

FACTS & FIGURES

IIT TODAY

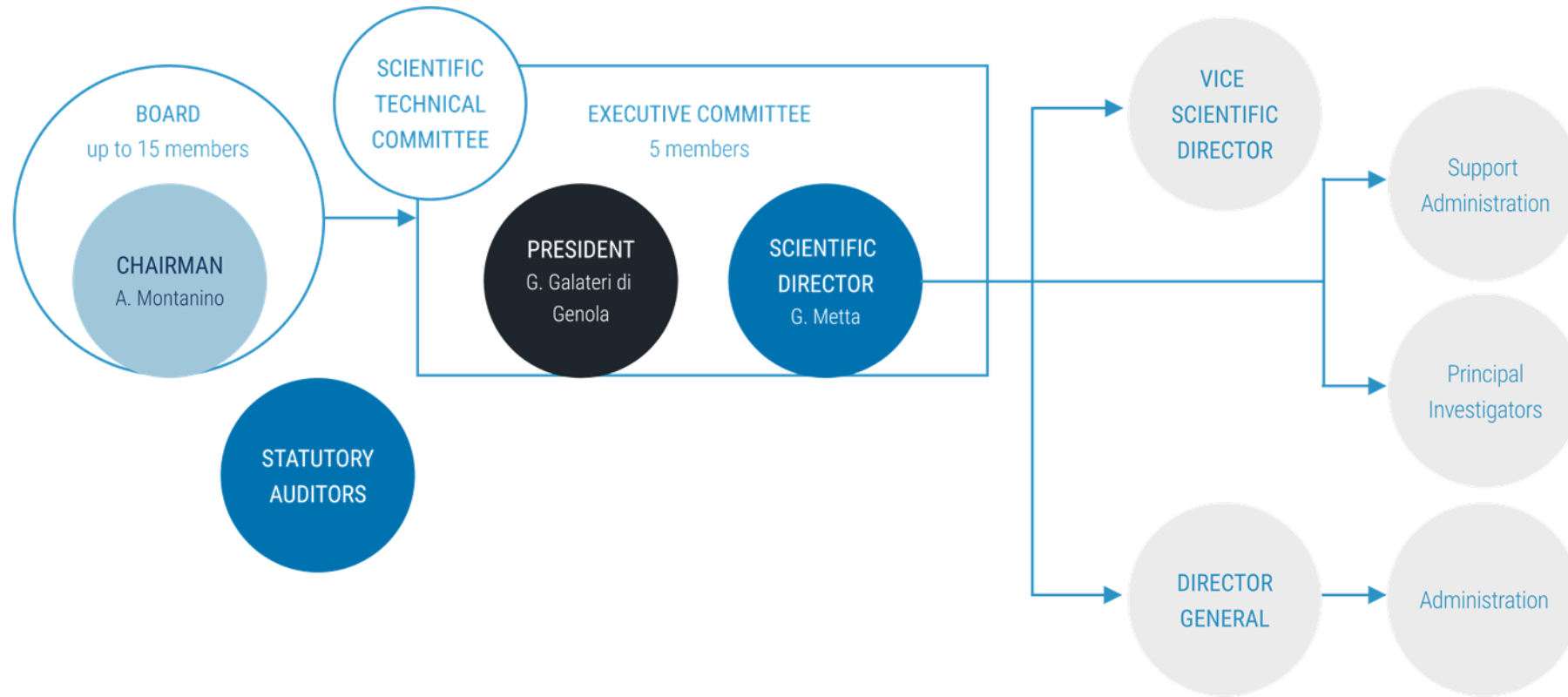


ISTITUTO ITALIANO
DI TECNOLOGIA

Latest update 31 August 2024



IIT Governance



Leadership



President
Gabriele Galateri di Genola



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*



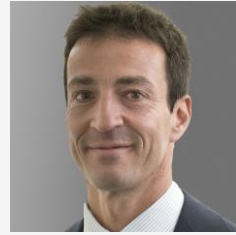
Rita
Cucchiara



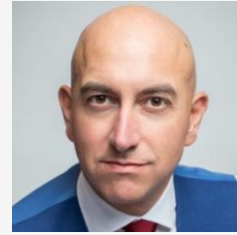
Elena
Goitini



Luigi
Gubitosi



Alessandro
Nasi



Gianluca
Pettiti



Alessandro
Profumo



Alessandro
Rivera



Marcello
Sala



Donatella
Sciuto



Raffaele
Squitieri



Francesco
Stellacci



Mariarosaria
Taddeo



Gianmario
Verona

*Chairman

Executive Committee

Responsible for ordinary and extraordinary administration activities (5 members)



Gabriele Galateri
di Genola



Giorgio
Metta



Paola
Inverardi



Vittorio
Terzi



Luciana
Vaccaro

IIT Governance

Scientific Technical Committee

General advisory role with regard to the technical and scientific evaluation of research activities (17 members)



Francesco Sette*



Adriano Aguzzi



Tamim Asfour



Uri Banin



Angelo Cangelosi



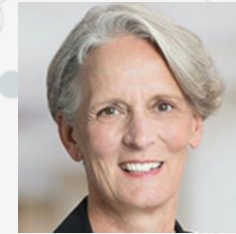
Roberto Car



Martin Chalfie



Gianaurelio Cuniberti



Adrienne Corboud Fumagalli



Ussama Khatib



Sonja Kotz



Nicola Marzari



Elisa Molinari



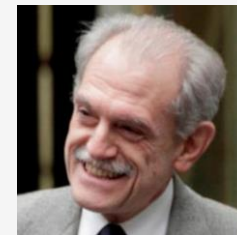
Arto Nurmikko



Jean-Jacques Slotine



Michele Vendruscolo

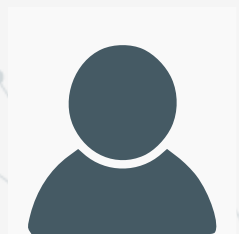


Alberto Sangiovanni Vincentelli

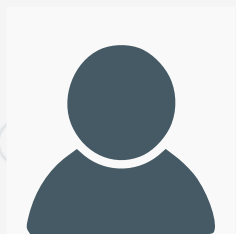
*Chairman

Board of Statutory Auditors

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



Francesco Ali**



Vincenzo Di Felice



Enrico Vassallo

**President

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*



Stefano Desiderio



Leonardo Nigro

*Director

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



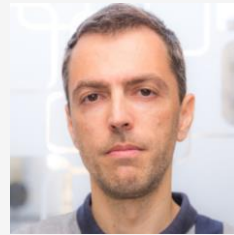
Darwin
Caldwell



Marco
De Vivo



Paolo
Decuzzi



Tommaso
Fellin



Stefano
Gustincich



Liberato
Manna



Barbara
Mazzolai



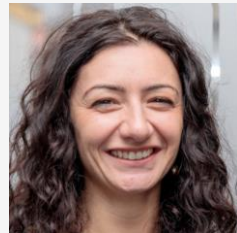
Lorenzo
Natale



Teresa
Pellegrino



Raffaella
Tonini



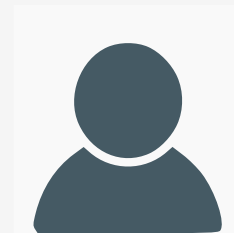
Velia
Siciliano



Nicola
Tirelli



Agnieszka
Wykowska



Fabrizio
Moscone*



Lorenzo
De Michieli*



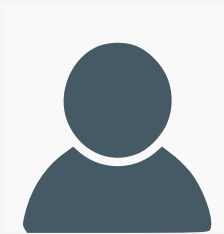
Francesca
Cagnoni*

* 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



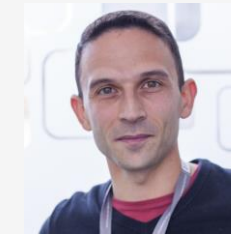
Lorenzo
De Michieli



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

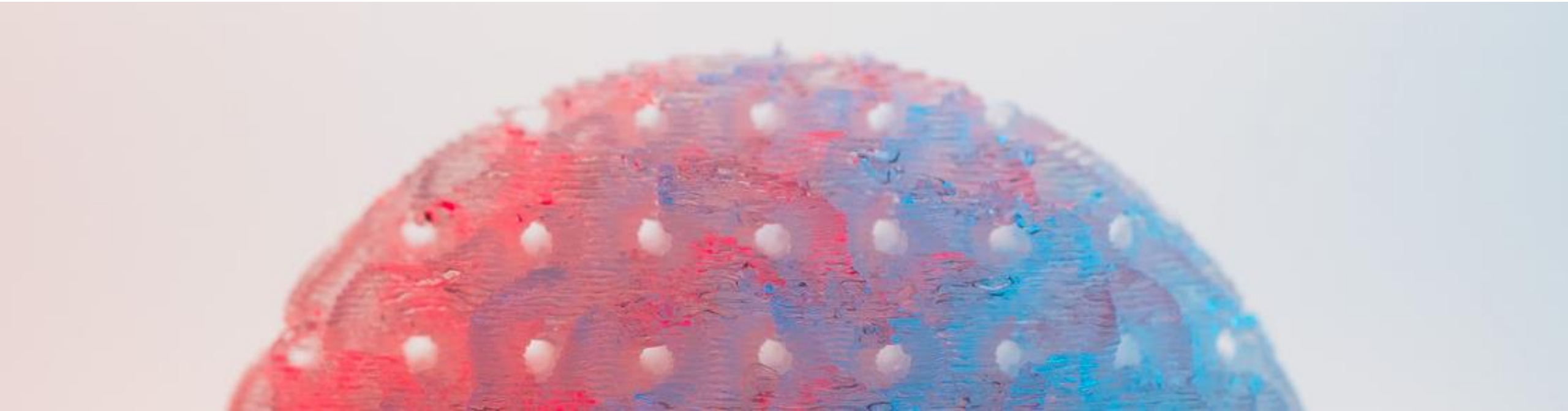
We aim to benefit humanity worldwide. We strive to help society develop for the common good.



Inclusion

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

Strategic Plan 2024-2029

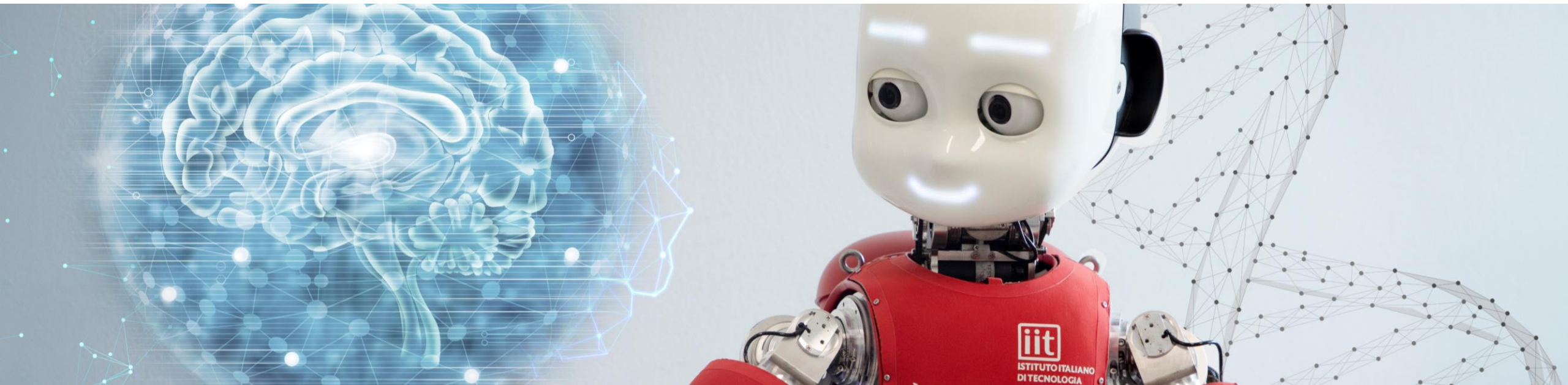


Strategic Plan 2024-2029

- 4 Research Domains
- 5 Flagships Programs
- 1 Blue Sky Research Program

with the aim of prioritizing

Artificial Intelligence for Healthcare and Earthcare



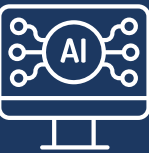














The mission

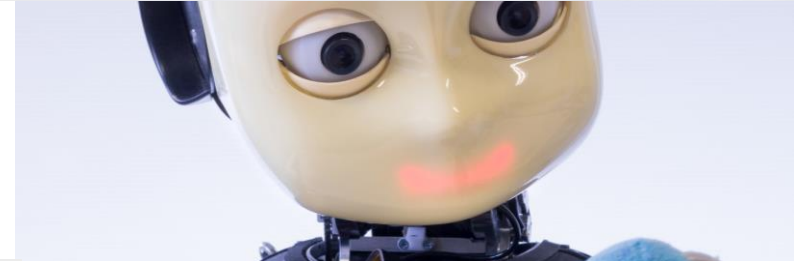
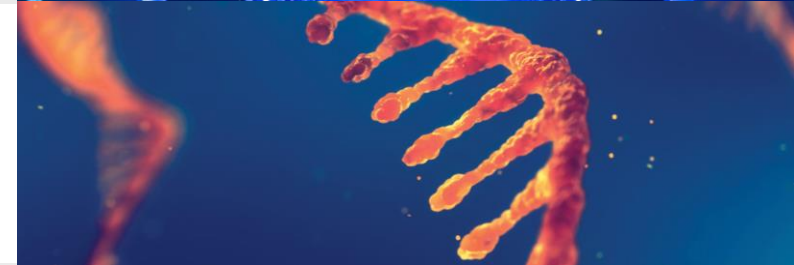
- **Research Mission** - to carry out excellent science and develop cutting-edge technology
- **Tech Transfer Mission** - to support Italy in playing a strategic role in the competitiveness of production system
- **Higher Education Mission** - to implement programs for highly specialized training and education

We aim to ensure a large body of **high-quality research output** to foster a **thriving creative research environment**

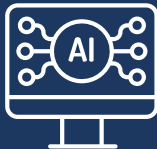















Research Domains

 Computational Sciences	<p>We focus on computational chemistry and physics, artificial intelligence, and the hardware that supports high-performance computing (HPC).</p> <p> 11 Research Units  4 Facilities  across 6 IIT centers</p>
 LifeTech	<p>We pursue the development of technology in molecular biology of RNA and neuroscience, using computational and AI methods extensively</p> <p> 32 Research Units  4 Facilities  across 7 IIT centers</p>
 Nanomaterials	<p>We design bespoke materials for the growing needs of sustainable development, energy, and healthcare, fine-tuning their intrinsic properties</p> <p> 27 Research Units  5 Facilities  across 6 IIT centers</p>
 Robotics	<p>We design a variety of robots in hardware and software that are engineered to work on factory floors, in homes, or in hospitals</p> <p> 14 Research Units  5 Facilities  at IIT headquarters</p>



Research Domains

 Computational Sciences	<p>We focus on computational chemistry and physics, artificial intelligence, and the hardware that supports high-performance computing (HPC).</p> <p> 11 Research Units  4 Facilities  across 6 IIT centers</p>	<p>162 scientists (Researchers, PostDocs and PhD students) 36 technicians (3 technologists) 10 PIs + 4 facility coordinator 2 ERC grant holders 18 ongoing European projects 83 patents</p>
 LifeTech	<p>We pursue the development of technology in molecular biology of RNA and neuroscience, using computational and AI methods extensively</p> <p> 32 Research Units  4 Facilities  across 7 IIT centers</p>	<p>332 scientists (Researchers, PostDocs and PhD students) 62 technicians (11 technologists) 32 PIs + 4 facility coordinators 12 ERC grant holders (8 grants ongoing) 43 ongoing European projects 256 patents</p>
 Nanomaterials	<p>We design bespoke materials for the growing needs of sustainable development, energy, and healthcare, fine-tuning their intrinsic properties</p> <p> 27 Research Units  5 Facilities  across 6 IIT centers</p>	<p>356 scientists (Researchers, PostDocs and PhD students) 53 technicians (9 technologists) 28 PIs + 5 facility coordinators 18 ERC grant holders (19 grants ongoing) 76 ongoing European projects 430 patents</p>
 Robotics	<p>We design a variety of robots in hardware and software that are engineered to work on factory floors, in homes, or in hospitals</p> <p> 14 Research Units  5 Facilities  at IIT headquarters</p>	<p>266 scientists (Researchers, PostDocs and PhD students) 141 technicians (8 technologists) 14 PIs + 5 facility coordinators 5 ERC grant holders (4 grants ongoing) 31 ongoing European projects 275 patents</p>

Flagships Programs

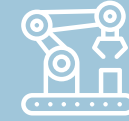
Visionary large-scale collaborations across Research Units and Domains with well-defined ambitious goals

Contribution of each Research Domain



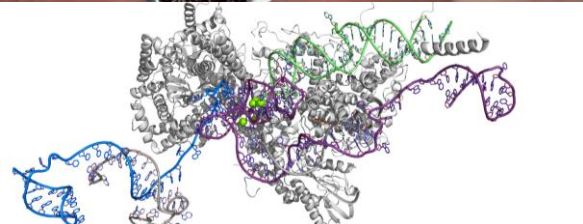
Technologies for Sustainability

We aim to manipulate matter at various scales to create a world without pollutants.



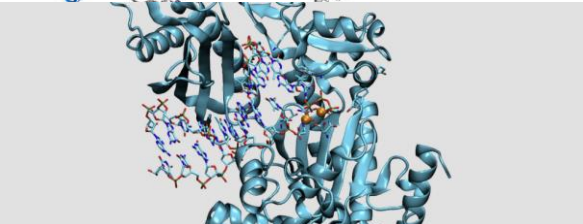
Brain and Machines

We aim to understand and model how the brain processes information to generate behavior.



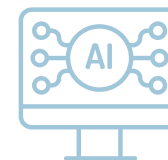
RNA Technologies

We aim to understand biology and to find druggable pockets in the molecular processes of cells.



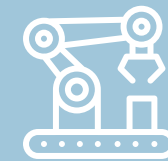
Teaching Science to Computers

We aim to develop new methods for instilling the laws of physics into data-driven algorithms.



Technology for Healthy Living

We aim to develop low-cost, noninvasive sensing devices to assess the health status of a person.



Blue Sky Research

A program aimed at fostering curiosity-driven science, whose outcomes can be unpredictable and surprising

The plan of action for Blue Sky Research at IIT

- **Scientific management** - evaluation processes that value discovery and assess excellence only
- **Attract the best minds** – invest in attractiveness, internationalization, education, and best researchers
- **Maintain and upgrade the laboratory infrastructure** - visionary research needs the best tools to blossom

“The Science of today is the Technology of tomorrow.”
Edward Teller – American-Hungarian Physicist (1908-200)



IIT in numbers



14

Centers

12 in Italy
2 US outstations
50.000 m² of labs



1884

Staff

70 countries
36 years average age
45% female, 80% scientific staff



881

Scientific Projects

464.4 MEUR
251 ongoing



21300+

Publications

697k+ citations



983

Commercial Projects

122.4 MEUR
180 ongoing



1321

Patents

443 inventions



17

Joint Labs



34

Start Ups

IIT Centers

50.000 m²
of labs



← IIT@MIT USA
IIT@Harvard USA
U.S. OUTSTATIONS

IIT CENTRAL RESEARCH LABORATORIES IIT NETWORK CENTERS



ISTITUTO ITALIANO DI TECNOLOGIA

Center for Convergent Technologies, Morego, GENOA (headquarters)



ISTITUTO ITALIANO DI TECNOLOGIA

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



ISTITUTO ITALIANO DI TECNOLOGIA

Center for Biomolecular Nanotechnologies, Università del Salento, LECCE



ISTITUTO ITALIANO DI TECNOLOGIA

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



ISTITUTO ITALIANO DI TECNOLOGIA

Center for Genomic Science, Campus IFOM-IEO, MILAN



ISTITUTO ITALIANO DI TECNOLOGIA

Center for Human Technologies, Erzelli, GENOA



ISTITUTO ITALIANO DI TECNOLOGIA

Center for Joint Industrial Research, GENOA



ISTITUTO ITALIANO DI TECNOLOGIA

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



ISTITUTO ITALIANO DI TECNOLOGIA

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



ISTITUTO ITALIANO DI TECNOLOGIA

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



ISTITUTO ITALIANO DI TECNOLOGIA

Center for Nanotechnology Innovation, Scuola Normale Superiore, PISA



ISTITUTO ITALIANO DI TECNOLOGIA

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



ISTITUTO ITALIANO DI TECNOLOGIA

Center for Robotics and Intelligent Systems, San Quirico, GENOA



ISTITUTO ITALIANO DI TECNOLOGIA

Center for Sustainable Future Technologies, Politecnico di Torino, TURIN



ISTITUTO ITALIANO DI TECNOLOGIA

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



ISTITUTO ITALIANO DI TECNOLOGIA

Center for Translational Neurophysiology, Università di Ferrara, FERRARA



ISTITUTO ITALIANO DI TECNOLOGIA

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



ISTITUTO ITALIANO DI TECNOLOGIA

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



IIT Staff



1884



70
countries



36 years
average age



45%
female



80%
scientists



IIT Staff



70
countries



36 years
average age



1884

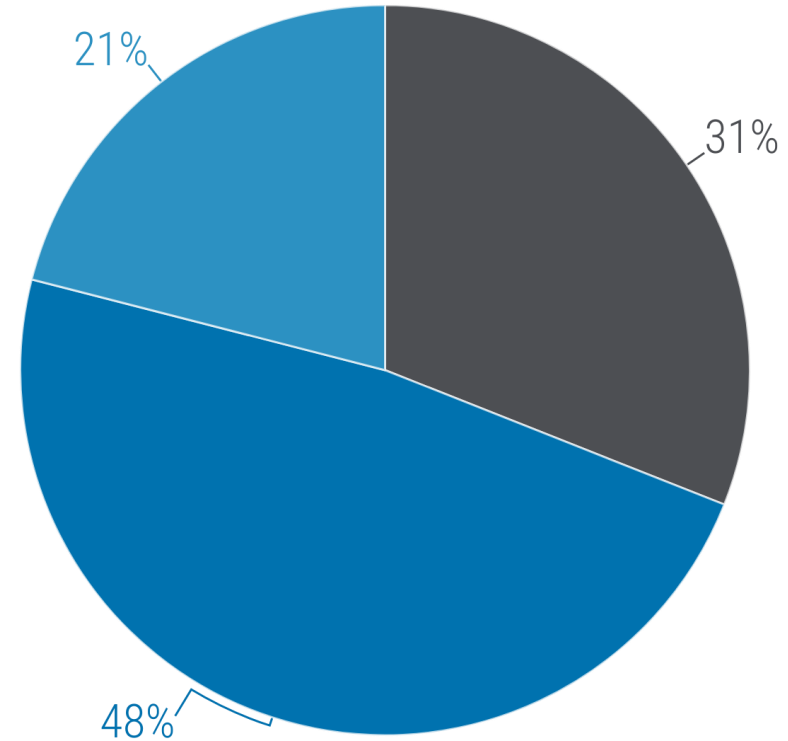


45%
female



80%
scientists

Origin
of the Scientific Staff (%)



● Foreigners ● Italians ● Italians from abroad



IIT Staff



1884



70
countries



36 years
average age

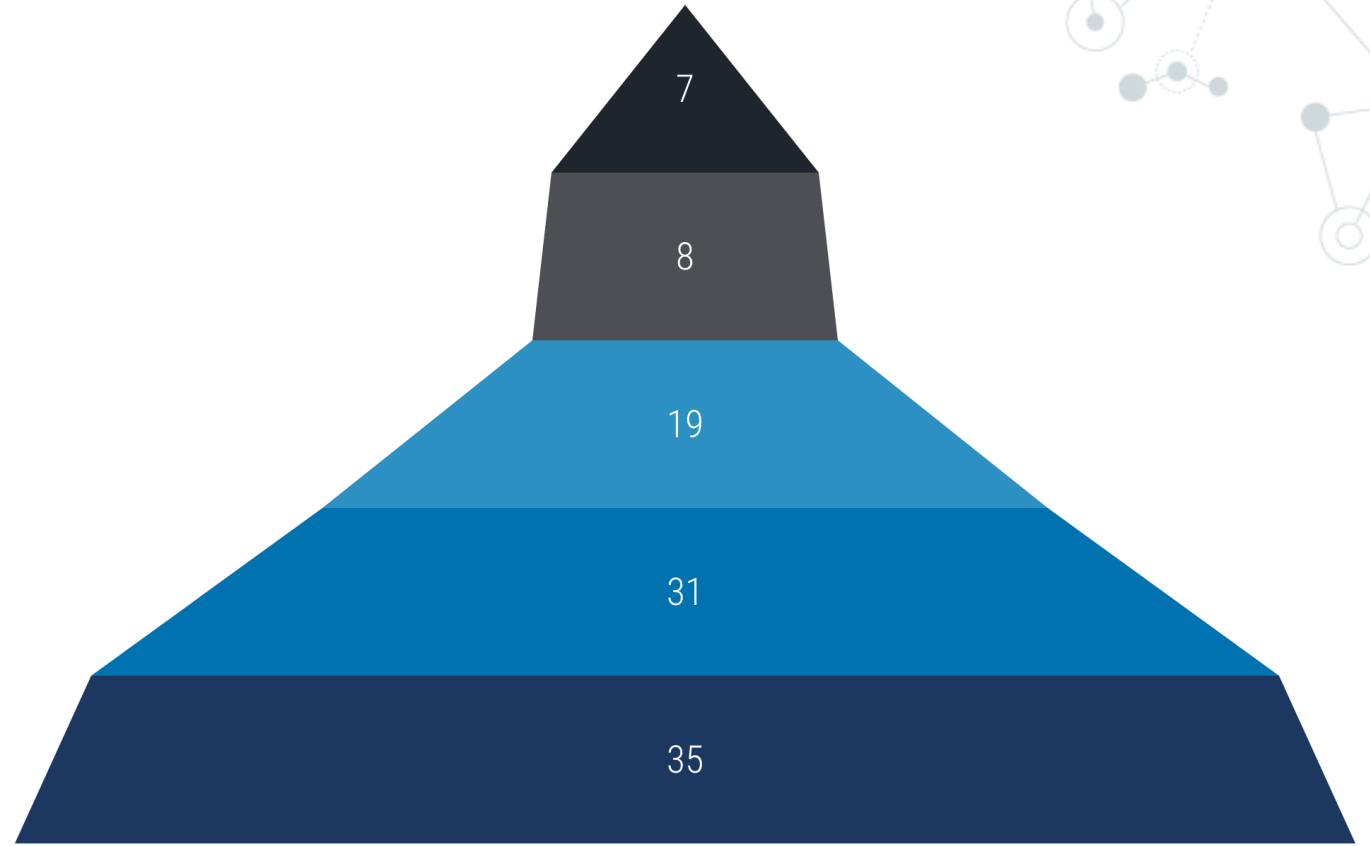


45%
female



80%
scientists

Composition of the Scientific Staff (%)



● Ph.D. Students ● Post Docs ● Technicians ● Researchers ● Group Leaders



Projects



1864
projects
431 ongoing



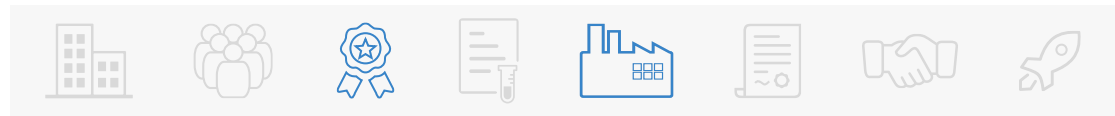
881
competitive
464.4 MEUR



983
industrial
122.4 MEUR



in-kind
30.2 MEUR



Projects



881
competitive
464.4 MEUR



1864
projects
431 ongoing

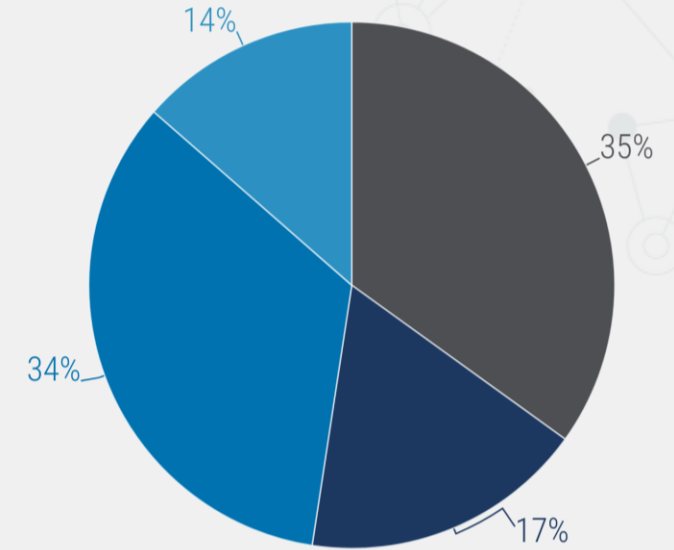
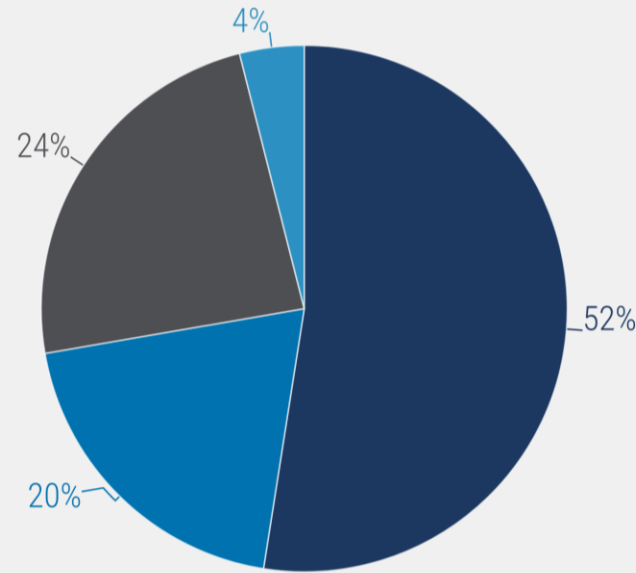


983
industrial
122.4 MEUR



in-kind
30.2 MEUR

Ongoing Scientific Projects
by funding source (on the left) and by research domain (on the right) (%)



● European
 ● Foundation
 ● National
 ● International
 ● LifeTech
 ● Robotics
 ● Nanomaterials
 ● Computational Sciences

133 European projects
59 national projects
50 foundation projects
9 international projects



Projects



881
competitive
464.4 MEUR



1864
projects
431 ongoing

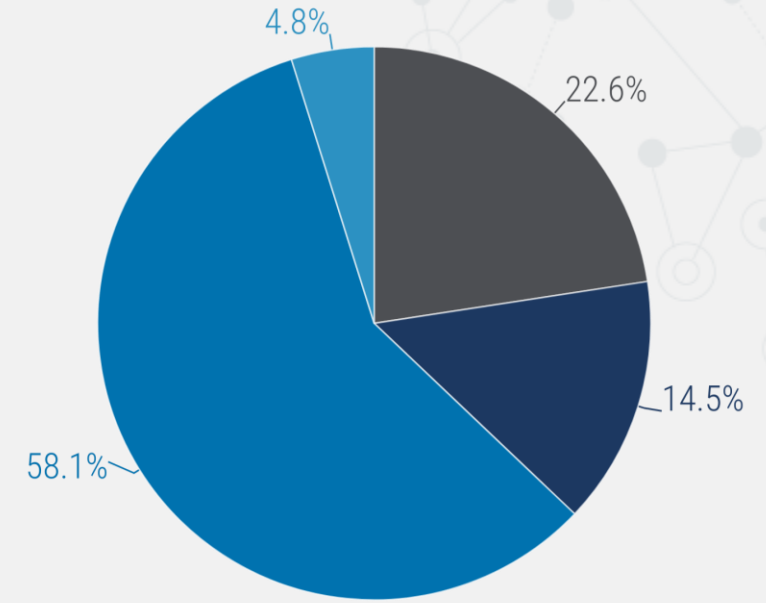
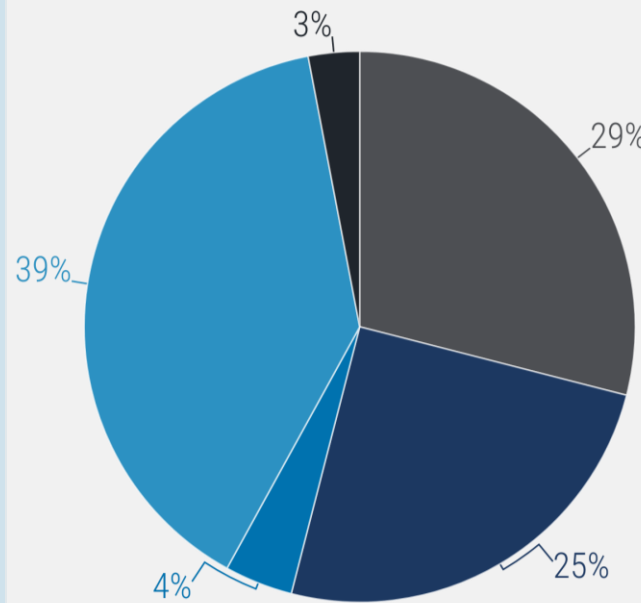


983
industrial
122.4 MEUR



in-kind
30.2 MEUR

European Research Council (ERC) grants
by grant type (on the left) and by research domain (on the right) (%)



● Start ● Consol ● Adv ● PoC ● Syn ● LifeTech ● Robotics ● Nanomaterials ● Computational Sciences

69 secured grants
36 ERC grant holders
30 grants ongoing



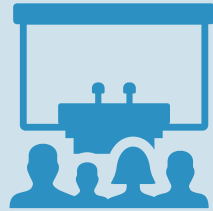
Publications



15.6k+
journal
papers
108k+ IF



21.3k+
publications
697k+ citations
(Scopus - Elsevier B.V.)

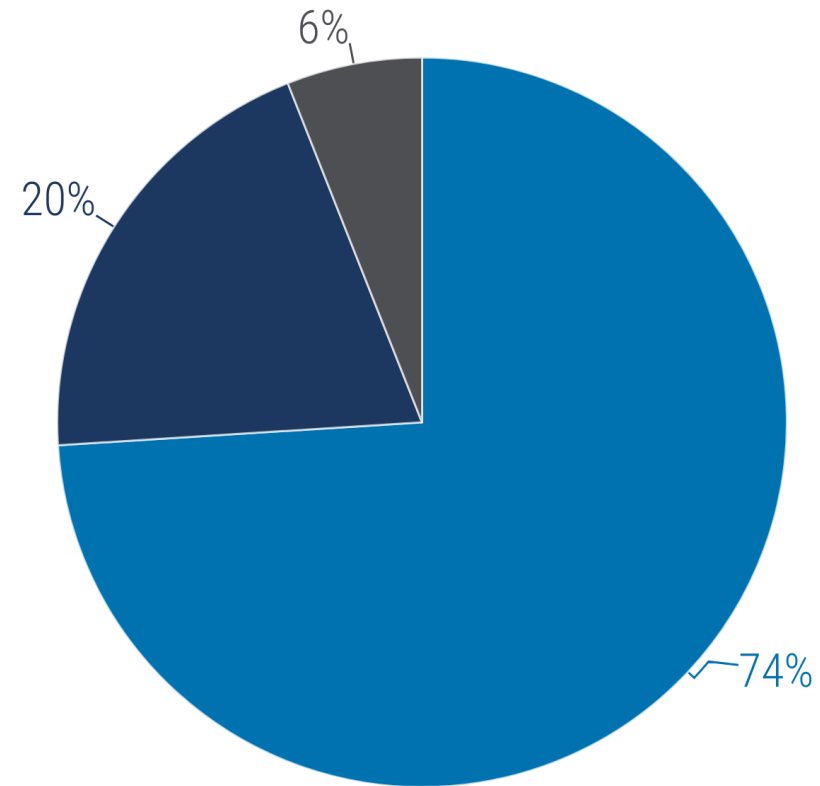


4.3k+
conference
proceedings



1.3k+
books/book
series

Publications Types (%)



● Journals ● Conferences ● Books/Book Series



Patents



1321
patents
443 inventions

Patent
Portfolio



8%

Computational
Sciences



25%

LifeTech



41%

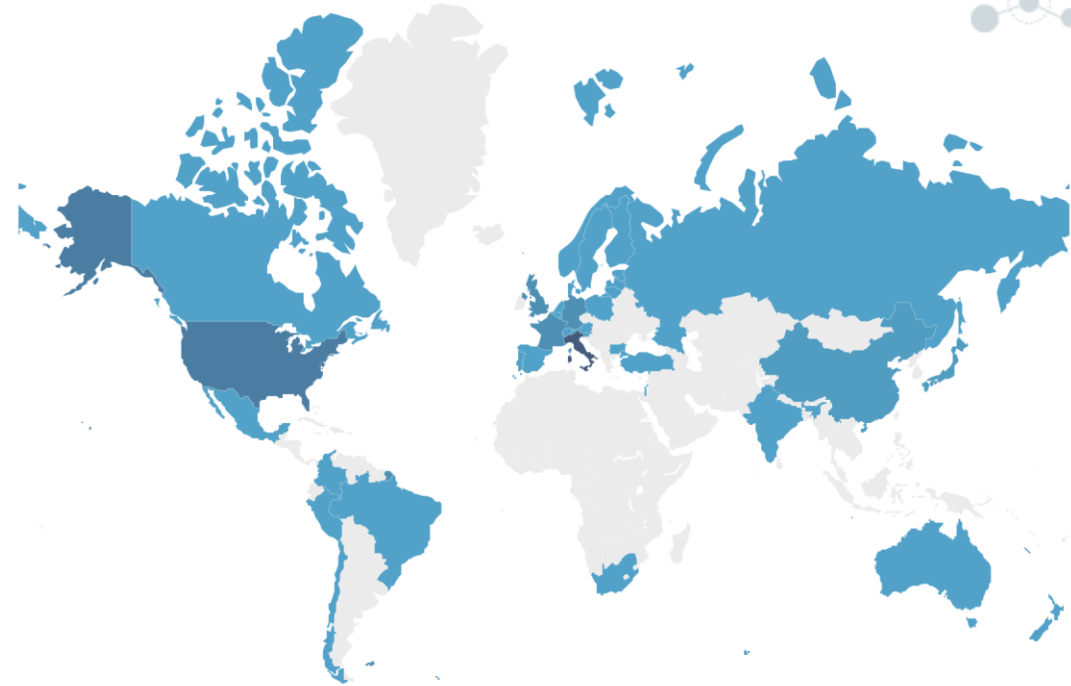
Nanomaterials



26%

Robotics

Patents Coverage Map



IIT Joint Labs⁽¹⁸⁾



DANIELI AUTOMATION



IIT Start Ups⁽³⁴⁾

(a selection)



