

NL-input focusses on which considerations are viewed as most important in deciding on the next flagship collider

- We are convinced that a **new flagship collider is essential** and that it should be located at CERN, but it should not affect the completion of the high luminosity phase of the LHC (HL-LHC).
- We see **physics as the primary motivation** for a future collider (study Higgs boson and search for new physics main targets).
- **Other considerations** viewed as important in deciding on next collider: it should offer attractive and innovative R&D programme, time gap between the HL-LHC and the next flagship collider has to be small or there should be an attractive physics programme in the gap.
- **Flexibility** is important to adapt to new physics results and new technologies.
- **Environmental impact** must be addressed.
- **Sufficient career opportunities** are essential to continue to attract and foster physicists and technologists.
- **Strong communication strategy** is imperative for the viability of our field.
- Strong sentiment that **non-collider (astro)particle physics should be included** in the ESPP, and that the next collider project should not come at the expense of a **diverse scientific programme** in Europe in terms of resources.

Science Communication paragraph in NL-input

Context: complex and challenging global situation, particle physics at critical point for future, support needed from many stakeholders, communications and outreach crucial role

Five recommendations:

- **Ensure adequate support and funding** for communications and outreach as an integral part of science research. Professional communicators are crucial for effective and consistent communication. Scientists are needed to actively participate in outreach. Every member of the particle physics community should become an ambassador for the field.
- **Adopt a common and coordinated European vision and strategy** for communications, outreach and public engagement and implement joint initiatives.
- **Engage directly with diverse and new audiences**, including underprivileged and young audiences, and foster dialogue, discussions and participation.
- **Demonstrate societal benefits** arising from fundamental research including, for example, training new generations and valorisation/knowledge transfer.
- **Communicate transparently** about efforts to reduce **environmental impact**, showing commitment to environmentally responsible research.