



FUTURE  
CIRCULAR  
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Innovation Study

# REGIONAL AND TERRITORIAL BENEFITS IDENTIFICATION: APPROACH AND METHOD

WP4 – IMPACT AND SUSTAINABILITY

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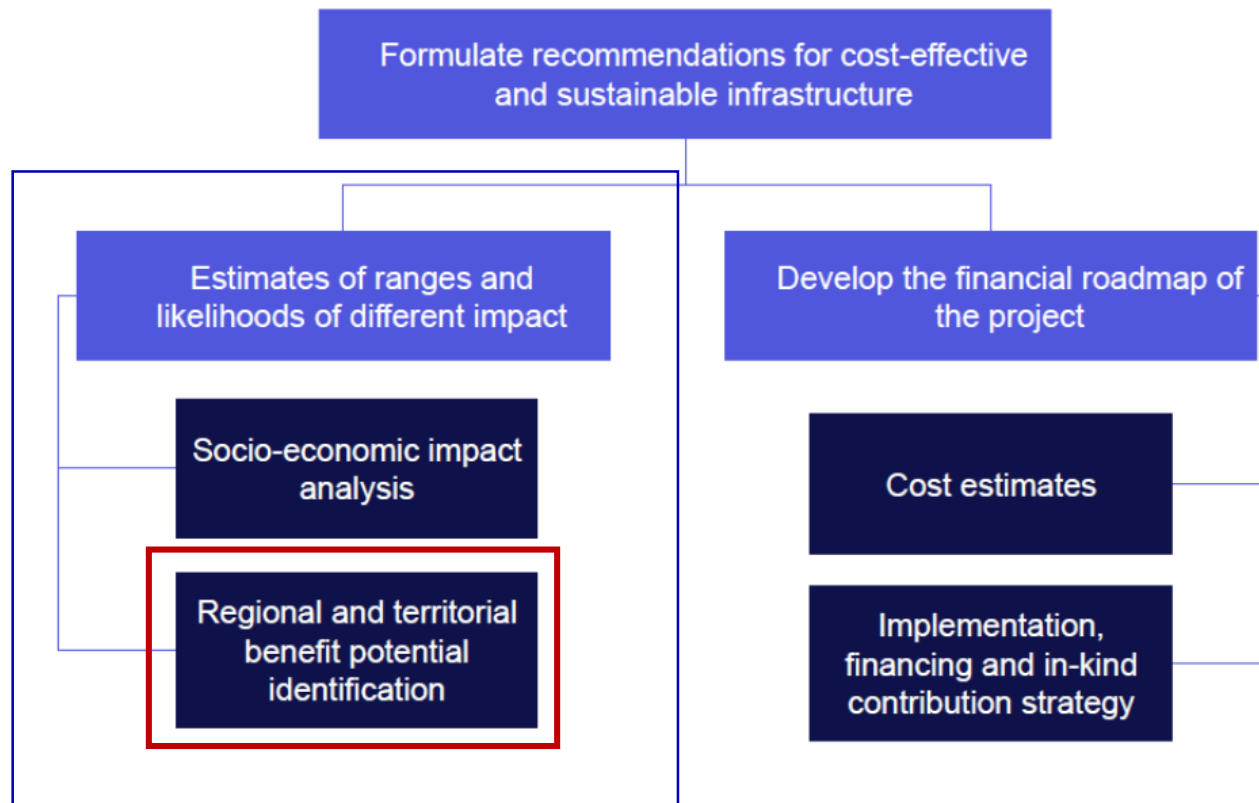
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# INTRODUCTION

# Task 4.4 in WP4: global overview



**DELIVERABLE:** D4.2: Regional benefits and territorial development opportunities in a global project report (including a plan for a «technology pole»)

**PARTICIPANTS:** CNRS/LAPP (leader), Cerema, CETU, CERN, CSIL

**PARTNERS:** BINP, DOE, EdG and DRRT-AuRA



# OVERALL APPROACH

# A defined spatial perimeter with 2 levels

**LEVEL 1: TERRITORIAL**

**LEVEL 2: REGIONAL**

**Universitat Zurich UZH**

**EPFL**  
Ecole Polytechnique Federale de Lausanne

**Unil**  
UNIL | Universite de Lausanne

**UNIVERSITE DE LYON**

**CCIN2P3** **CNRS**

**cea**

**LPSC**  
GRENOBLE | MODANE

**INP**  
Grenoble

**UGA**  
Universite Grenoble Alpes

**CERN**

**LAFTH** **LAPP**  
Laboratoire d'Annecy de Physique des Particules

**UNIVERSITE SAVOIE MONT BLANC**

**ESIPH**  
Ecole de Physique des Houches

**esi**  
European Scientific Institute

**UNIVERSITE DE GENEVE**

**CNRS** **IN2P3**  
Les deux infinis

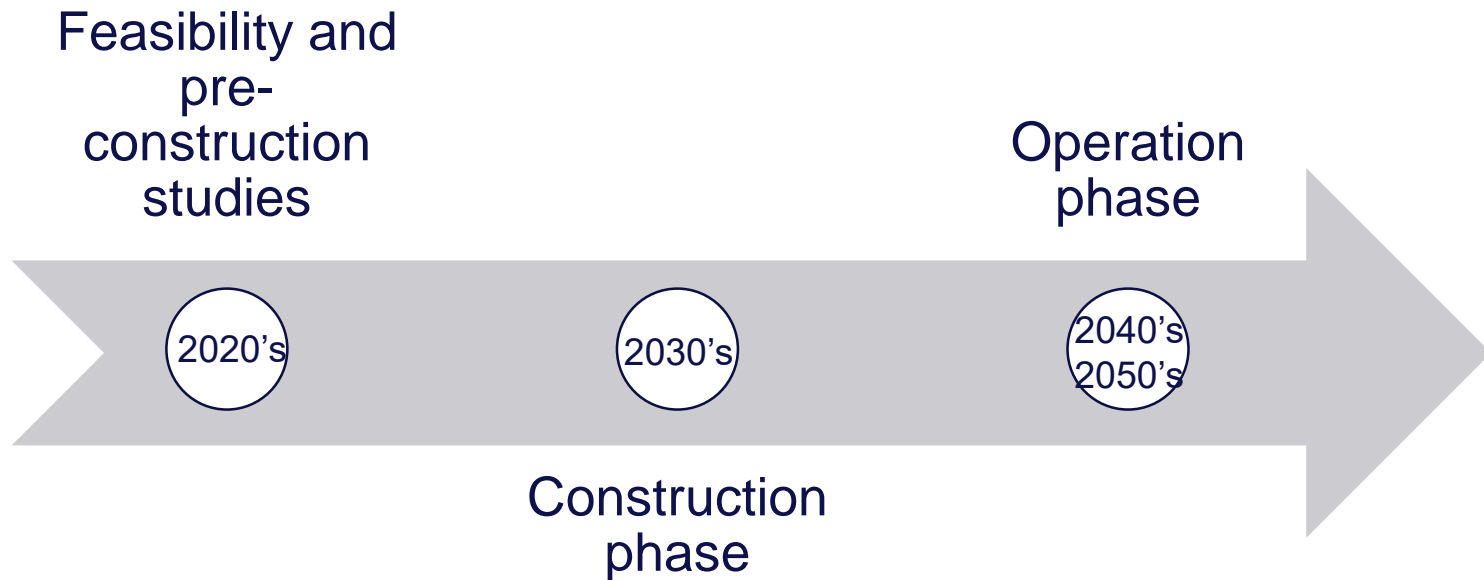
**INFN**  
Istituto Nazionale di Fisica Nucleare SEZIONE DI TORINO

**INFN MILANO**  
Istituto Nazionale di Fisica Nucleare Sezione di Milano

**UNIVERSITA DEGLI STUDI DI MILANO**

**UNIVERSITA DEGLI STUDI DI TORINO**

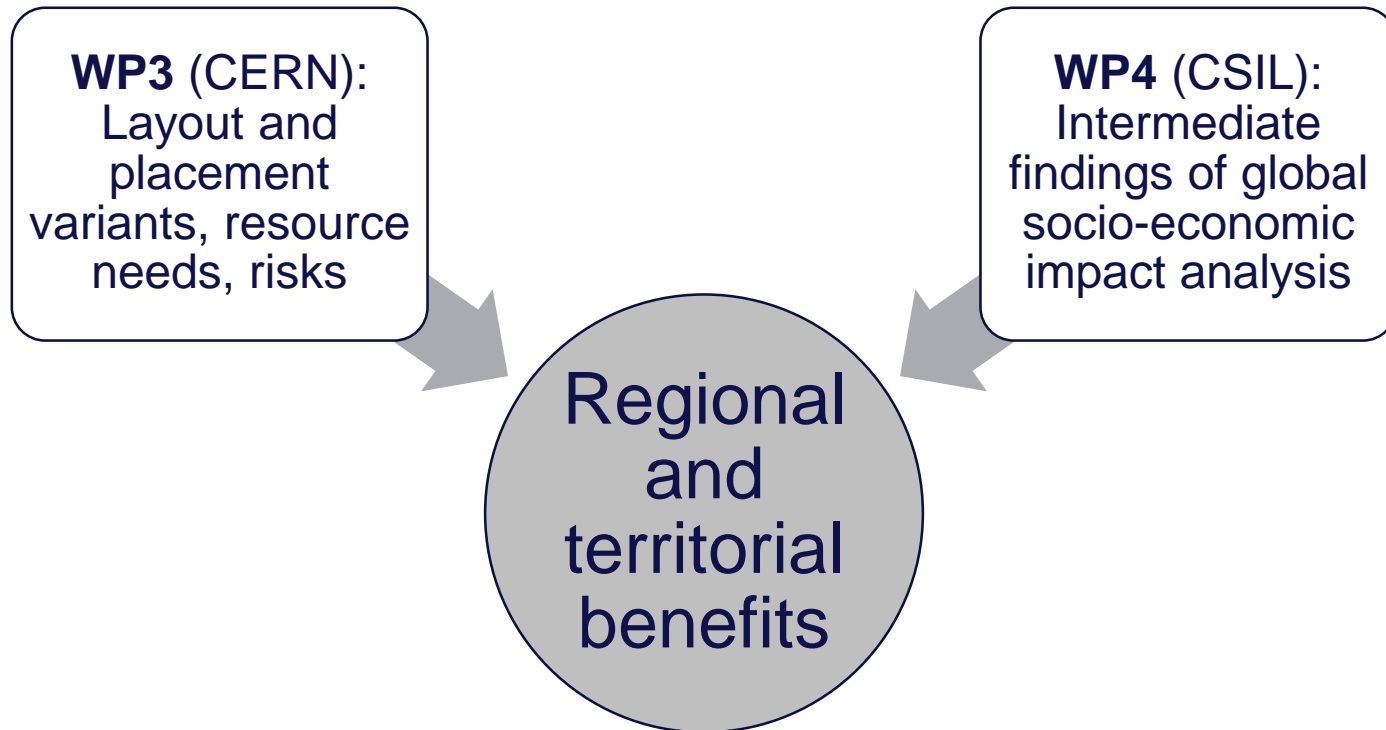
# A defined temporal perimeter with 3 phases





# METHODOLOGY

# Pre-requisites



# Ambitions

## Taking into account

- Every socio-economic impact with **territorial and regional dimensions**
- With a specific focus on the **transnational area** in the territory
- Considering all **potential beneficiaries** (academic, economic, industrial, societal)
- According to several fields:
  - Land-use
  - Networks, energy and water management
  - Economic activities linked to the construction and operation
  - Public facilities and architecture
  - Environment
  - Societal benefits at large
- The analysis and relevance of a new technopole for the FCC

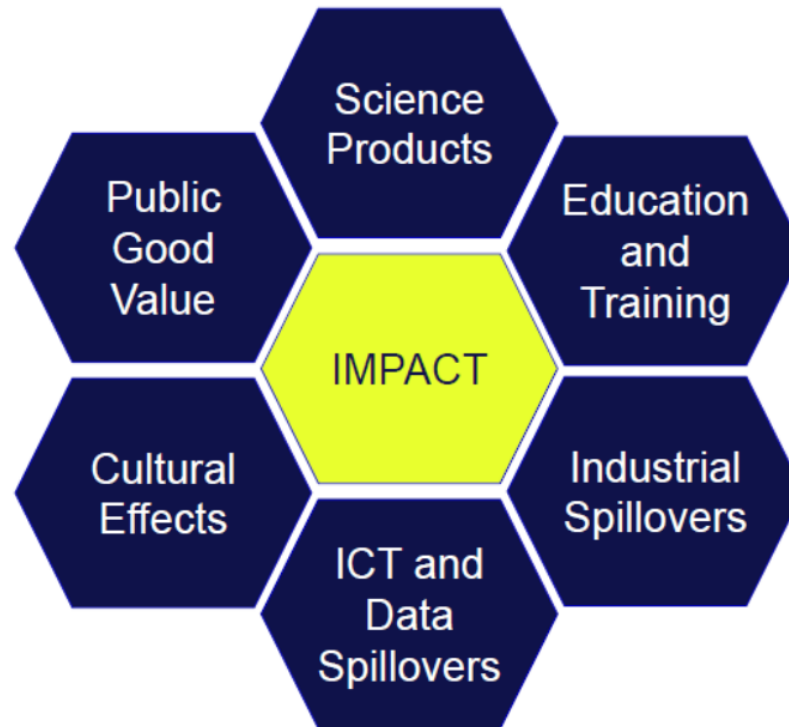
→ **Final ambition : provide all elements for contributing to the acceptability of the project**

## Giving ways of realization

- By a **qualitative** approach and **quantitative analysis** when possible and relevant
- By a **prospective** approach
- By a **collaborative** approach with regional stakeholders

# First step: a first regional benefits list from CSIL

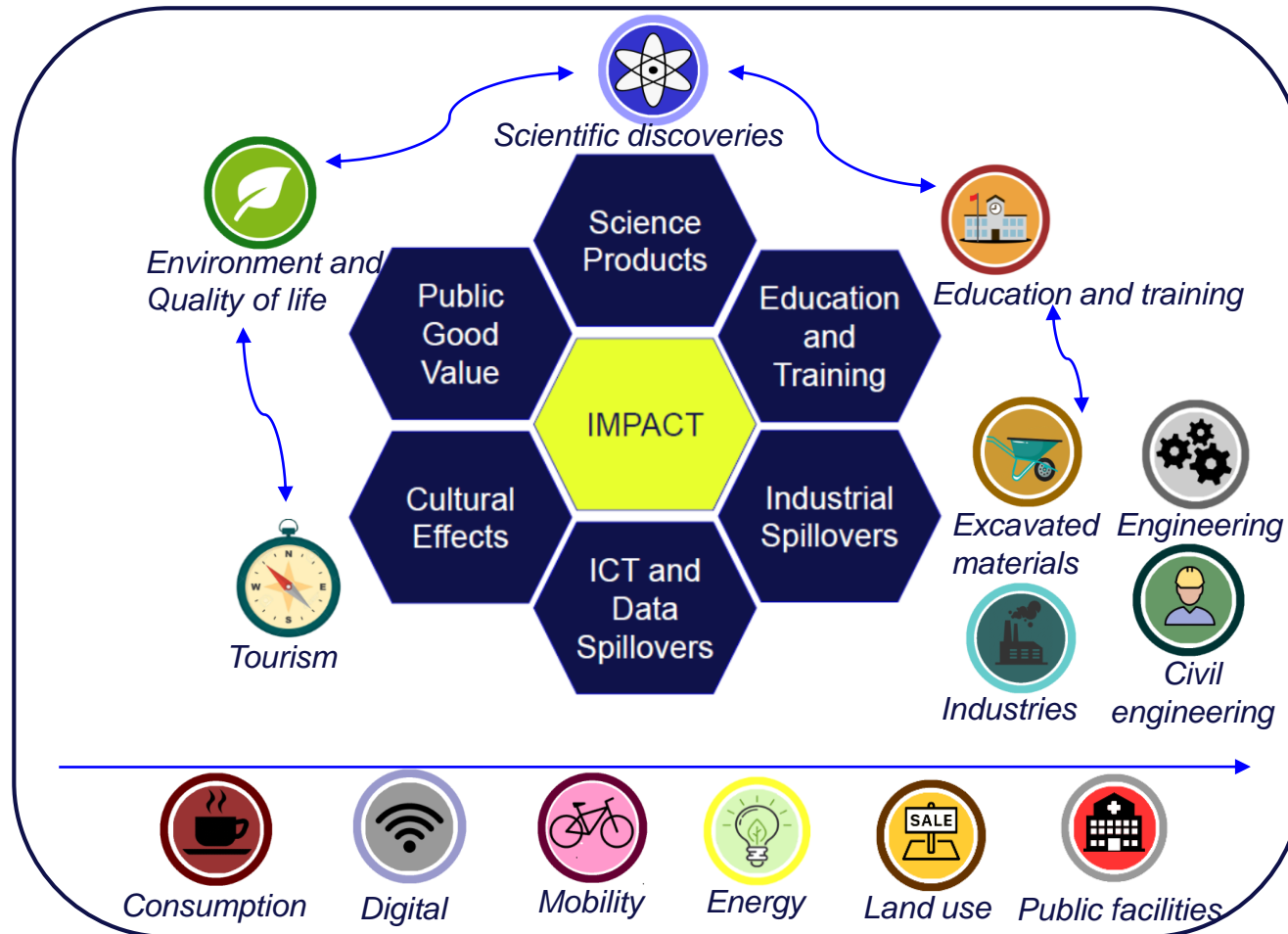
The regional impacts analysis of the FCC will be based on these 6 pillars:



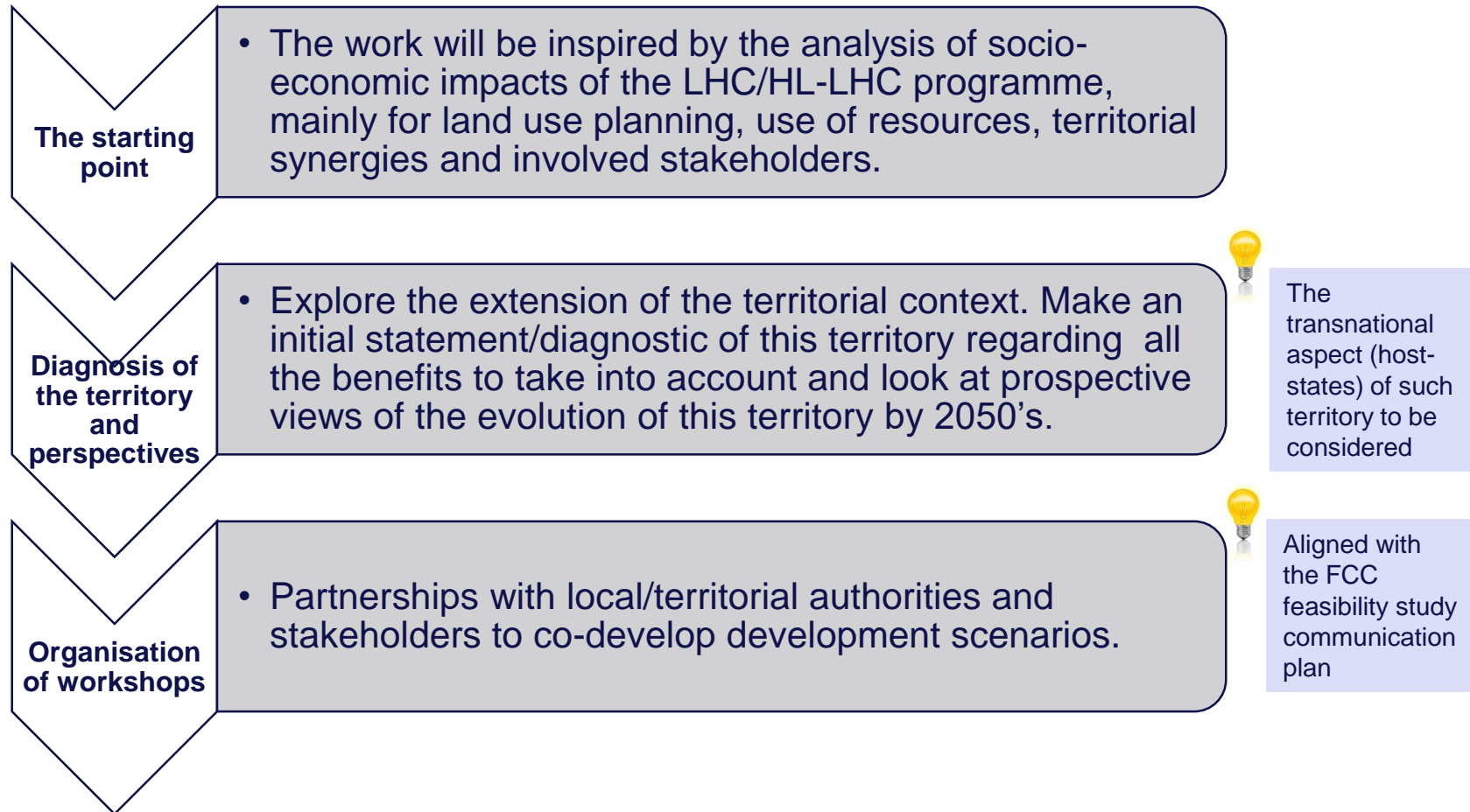
These pillars can be adjusted to a specific territorial context contributing to the acceptability of the project... →

# Second step: a first territorial benefits list

## *Territorial development project in a global project*



# Third step: a qualitative and prospective work with beneficiaries and partners



# Ambitions and first ideas: Integrating the FCC in the Grand Annecy vision by 2050

## Développer des partenariats pour concrétiser le projet

**Objectif n°84** : Créer « le Grand Annecy c'est vous », plateforme numérique d'échange et d'entraide entre les citoyens.

**Objectif n°85** : Construire des partenariats adaptés avec les métropoles voisines : Lyon, Genève, Grenoble, dans le cadre du pôle métropolitain Annecy-Chambéry.

**Objectif n°86** : Travailler avec toutes les collectivités du bassin de vie sur des sujets tels la mobilité, l'économie, l'environnement, l'agriculture de proximité, les déchets, la filière bois, etc.

**Objectif n°87** : Accueillir des antennes de grands organismes et instituts européens des centres de recherche.

**Objectif n°88** : Accueillir des grands événements internationaux d'excellence en lien avec la recherche.

**Objectif n°89** : Développer l'accueil d'étudiants et chercheurs étrangers

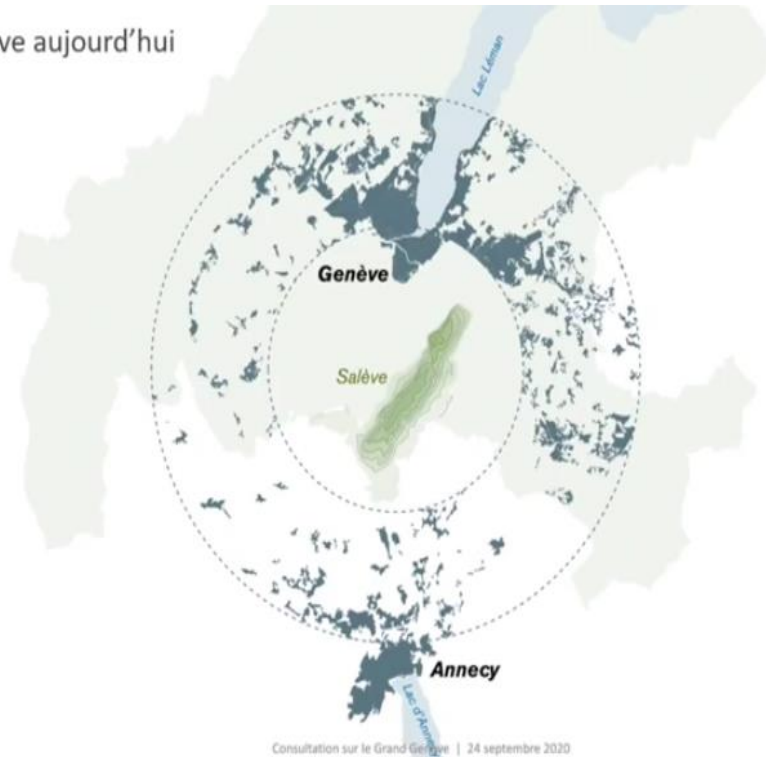
**Objectif n°90** : Travailler avec d'autres territoires européens sur des projets liés aux intérêts de l'agglomération.



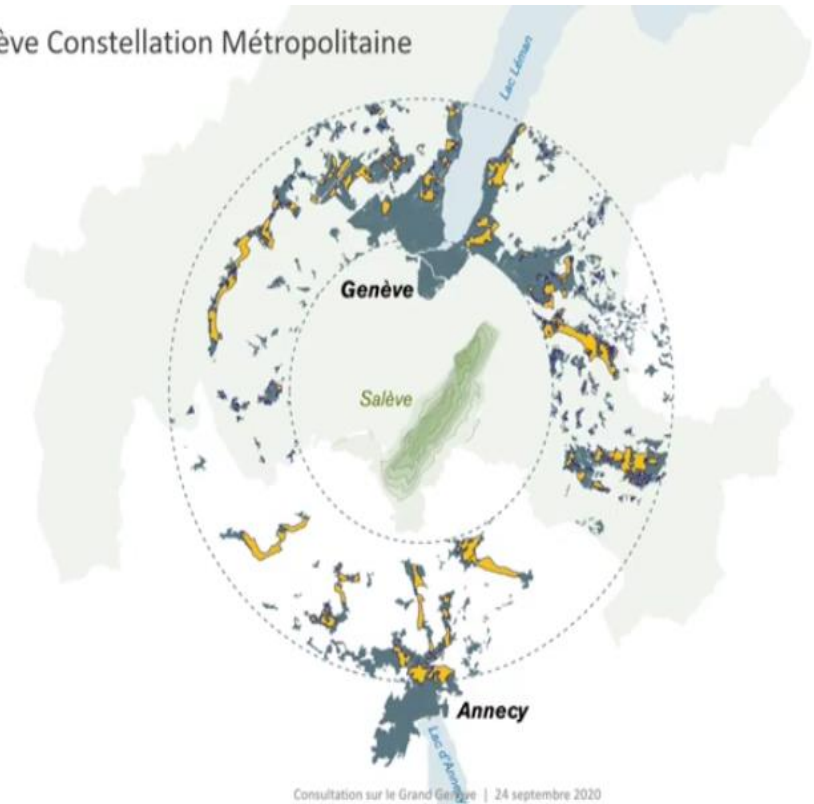
# Ambitions and first ideas: Integrating the FCC in the Grand Genève Metropolitan vision by 2050

**Genève: constellation métropolitaine // Stefano BOERI // Consultation Grand Genève**

Grand Genève aujourd'hui



Grand Genève Constellation Métropolitaine



Source: <https://www.youtube.com/watch?v=BlNx-NRw7Oo>

→ Redistribution between two countries in terms of employment, housing, activities...

# A 100km long tunnel implies an evolution of CERN infrastructures in the French southern territory

**1. The accelerator and detector infrastructures, the technical/access pits and experimental pit with the detector access**

→ Delocalizing the infrastructures along the ring

**2. A second « core » CERN technical pole**

→ Delocalizing the operation facilities along the ring (Storage, technical workshops, accelerator and machines control room, services and infrastructures control site...)

**3. A southern CERN hub**

→ Partnership of Science with Society (Innovation, culture, education, coworking, training on site, ICT services sharing...)

→ Aimed at transport minimization, reducing environmental impacts, improving local impacts and benefits, combining cost-effectiveness sustainability and social wellbeing...

# Complementary steps : the potential evolution of the laboratory (CNRS/LAPP) into a hub/technopole for the FCC

Being inspired by Preveessin and Meyrin sites and their evolution

Having an overall idea about the possibilities : the southern experimental shaft placement scenario and the potential connection with CNRS/LAPP

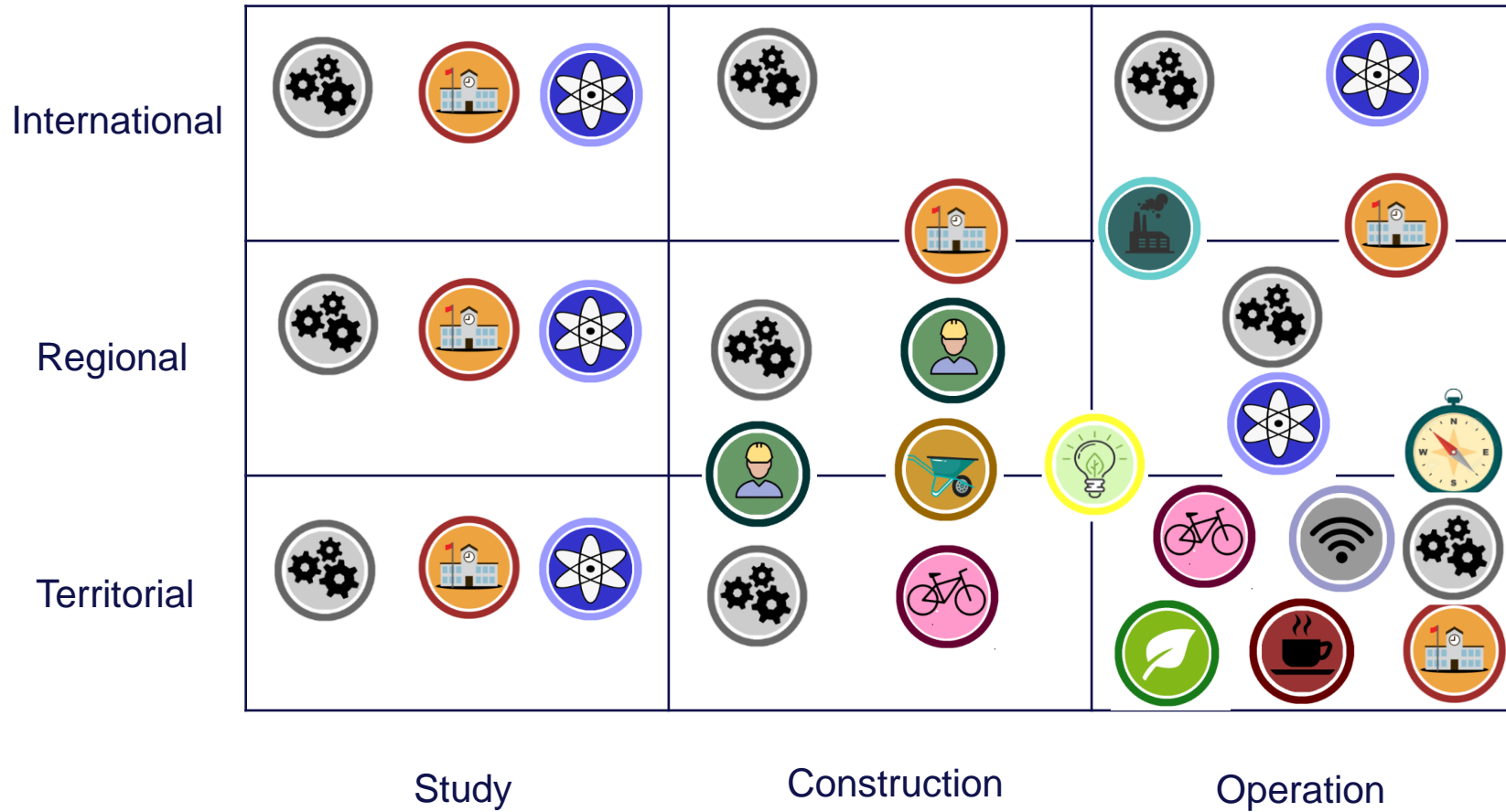
Making an initial diagnostic about the potential changes and benefits (during construction: logistic, technical workshop, storage... and during operation: transport, training, monitoring...)

Identifying further beneficiaries and partners



# CONCLUSION

# Conclusion





THANK YOU