



FUTURE
CIRCULAR
COLLIDER

HOST STATES PROCESSES UPDATE AND NEXT STEPS

Subtitle of the presentation

Content of the presentation

1. Integrated Environmental Evaluation Plan

- Reminders
- Work progress
- Next steps
- Added value

2. Analysis of administrative procedures on swiss territory for future accelerator project

- Reminders
- Working groups
- Next steps

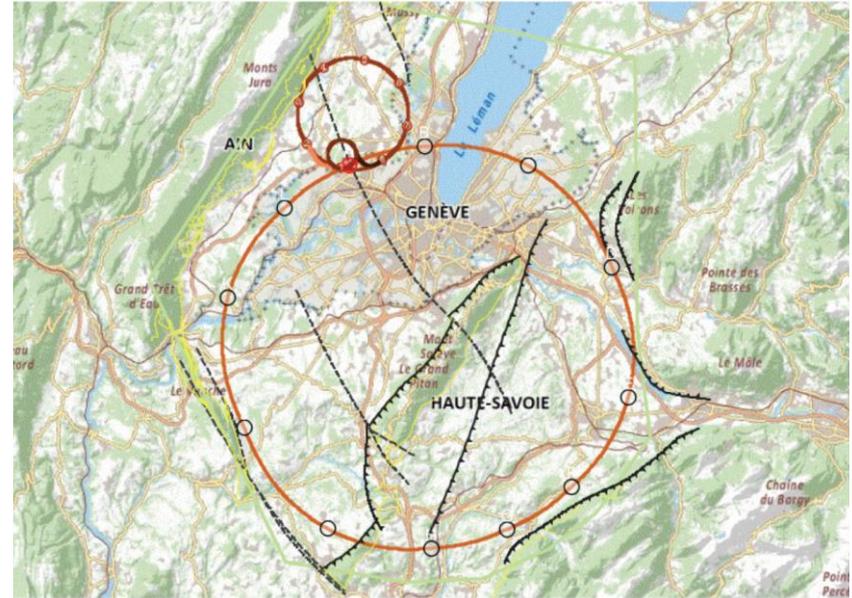
PRINCIPLES OF A STRATEGIC PLAN FOR AN ENVIRONMENTAL ASSESSMENT OF THE TRANSBOUNDARY PROJECT

Environmental Assessment

Environmental assessment is a way to integrate environmental and health aspects since the early stages of the project

Two main dimensions:

- Very effective method to improve the project with a sustainable development approach
- Mandatory for obtaining the authorizations for the authorities



PROJECT OF INTEGRATED ENVIRONMENTAL EVALUATION PLAN

A cross-border note

Legitimacy of information in CH and FR complementary expertis

- LD → SWITZERLAND
- CEREMA → FRANCE

Gradual consolidation of work

A work in progress

- This version of the report is a first proposal for an analysis at a technical level of the structuring and guidance that can be provided at this stage (on the basis of common law procedures) → November 2020

PROJECT OF INTEGRATED ENVIRONMENTAL EVALUATION PLAN Date: 02/11/2020

Contract/Agreement No: CA8162974

Future Circular Collider *Futur Collisionneur circulaire*

**REPORT PROPOSAL
PROPOSITION DE RAPPORT**

**PROJECT OF INTEGRATED ENVIRONMENTAL EVALUATION PLAN
PROJET DE PLAN INTEGRE D'EVALUATION ENVIRONNEMENTALE**

| | |
|----------------------|--|
| Document identifier: | |
| Due date: | To be decided |
| Date: | 02/11/2020 |
| Work package/unit: | FCCIS |
| Organisation: | Cerema CERN Latitude Durable S4rl |
| Version: | V0.12 |
| Status: | IN WORK |
| Domain: | Host States Implementation |
| Keywords: | FCC, Implementation, environmental impacts |

Main principles adopted in the strategic note

- A global approach to the FCC project → a **project scope** that includes
 - **Research infrastructure** project: for the elements carried by CERN
 - **Development project** in France and Switzerland: for the elements carried by each State accompanying the Research infrastructure project
- A shared "avoid, reduce, compensate" approach for the entire perimeter,
- A single file meeting the regulatory requirements of both host countries,
- That also meets the principles of the Espoo and Aarhus international conventions.

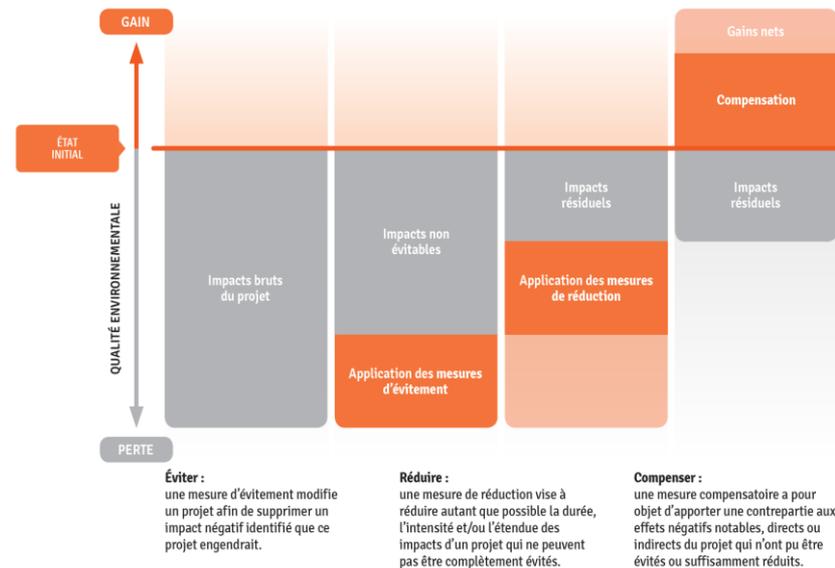
Steps

The French approach “**avoid, reduce, compensate**”, which, aims to reduce the negative impacts of the project throughout the studies. It targets for the absence of net ecological loss and concerns all topics of the environment.

As this project is of an exceptional size, it is also planned to examine **the opportunities** for environmental improvements that it may provide.

The definition of the project is a work of permanent **iteration** in order to respond to the multiple challenges of the territory and the procedures

The ARC principle accompanies the development of the FCC project in all project phases



The “Avoid Reduce and Compensate” sequence

Exploratory work

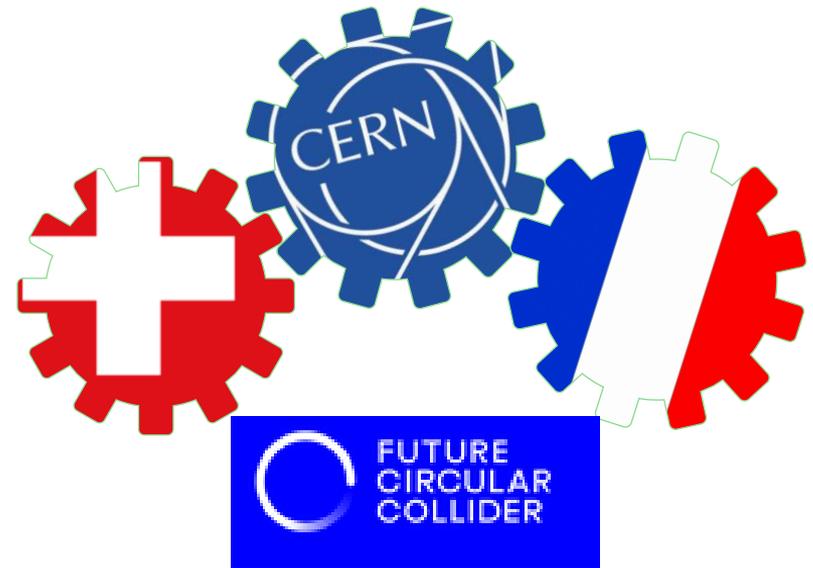
At this stage, these elements are work proposals

They have been submitted to the French and Swiss authorities

Work exchanges are:

- Engaged with de Swiss authorities at a cantonal level
- On going with the French authorities

The consultation procedure has started but is running in parallel in Switzerland and France. Indeed, the systems are different and require specific attention



Transnational environmental evaluation framework

France

Progress

- A projet of integrated environmental evaluation plan shared with the french authorities, based on the Avoid – Reduce – Compensate method
- Formal referral of the Préfet de Région by CERN
- Processing by the Préfet's services afterwards



Next steps

- Official feedback on the plan and integration of the remarks France/Switzerland
- Confirmation of the procedures requiered for the sites investigations (geology, geotechnics, hydrogeology)

Transnational environmental evaluation framework

Suisse

Progress

- A projet of integrated environmental evaluation plan shared with the swiss authorities, based on the Avoid – Reduce – Compensate method → and the opportunities
- First feedback from the Canton of Geneva (Environment and urban planning)
- Coordination with CEREMA to check compatibility of modification requests with the French state
- Integration of feedback into an updated version of the document



Next steps

- Official transmission of an amended report to the federal level
- Production of a consolidated version of the report that meets the demands of the 2 hosts states

Added value of work

- A perception that the work is moving slowly → Intense coordination
- A document that provides a relatively complete overview of the project and the work process proposed by CERN
- A report that raises awareness of the scale of the project and the need of all partners to organize themselves to work together -> Studies begin
- One of the factor that support the collaboration that is taking place with the host states

ANALYSIS OF ADMINISTRATIVE PROCEDURES ON SWISS TERRITORY FOR FUTURE ACCELERATOR PROJECTS

The work

Work carried out in co-construction with a working group composed of key stakeholders for the development of this type of project at the Swiss level (SCP2)

Objective: Answers questions :

How to develop and build a future circular accelerator in the canton of Geneva,
according to which procedures
facing which challenges

→ one key word: **anticipate**

A prospective study carried out in collaboration with CERN and the level 2 of the permanent structure consultation with the Swiss authorities and key stakeholders (SCP2)

Aim: to analyse and identify Swiss administrative procedures according to a shared methodology



ANALYSE DES PROCÉDURES
ADMINISTRATIVES SUR LE TERRITOIRE
SUISSE POUR DE FUTURS PROJETS
D'ACCÉLÉRATEURS

EMDS 2025895
Version 2.0 - 11/11/2019

REPORT

ANALYSE DES PROCÉDURES ADMINISTRATIVES SUR LE TERRITOIRE SUISSE POUR DE FUTURS PROJETS D'ACCÉLÉRATEURS

| | |
|-----------------------------|---|
| Document identifier: | EMDS 2025895 |
| Report release date: | 11/11/2019 |
| Document status: | V2.0 |
| Keywords: | Civil engineering, project implementation, environmental impacts, community health and safety, administrative processes |

Rapport réalisé sous la maîtrise d'ouvrage du CERN. Etude et rédaction confiées au bureau Latitude Durable Sàrl (Maude Sauvain, Latitude Durable, Directrice) dans le cadre des travaux menés par la Structure de concertation permanente (SCP) de niveau 2 (Groupe de travail - Développements futurs FCC-CLIC).

Authorisation procedure

It is essential to specify that the location of the perimeters on the surface :

- concerns **several types of owners** (private, State of Geneva, Confederation);
- is assigned to **different zones** that are currently not suitable for building (agricultural / crop growing areas (SDAs) and vineyards);
- impacts sectors where there are **environmental constraints** (in particular heritage protection by means of site plans, landscape, fauna, flora, biotopes, groundwater).

These territorial issues are the elements on which the proposed procedure is based and mainly the allocation of zones, i.e. the **transition from non-constructible to constructible zones**.

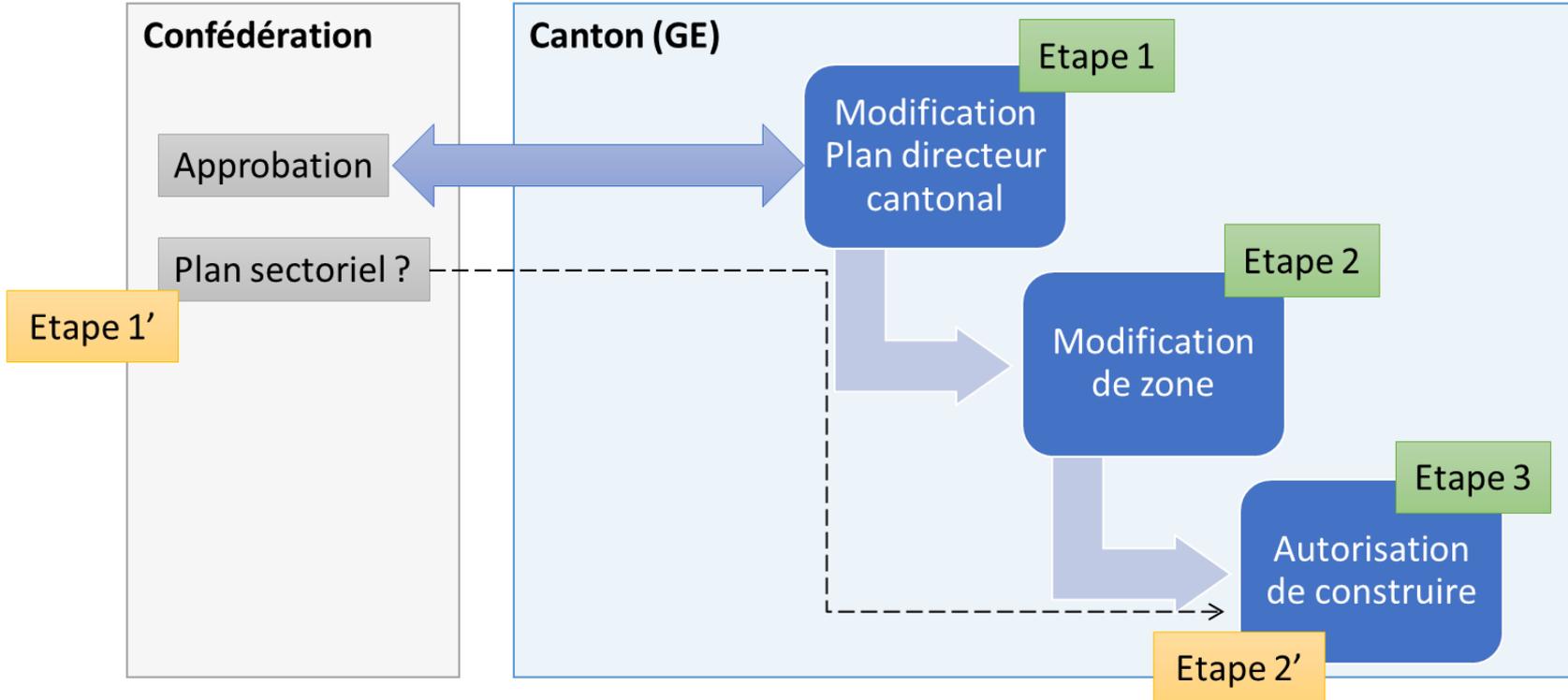
The procedure must therefore meet 3 conditions:

1. a **federal-level attachment** and validation;
2. **zones in conformity** with the planned construction;
3. a building permit allowing the beginning of the construction

On the basis of the analysis of the legal and territorial framework, interviews and coordination meetings of the SCP2, two variants of procedures are defined :

- **Variant 1**: Three-stage cantonal procedure (in green) ;
- **Variant 2**: Joint federal and then cantonal procedure in two stages (in yellow).

Building permit procedure in Switzerland.



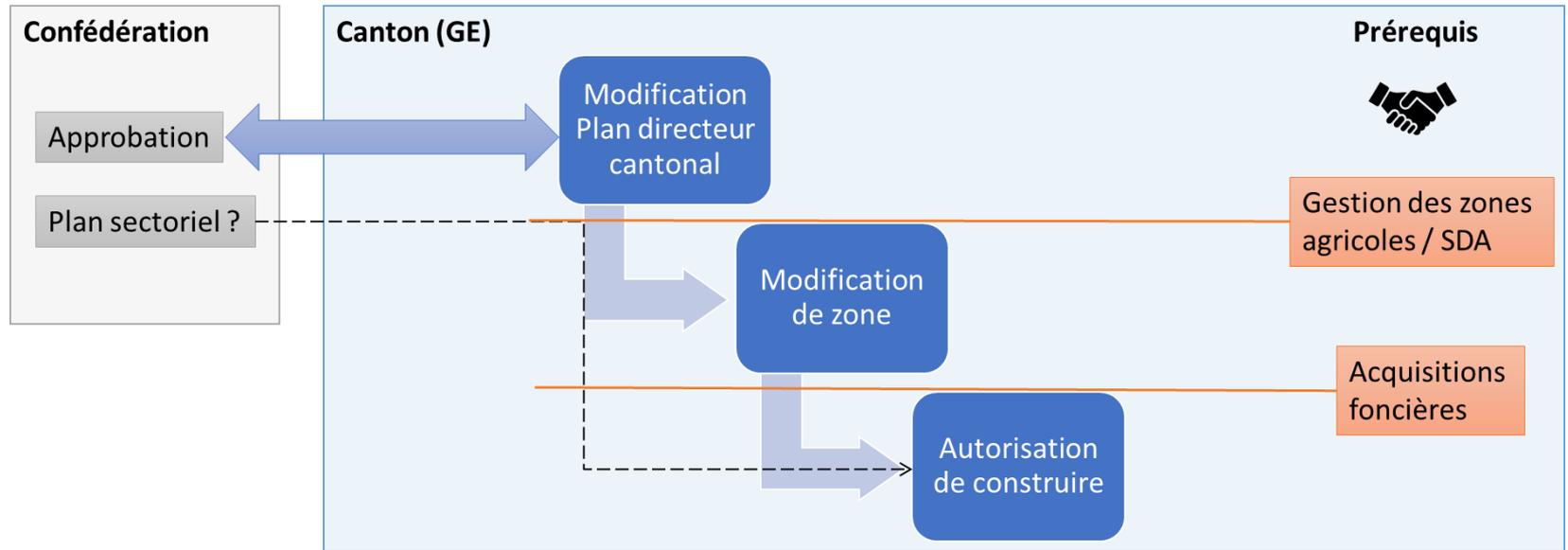
Prerequisite

The procedural variants highlight two parallel paths for an identical result: the building permit. Each procedure will have to pass two common prerequisites, which are key issues for the success of the project:

- **management of the agricultural zone and crop production areas (SDA);**
- **the acquisition and availability of land for the project's surface areas.**

The two prerequisites allow the constructability of the surface sites. They occur at different stages of the procedure.

Authorisation procedure and prerequisites



Conclusions of the preliminary study

2 procedural options to be specified

An usual variant, which uses known and therefore controlled spatial planning tools: the **cantonal variant**.

An exploratory variant, joint Confederation - canton, which opens up interesting possibilities for the project with a strong federal scope (sectoral plan), a two-stage procedure and a limitation of objections: **the federal and then cantonal variant**.

2 essential conditions

2 procedural angles, facing the same challenges in terms of project feasibility:

- The need to reclassify the agricultural zone area, an area that is not constructible in essence and that is strongly preserved in Switzerland - into a building zone.
- Land acquisition and provision according to an operational and financial plan to be confirmed.

Ongoing work

Parallel work carried out in parallel with the various concerned actors ...

Sectorial plan

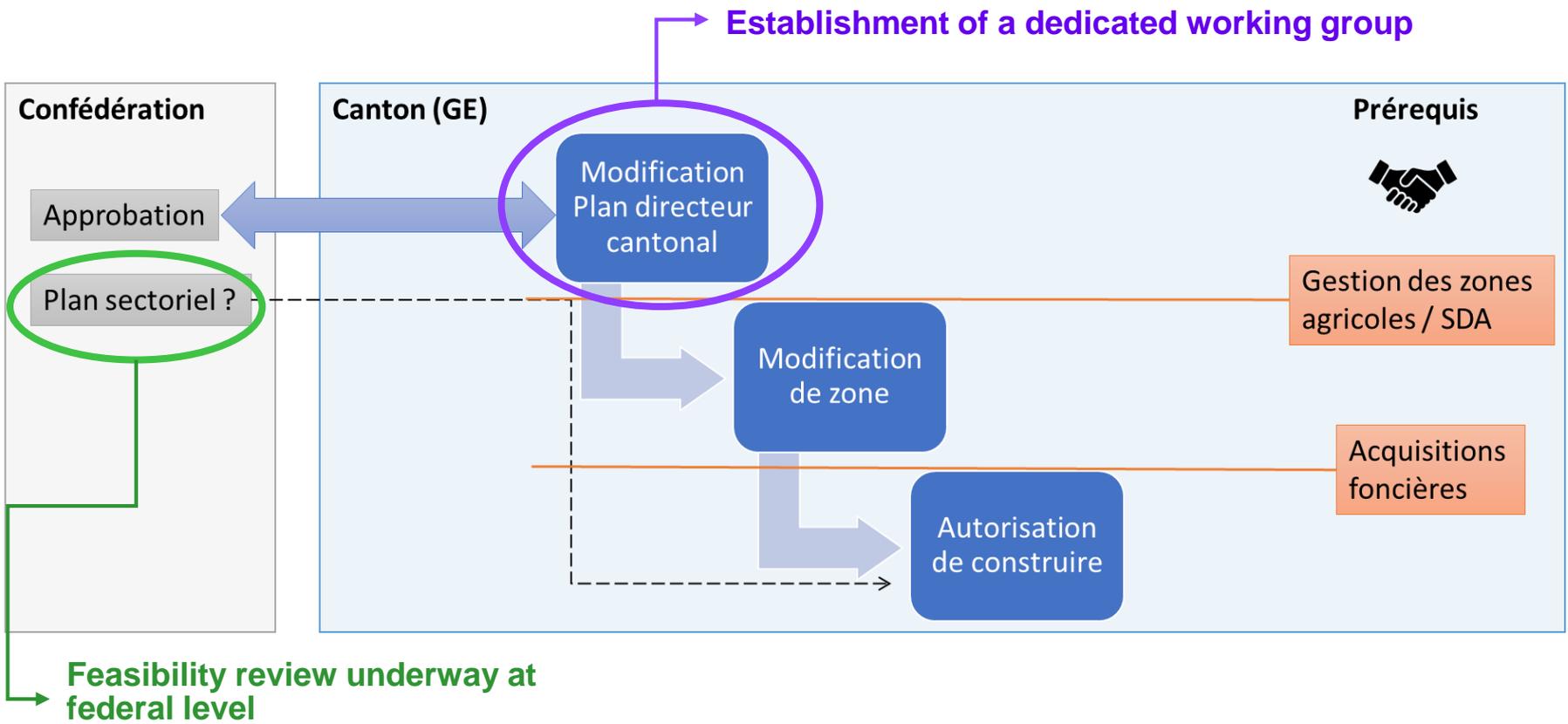
- At the federal level, the feasibility of a sectoral plan is currently being examined in greater depth.
- Legal elements are currently being examined.

Cantonal director plan

- At the cantonal level, the report has been reviewed by the department concerned.
- Preliminary contacts have been made in order to integrate the project into the cantonal director plan.
- A dedicated SCP2 working group will begin this work in early 2021.

And now ...

Procédures



Working group

- A variation of the structures in place (SCP1 and SCP2)
- A working group between CERN and the Canton of Geneva
- Dedicated to updating the PDCn

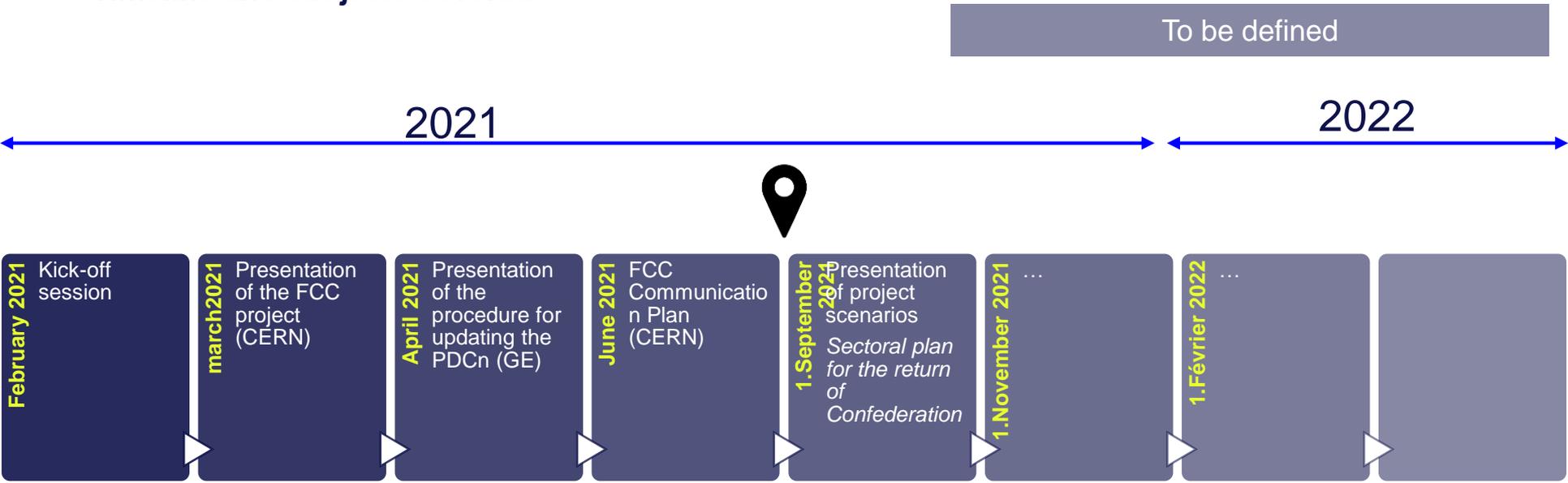
Missions

Produce all the documents necessary for updating the PDCn and ensure the necessary coordination to achieve this



PDCn working group

Timeline and subjects covered



Sectorial plan

- The Geneva State Council has asked the Confederation to support CERN's development with a sectorial plan
- An analysis of the feasibility of this option is underway at the federal level
- The results are expected in summer 2021



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

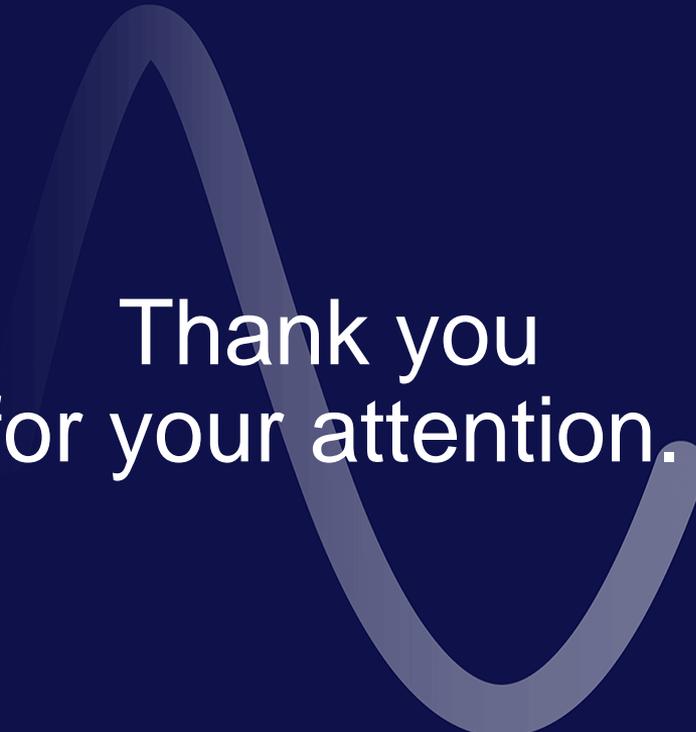


REPUBLIQUE
ET CANTON
DE GENEVE

POST TENEBRAS LUX



Questions and answers



Thank you
for your attention.