

Finnish Business Incubation Center of CERN Technologies

Business Finland supported R&D&I
collaborations' preparation & info exchange
Saku Mäkinen, Pietari Kauttu, Harri Toivonen

How can BIC team help?

Examples of Past Industry
Activation Events & Outreach



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CERN tulee Aaltoon

Aalto Design Factoryssa järjestetään 6.4.2017 tapahtuma, jossa CERNin delegaatio esittelee yrityksille yhteistyömahdollisuuksia.

- Asiasta kiinnostuneiden yritysten kannattaa ehdottomasti osallistua tapahtumaan. Siellä pääsee keskustelemaan suoraan CERNin henkilöstön kanssa esimerkiksi tutkimuskeskuksen ostomahdollisuuksista, tutkimusyhteistyöstä, startup-tuesta sekä teknologian lisensiointimahdollisuuksista. Pietari Kauttu kertoo.

Tapahtumasta tiedotetaan Fysiikan tutkimuslaitoksen sivuilla: www.hip.fi



Hiukkasen kiihdyttäviä tarjouskilpailuja

CERN tekee laitehankintoja joka vuosi 500 miljoonalla eurolla. Suomalaisilla yrityksillä on mahdollisuus ottaa potista oma osansa.

tekniikka & talous

TEKNIIKAN HISTORIA metallitekniikka



ETUSIVU

UUTISET

SUPERGRAAFIT

PUHEENVUOROT

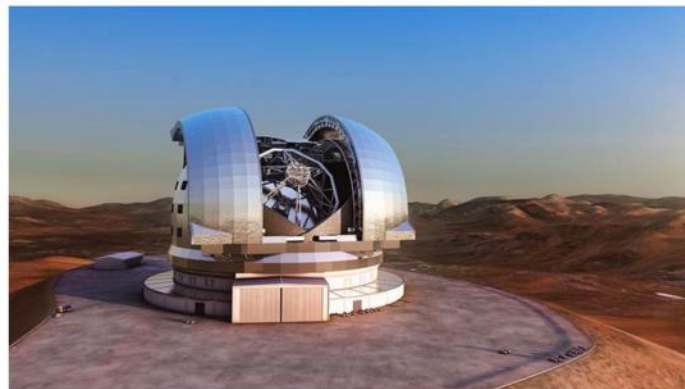
KUMPPANIBLOGIT

OTA YHT

TIEDE | Kari Kortelainen | 14.11.2012 klo 20:19

Suomalaisyrityksille aukesi polku eurooppalaisen suurteleskoopin rakentamiseen

JAA ARTIKKELI





European
Southern
Observatory

ESO Industry Event: Dome & Main Structure

Presseclub at the Allianz Arena: 16-17 October 2012



Astrium EADS E-ELT Dome & Structure Subcontracting Match Making Event

Mr. Hannu Juuso & Mr. Pietari Kauttu
ESO Big Science Industry Activation, Finland
Tekes, October 24th, 2013



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CERN Roadshow in Finland



- 144 persons attended
 - (150 limit at venue due to safety rules)
 - 176 registered
 - 44 preregistered B2Bs took place
- 51 business executives
- 42 companies
- 23 different institutions
- 8 identified interests for follow ups with companies 8 identified companies worth of further DD
 - (about 40 % rate for company follow ups in some form, and procurement's data still n/a!)
- 6 identified leads with institutions
- Some students still in contact with HR
- 50 networking session participants from DFGN



Finland at CERN – What can Finland do for science?

Finland arrives at CERN!

Taking place in November, Finland at CERN will introduce Finland and showcase its inventive expertise through a dynamic programme consisting of inspirational speakers, workshops, exhibitions, and other activities. We will share information on top Finnish research initiatives as

Event Days

Day 1 | 1 Nov 2017

Venue | IdeaSquare, CERN

Collaboration and the key elements to success

Day 2 | 2 Nov 2017

Venue | Globe, CERN

Working for the next 100 years of solutions

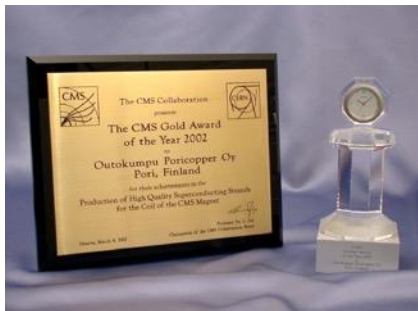
Day 3 | 3 Nov 2017

Venue | IdeaSquare, CERN

Creativity and innovations in creating solutions

Why would companies be interested?

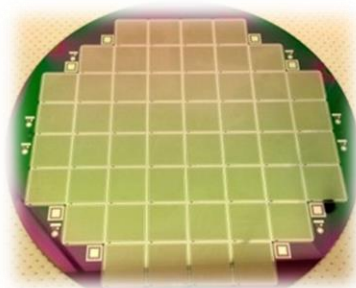
References



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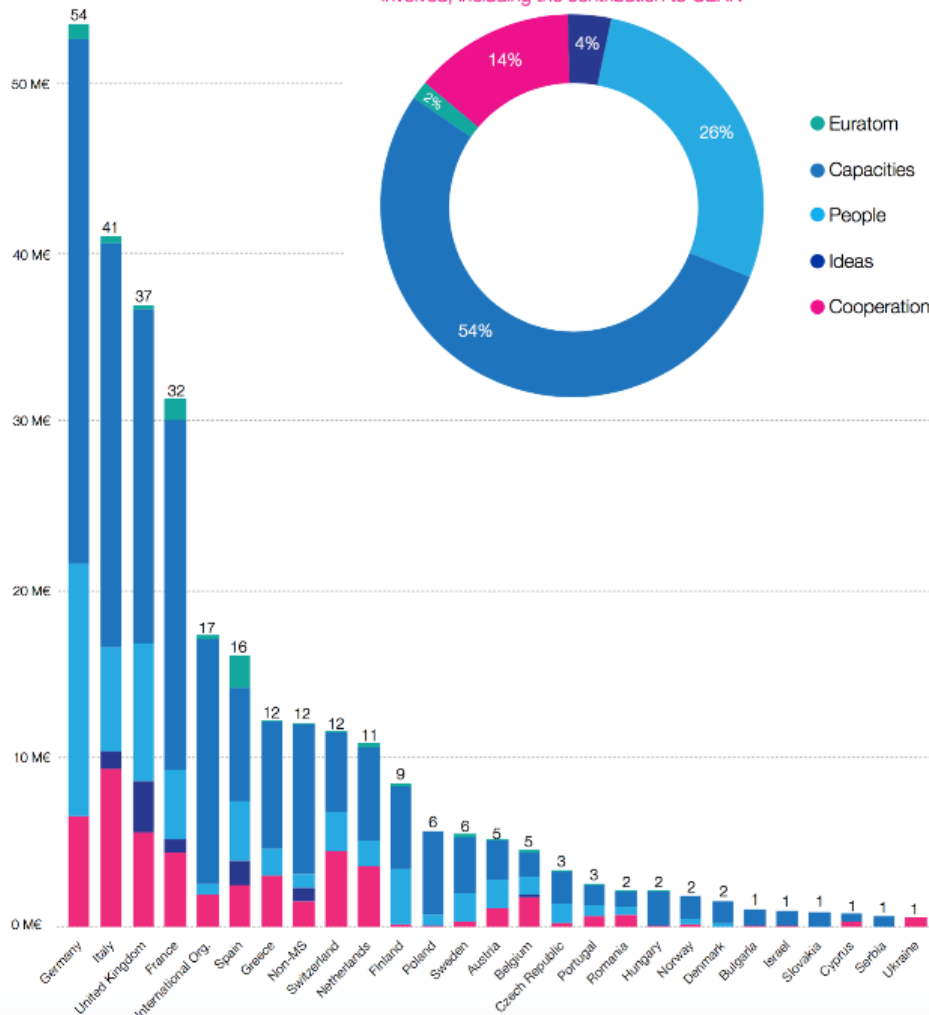
© VTT



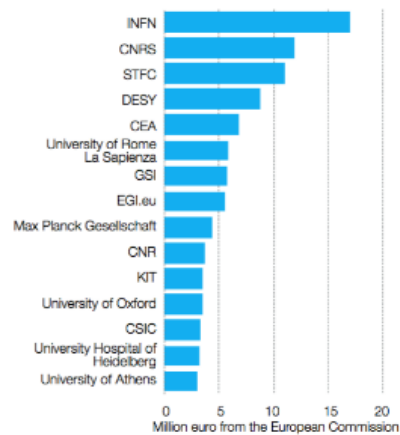
ADVACAM receives LHCb industrial award for the VELO upgrade



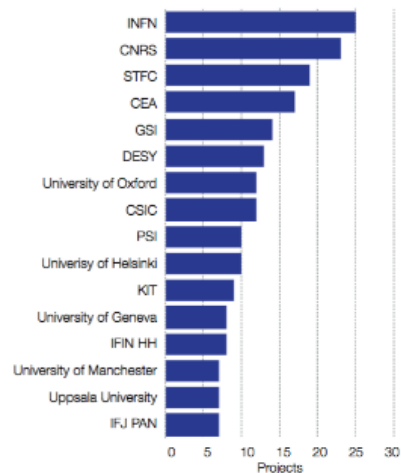
EU Funding opportunities



Most active partners by funding



Most active partners by projects



Overview of the participation of CERN in H2020 (2014-2017)

Pillar	H2020 programme	Number of submitted proposals*	Number of funded projects*	EC funding for CERN
Excellent Science	European Research Council	29 (26)	8 (8)	~ 8.9 M€
	Research infrastructures	23 (5)	14 (5)	~ 12 M€
	E-Infrastructures	22 (1)	12 (0)	~ 5 M€
	Future and Emerging Technologies	22 (9)	2 (0)	~ 0.4 M€
	Marie Skłodowska-Curie actions	47 (26)	16 (8)**	~ 11.8 M€***
Industrial Leadership	Information & Communication Technologies	12 (2)	3 (2)	~ 2.6 M€
	Other	5 (0)	0 (0)	0 M€
Other	Health	3 (0)	0 (0)	0 M€
	Science in Society	6 (0)	1 (0)	~ 0.2 M€
	Spreading excellence and widening participation	5 (0)	1 (0)	~ 0.1 M€
	EURATOM	1 (0)	1 (0)	~ 0.1 M€
	COST	8 (3)	4 (1)	~ 0.1 M€
	Other programmes (EURAMET, Eurostars, ERA-NET)	3 (0)	2 (0)	~ 0.1 M€
TOTAL		186 (72)	64 (24)	~ 41.3 M€

H2020 success rate for CERN: 34%

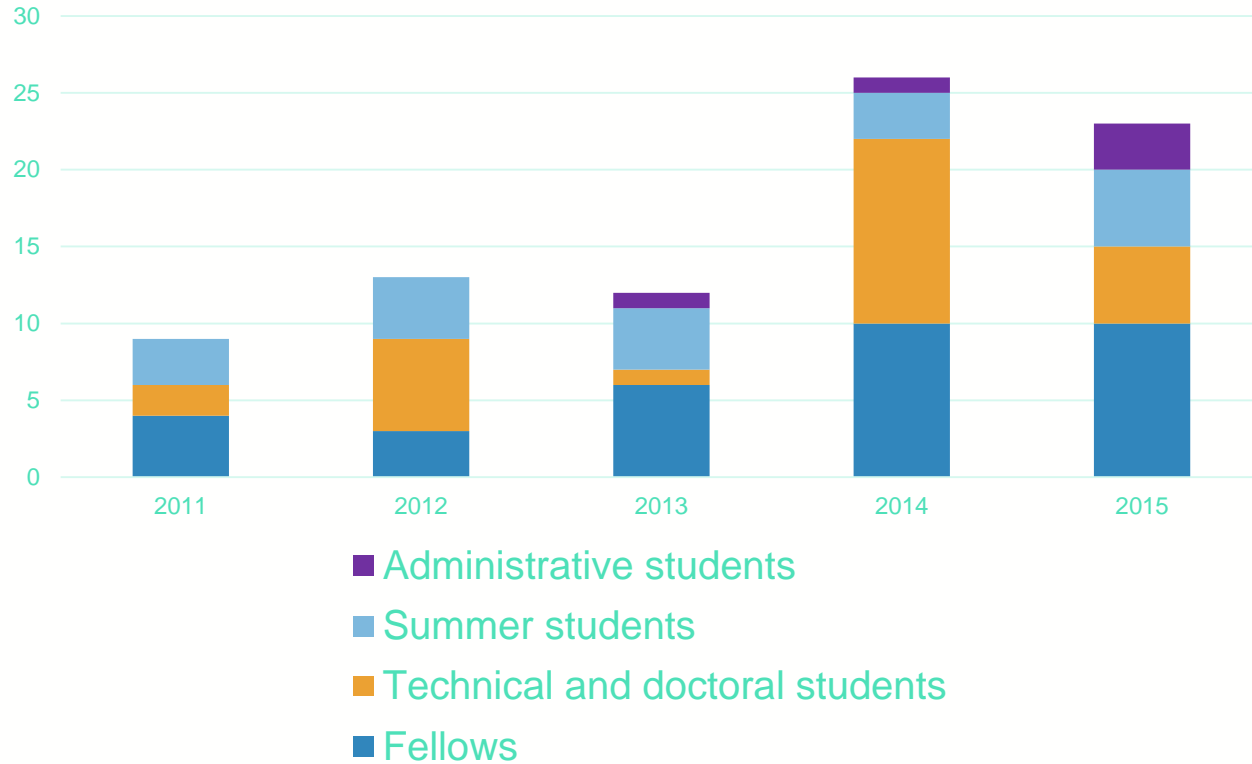
Average success rate in H2020 for all participants and programmes is ~12%

* the numbers in brackets indicate the projects coordinated by CERN

** In addition, CERN hosts 9 Marie-Curie Individual Fellowships

*** In addition, CERN receives 1.6 M€ for the 9 Marie-Curie Individual Fellowships

Students and fellows - Finland

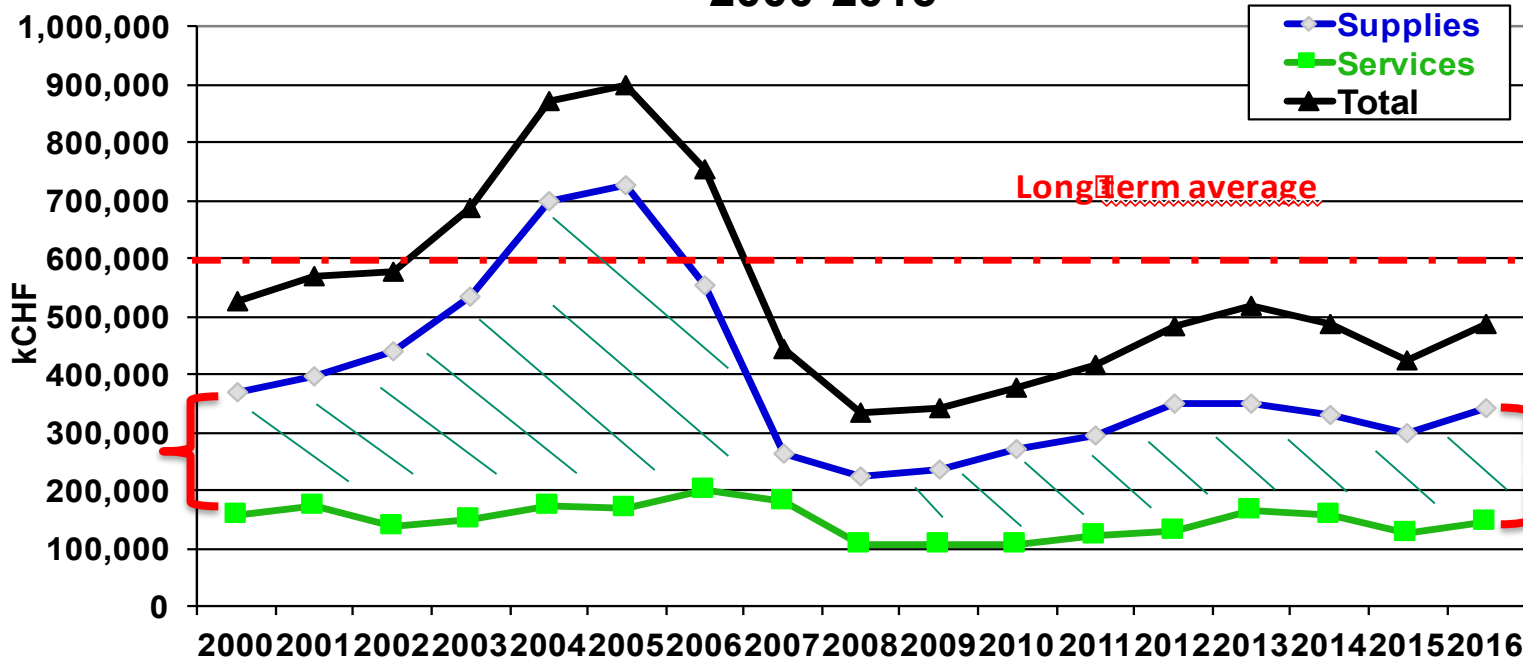




CERN long term expenditure



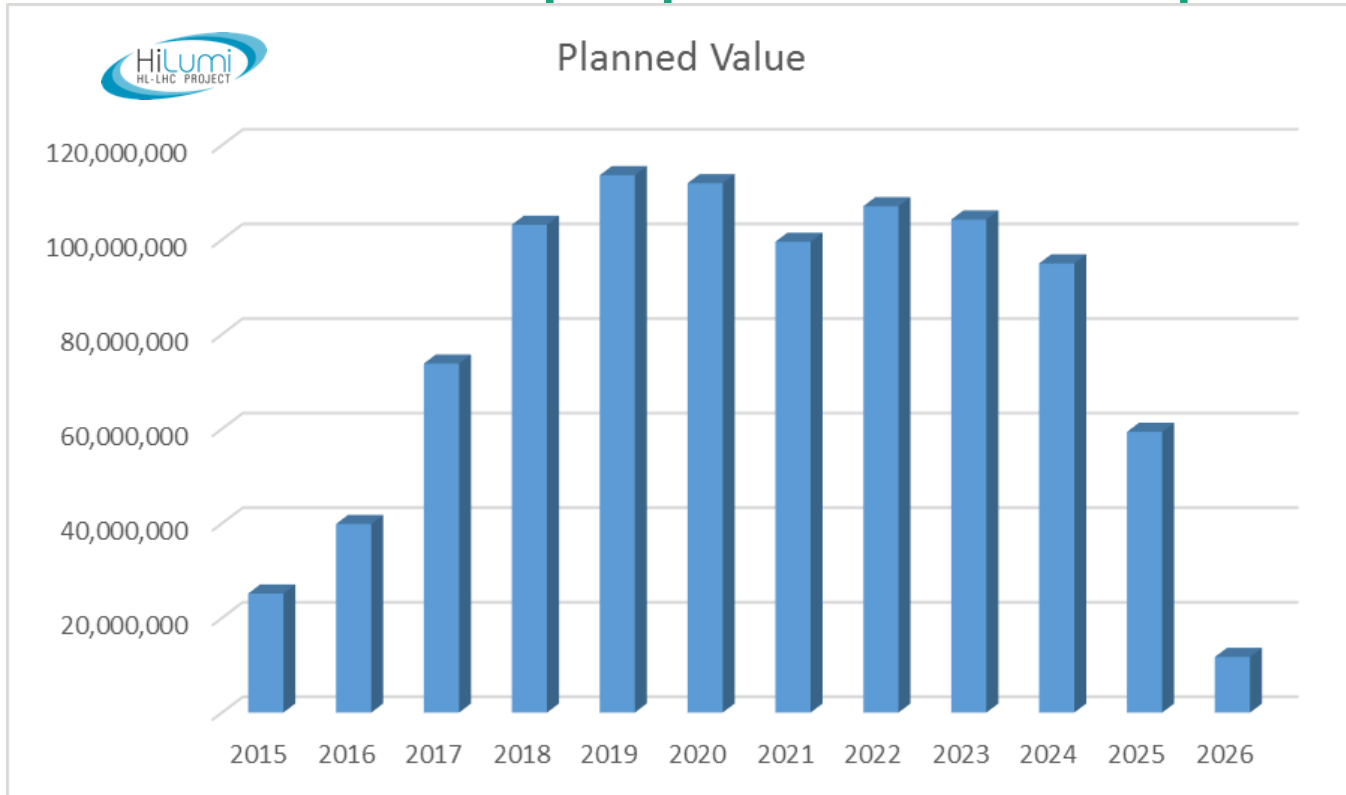
Procurement Expenditures 2000-2016













HL-LHC, supply purchasing volumes rising over next years

Supply expenditure, most relevant for FI companies

HiLumi Ramp up foreseen expenditure



HL-LHC DOMAINS OF ACTIVITY	
Cryogenics systems for HL-LHC	
Magnets components and assemblies	
Electrical equipment, electronics and instrumentation for accelerators	
Ultra high vacuum components and systems	
Collimators and new material resistant to high temperatures	
Cryostats and subcomponents for cryogenic equipment	
High precision Assembling and manufacturing technologies	
Others	
Raw Materials	
Civil Engineering and Technical Infrastructures	

How Can BIC Team Help?

- High tech dating service
 - CERN & Geneva ecosystem
 - Companies
- Workshop facilitation in order to
 - Refine & document the scope of projects
 - Define roles & IP strategy
 - Advance projects through hackathon style sprints
- Event organization & outreach efforts
 - Seminars, media etc.

High tech dating service



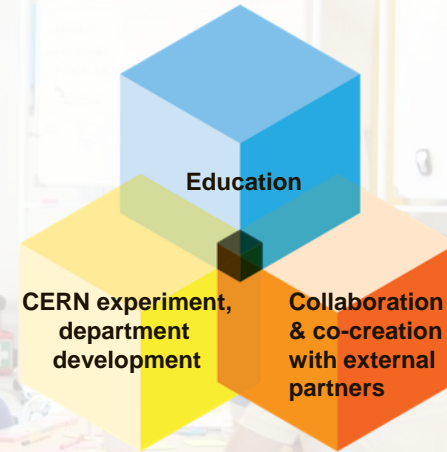
- Meeting venues, logistics
- Access to working space while at CERN

Workshop facilitation

- Refine & document the scope of projects
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Ideasquare hackathons & events

- “Hackathons” hosted/organised: approx. 40 events / year
- Number of participants: 15-60 per event, altogether approx. 1900 so far.
- Guests & VIP visits: approx. 600 people per year
- Cups of coffee consumed: approx. 30 000 cups per year
- Hackathons of interest for CERN participants:
 1. Educational
 2. CERN experiment/dept. development
 3. Collaboration with external partners
- E.g. IoT for Radiation Protection, GOSH – Gathering for Open Science Hardware, EC-funded project workshops (Talent, Edusafe, FuSuMaTech)



Event organization & outreach efforts



– Seminars, media, etc.

25.1.2019

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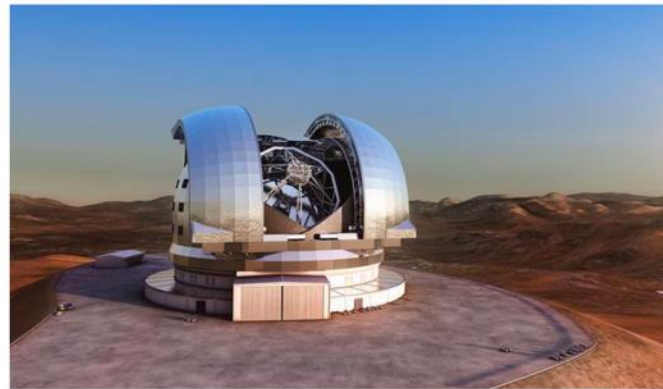
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Discussion points

- Project needs at the moment
 - Planning, contacts, meeting arrangements
 - Synergies
- Collaboration aspects
 - Seminars? Other events?
 - Outreach?

Next steps!