tools and at multiple levels of organization (molecular, cellular, circuits, systems, and behavior) to link fundamental neuronal mechanisms to behavior and cognition.

The promotion of mutual reinforcement between neuroscience, artificial intelligence, materials science, and robotics will strategically advance our neuroscientific knowledge and facilitate the flow of basic neuroscience into applications.

IIT in numbers



18

Centers

16 in Italy 2 US outstations 50.000 m² of labs



1881

Staff

70 countries 36 years average age 43% female, 81% scientific staff



864

Scientific Projects

461.0 MEUR 256 ongoing



20250+

Publications

625k+ citations



953

Commercial Projects

117.7 MEUR 197 ongoing



1335

Patents

424 inventions



18

Joint Labs



34

Start Ups

IIT Centers

50.000 m² of labs





Center for Convergent Technologies, Morego, GENOA (headquarters)



Center for Advanced Biomaterials for Health Care, Università Federico II di Napoli, NAPLES



Center for Biomolecular Nanotechnologies, Università del Salento, LECCE



Center for Cultural Heritage Technology, Università Ca' Foscari, VENICE



Center for Genomic Science, Campus IFOM-IEO, MILAN



Center for Human Technologies, Erzelli, GENOA



Center for Joint Industrial Research, GENOA



Center for Life Nano & Neuroscience, Sapienza Università di Roma, ROME



Center for Material Interfaces, Scuola Superiore Sant'Anna, PONTEDERA



Center for Nano Science and Technology, Politecnico di Milano, MILAN



Center for Nanotechnology Innovation, Scuola Normale Superiore, PISA



Center for Neuroscience and Cognitive Science, Università di Trento, TRENTO



Center for Robotics and Intelligent Systems, San Quirico, GENOA



Center for Sustainable Future Technologies, Politecnico di Torino, TURIN



Center for Synaptic Neuroscience and Technology, Università di Genova, GENOA



Center for Translational Neurophysiology, Università di Ferrara, FERRARA



IIT@Harvard Harvard University, CAMBRIDGE, MA (USA)



IIT@MIT Massachusetts Institute of Technology, CAMBRIDGE, MA (USA)

== Slide 15 ==

















IIT Staff



























== Slide 16 ==



IIT Staff



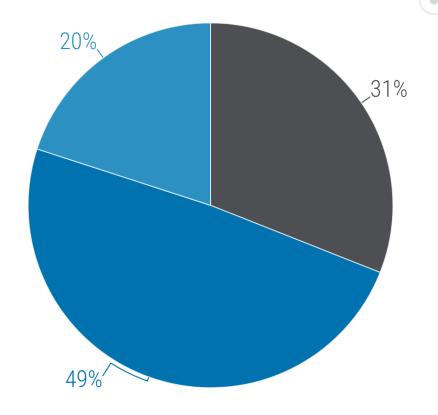












ForeignersItaliansItalians from abroad















== Slide 17 ==



IIT Staff

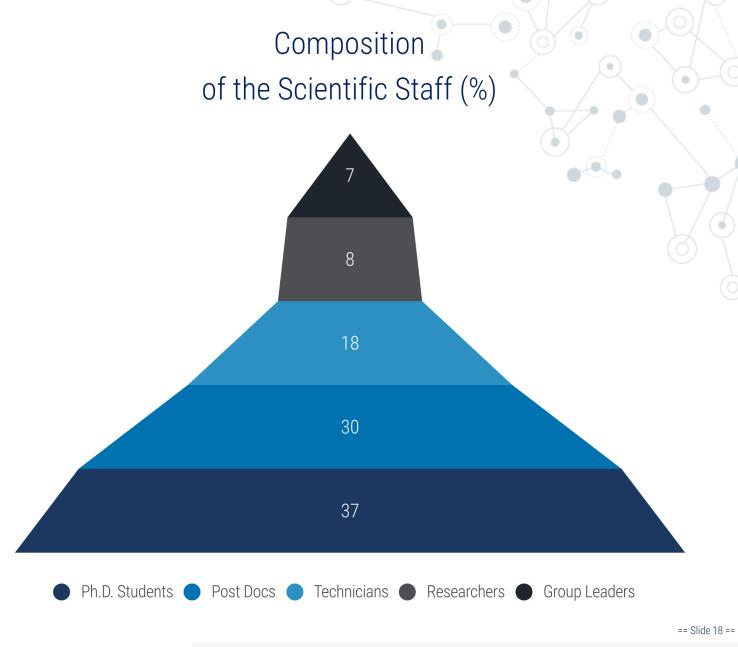




























Projects



1817
projects
453 ongoing







in-kind 28.4 MEUR



















== Slide 19 ==

Projects



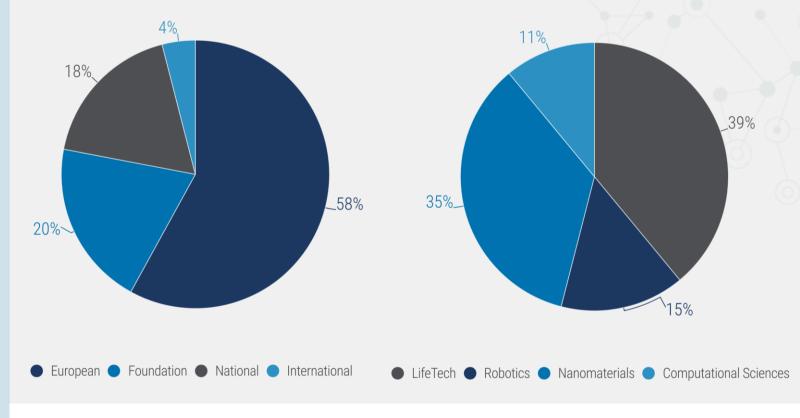






in-kind





148 European projects47 national projects50 foundation projects11 international projects

== Slide 20 ==





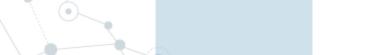












Projects



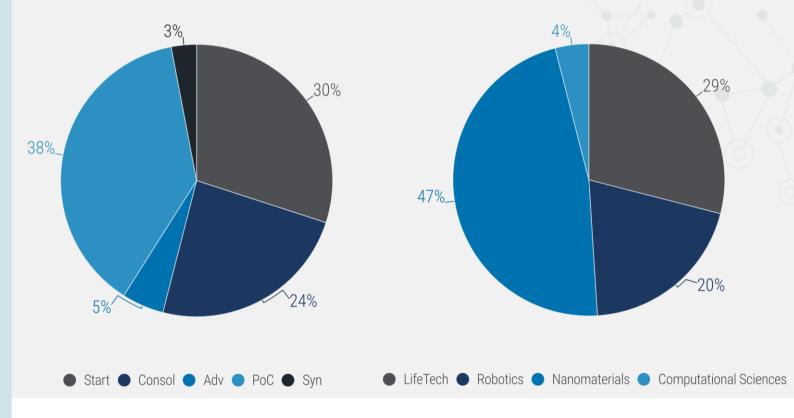


953 commercial



in-kind 28 4 MFUR





66 secured grants43 ERC grant holders34 grants ongoing

== Slide 21 ==

















Publications





625k citations



14.8k+ journal papers 101k+ IF

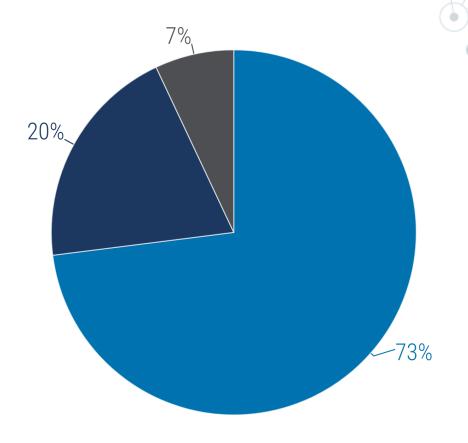


4.1k+ conference proceedings



1.2k+books/book series

Publications Types (%)





















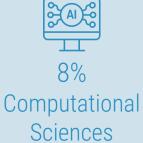
== Slide 22 ==



Patents







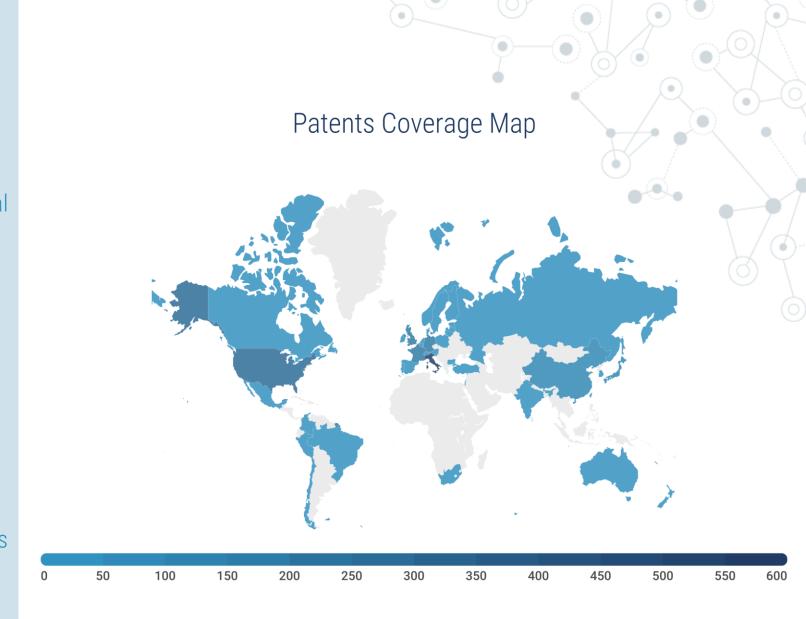


25% LifeTech



41% Nanomaterials























IIT Joint Labs(18)





















































== Slide 24 ==

IIT Start Ups(34)























(a selection)



































== Slide 25 ==

















