



# HiLumi Welcome 1/2 day

Hector Garcia Gavela

Procurement, Documentation, Quality and Risk Officer

On behalf of the HL-LHC Project Office

**HiLumi Welcome 1/2 day**

# Why you are here



ESFRI ROADMAP 2016

PART 1

PART 2

PART 3

ANNEXES

ESFRI LANDMARKS

PHYSICAL SCIENCES & ENGINEERING



*An upgrade of the highest-energy particle collider in the world for exploring new physics*

TYPE: single-sited  
COORDINATING ENTITY: CERN  
MEMBER COUNTRIES: AT, BE, BG, CH, CZ, DE, DK, EL, ES, FI, FR, HU, IL, IT, NL, NO, PK, PL, PT, RO, RS, SE, SK, TR, UK

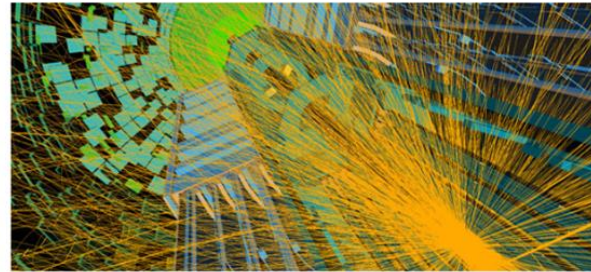
PARTICIPANTS: See  
ACCELERATOR COLLABORATION  
ATLAS COLLABORATION  
CMS COLLABORATION

#### TIMELINE

- ESFRI Roadmap entry: 2016
- Preparation phase: 2014-2017
- Construction phase: 2017-2025

## HL-LHC

High-Luminosity Large Hadron Collider



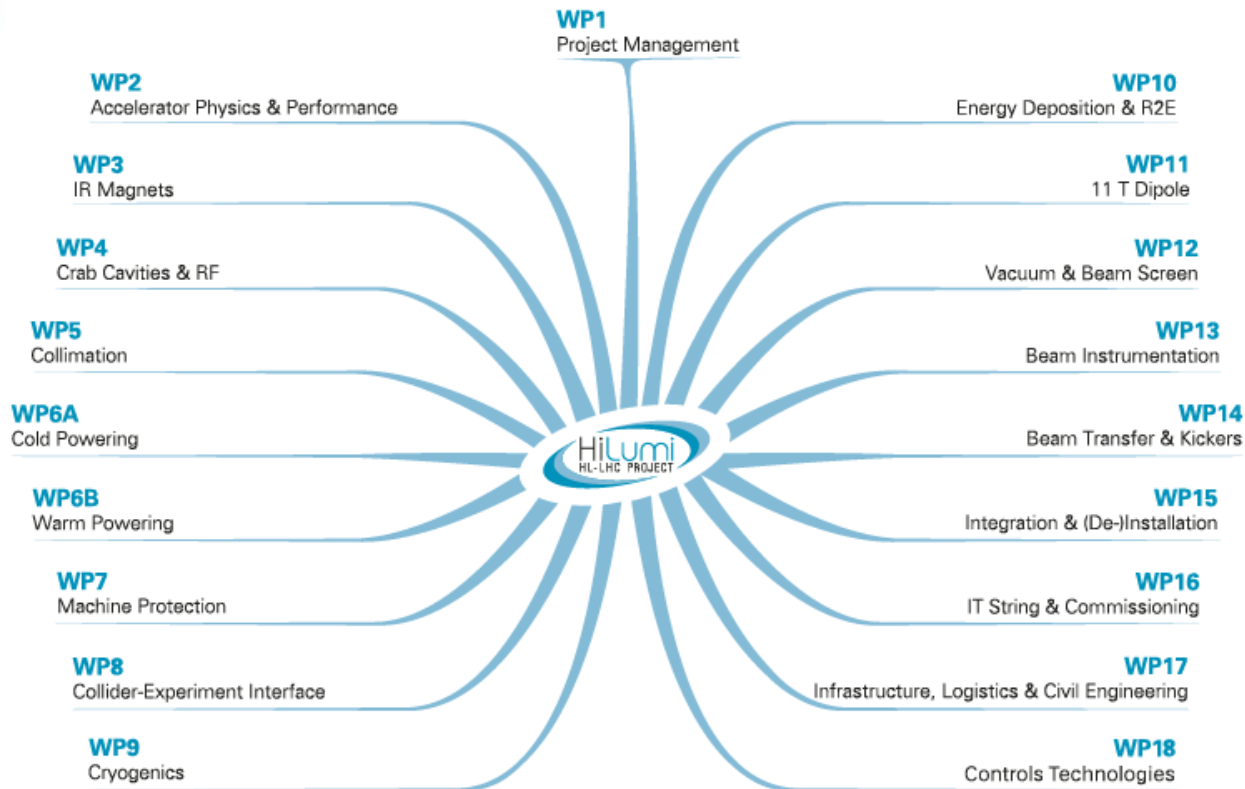
#### Description

The Large Hadron Collider (LHC) at CERN is the highest-energy particle collider in the world. The ATLAS and CMS experiments at the LHC have provided the breakthrough discovery of the so-called Higgs boson. This discovery is the start of a

- ❑ 2010 : High Luminosity LHC Design Study established & application for EU funds
- ❑ 2011: approval and start of the EU co-funded FP7-HiLumi LHC Design Study with 20 Institutions
- ❑ 2013: Approval by EU HEP strategy of HiLumi as main project for the next decade; Kick off meeting in Daresbury of HL-LHC as construction project; P5 subpanel (USA) also put HL-LHC as next main project
- ❑ 2015: 1<sup>st</sup> C&S Review 1, end of the FP7-Design Study and insertion of the full funding profile in the CERN budget till 2026 (approved formally till 2020);
- ❑ 2015 Oct : end of FP7 design phase issue of first TDR-V0
- ❑ **2016 (June Council): formal approval of the entire HL-LHC project; HL-LHC declared an ESFRI landmark (European Strategy Forum on Research Infrastructures)**

The 29 ESFRI Landmarks which have now reached the implementation phase are pan-European hubs of scientific excellence, generating new ideas and pushing the boundaries of science and technology. They are important pillars of European research and innovation for the next decades and they will require continuous support to fulfil their mission and ensure their long-term sustainability.

# Work packages



- Major upgrade of the iconic LHC machine (mainly but not only at P1 and P5)
- All core technologies and domains of CERN are well represented within the Project

# Project Structure



<sup>1</sup> In kind contributions  
<sup>2</sup> INFN Directorate  
<sup>3</sup> INFN Milano LASA  
<sup>4</sup> INFN Genova  
<sup>5</sup> University of Manchester/Cockcroft Institute  
<sup>6</sup> Lancaster University/Cockcroft Institute  
<sup>7</sup> ASTeC/STFC

<sup>8</sup> Royal Holloway/John Adams Institute  
<sup>9</sup> University of Liverpool/Cockcroft Institute  
<sup>10</sup> University of Oxford/John Adams Institute  
<sup>11</sup> University of Southampton  
<sup>12</sup> US HL-LHC Accelerator Upgrade Project (BNL, FNAL, LBNL, SLAC)  
<sup>13</sup> FNAL  
<sup>14</sup> NPPI (Collaboration up to end 2021)

# Project Office roles in detail

## HL-LHC Project Office



**Communications | Outreach**  
**Project Support**

  
Cécile Noels

  
Irene Garcia Obrero


  
Michela Lancellotti


**PROJECT MANAGEMENT**


  
Oliver Brüning

  
Markus Zerlauth

**Safety Office**

  
Thomas Otto

  
Christelle Gaignant

  
Bérengère Labitte

**PLANNING**

**Budget | Schedule Office**      **Collaborations Office**

  
Giovanna Vandoni

  
Beniamino Di Girolamo

  
Alexia Augier

  
Maria Barberan

  
Lidia Brozda

  
Cécile Noels


  
Laura Martins


  
Sabrina Riebe


  
Marta Rodriguez Perez

  
Laura Martins Rocha

**New Infrastructures  
WP17**

  
Laurent Taviani

  
Beniamino Di Girolamo

  
Henry de Maynard

**TECHNICAL COORDINATION**

**Procurement | Baseline Docs. | QA | Risk Office**      **Integration | Installation Office**

  
Hector Garcia Gavela

  
Paolo Fessia

  
Lorcan Quain Solls

  
Victor Guillen Humbria

  
Michele Modena

  
Gema Aparicio

  
Miguel Navarro

  
Joao Oliveira

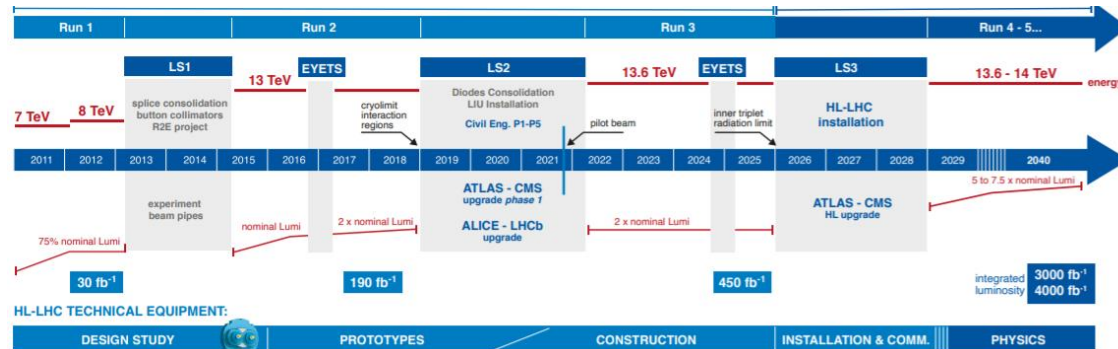






# The project and the documentation

- First, Warm WELCOME to EVERYBODY who has joined this very exciting adventure called HL-LHC Project
- Flagship Project at CERN for the next decade (See Oliver's talk)
- Knowledge and technology to be developed during the HL-LHC project will make a lasting impact on society
- You're joining a Project which has gone more than half-way through – Where/How to find all the information



# How to get access to Hilumi documentation

## e-groups

Report an [error](#) | Suggest new [functionality](#)

Quick Search

All groups I own or manage  
All groups my accounts are on  
All e-group archives

e-group name  begins with  HI-LUMI-LHC-MEMBERS

All e-groups  ALICE  ATLAS  CMS  FASER  LCG  LHCB  LHCF  MoEDAL  
 Only groups I own or manage |  Only groups I am on | Page Size:

[+ Create new static group](#) [+ Create new dynamic group](#) [Show groups for on](#)

<https://hilumilhc.web.cern.ch/content/how-access-intranet>

### E-group: HI-LUMI-LHC-MEMBERS (Static)

[Settings](#) | [Owner, Admin & Privileges](#) | **[Members](#)** | [Email Addresses](#) | [Email Properties](#) | [Blacklist](#) | [Audit Inf](#)

[Filter members](#)

[Add me](#) [Export me](#)

E-group Members						
Goto <input type="text"/> 1-26 <input type="text"/> Page Size: <input type="text"/> 100 <input type="button" value="Apply"/> <input type="button" value="Delete Members"/> <input type="button" value="Edit Comments"/>						
<input type="checkbox"/>	Name	Type	Login	Email	Comments	
<input type="checkbox"/>	HI-LUMI-LHC-WP1-MEMBERS	e-group				
<input type="checkbox"/>	HI-LUMI-LHC-WP10-MEMBERS	e-group				
<input type="checkbox"/>	HI-LUMI-LHC-WP11-MEMBERS	e-group				
<input type="checkbox"/>	HI-LUMI-LHC-WP12-MEMBERS	e-group				
<input type="checkbox"/>	HI-LUMI-LHC-WP13-MEMBERS	e-group				
<input type="checkbox"/>	HI-LUMI-LHC-WP14-MEMBERS	e-group				
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<input type="checkbox"/>	HI-LUMI-LHC-WP7-MEMBERS	e-group				
<input type="checkbox"/>	HI-LUMI-LHC-WP8-MEMBERS	e-group				
<input type="checkbox"/>	HI-LUMI-LHC-WP9-MEMBERS	e-group				

### How to join the HiLumi member list

If you are not part of any HiLumi mailing list, you will not gain access to the Intranet. To be added to a mailing list, please fill out the [online registration form](#). You may also contact your work package coordinator directly, who will add you to the contact list of their work package. If you need help to identify your work package coordinator, please [contact us](#).



High Luminosity LHC Project

HOME ABOUT STRUCTURE MEDIA INTRANET

### Contact us

Your Name \*

Your Email \*

Subject \*

Message \*

I'm not a robot 

[Send message](#)

If you face troubles to access HL-LHC intranet and EDMS please contact [HL-LHC.Secretariat@cern.ch](mailto:HL-LHC.Secretariat@cern.ch)



# Document what you do – Use the project tools

**Project Selection**

- Accelerators
- CERN Departments
- Computing
- Design & Equip. Catalogue
- EU Projects
- Experiments
- Infrastructures
- LHC Machine
- HL LHC - High Luminosity
- LIU - LHC Injectors Upgrades
- Management & Commissioning
- Operation
- Health, Safety & Environment
- External Collaboration
- Others

**HL-LHC High Luminosity LHC Project**

- Project Governance
- Project Management
- Work Package Workspace
  - Project Management and Technical Coordination (WP1)
  - Accelerator Physics and Performance (WP2)
  - Magnets Design (WP3)
  - Crab Cavities & RF (WP4)
  - Collimation (WP5)
  - Cold Powering (WP6)
  - Machine Protection (WP7)
  - Collider-Experiment interface (WP8)
  - Cryogenics (WP9)
  - Energy Deposition and Absorber (WP10)
  - 11T Dipole Two in One for DS (WP11)
  - Vacuum (WP12)
  - Beam Diagnostics (WP13)
  - Beam Transfer & Kickers (WP14)
  - Integration & De-installation (WP15)
  - IT String & Hardware Commissioning (WP16)
  - Technical Infrastructure (WP17)
  - Safety

**1606329 v.1 Chemical polishing CRAB DOW**

Description: This document describes the polishing procedure of C cavities, namely the DCS done in building 118.

**WP17.1 Civil Engineering**

SubWorkpackage Leader: Peter Mathelier

Link to the EDMS folders for the HL LHC civil engineering consultancy services Tender

Link to the EDMS folders for the site investigation

Access to the documentation and questionnaires on P5

Link to the groups WP17 members WP17.1 members sub/leaders

Link to the Drawings reviewing tasks

Link to WP17.1 Indico meetings

Management	4 events
Procurement	6 events
Building Permit	7 events
Technical Coordination	15 events
Point 1 - ATLAS	1 event
Point 5 - CMS	empty

**Managers**

- Caron, P.
- Gasner, C.
- Lopez-Hernandez, L.
- Mathelier, P.
- Mattenaar, P.
- McLerran, S.
- Tavelin, L.

**EDMS** is our primary tool for the baseline documentation of the Project

Other tools (**Sharepoint**, **Indico**...) are also there to help on this purpose

<https://edms.cern.ch/nav/P:CERN-0000096404:V0/P:CERN-0000096404:V0> – HL-LHC EDMS Main Node

H. Garcia Gavela - Welcome day





# Get trained



EDMS NO. 1513591	REV. 2.0	VALIDITY VALID
REFERENCE : LHC_-_QA-0001		

## PLAN

### HL-LHC QUALITY PLAN

**Abstract**

The HL-LHC project is committed to be a project of excellence respecting the best practises in project and quality management. The adoption of a quality management system is a strategic decision that aims to improve overall performance and provide a sound basis for sustainable development initiatives.

This document provides an overview of the processes and procedures implemented on the HL-LHC Quality Management System (QMS).

CERN Accelerating science  
Collaboration Workspaces

WP17 WP17.1 CE WP17.1.EI WP17.1.CV WP17.1.AGE WP17.1.SU WP17.1.HE HL-Share

### WP17.1 Civil Engineering

SubWorkpackage Leader: **Peter Mattiesser**

Manualbook  
Documents  
External Exchange  
Access to Documentation and questions on PS  
Access to Documentation and questions on PS  
Tasks review drawings Issuance  
Photos and pictures  
Recent  
Site Contents  
EDP LINKS

Link to the EDMS folder for the site investigation  
Link to the egroups WP17 members subworkpackages  
Link to the Drawings reviewing tasks  
Link to WP17.1 Indico meetings

Photos and pictures  
Home Recent Size File Size Modified

Tasks review c  
EDMS LINKS

CERN Accelerating science  
EDMS Home Favourites Inbox

1806329 v.1 In Work Public access  
Chemical polishing CRAB DQW  
Manual / Outline Thumbnail Modified on 8/11/2015

Info  
Description: This document describes polishing procedure of C cavities, namely the DQW done in building 118.

Details  
Associated Web link: List of Administrators  
Local administrators: TC-CERN-ISO-OWNER  
Context: Documents relative to 1 (with simple release price)

This page: https://edms.cern.ch/doc/1806329

Files  
BCP\_CRAB.docx

Engineering & Equipment Data Management Service (EDMS)

HL-LHC TCO books.google Continuous Productive UK... Cost and schedule review... ED Page

indico Public Europe/Carth... Deep Access

Home Create event Room booking My profile Help

Home > Projects > HL-LHC (including HiLumi LHC FP7 Design... > HL-LHC WP17 - Infrastructure, Logistics... > WP17.1 Civil Engineering

### WP17.1 Civil Engineering

Parent category

Management	4 events
Procurement	6 events
Building Permit	7 events
Technical Coordination	15 events
Point 1 - ATLAS	1 event
Point 5 - CMS	empty

Managers  
Caron, P.  
Gasser, C.  
Lopez-Hernandez, L.  
Mattiessi, M.  
Mattiesser, P.  
McLearain, S.  
Taviani, L.

Materials  
There are no materials yet.

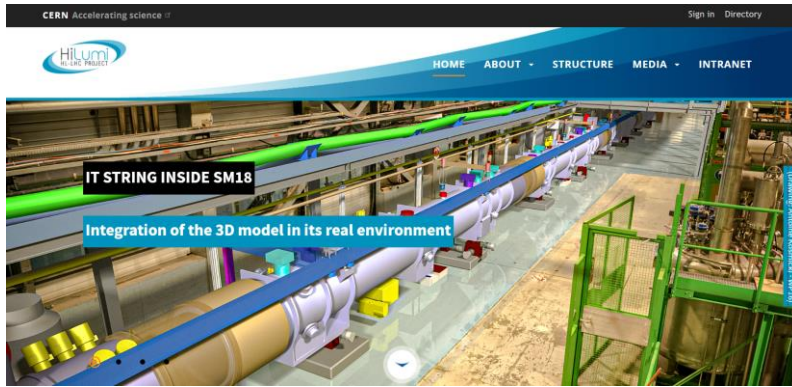
QA Training for Newcomers will be back soon – In the meantime do not hesitate to contact the Quality team for any related question: [HI-LUMI-LHC-QUALITY@cern.ch](mailto:HI-LUMI-LHC-QUALITY@cern.ch)



# HL-LHC communications channels (Stay connected)

■ Website

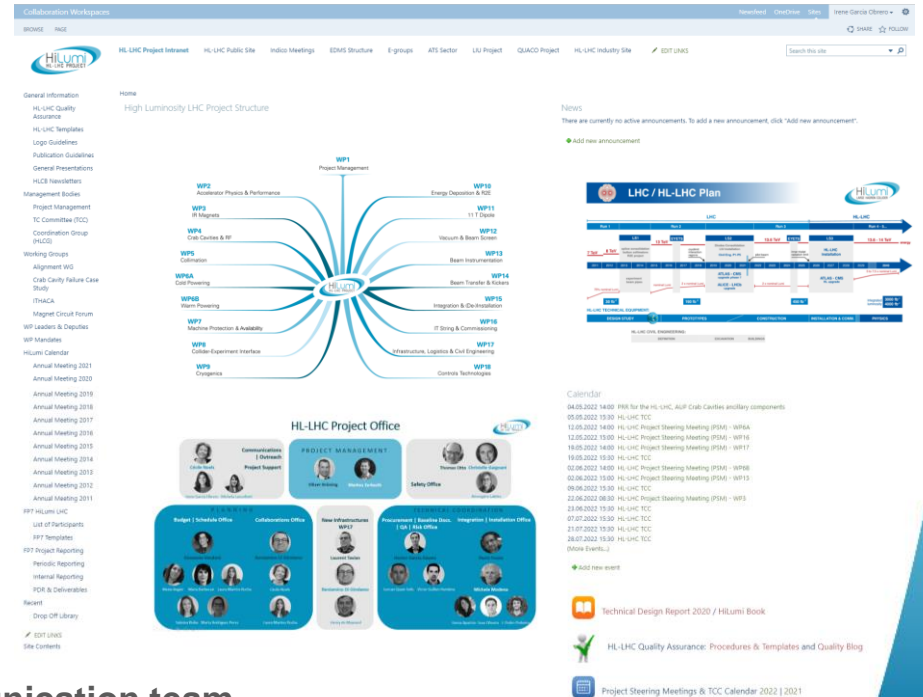
■ Intranet



## Latest News



View all news >



Activities driven by HL-LHC Communication team

H. Garcia Gavela - Welcome day

# HL-LHC communications channels (Stay connected)

- [HL-LHC Collaboration Board Newsletter](#)

-  HL-LHC Monthly Catch-Up

-  

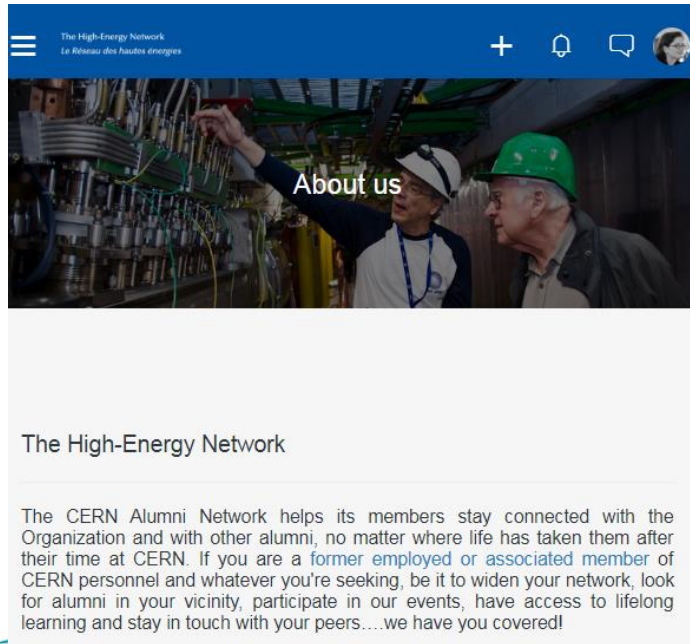
**Activities driven by HL-LHC Communication team  
If you have/get nice photos or videos from HL-LHC  
Do get in touch with our Communication team!!!!**



# Hilumier once and forever

For the Future but also already today

<https://alumni.cern/>



The High-Energy Network  
Le Réseau des hautes énergies

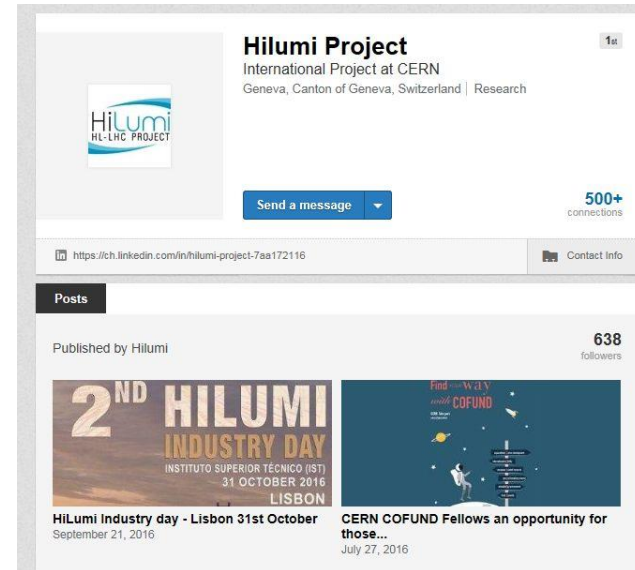
About us

The High-Energy Network

The CERN Alumni Network helps its members stay connected with the Organization and with other alumni, no matter where life has taken them after their time at CERN. If you are a **former employed or associated member** of CERN personnel and whatever you're seeking, be it to widen your network, look for alumni in your vicinity, participate in our events, have access to lifelong learning and stay in touch with your peers....we have you covered!

For the Present

<https://ch.linkedin.com/in/hilumi-project-7aa172116>



**Hilumi Project**  
International Project at CERN  
Geneva, Canton of Geneva, Switzerland | Research

500+ connections

Send a message

https://ch.linkedin.com/in/hilumi-project-7aa172116

Contact Info

Posts

Published by Hilumi

638 followers

**2<sup>ND</sup> HILUMI INDUSTRY DAY**  
INSTITUTO SUPERIOR TÉCNICO (IST)  
31 OCTOBER 2016  
LISBON

Hilumi Industry day - Lisbon 31st October  
September 21, 2016

**CERN COFUND Fellows an opportunity for those...**  
July 27, 2016



# Final Remarks

- Projects are made by people – Your contributions will be key for the success of HL-LHC
- Visibility of the work carried out – Documentation is of utmost importance (for the future in order to trace back the past)
- Communication should not be underestimated  
No need to remind you the era in which we are living
- The Project Office is here to help you, do not hesitate to contact us



***Welcome to the HiLumi Project!!***

***Enjoy the visits  
and  
see you all later at the welcome  
drink***