

KET JV 2015

Reports on:



- CERN Council activities
 - LHC shut-down status and time plans
 - European Strategy
 - (– Global Strategy)
- (- Maria Laach School news)



Report on CERN Council activities

- chair: Agnieszka Zalewska
 - German delegates: B. Vierkorn-Rudolph (BMBF), S. Bethke (MPP)
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- new CERN management
 - member state matters
 - elections
 - other activities (finances; pension fund; ...)



Report on CERN Council activities

new CERN management, as of January 1st, 2016:

- Sijbrand De Jong (NL), President of Council



- Fabiola Gianotti, Director General



- Eckhard Elsen (DE), Director for Research and Computing



- Frederick Bordry (F), Director for Accelerators and Technology

- Martin Steinacher (CH), Director for Finance and Human Resources

- Charlotte Warakaulle (DK), Director for International Relations

- Manfred Krammer (AT), Head of PHE Department

- Gian Francesco Giudice (IT), Head of PHT Department



Report on CERN Council activities

member state matters:

<u>member states:</u>	Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, United Kingdom, Israel
<u>associate members:</u>	Pakistan , Turkey
in pre-stage to m.s.:	Romania, Serbia,
<u>accession stage:</u>	Cyprus,
(assoc. in pre-stage to m.s.)	
<u>applicants for associate m.s.:</u>	Azerbaijan , Brazil, Croatia, India , Russian Federation, Slovenia, Ukraine (* admitted by Council, subject to signature)
<u>contacts for associate m.s.:</u>	Australia, Bangladesh, Canada, India, Ireland, Lithuania
<u>observer status:</u>	JINR, USA, Japan, UNESCO, EU
<u>cooperation agreement:</u>	Albania, Mongolia

LHC roadmap

LS2 starting in 2019

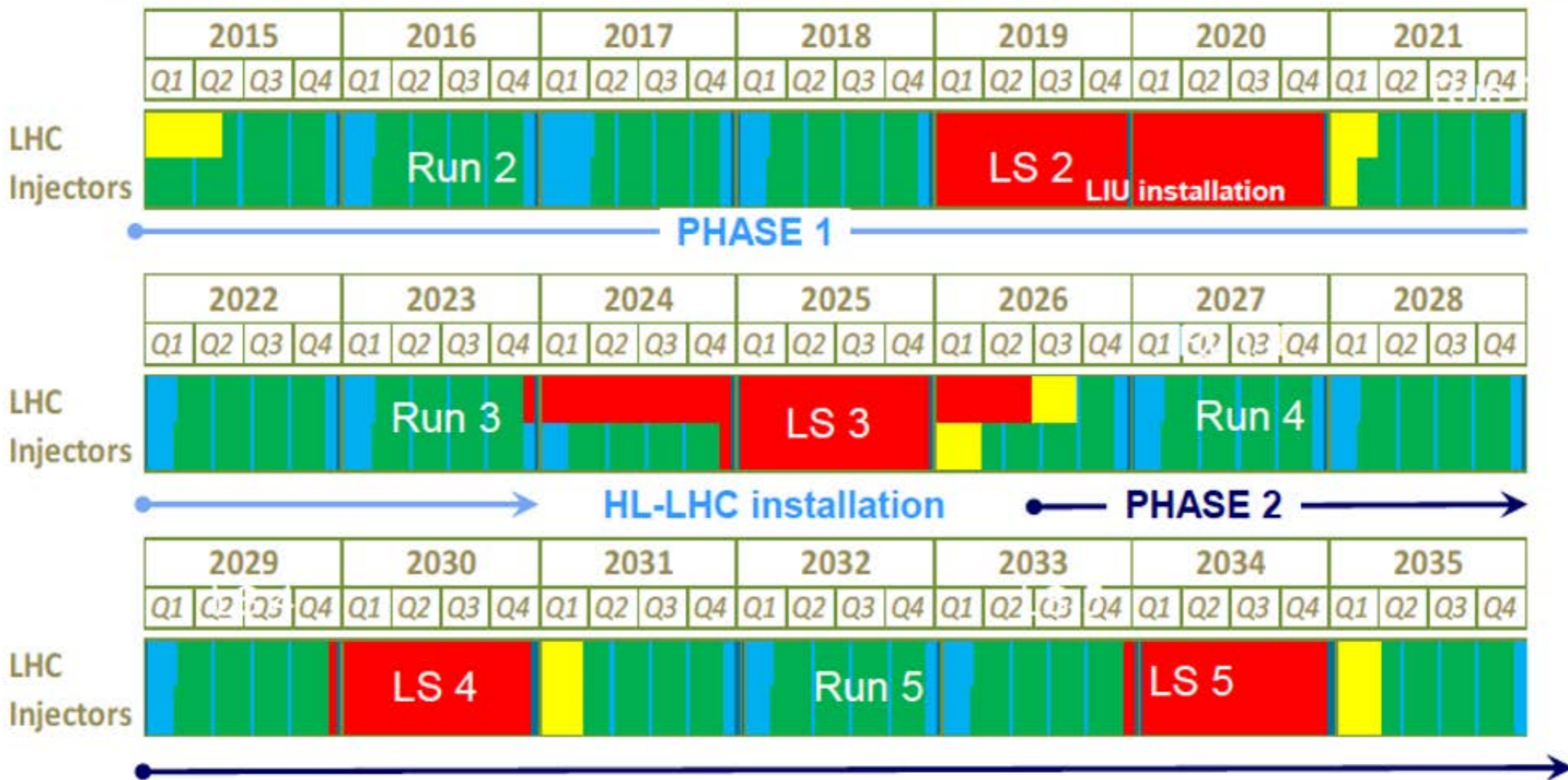
=> 24 months + 3 months BC

LS3 LHC: starting in 2024

=> 30 months + 3 months BC

Injectors: in 2025

=> 13 months + 3 months BC





European Strategy

- dedicated sessions during September Council
- reports (ECFA, ICFA, IPPOG, EPPCN, implementation, techn.-transfer, ...)
- Council request to SPC: details on ILC/FCC/CLIC/... options

Global Strategy

- **Regional strategies in Particle Physics**
 - Japan
 - Europe: update approved by CERN Council
 - US: P5

- **US P5 Strategy: Science Drivers**

- Higgs boson
 - Neutrino mass
 - Dark matter
 - Cosmic acceleration
 - Explore the unknown
- Facilities: LHC, LBNF, ILC, ...

- **Japan, February 2012**

- if there is a Higgs → ILC
- If θ_{13} is large → large neutrino experiment

- **Europe, May 2013**

- LHC incl. HL-LHC
- Accelerator R&D (CLIC, hield magnets)
- ILC in Japan
- participation in long-baseline neutrino experiment(s)

- **Different flavors in different regions, but large overlap!**
- **Emerging global strategy**

Future Global Accelerator Projects:

- (hl) LHC
- FCC study (CERN; 100/80 km pp-collider; 100 TeV)
- ILC (Japan; 500 GeV e^+e^-)
CLIC (CERN; 3 TeV e^+e^-)
- CepC/SppC (China; 50/70 km; first e^+e^- then pp?)
- LBNF (Fermilab)