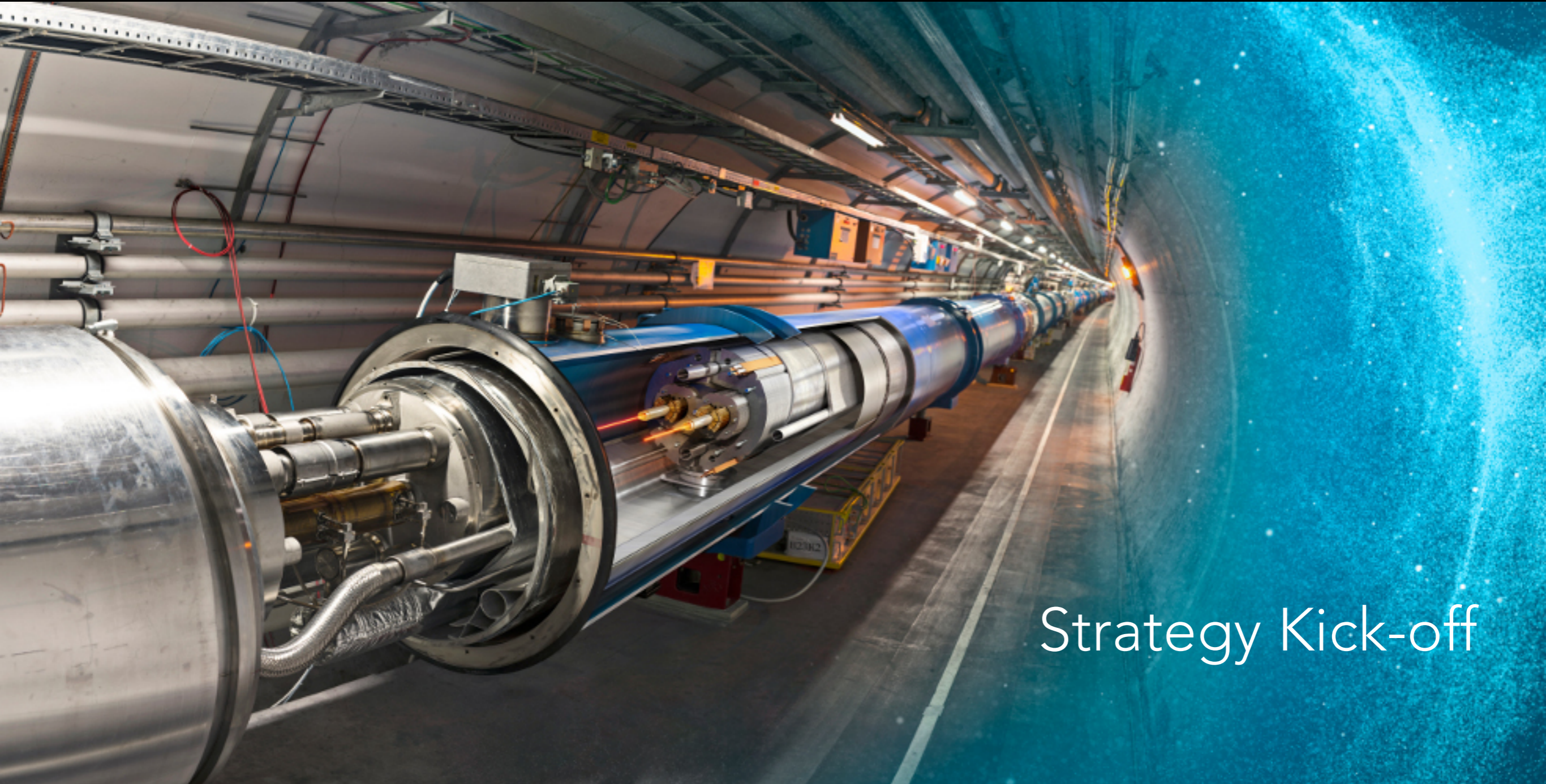


NORCC

NORWEGIAN CENTRE FOR CERN
RELATED RESEARCH



Strategy Kick-off

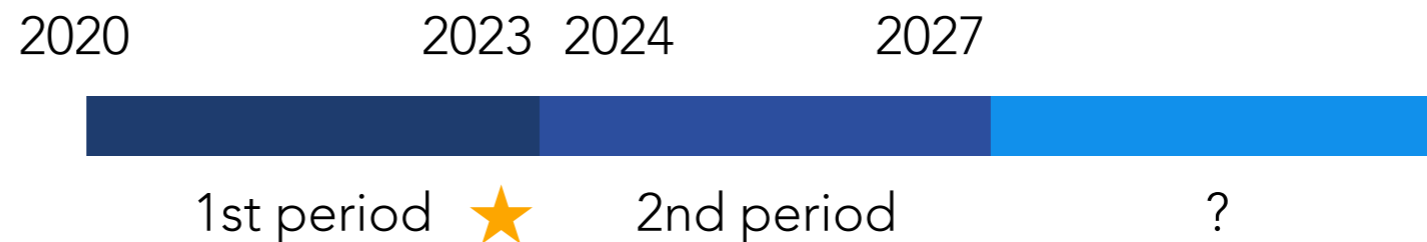
Heidi Sandaker, 11.03.2022

CENTRE TIMELINE

New LHC timeline



Centre timeline



- ★ Mid-term evaluation
Coincides with the NFR physics evaluation

- ! 20-30 years to build new accelerators and experiments

STRATEGY WORK

This work will be Important for the following reasons :

- **Review and if possible improve our scientific goals**
- **Help achieve our scientific goals**
- **Help optimise our resources**
- **Help to secure the continuation of the centre beyond 2023/2027**

Questions to be answered:

- **What are our possibilities?**
 - LHC period
 - HL-LHC period
 - Beyond LHC period
 - ▶ For the different research and technology areas we have
- **What are our advantages, what do we do particularly well**
 - Expertise
 - Collaboration
- **What do we need to learn, understand and build to be successful?**
 - Knowledge, expertise, training
 - Facilities, infrastructure
 - Collaborations ...

Outcome :

- **Updated scientific goals for the next 10 years**
- **Roadmap describing how we plan to achieve these goals**

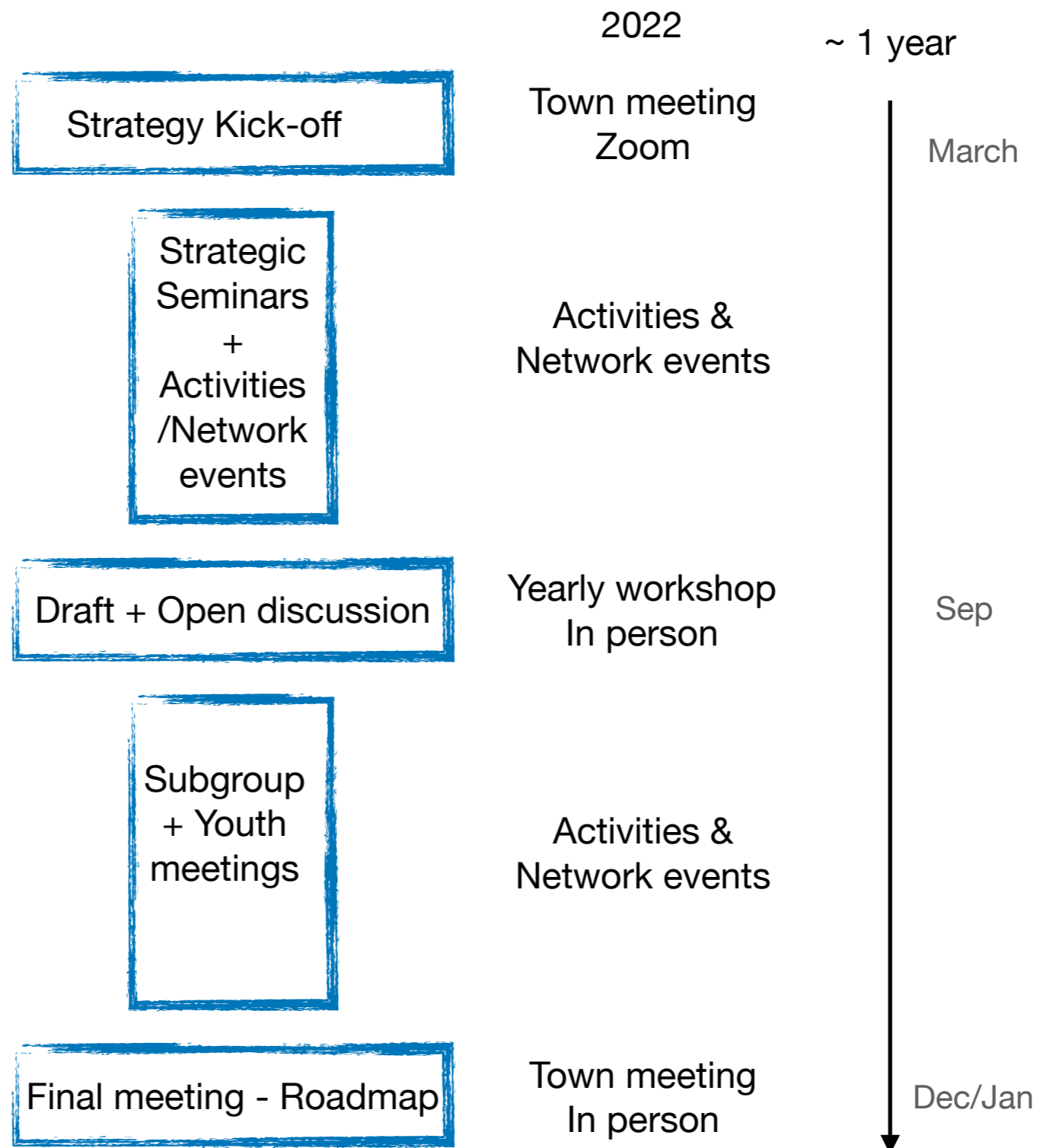
STRATEGY WORK

Suggestion for process to be discussed later today

~ 1 year to discuss

Workshop in person

Try to overlap with existing meetings as much as possible



FROM THE 2019 APPLICATION

Scientific vision: Norwegian Research at CERN aim to research and discover new knowledge about the fundamental particles and the laws of the Universe

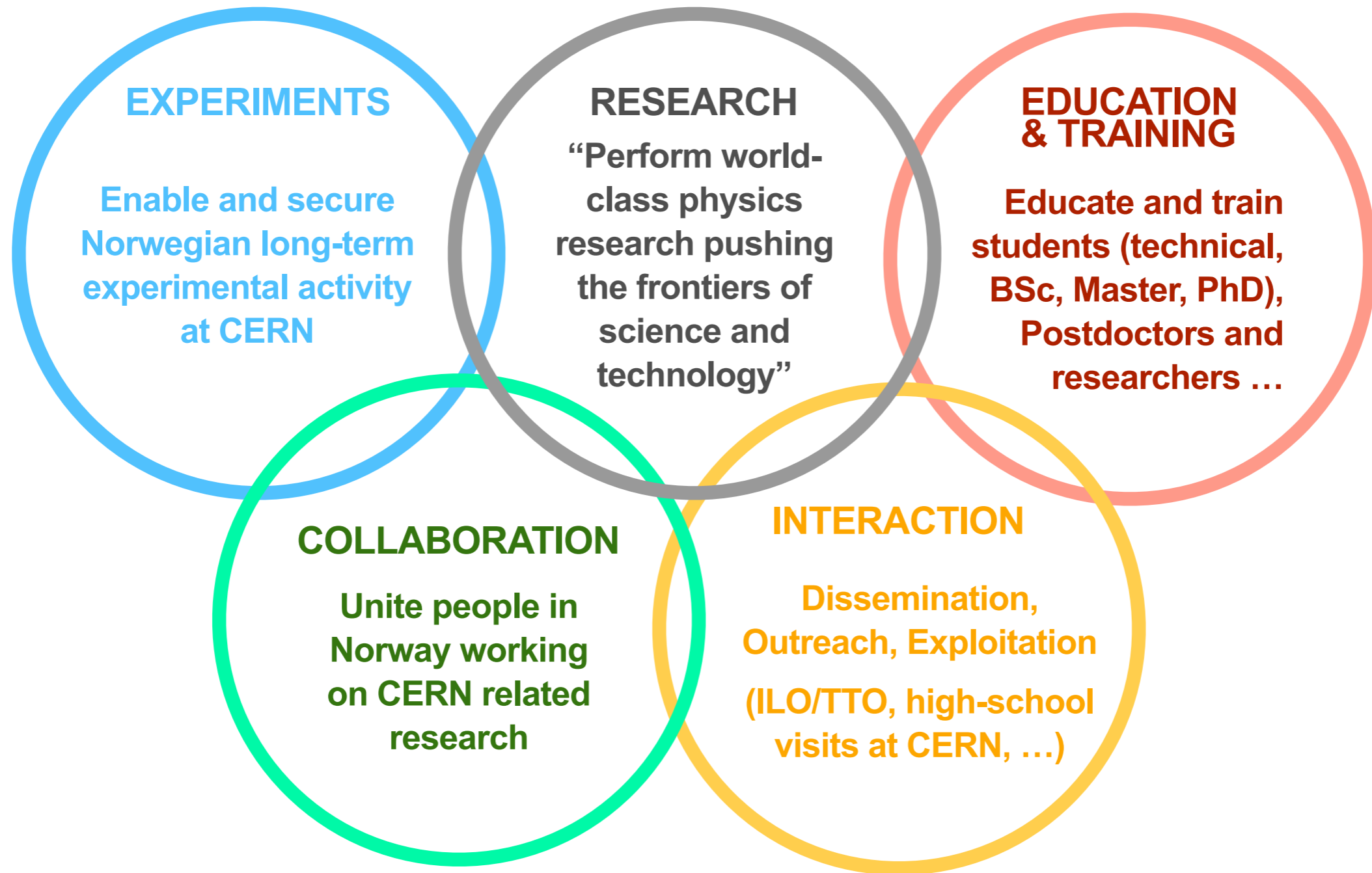
The **primary objective** is to discover the nature of the Universe by answering fundamental research questions such as: what are the building blocks of nature and how do they interact, how did the birth and evolution of the universe happen and how are heavy elements in the Universe created.

- Fully exploit the scientific potential of the Large Hadron Collider (LHC) at the experiments ATLAS and ALICE
- To research and construct the experiment upgrades for the High-Luminosity Large Hadron Collider (HL-LHC) for ATLAS and ALICE
- Fully exploit the scientific potential of the HL-LHC, which is expected to run until 2036.
- To prepare for a post-LHC high-energy accelerator project through design studies, research (CLIC, Awake) and construction
- Exploit the low energy research program at CERN through the ISOLDE experiment
- Pursue novel avenues for research through small-scale experiments at CERN.

In addition to these scientific goals, the program aim to:

- Train a new generation of scientists and engineers
- Engage industry in Norway for deliveries and collaboration, and facilitate technology transfer
- Inspire and nurture scientific awareness among the general public

SIMPLIFIED



GOAL OF TODAY'S MEETING

- **What are our possibilities?**

- For the "LHC period"
- For the "HL-LHC period"
- "Beyond LHC period"
- ▶ For all the different research and technology areas we have

- **What do we do particularly well?**

- Expertise
- Collaboration

- **Outcome of today's meeting:**

- List of possibilities/opportunities/areas of focus
 - *All the ideas on the table*
- Plan for further discussions during the next year including workshop