



Elettra Sincrotrone Trieste

G20 Delegation at Elettra Sincrotrone Trieste

The international research centre was chosen for the only delegation visit in the official agenda of the G20 in Trieste

The international research centre **Elettra Sincrotrone Trieste** has confirmed its strategic role for Italy, as it was chosen for the only delegation visit in the official agenda of the **G20** on "**Digital Economy and Research**", scheduled for 5 and 6 August. The visiting representation, made up of numerous personalities from the world of diplomacy and scientific research, saw the participation of a dozen Ministers and personalities attending the Trieste's meeting, accompanied by their delegations. List as follows:

Italy	Minister of University and Higher Education	Minister	Maria Cristina	Messa
Italy	Presidenza del Consiglio dei Ministri	Plenipotentiary Minister	Giuseppe	Scognamiglio
Australia	Australian Embassy in Italy	Ambassador	Margaret	Twomey
Brasil	Ministry of Science, Technology and Innovation	Minister of Science, Technology and Innovation	Marcos	Pontes
France	French Embassy in Italy	French Ambassador in Italy	Christian	Masset
Japan	Cabinet	Minister of State for Science and Technology Policy	Shinji	Inoue
Saudi Arabia	Ministry of Education	Minister of Education	Hamad	Al-Sheikh
South Africa	Ministry of Higher Education, Science and Innovation	Minister of Higher Education, Science and Innovation	Bonginkosi Emmanuel "Blade"	Nzimande
Turkey	Ministry of Industry and Technology	Minister of Industry and Technology	Mustafa	Varank
AU (Congo)	Ministry of Scientific Research and Technology Innovation	Minister of Scientific Research and Technology Innovation	José	Mpanda Kabangu
OECD	OECD	Deputy Secretary-General	Ulrik	Vestergaard Knudsen
UNESCO	UNESCO	Assistant Director General for Education	Stefania	Giannini

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Prof. **Alfonso Franciosi**, Chairman and CEO, welcomed the delegation to the newly inaugurated information room in Elettra's experimental hall, at the heart of the circular accelerator. During the short visit, the two accelerators on campus were explained: **Elettra** (a third-generation circular accelerator that has been operating for almost 30 years) and **FERMI**, the latest-generation linear accelerator operating since 2010. A special focus was given on the centre's organisational profile and competencies, that are made available to the almost **1500 researchers** from more than **50 countries** submitting research projects in a wide range of scientific disciplines every year. The two accelerators provide scientists from all over the world with continuous light on **34 beamlines, available 24 hours a day, 7 days a week**, and proactive international collaboration is already in place thanks to several partnerships with other countries and organisations (40% of research on Elettra comes from Italy, while the remaining 60% is international). FERMI - an accelerator with greater brilliance and coherence than Elettra - has **6 beamlines** and is **one of the three light sources worldwide making measurements and experiments with unique and very advanced characteristics**.

The President and CEO Franciosi recalled the countless international collaborations and active partnerships (such as those with IAEA, ICTP, Jülich Forschungszentrum, IIS Bangalore, Charles University, TU-Graz, CNR) and then focused on the opportunities to share beamlines and laboratories with national government bodies, which already happens with some countries that do not have a national synchrotron. He also mentioned the **technology transfer initiatives** implemented by the centre through **several industrial collaborations** on proprietary and patented research projects. Only few are the names and examples illustrated among corporate customers who choose and have chosen Elettra to carry out measurements and evaluate opportunities or to develop products. The fields of application are varied and range from structural biology to biotechnologies, development of new drugs, nanotech research, development and use of new materials, various medicine techniques and optical systems.

Emphasis was also placed on the project to enhance Elettra, which in 2025 will undergo a major upgrade to provide **light 1000 times brighter and 50 times more coherent** than today. Together with FERMI, it will make Elettra Sincrotrone Trieste a comprehensive research facility of **world-class excellence**, thus confirming its highly strategic role for the Italian scientific research system and in the field of technology transfer.

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