

Doing Business with CERN Portugal@CERN

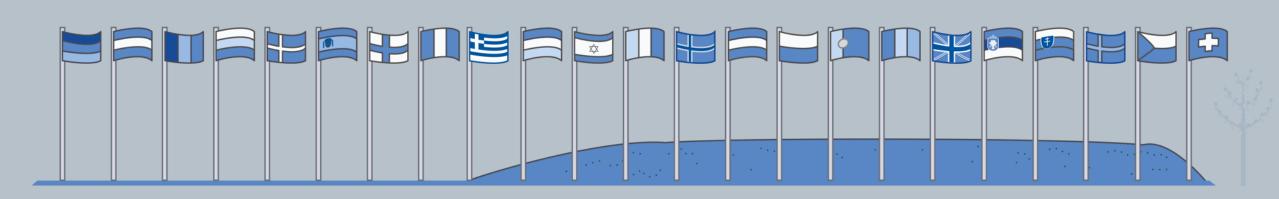
Anders Unnervik, Head of Procurement and Industrial Services

4 September 2019





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



The Procurement Service

9/4/2019

Mission

The Procurement Service procures all supplies and services for CERN

Meeting the specified and contractual technical, delivery and performance requirements

At the lowest possible overall cost

While achieving balanced industrial return for CERN Member States

Respecting CERN Procurement Rules





- Civil engineering:
 - Construction
 - Renovation of buildings
 - Metallic structures
 - Earthworks
 - Roads
- Cooling and ventilation equipment





- Electical engineering and magnets
 - Transformers
 - Switchboards and switchgear
 - Cables
 - Automation
 - Power supplies
 - Magnets





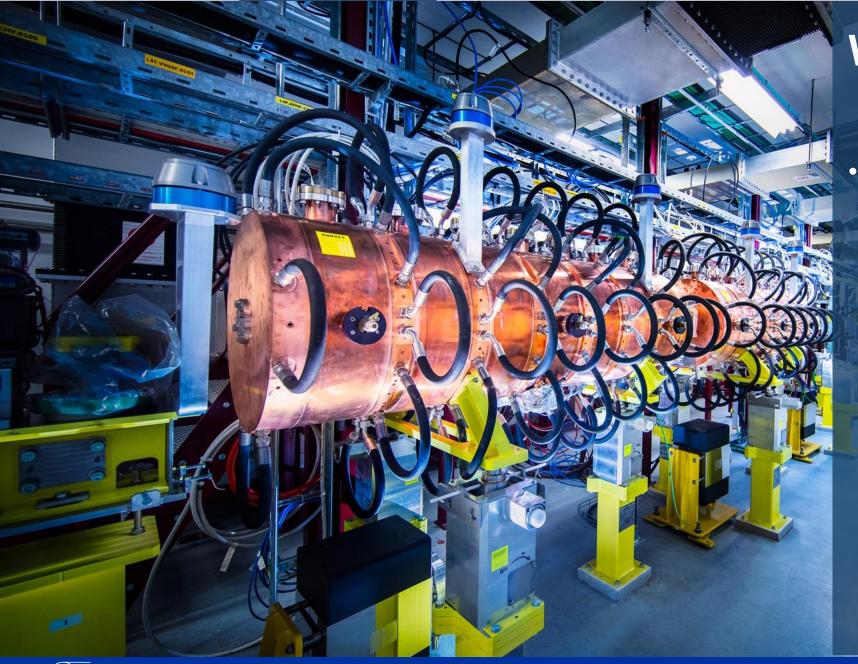
- Information Technology
 - Computing systems
 - Servers
 - Software
 - Network equipment
 - Personal computer equipment





- Mechanical engineering and raw materials:
 - Machining
 - Sheet metal work and arc welding
 - Special fabrication techniques
 - Raw materials, finished and semi-finished products
 (plates, pipes, etc.)
 - Offsite engineering and testing





- Electronics and radiofrequency:
 - Electronic components (active, passive)
 - PCBs and assembled boards
 - LV and HV power supplies
 - Radiofrequency plants
 - Amplifiers





- As well as:
 - Cryogenic and vacuum equipment
 - Optics and photonics
 - Particle and photon detectors
 - · Health and safety equipment,
 - Transport and handling equipment
 - Office supply, furniture
 - Industrial services on the CERN site



Current project - upgrade of the LHC to High Luminosity





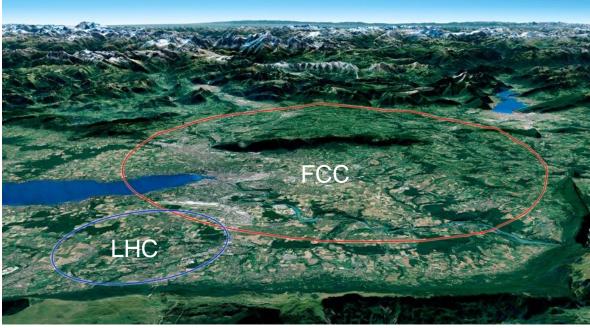
Two studies for the future of particle physics



Future Circular Collider (FCC)

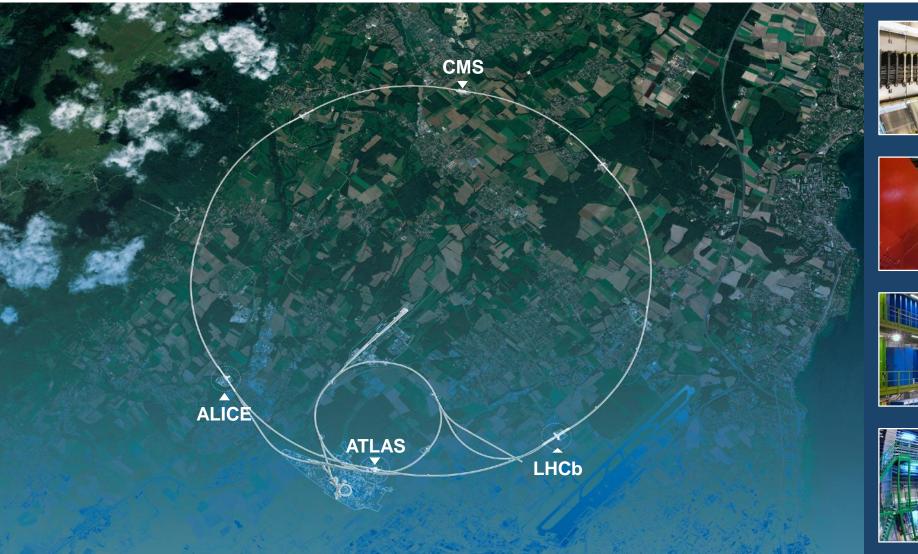


- New technology magnets → 100 TeV pp collisions in 100km ring
- e⁺e⁻ collider (FCC-ee) as 1st step?





We also buy for the LHC experiments







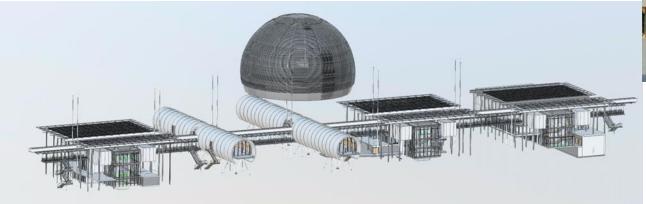






Science Gateway: future visitor and education centre

- Design by Renzo Piano (RPBW, Paris)
- 3 pavilions and 2 tubes connected by a glass and steel bridge floating at 6 meters high
- exhibition spaces, educational laboratories, a 900-seat auditorium, a restaurant, a reception and offices
- total floor surface in excess of 7000sqm





MS for construction : September 2019 General Contractor



Prevessin Computer Center

Delivery of an Energy efficient Data Centre on the CERN Prévessin (France)

- Turnkey contract for the design, build, maintenance and operation of the building and all of the functional infrastructure for a period of 10 years
- All necessary technical infrastructure
 - cooling and ventilation systems
 - electrical distribution system,
 - building management system
 - and safety related systems.



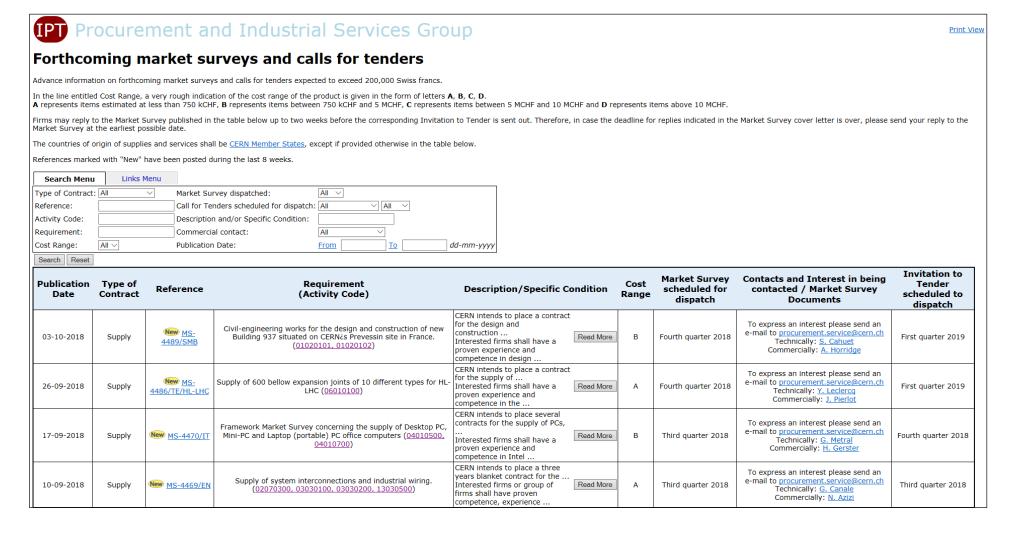
- 4 MW with a stepwise future increase to 12 MW over a period of 8 years
- Max. surface area: 2500m², Max height: 20.5m from ground level

MS to be launched: october 2019



CERN Shopping List

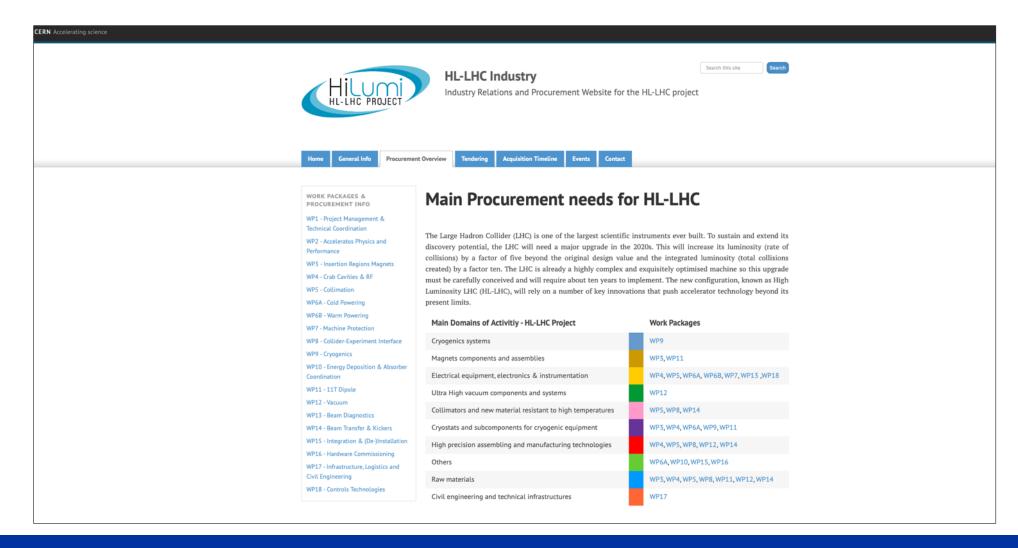
https://found.cern.ch/java-ext/found/CFTSearch.do





HL-LHC Shopping list

http://project-hl-lhc-industry.web.cern.ch/content/main-procurement-needs-hl-lhc









Yearly Budget (contributions 2019)

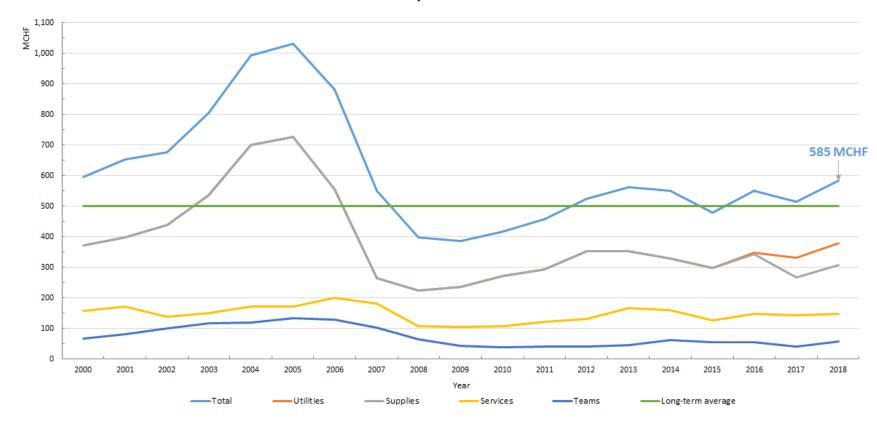
	Country	Percentage of Total	Amount (CHF)		Country	Percentage of Total	Amount (CHF)
	Germany	20.15%	236 015 150	***	India*	1.18%	13 811 650
	United Kingdom	15.71%	183 975 700	*	Portugal	1.07%	12 488 450
	France	13.69%	160 344 550	噩	Greece	1.06%	12 453 650
	Italy	10.11%	118 409 050		Romania	1.02%	11 960 150
	Spain	6.89%	80 685 300		Czech Republic	0.93%	10 860 850
	Netherlands	4.43%	51 842 200		Hungary	0.59%	6 965 950
+	Switzerland	4.02%	47 115 300	Ck	Turkey*	0.49%	5 692 000
	Poland	2.72%	31 870 000	•	Slovakia	0.48%	5 605 900
	Belgium	2.62%	30 692 550		Bulgaria	0.29%	3 390 550
-	Sweden	2.60%	30 459 300	ğ	Serbia	0.22%	2 529 000
#	Norway	2.42%	28 343 950	C	Pakistan*	0.14%	1 664 200
	Austria	2.11%	24 676 150	*	Cyprus**	0.09%	1 000 000
	Denmark	1.75%	20 453 800		Lithuania*	0.09%	1 000 000
卒	Israel	1.69%	19 735 200	0	Slovenia**	0.09%	1 000 000
+	Finland	1.29%	15 129 550		Ukraine*	0.09%	1 000 000
						Total 100%	1 171 170 100

^{*} Associate Member State ** Associate Member State in the pre-stage to membership



Procurement Expenditure

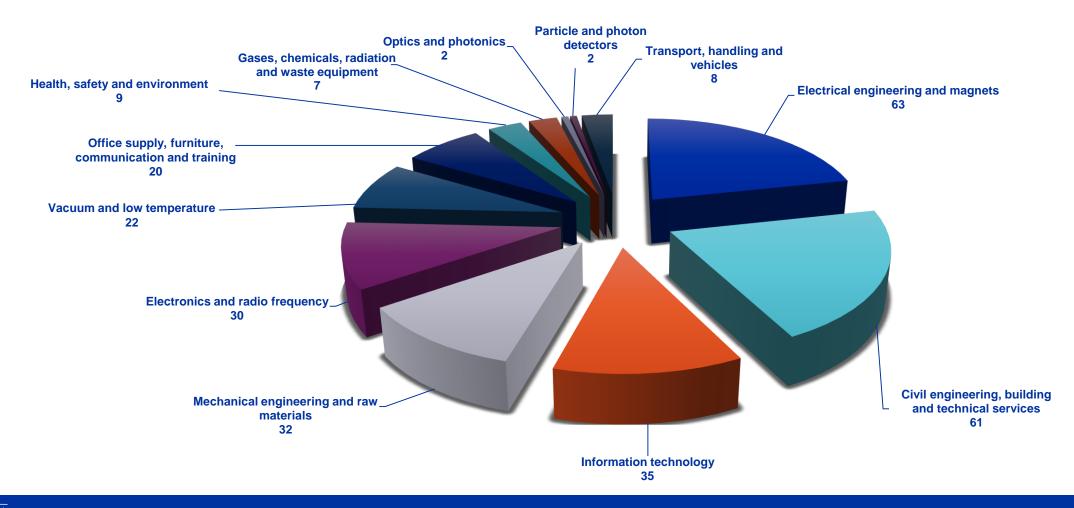
Procurement Expenditure 2000 - 2018





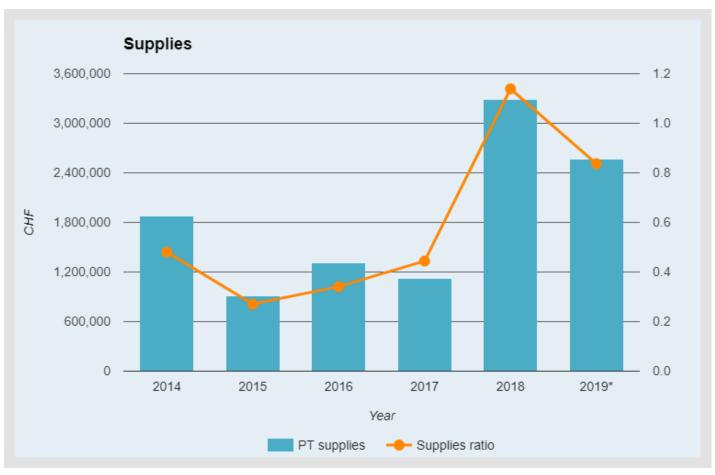
Supplies (307MCHF spent in 2018 – CERN budget only)

2018 Expenditure of all Member States by Procurement Code Family (MCHF)





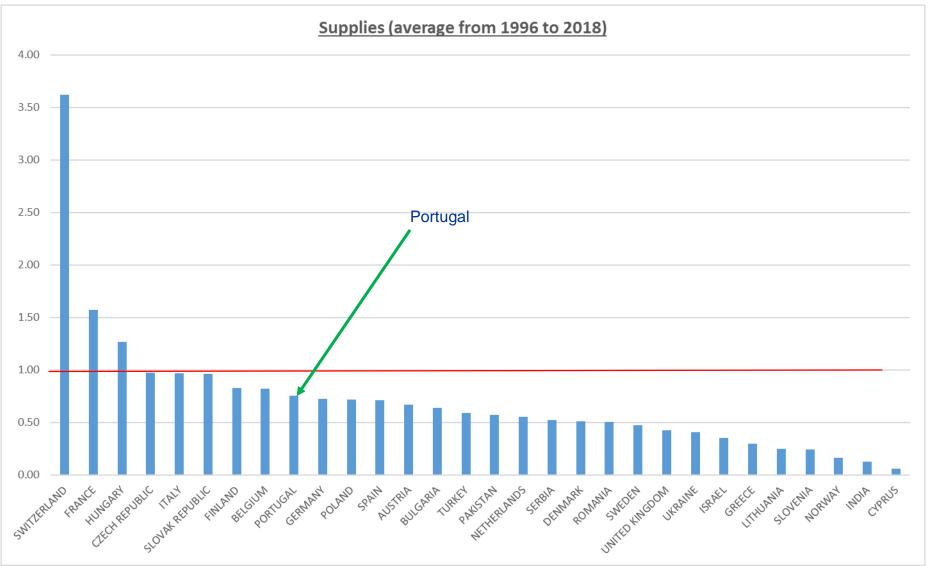
Industrial Return (supplies)



* 30 August 2019



Industrial Return (supplies)







Poorly balanced Member States (Supplies)

(1st March 2019 – 29 February 2020, based on the previous 4 calendar years):





Contact in your country

ILO: Industrial Liaison Officer

Who to contact in your Country

Industrial Liaison Officers (ILO's) are appointed by CERN's Member States to facilitate the flow of communication between CERN and its suppliers. ILO's can provide advice on the opportunities available for doing business with CERN and the support available to firms in their local regions.

Portugal



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Thank you

