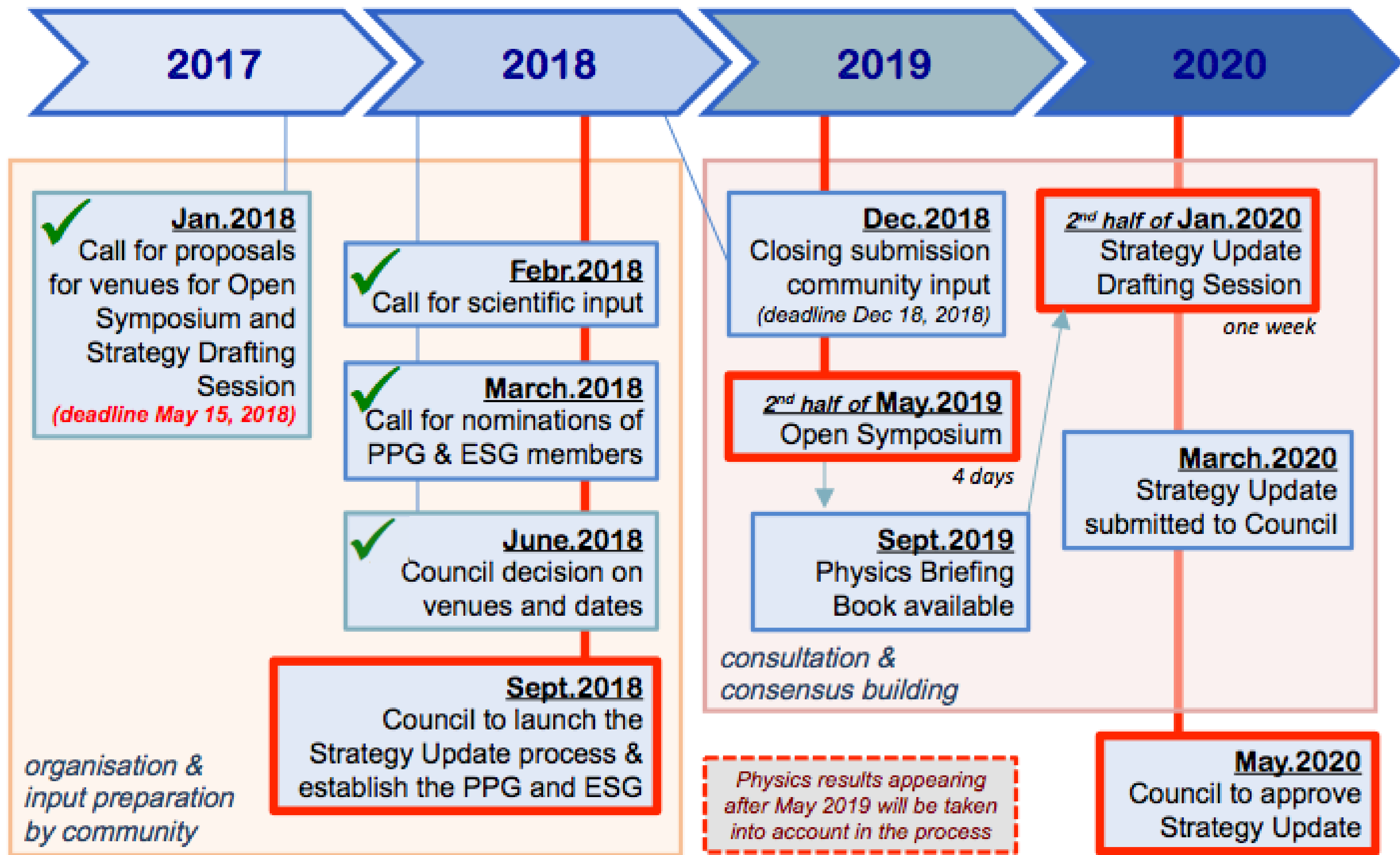


The European Strategy for Particle Physics update

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European Particle Physics Strategy Update



Nuclear Physics

- NuPECC and APPEC are observer to ESG
- Nuclear Physics directly represented in ESG as part of the PPG
 - 4 SPC members
 - 4 ECFA members
 - 1 CERN member

Nuclear Physics in ESPP update

- Heavy Ion Physics

- Hadron Structure

meanwhile adopted by all
4 LHC experiments

- Dense Nuclear matter

- Nuclei

- nuclear structure & interactions

ISOLDE and n_ToF

- Fundamental tests of EW interactions

ISOLDE

- Unique facility in Europe
 - large variety of nuclei and isotopes
 - energy upgrade completed with the installation of the 4th cryomodule; a new physics programme is starting
- Future plans
 - injector upgrades
 - intensity upgrade with separate storage ring

Still to undergo scientific scrutiny and attract respective resources

Require input to ESPP Briefing book (10 pages/input)

Europe status before ESPP update

- Rich experimental programme of LHC
 - by exploring the highest energies and by searching for violations of the SM in (highly sensitive) rare decays
- Complemented by diverse PBC programme and
- Nuclear Physics Programme
 - Heavy Ion
 - ISOLDE and n_ToF
- Atomic Physics Programme on Anti-matter