



**NUCLÉAIRE  
& PARTICULES**

**Institut national de physique nucléaire  
et de physique des particules  
IN2P3**

# Cadrage du Point d'Information DUNE

Conseil Scientifique d'Institut – mars 2026

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# DUNE @ IN2P3 in a nutshell

## Why, how, who, what

### Strategy: DUNE and the Institute

- as part of a wide neutrino program (CSI 2021)
- the main new-generation long-baseline expt
- → very broad and rich physics program
- → state-of-the-art technology (LAr TPC)
- → building on historical in-house R&D
- → contributions on PIP-II accelerator as well
- → strategic US/Europe partnership in PP

### Project recognition & funding:

- DUNE on the FR roadmap for research infra.: 2019
- special funds from Ministry of Research: oct 2020
- largest IN2P3 investment outside of Europe

### 7 IN2P3 labs in DUNE:

- APC, Paris (CNRS & U. Paris Cité)
- IJCLab, Orsay (CNRS & U. Paris-Saclay)
- IP2I, Lyon (CNRS & U. Lyon 1)
- LAPP, Annecy (CNRS & U. Savoie Mont-Blanc)
- LPSC, Grenoble (CNRS & U. Grenoble Alpes)
- LP2IB, Bordeaux (CNRS & U. Bordeaux)
- PPC, Chicago (CNRS & U. Chicago)
- + CC-IN2P3, Villeurbanne

### Activities in DUNE:

- historical actor for 20 years+ on R&D (dual phase)
- large scale prototype NP02 @ CERN, data analysis
- key actor for Vertical Drift technique w/ CERN & US
- main focus now is on production for FD VDM
- coordinated effort on physics analysis
- strong involvement in global computing, software

### People in 2025:

- 78 persons (46 FTE), including:
  - research staff 36 p. (28 FTE) , 10 PhD students
  - technical staff 42 p. (18 FTE)
- 29 authors w/ PhD (38 exp. for data-taking/analysis phase)

### Since last review by CSI in 2021:

- huge amount of progress
- leading role of the institute : VDM now module #1
- in production phase (request from CSI 2021)

- refresh memories about the depth and broadness of the physics case (narrative revisited) - *Anselmo*
- show status of the VDM construction effort - *Cédric*