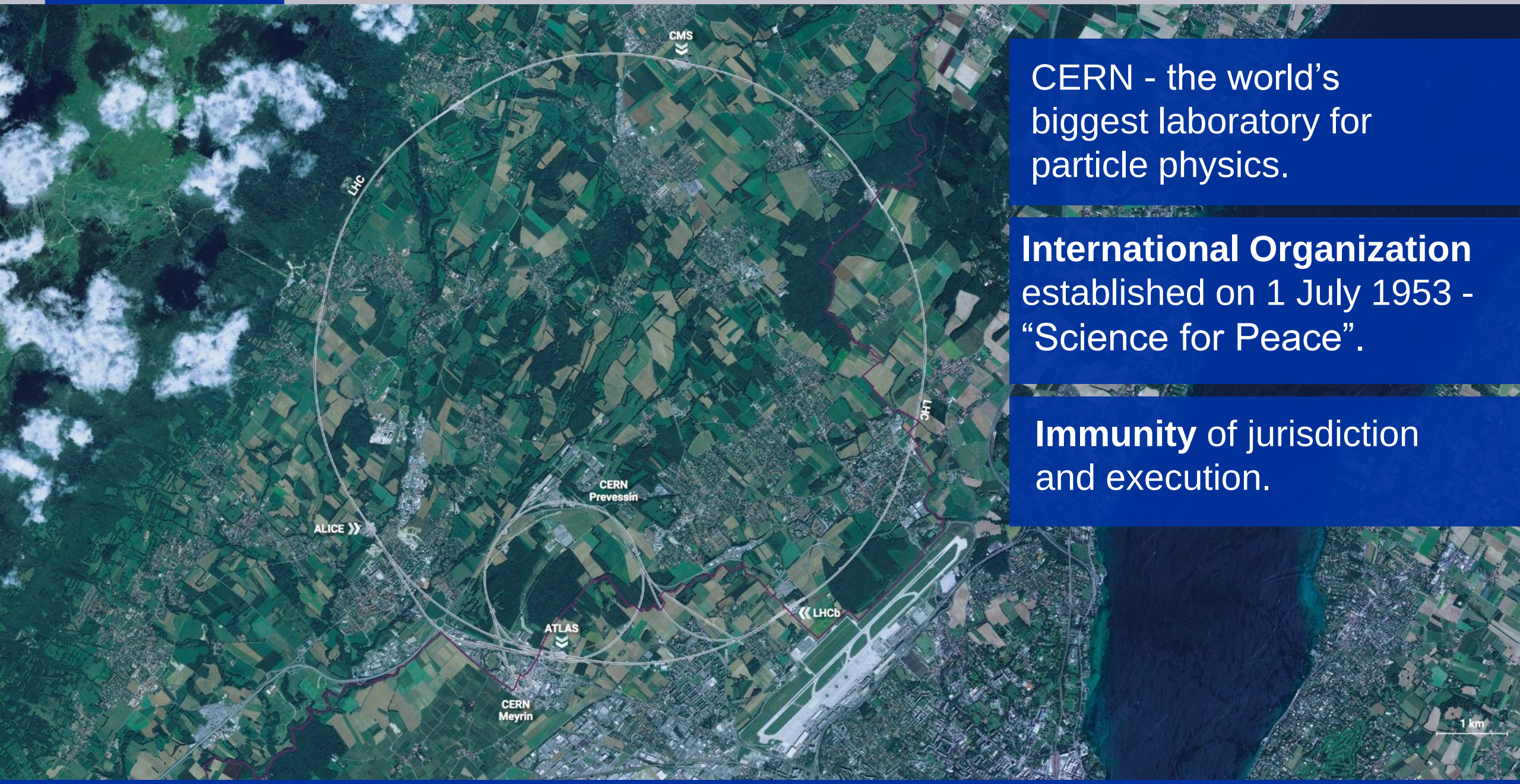
Doing Business With CERN

Big Science & CoE

NOMATEN Innovation Days

Adam Horridge 14th April 2026

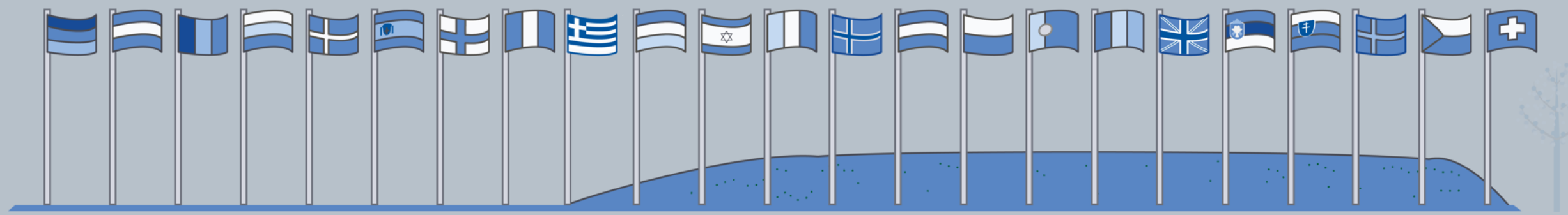


CERN - the world's biggest laboratory for particle physics.

International Organization established on 1 July 1953 - "Science for Peace".

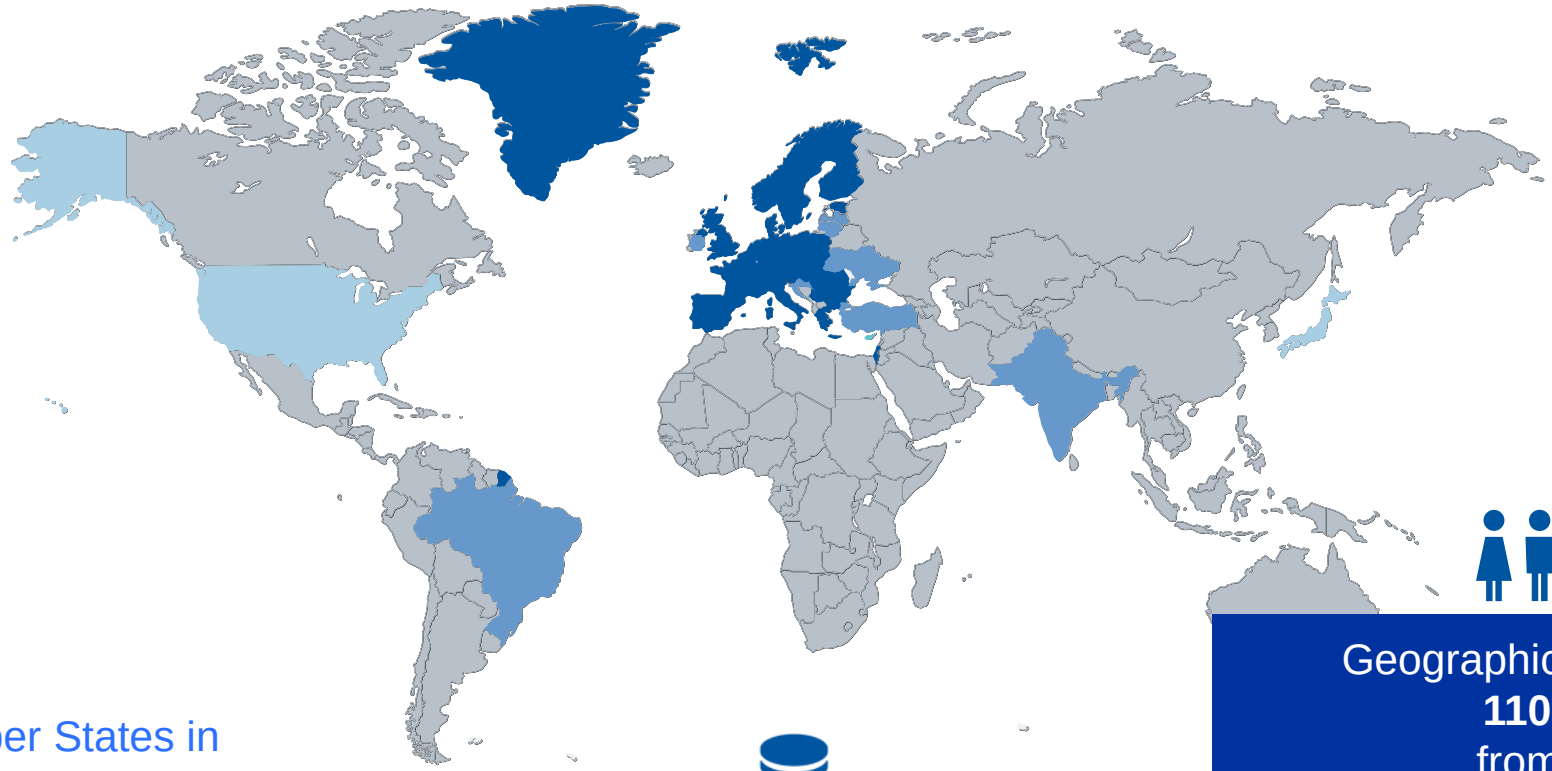
Immunity of jurisdiction and execution.

CERN is entitled to establish its own internal rules necessary for its proper functioning, including:



- Procurement Rules
- Safety Rules
- Staff Regulation of its own personnel

In 1954 CERN had 12 Member States
Today CERN has 25 Member States



25 Member States

1 Associate Member States in the pre-stage to membership

9 Associate Member States

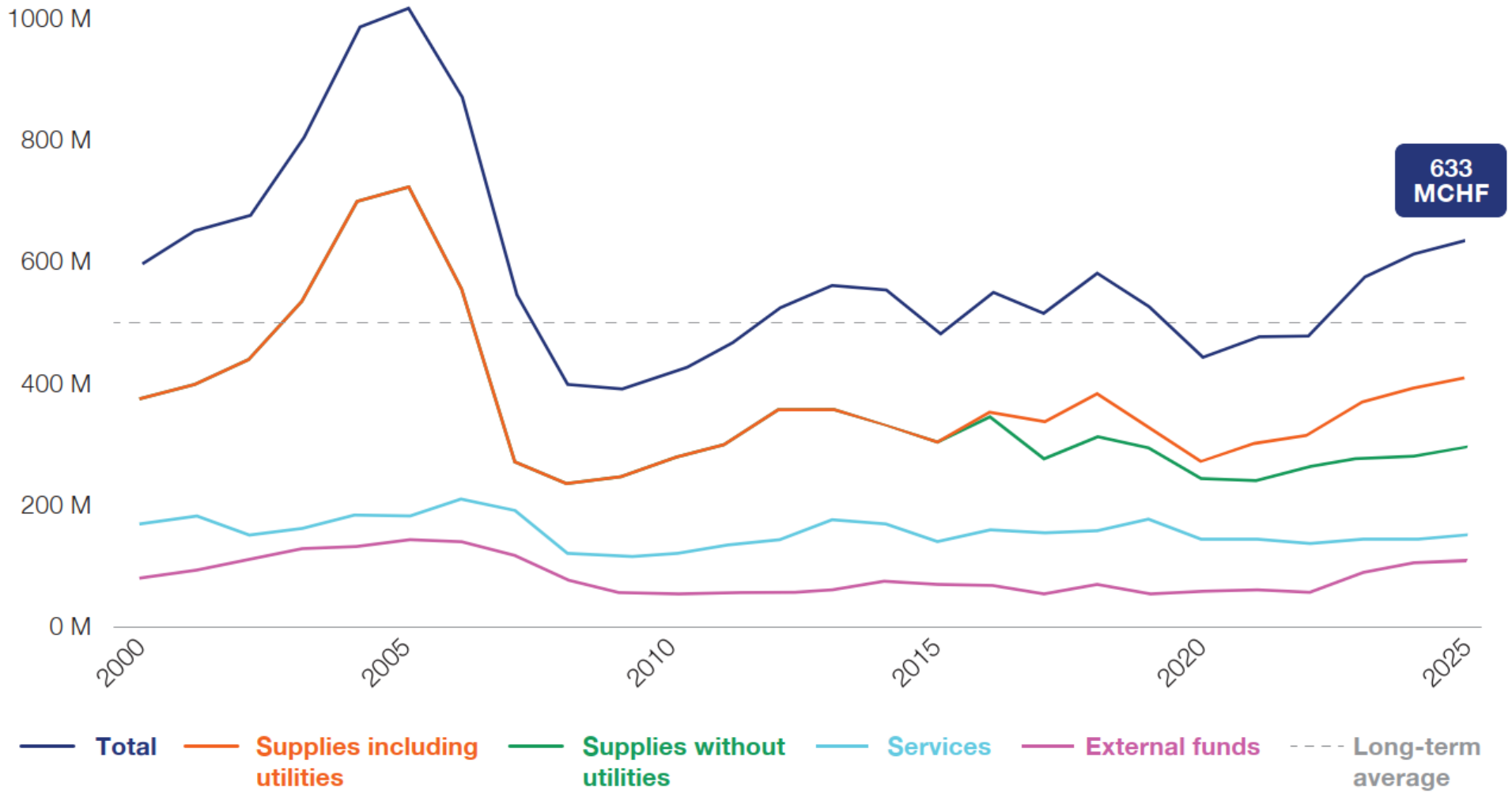
4 Observers

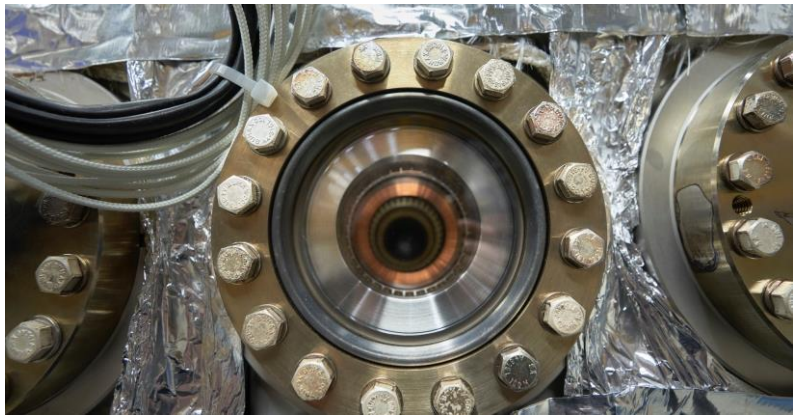
Yearly budget ~ 1300 MCHF

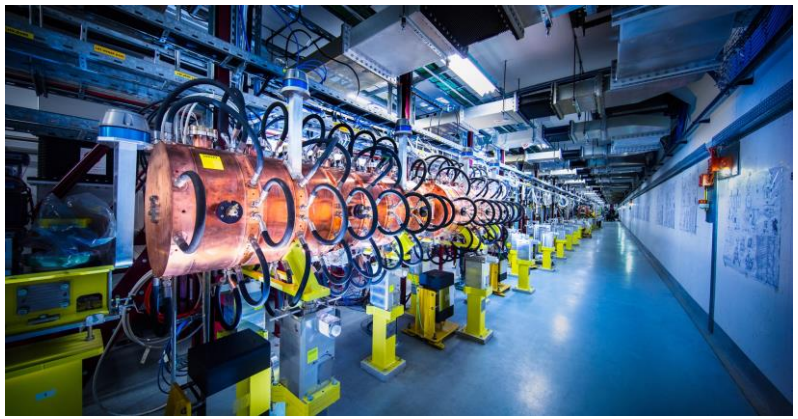
Geographical & cultural diversity
110 nationalities,
from **77** countries

~ 2,676 Staff members
~ 2,000 contractors' employees
~ 13,000 physicists /users

Procurement Expenditure





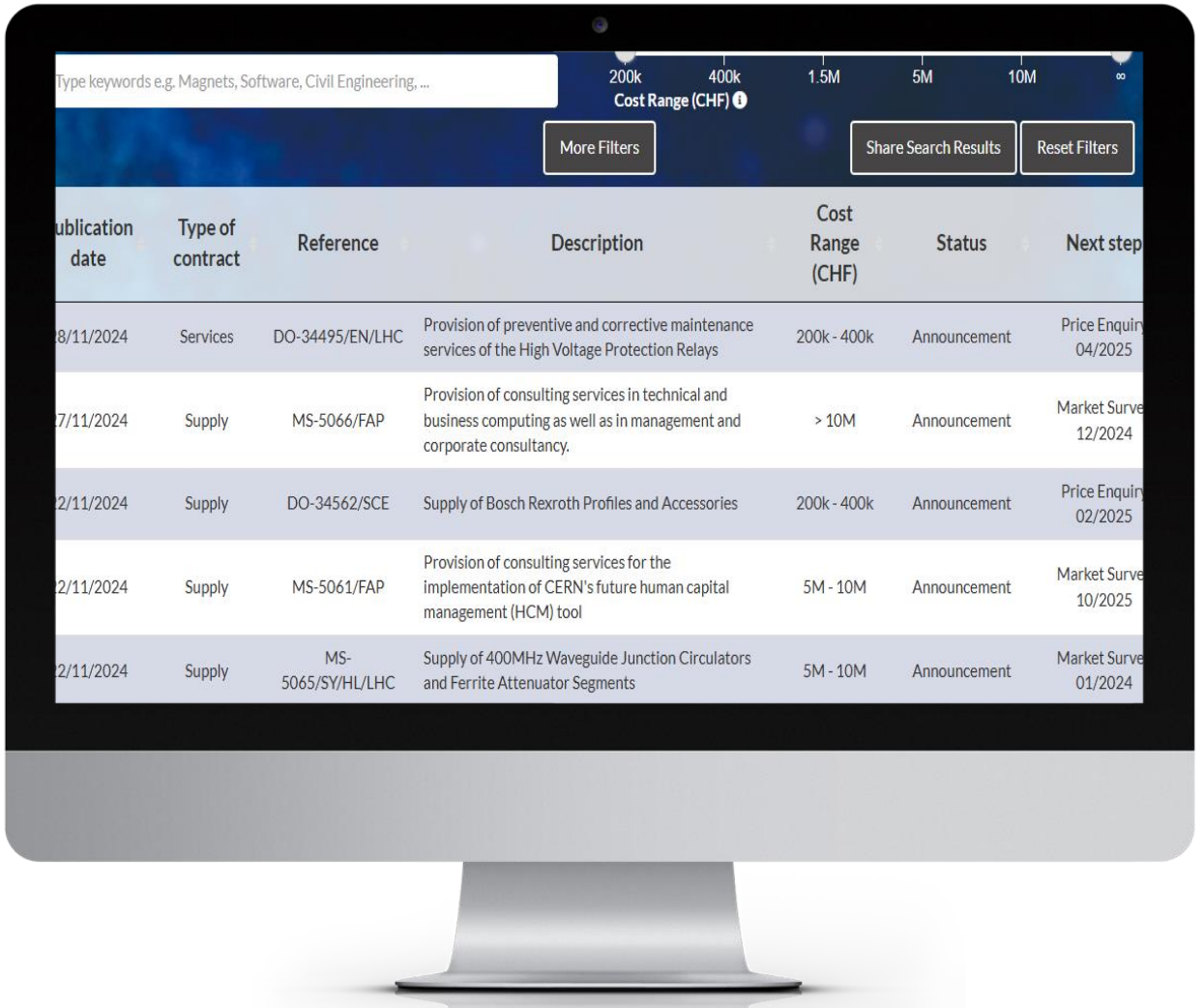


What do we buy?

- Civil engineering
- Cooling and ventilation
- Electrical engineering and magnets
- Information Technology
- Mechanical engineering and raw materials
- Electronics and radiofrequency
- Cryogenic and vacuum equipment
- Health and safety equipment,
- Transport and handling equipment
- Office supply, furniture
- Industrial services on the CERN site

Forthcoming Opportunities

CERN “Shopping List” – All requirements above 200k CHF



ublication date	Type of contract	Reference	Description	Cost Range (CHF)	Status	Next step
8/11/2024	Services	DO-34495/EN/LHC	Provision of preventive and corrective maintenance services of the High Voltage Protection Relays	200k - 400k	Announcement	Price Enquiry 04/2025
7/11/2024	Supply	MS-5066/FAP	Provision of consulting services in technical and business computing as well as in management and corporate consultancy.	> 10M	Announcement	Market Surve 12/2024
2/11/2024	Supply	DO-34562/SCE	Supply of Bosch Rexroth Profiles and Accessories	200k - 400k	Announcement	Price Enquiry 02/2025
2/11/2024	Supply	MS-5061/FAP	Provision of consulting services for the implementation of CERN's future human capital management (HCM) tool	5M - 10M	Announcement	Market Surve 10/2025
2/11/2024	Supply	MS-5065/SY/HL/LHC	Supply of 400MHz Waveguide Junction Circulators and Ferrite Attenuator Segments	5M - 10M	Announcement	Market Surve 01/2024

Forthcoming tenders

Tendering at CERN – A Quick Overview

“Price enquiry” (Demande d’Offre - DO)

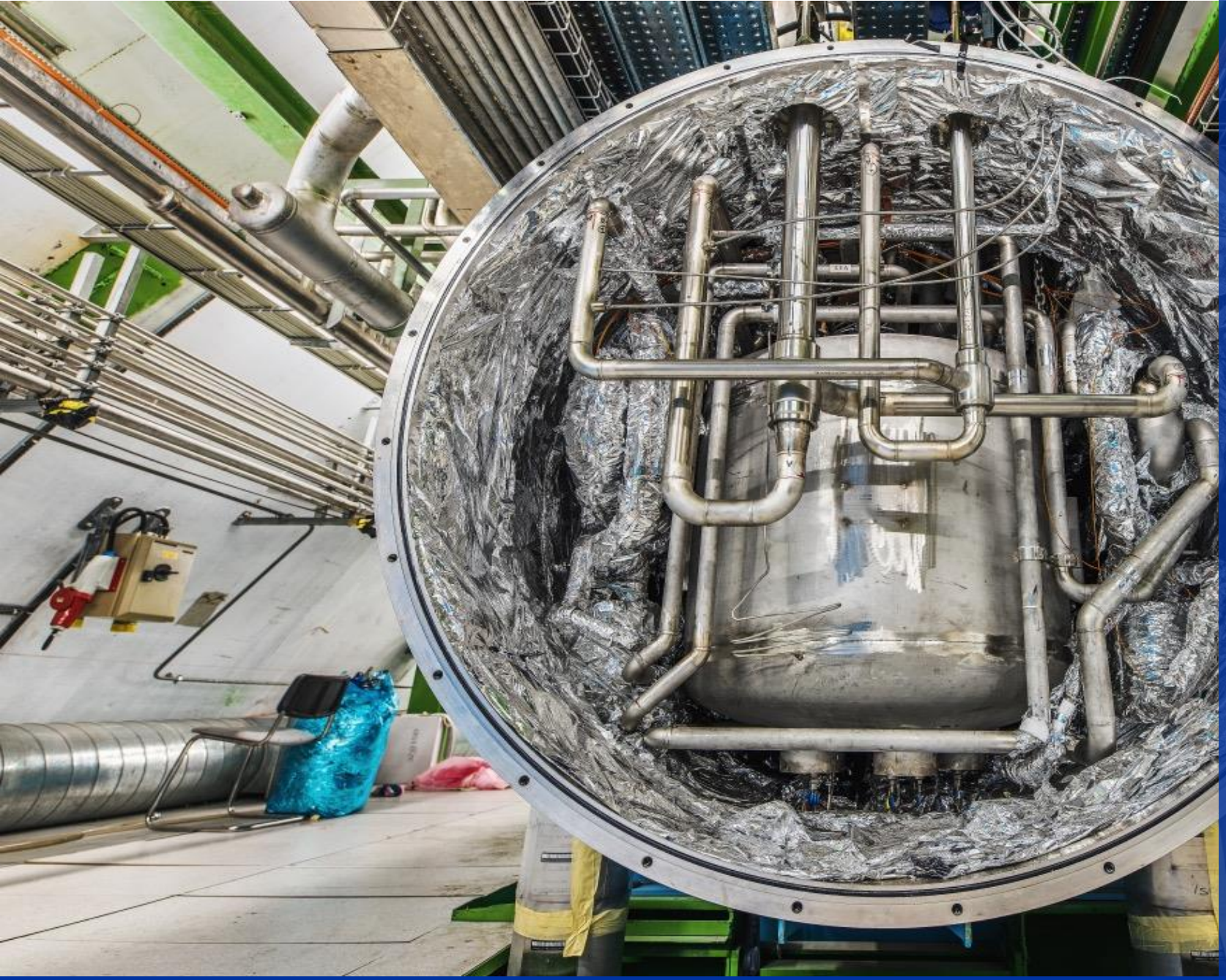
- **A single-step tendering process for requirements up to 400k CHF**

“Market Survey” (MS) >400k CHF

- **CERN’s prequalification phase to qualify and select suitable companies for tendering requirements above 400k CHF**

“Invitation to Tender” (IT)

- **Bidding phase for requirements above 400k CHF issued to qualified and selected firms**



Cooling & Ventilation, Cryogenics

NA-CONS: CT2 cooling upgrade and consolidation

Description & Specific Condition :

Design, supply, installation, testing and commissioning of the 5th cooling tower cell in CT2.

To meet the requirements of the additional load required by the new users that will be installed as part of the NA-CONS project, a 5th cooling tower cell will be added to CT2. This Invitation to Tender will cover the equipment to be installed in the cell, as well as consolidation works to the pumping station.

Start of the Contract: Q2 2027

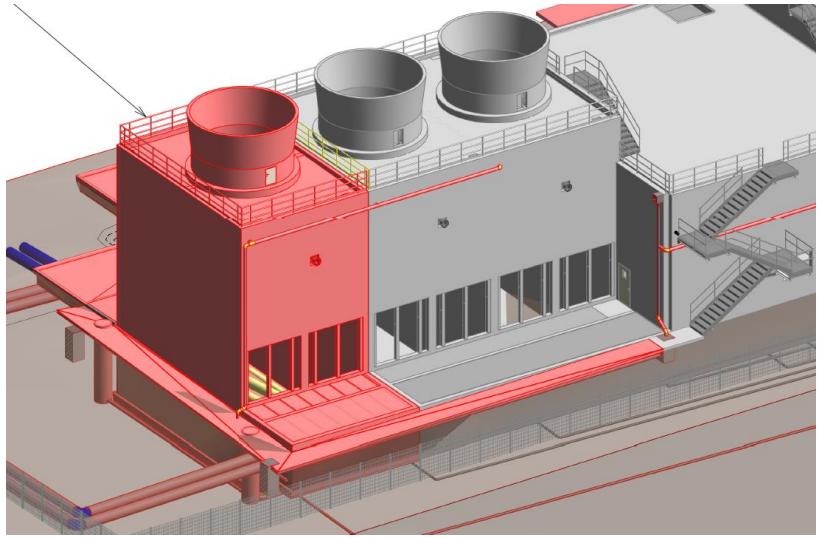
Procurement Code: 01 03 03 00

Cost Range : 400k - 1.5M CHF

Planning: MS: Q4 2026

IT: Q1 2027

Contact: laurentiu.vlasceanu@cern.ch



SRF/SA18 Cleanrooms construction (MS-5136/EN)

Description & Specific Condition :

Supply of the HVAC systems, installation of low voltage and safety systems, lighting, process fluids and IT network of the new building and the cleanrooms.

Key conditions:

- Experience in the construction of laminar flow ISO Class 4 cleanrooms and mixed flow ISO 8 cleanrooms of similar size and complexity.
- Experience in the installation of HVAC systems of similar size and complexity in accordance with applicable regulations.
- Experience in the installation of air treatment systems with wet scrubbers.

Start of the Contract: Q4 2026

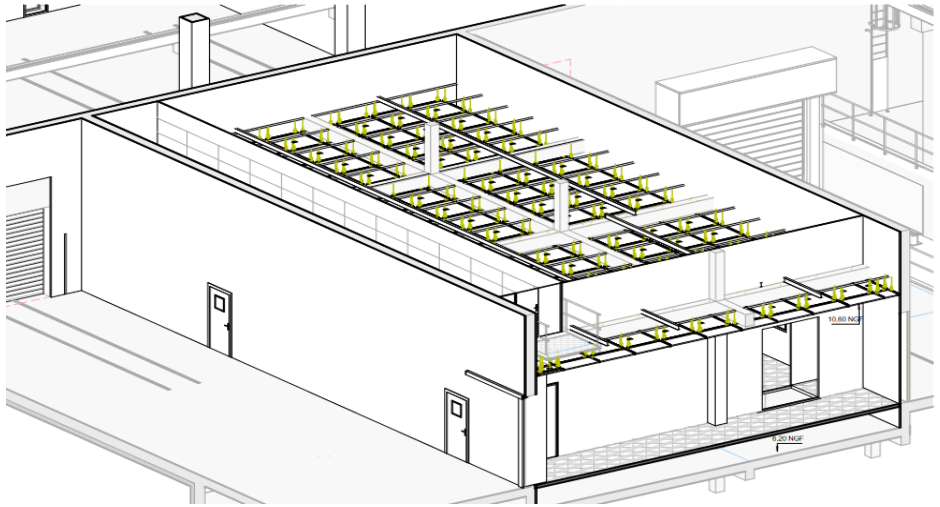
Procurement Code: 01 03 00 00

Cost Range : 5 MCHF ⇔ 10 MCHF

Planning: MS: **published**

IT: Q2 2026

Contact: **theodoros.aivaliotis@cern.ch**



SRF/SA18 Natural refrigerant heat pumps/chillers

Description & Specific Condition :

Supply of the air source heat pumps which will generate heating and cooling water for the new building SA18 at Point 1.8 of the LHC.

Key conditions:

- Experience in the supply of units of similar cooling and heating capacities.
- Utilisation of a natural refrigerant with very low GWP.
- Energy performance validated in accordance with EN14511.

Start of the Contract: Q4 2026

Procurement Code: 01 03 01 03

Cost Range : 400k - 1.5M CHF

Planning: MS: Q2 2026

IT: Q3 2026

Contact: theodoros.aivaliotis@cern.ch

Water treatment plant in point 1

Description & Specific Condition :

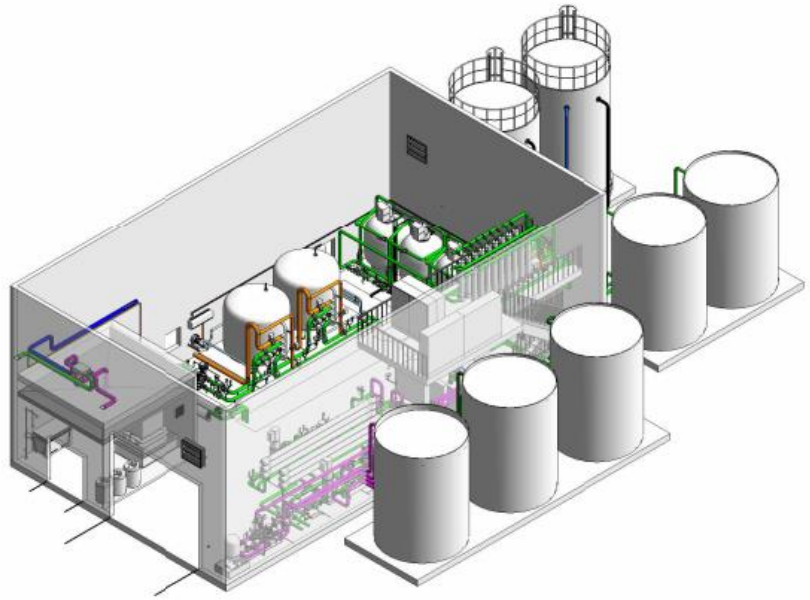
Design, supply, installation, test and commissioning of a water treatment plant including:

- Filtration: multimedia filters, ultrafiltration.
- Softeners.
- Reverse osmosis.
- Tanks and piping.
- Power and control cubicles.

Cost Range : 1.5M - 5M CHF

Planning: MS: Q1 2027 IT: Q3 2027

Contact: serge.deleval@cern.ch



UHV all metal angle valves (MS-5128)

Description & Specific Condition :

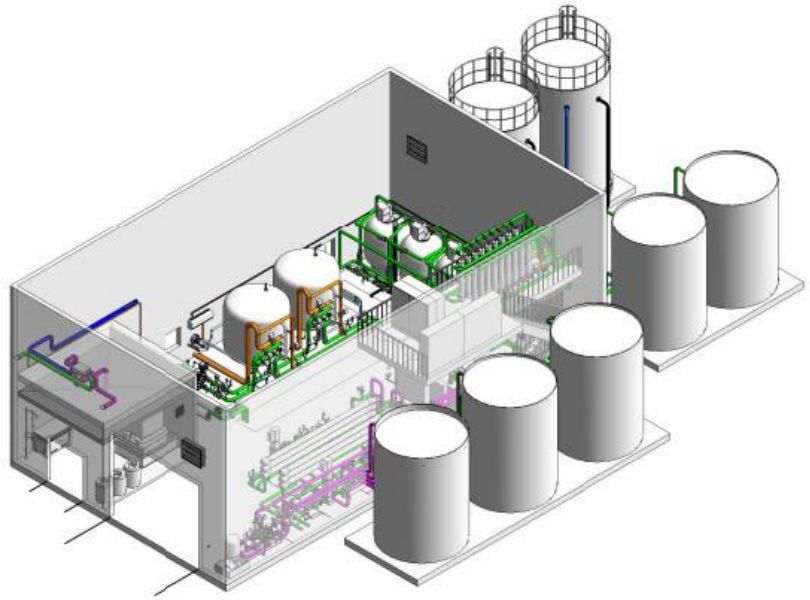
Supply of UHV all metal angle valves, including compatibility, spare parts and repairs on existing equipment including:

- Special valves with special flanges, asymmetric valve bodies and improved actuations.
- The valves shall guaranty extreme reliability and durability (several decades with only minor and basic on-site preventive maintenance).

Cost Range : 400k - 1.5M CHF

Planning: MS: Q2 2026 IT: Q4 2026

Contact: ja.ferreira@cern.ch



UHV all metal gate valves (MS-5132)

Description & Specific Condition :

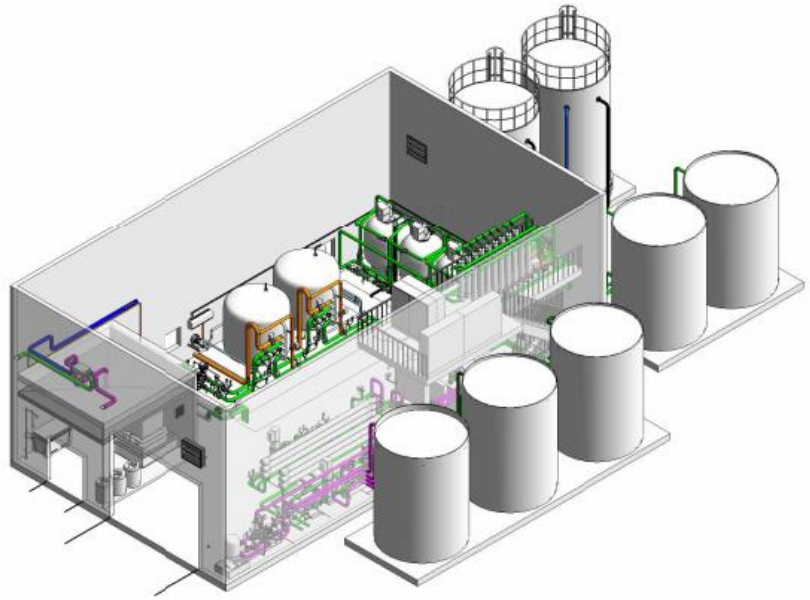
Supply of UHV all metal gate valves with and without RF contacts including compatibility, spare parts and repairs on existing equipment including:

- Special valves with special flanges, asymmetric valve bodies and improved actuations;
- The valves shall guaranty extreme reliability and durability (several decades with only minor and basic on-site preventive maintenance);
- The Contract will include the refurbishment of existing radioactive all metal gate valves with and without RF shielding at the Contractor's premises.

Cost Range : 400k - 1.5M CHF

Planning: MS: Q2 2026 IT: Q3 2026

Contact: ja.ferreira@cern.ch



Electrical Engineering, Magnets

Supply of Medium voltage secondary distribution switchgears (MS-5155/EN)

Procurement Code: 02020200 - High Voltage (HV) switchboards (1 000 < U <= 50 000 V)

Cost Range : 400k – 1.5M CHF

Planning: **MS : published**
IT : Q2 2026
Contract start: Q3 2026

Scope:
Blanket contract (5 years) for the supply of about 50 cubicles for indoor switchgear with highest system voltage of 24 kV and minimum short circuit current withstand 20 kA

Eligible Firm Profile

Interested firms shall have a proven experience and competence in the fields of engineering, manufacturing, installation, commissioning and maintenance services for electrical distribution switchgear. The company shall design and manufacture metal clad compact medium voltage switchgear with a voltage rating up to 24 kV or higher.

Contact: Giuseppe.Cappai@cern.ch

Supply of 240km of Round Scintillating Plastic Fibres (MS-5142/EP)

Description & Specific Condition :

Scope:

- 240 km of round scintillating plastic fibres, including samples;
- Testing;
- Quality documentation.

Main requirements:

- fibres shall have a round section of D = 1.5 mm diameter;
- Bending radius: 300 mm without performance loss;
- Peak emission around 530 nm;
- Intrinsic scintillation yields above 6000 photons/MeV;
- Radiation tolerance.

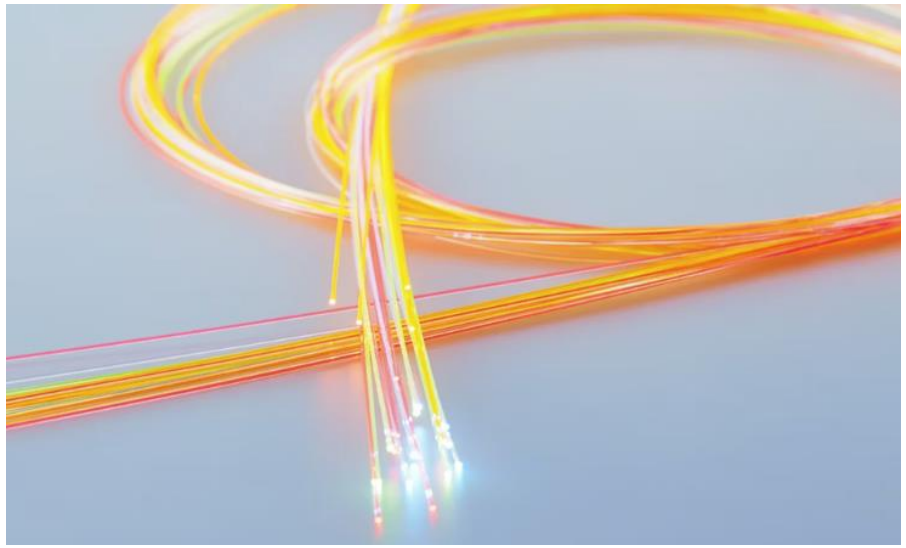
Eligible firm profile: Proven competence and experience in scintillating plastic fibres production.

Procurement Code: 07030201 – Scintillating Fibres

Cost Range : 400k - 1.5M CHF

Planning: **MS: dispatched** IT: Q2 2026

Contact: matteo.Salomoni@cern.ch



Supply of low voltage cables (MS-5156/SCE)

Procurement Code: 02 05 00 00 (Cables)

Cost Range : 400k – 1.5M CHF

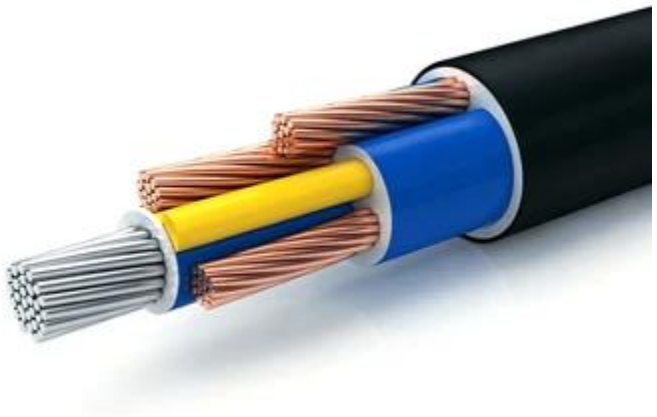
Planning: MS : Q2 2026
IT: TBC
Contract start: TBC

Scope:

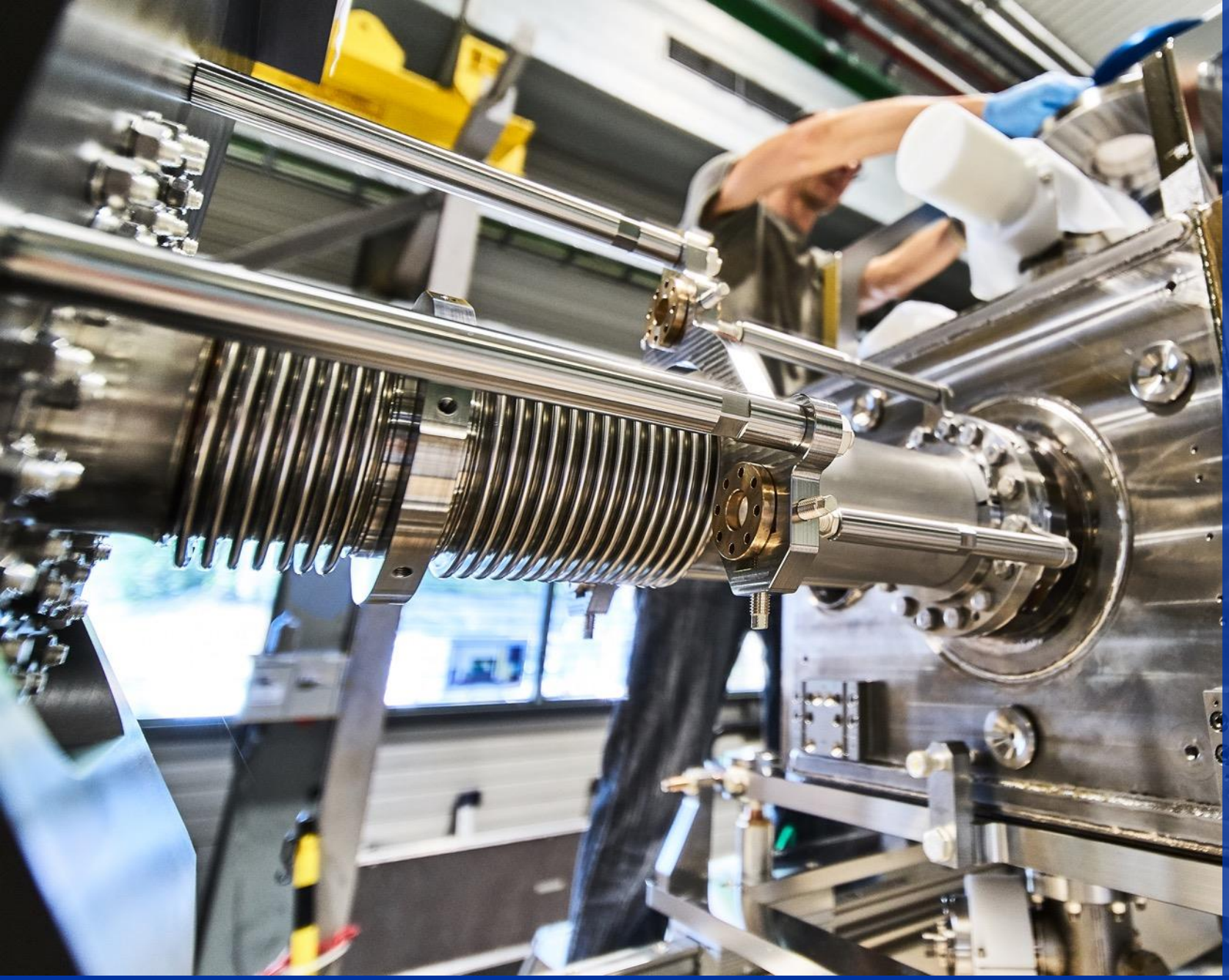
- General Purpose (500kGy), Radiation Tolerant (3.5MGy) and Special Radiation Resistant (10MGy) Cables
- Wires, low-voltage power, signal, telecom, coaxial and special cables
- Qualification phase during MS (Radiation, Fire and Mechanical)

Duration: 5 years

Eligible Firm Profile: Interested firms shall have a proven experience and competence in manufacturing low voltage cables designed to withstand, at least, 500 kGy (RI 5.7 according to IEC 60544-4) and fires.



Contact: Didier.Steyaert@cern.ch



Mechanical Engineering, Raw Materials

Stainless-steel sheets and plates EN 1.4429 AISI 316LN for Ultra-High Vacuum applications (MS-5056/SCE)

Procurement Code: 05 01 01 02 (Stainless Steel)

Cost Range : 400k – 1.5M CHF

Planning: **MS : published**
IT: Q2 2026
Contract start: Q4 2026

Scope:

- Supply of 80T stainless steel sheets and plates;
- EN 1.4429 AISI 316LN (Electroslag Remelting ESR)

Duration: 5 years

Eligible Firm Profile: Interested firms shall have proven experience and competence in metallurgy, manufacturing, forging and testing of the above-mentioned material.

Contact: Leila.akhouay@cern.ch

Stainless-steel sheets and plates EN 1.4306 AISI 304L for High Vacuum applications (MS-5054/SCE)

Procurement Code: 05 01 01 02 (Stainless Steel)

Cost Range : 1.5M – 5M CHF

Planning: **MS : published**
IT: Q2 2026
Contract start: Q4 2026

Scope:

- Supply of 70T stainless steel sheets and plates;
- EN 1.4306 AISI 304L

Duration: 5 years

Eligible Firm Profile: Interested firms shall have proven experience and competence in metallurgy, manufacturing, forging and testing of the above-mentioned material.

Contact: Leila.akhouay@cern.ch

Cu-OFE (Oxygen-Free Copper) sheets and plates for Ultra-High Vacuum applications (MS-5057/SCE)

Procurement Code: 05 01 01 03 (Copper)

Cost Range : 400K – 1,5M CHF

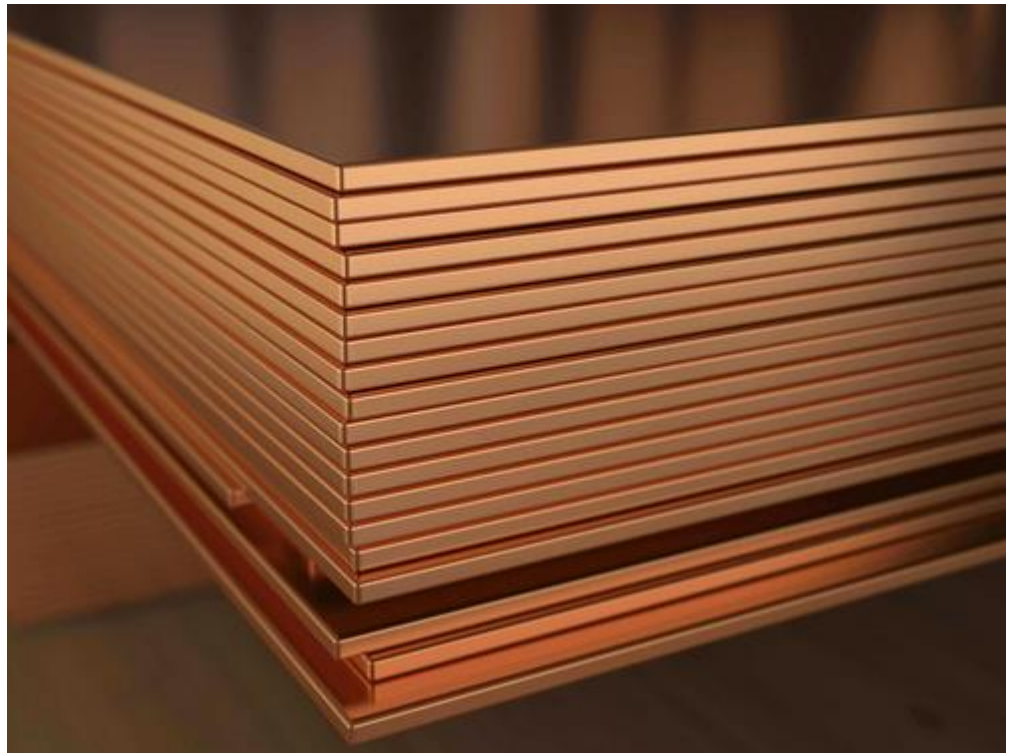
Planning: MS : Q2 2026
IT: Q4 2026
Contract start: Q1 2027

Scope:

- Supply of 50T Oxygen- Free Electronic copper (UNS C10100) Grade 1, according to ASTM B224 with a maximum oxygen content of 5ppm

Duration: 5 years

Eligible Firm Profile: Interested firms shall have proven experience and competence in metallurgy, manufacturing, forging and testing of the above-mentioned material.



Contact: Leila.akhouay@cern.ch

CuCr1Zr blanks for XTAX (DO-34736/BE)

Procurement Code: 05 01 03 03 (Copper, copper alloys)

Cost Range : 200K – 400k CHF

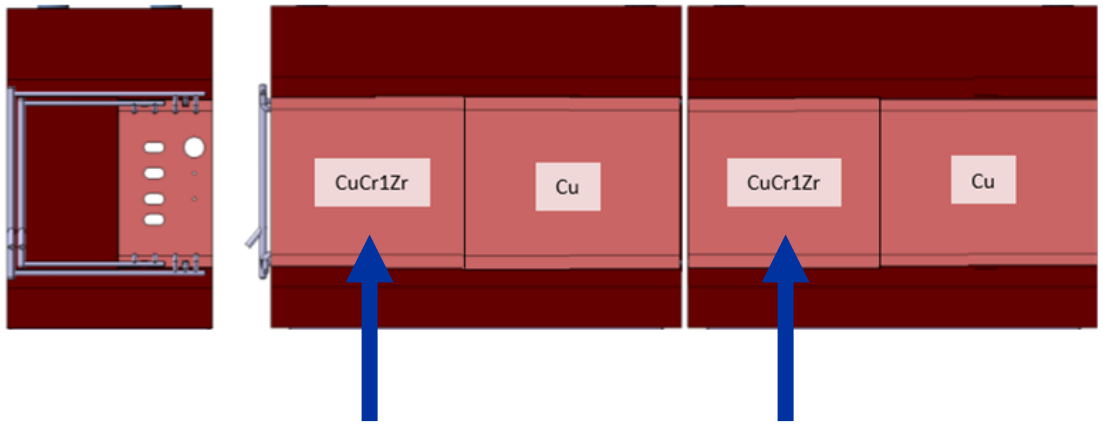
Planning: DO: Q2 2026
Contract start: Q3 2026

Scope:

- Supply of forged CuCr1Zr blanks in various shapes and sizes
- Material: CuCr1Zr CW106C according to EN 12420, multi-directional forged, solution annealed, and precipitation hardened. Delivered in temper H120 (according to EN 12167).
- Overall tolerances: ISO2768 – cL
- Delivery by July 2026

Eligible Firm Profile:

Interested firms shall have proven experience and competence in forging, machining, and material testing.



6x DIMENSIONS : 300x810x420 mm³

2x DIMENSIONS : 800x810x420mm³

1x DIMENSIONS : 300x800x170mm³

Contact: miguel.lino@cern.ch

Cast Iron for XTAX (MS-5075/BE)

Procurement Code: 05 01 04 01 (Cast iron, steel)

Cost Range : 1,5M – 5M CHF

Planning: MS : published
IT: Q2 2026
Contract start: Q4 2026
Delivery by end 2027

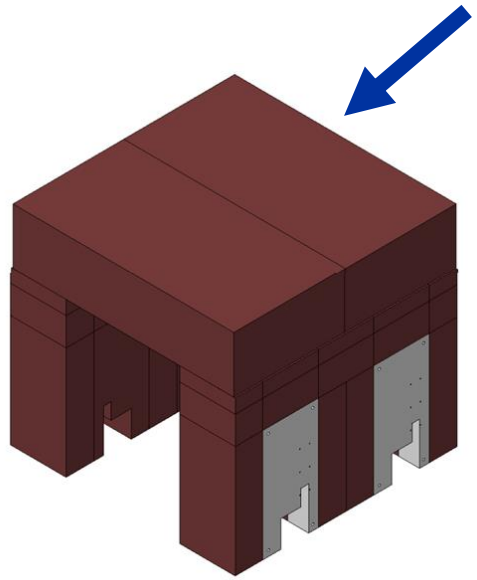
Scope:

- Supply of 190 T of Cast Iron Blocks machined in various shapes and sizes.
- Main materials: Nodular Iron GJS – 400-18U-RT, acc. to EN 1563
- Paint: Primer anti-radiation: Inorganic zinc silicate; 2nd layer epoxy coat; (3rd layer red 3005)
- Overall tolerances: ISO2768 - cL

Eligible Firm Profile:

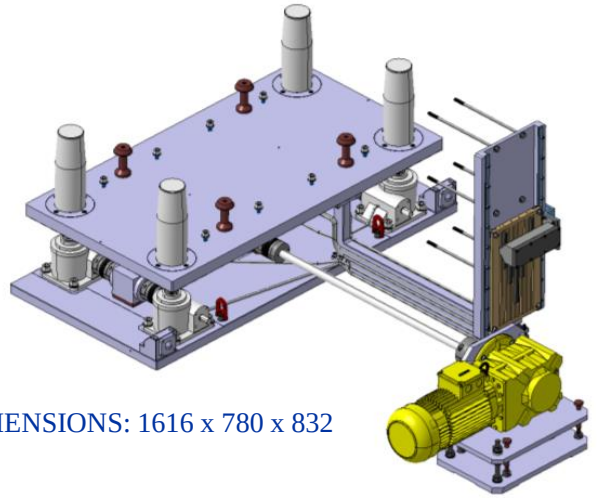
Interested firms shall have proven experience and competence in casting, machining, and material testing.

Quantity	Overall dimensions (mm^3)
6	1620 x 1030 x 500
2	1620 x 800 x 720
6	390 x 1080 x 500
2	390 x 1080 x 800
6	820 x 1080 x 500
2	820 x 1080 x 800
3	780 x 1080 x 500
1	780 x 1080 x 800
6	1615 x 490 x 927
6	1615 x 300 x 419
6	1615 x 800 x 295
2	1610 x 490 x 918
2	1610 x 700 x 300
2	1610 x 800 x 412
2	1615 x 800 x 419
2	1615 x 800 x 295



Contact: miguel.lino@cern.ch

Tables for XTAX (MS-5076/BE)



QTY: 8; DIMENSIONS: 1616 x 780 x 832 mm³

QTY: 1; DIMENSIONS: 3200 x 780 x 832 mm³ (non motorized)

Procurement Code: 05 01 01 04 (Aluminium, aluminium alloys)
05 01 01 02 (Stainless steel)

Cost Range : 400K – 1,5M CHF

Planning: MS : Q2 2026
IT: Q3 2026
Contract start: Q4 2026, delivery by May 2027

Scope:

- Supply of alignment tables which are a Z displacement (300 mm) device, designed to support and lift 15T of operational load with all controls and driving systems placed outside the table footprint.
- Stroke: +/-150 mm; Operational Load 15 T; Speed: 100 mm/min
- Each table is equipped with a manual alignment system on its base providing 5 DOF with the following specifications:
- Resolution: 0.1mm; Stroke: y: +/- 5 mm; Z: +/- 3mm; Rx: +/- 7 mrad; Ry: +/- 7 mrad; Rz: +/- 7 mrad
- Main materials: AL EN AW6082, Stainless Steel A4, Stainless Steel 304
- General machining tolerances ISO2768 – mk
- All components must be radiation hard > 100kGy in 20 Yrs.

Eligible Firm Profile

Contact: miguel.lino@cern.ch

Interested firms shall have proven experience and competence in machining, precision assembly, and metrology and material testing.

Information Technology

Supply of computing containers MS-5141/EP/ATLAS

Procurement Code: 01020701 (Data Centre containers)

Cost Range : 1.5M - 5M CHF

Planning: MS: Q2 2026
IT: Q4 2026
Contract Start: Q2 2027

Scope:

- Supply of computing containers with racks and air handling units for ATLAS
- CERN intends to place a contract for the supply of two computing containers each housing 25 racks and equipped with air handling units. Total power capacity: 1MW. One container to include water treatment and electrical switching services.

Eligible Firm Profile:

- Interested firms shall have a proven experience and competence in the supplying computing containers and racks equipped with air handling units. Containers must be equipped with remote monitoring interfaces.

Contact: markus.joos@cern.ch

Supply and Installation of Audio-Visual and Lighting Equipment for the Globe Auditorium (MS-5143/IR)

Procurement Code: 04040700 (Audio-visual control systems), 04040600 (Audio devices), 04040900 (Lighting equipment for video), 08010502 (Video camera and video devices)

Cost Range : 400k - 1.5M CHF

Planning: MS : **published**
IT: Q2 2026
Contract start: Q3 2026

Scope:

- Supply and installation of equipment for around 75 conference rooms including three auditoriums
- Includes system schematics, rack layouts, cabling schedules, room layouts

Duration: One-year, blanket purchase contract renewable for up to two further periods on one year each.

Eligible Firm Profile:

- Interested firms shall have a proven experience and competence in the domain of audiovisual supply and installation. The use of an acrobatic worker is required for certain components that require specialised access.

Contact: gilles.gautheron@cern.ch

Health & Safety Machines

Heat Reaction Furnace (MS-5161/TE)

Description & Specific Condition :

Manufacture, delivery and installation of a Heat Reaction Furnace for RHT treatment of Nb3Sn coils.

The supply will strengthen CERN's internal capacity in heat treatment for the future production of short models of Nb3Sn coils (HFM and future projects), with high accuracy required and reproducibility throughout the duration of our projects. The furnace shall have a minimum useful length of 2500 mm, minimum useful diameter of 900 mm, maintain a temperature up to 850 °C with a uniformity of +/-3 °C in the internal volume, an automated system control, among other requirements.

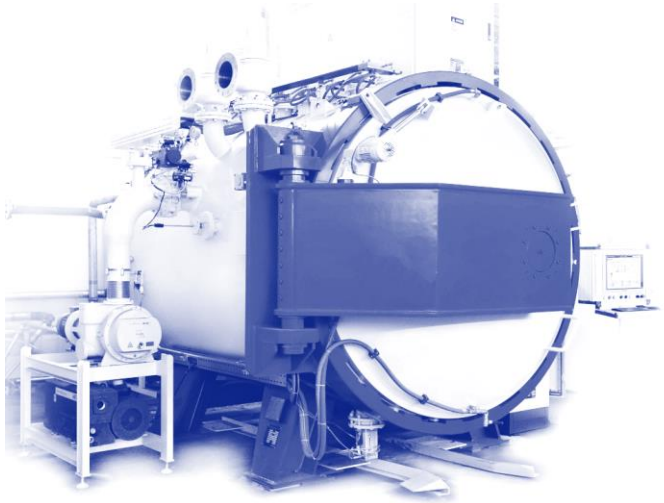
Start of the Contract: Q4 2026

Contact: **Jerome.axensalva@cern.ch**

Procurement Code: 05 03 04 00 (Heat treatment and furnaces equipment)

Cost Range : 400k - 1.5M CHF

Planning: MS: **published** IT: Q2 2026



Supply of Fire Partitions for LS3 (MS-5164/SCE)

Procurement Code: 01 02 04 25 (Fire-proofing material)

Cost Range : 400k - 1.5M CHF

Planning: MS : Q2 2026
IT: Q3 2026
Contract start: Q4 2026

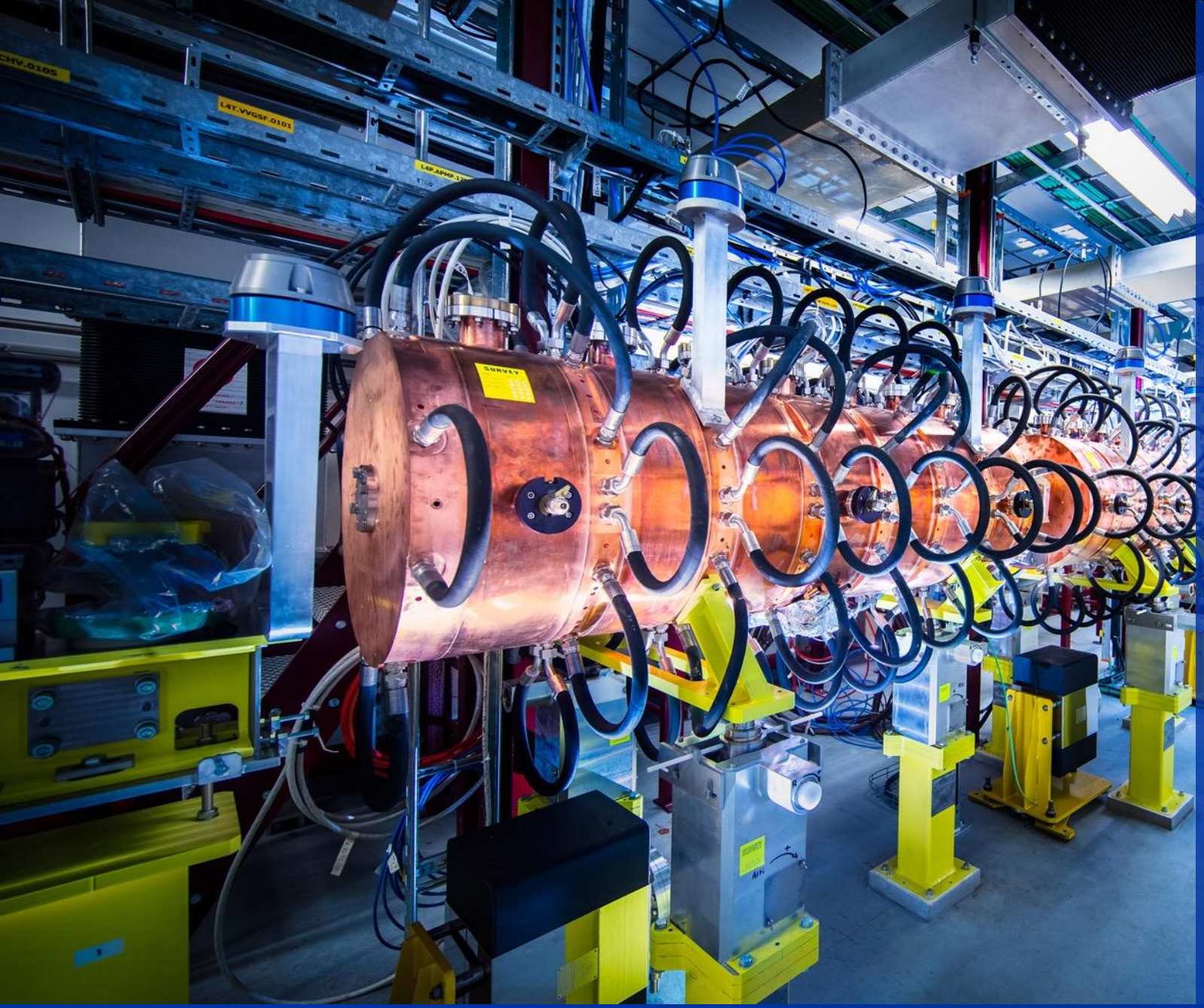
Scope:

- Design of fire-rated partitions according to CERN's design and integration requirements.
- Supply of fire-rated partitions with fire doors (EI30, EI60, EI90, EI120, as required for LS3).
- Training for CERN's installation team.

Duration: 3 years

Eligible Firm Profile: Interested firms shall have proven experience and competence in the design and supply of certified fire-rated partitions with doors for complex environments (tunnels, galleries, radioactive areas, beam facilities, etc), and the provision of training for installation.

Contact: mehdi.lamrani@cern.ch



Electronics

Drilling of 700 PCB Panels for the DUNE Vertical Drift Detector

Description & Specific Condition:

Supply of 700 large PCBs drilled and milled with high precision for the DUNE Charge Readout Planes (CRP) anode fabrication.

Drilling and milling of 700 PCB circuits, each being clad on both sides with a 35 µm copper layer having photolitographed strip patterns.

Each PCB is 3.4 meters long and 1.7 meters wide requiring high density of 2.4 mm holes (>130,000 holes per msq.). High precision on the dimensions and the absolute position of the holes is also required (50 microns).

Start of the Contract: Q4 2026

Procurement Code: 03021000 (printed circuits)

Cost Range: 400k - 1.5M CHF

Planning: MS: Q2 2026

IT: Q3 2026

Contact: jeremie.alexandre.merlin@cern.ch

Lamination of 700 PCB Panels for the DUNE Vertical Drift Detector

Description & Specific Condition:

The Supply consists of 700 large-format perforated PCB anode panels (1.5 m × 3.4 m × 3.2 mm) for the Charge Readout Plane (CRP), produced in two panel types with double-sided 35 µm copper and photolithographically defined strip patterns.

Each panel is assembled from multiple PCB segments laminated in two layers using CERN-approved no-flow prepreg and a single-step, full-area hot-press lamination process. The contractor is expected to provide suitable G11 molds, perform high-precision alignment using CERN-supplied pins, and ensure full dimensional and surface integrity of the panels.

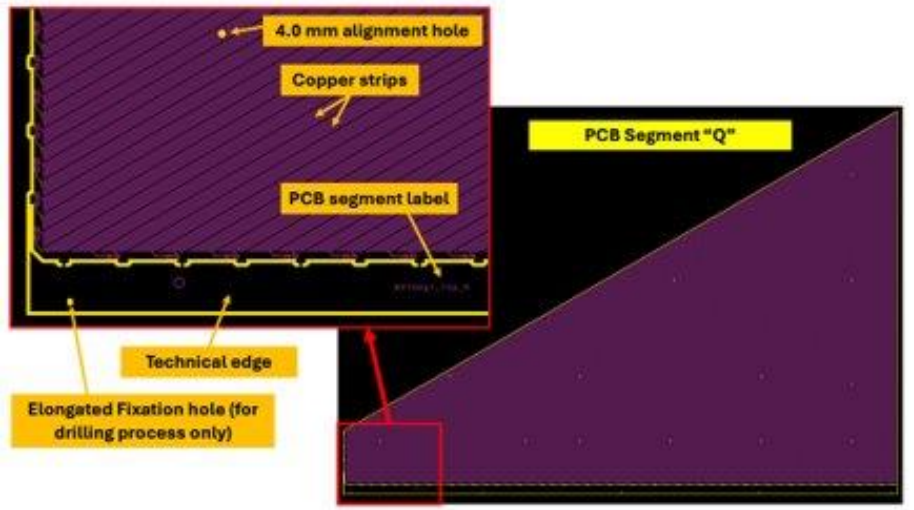
Start of the Contract: Q2 2026

Procurement Code: 03021000 (printed circuits)

Cost Range: 200k - 400k CHF

Planning: DO: Q2 2026

Contact: jeremie.alexandre.merlin@cern.ch



High-Speed PXIe Digitisers for OASIS (MS-4913/BE)

Description & Specific Condition:

The Supply consists of approximately 175 PXIe high-speed digitisers for the Open Analogue Signal Information System (OASIS).

These digitisers will be used in the CERN Control system to enable equipment specialists, engineers and operators to observe the behaviour of a wide variety of fast analogue signals in real-time.

Start of the Contract: Q3 2026

Procurement Code: 03500200 (data loggers and specialised measuring devices)

Cost Range: 400k - 1.5M CHF

Planning: **MS: Published**

IT: Q2 2026

Contact: Jean-Francois.Comblin@cern.ch

Construction, Onsite & Offsite Services

Construction of new Building 140 (MS-5104/SCE)

Description & Specific Conditions :

General contractor to construct new Building 140 on CERN's Meyrin site in Switzerland.

Highly-performing mechanical, electrical, plumbing (MEP) and façade system to achieve recognised sustainability accreditation.

The building will provide a new council chamber, EP workshops, a learning centre and media facilities and will be constructed in two phases

Procurement code: 01 02 01 00/ 01/ 02

Cost Range : > 10M CHF

Planning: **MS: published** IT: Q2 2026

Contact: **baptiste.mercier@cern.ch**

Electrical installation Services (MS-5140/EN)

Procurement Code: 13 03 06 00 (Electrical installation works)

Cost Range : > 10M CHF

Planning: MS : published
IT: Q2 2026
Contract start: Q3 2027

Scope:

- Modifications to the electrical power distribution network
- Cabling work
- Minor electrical works
- IT cabling
- Work supervision
- ...

Duration: 3 years (+ optional 1-y extension)

Eligible Firm Profile: Interested firms shall have proven experience and competence in large electrical installation service contracts.

Contact: Kamil.Zielinski@cern.ch

Supply, installation and maintenance of blinds (MS-5129/SCE)

Procurement Code: 01 02 03 05

Cost Range : 400k - 1.5M CHF

Planning: MS: published
IT: Q2 2026
Contract start: Q3 2026

Scope: Supply, installation and maintenance of blinds and shutters on CERN surface buildings

Duration: 3 years (+ optional 2 x 2-y extensions)

Eligible Firm Profile: Interested firms shall have proven experience and competence in supply, installation and maintenance of blinds

Contact: samuel.adam@cern.ch

Drain networks control and cleaning in CERN TUNNELS (MS-5133/SCE)

Procurement Code: 01 01 01 06 (Tunnel drainage maintenance service)

Cost Range : 400k - 1.5 M CHF

Planning: MS: published
IT: Q2 2026
Contract start: Q3 2026

Scope: Camera inspection work, cleaning and minor repairs in the drainage networks in CERN tunnels

Duration: 3 years (+ optional 2 x 2-y extensions)

Eligible Firm Profile: Interested firms shall have proven experience and competence in drain networks control and cleaning

Contact: samuel.adam@cern.ch

Engineering studies, supply and installation of piping and its accessories on the CERN site (MS-5137/SCE)

Procurement Code: 01 03 01 01

Cost Range : 1.5M – 5M CHF

Planning: MS: published
IT: Q2 2026
Contract start: Q4 2026

Scope: Replacement of pipes and associated equipment, insulation for district heating network and HVAC consolidation. Work in confined spaces with specific welding processes related thereto.

Duration: 3 years (+ optional 2 x 2-y extensions)

Eligible Firm Profile: Interested firms shall have proven experience and competence in supply and installation of piping.

Contact: Gregoire.guillot@cern.ch

Technical maintenance of Science Gateway buildings (SGW) (MS-5152/SCE)

Procurement Code: 13 02 03 00 (maintenance and operation of heating installations)
13 02 05 00 (HVAC maintenance and operation)

Cost Range : 400k - 1.5M CHF

Planning: MS: published
IT: Q2 2026
Contract start: Q4 2026

Scope: Technical maintenance of SGW including preventive and corrective maintenance of:

- HVAC equipment
- Electrical installation
- Building management system
- Lifts, elevators and automatic doors

Duration: 3 years (+ optional 2 x 2-y extensions)

Eligible Firm Profile: Interested firms shall have proven experience and competence in building technical maintenance

Contact: pauline.emery@cern.ch

Audiovisual for exhibition (DO-35063/SR/ECO/LT)

Procurement Code: 12070200 Exhibition design

Cost Range : 50k – 200k CHF

Planning: - DO launch Q2 2026

- Contract start: Q3 2026

Scope:

- Audiovisual design and production for CERN's new traveling exhibition

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Contact: eva.vordogianni@cern.ch

Scenography for exhibition (DO-35064/SR/ECO/LT)

Procurement Code: 12070200 Exhibition design

Cost Range : 50k – 200k CHF

Planning: - DO launch Q2 2026

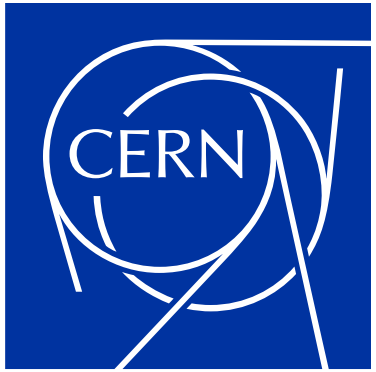
- Contract start: Q3 2026

Scope:

- Scenographic design of CERN's new traveling exhibition

Contact: eva.vordogianni@cern.ch

Thank you



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