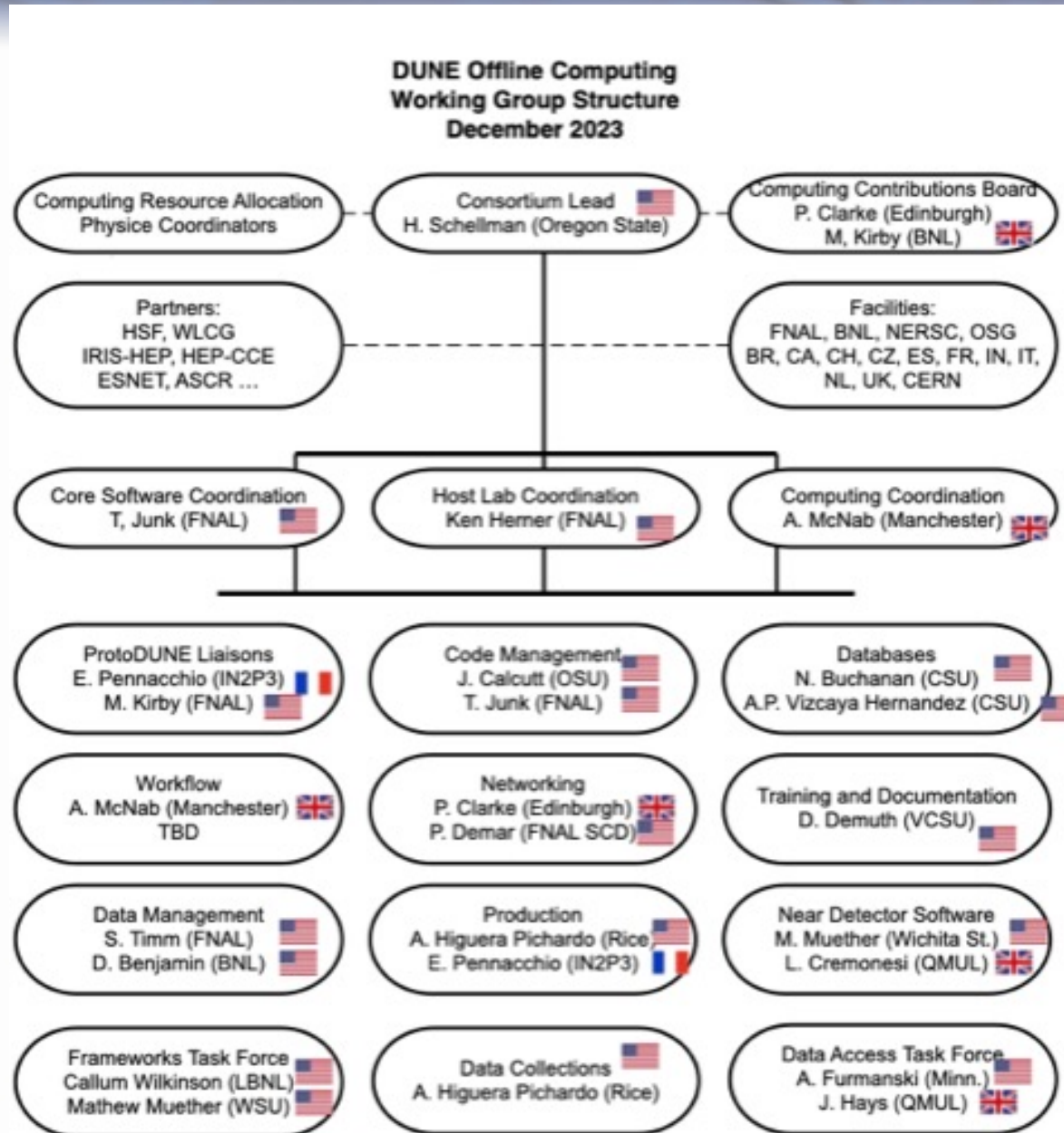


Computing Contributions Board

Preliminary Meeting
13 December 2023
CERN

Agenda: <https://indico.fnal.gov/event/62210/>

Computing Contributions Board



Computing Contributions Board

□ The CCB purpose

- To receive reports and requests from DUNE computing management
- To receive the annual DUNE computing capacity requirements
- To satisfy capacity requirements through DUNE partners
- To respond to any other requests in respect of computing resources from the computing management or DUNE management
- To provide official expectation requests to national reps. where needed
- ~~• To seek contributions of software engineering staff effort for the creation of the computing software infrastructure (NOT analysis);~~

Computing Contributions Board

□ The CCB composition:

- **Chair & Deputy**
- **One national representative from each of the larger partner countries + FNAL + BNL+ CERN**
 - Deemed to be able to report on and communicate with, all computing provision in their country
 - Have knowledge of, and connections to, the relevant national computing funding mechanisms
- **Observer status for all of the smaller partner countries**
 - See notes below
- **Ex officio**
 - DUNE Computing Management

Notes:

1. Larger partner countries are those with more than ~10 members in the DB, plus those who have a track record of large-scale computing and have indicated interest to contribute substantive resources.

Currently : USA, UK, FR, ES, CH, IT, NL, CZ, BR + FNAL, CERN then more recently CA, IN

2. Smaller partner countries are all other countries, generally those with <~10 members in DB (<1% of collabn.)

These are not expected to find computing resources yet, nor to staff CCB. They may choose to do so.

They will be kept informed. They can “upgrade” at any time. This is already the case for NL and CZ

Members ?

Please send me updates

Country	Rep	Alternate (not mandatory)
BR	Ernesto Kemp	Hélio da Motta
CA	Leslie Groer	Nikolina Ilic
CH	Michelle Webber	
CZ	Petr Vokac	
ES	Gonzalo Merino	Ines Gil Botella
FR	Elisabetta Pennacchio	
IN	Nagaraj Panyam	
IT	Marco Pallavicini	Sergio Bertolucci
NL	Jeff Templon	Paul De Jong
UK	Pete Clarke	Andrew McNab
USA	Steve Timm	
FNAL	Ken Herner	
BNL	Doug Benjamin	Mike Kirby
CERN	Xavier Espinal	

CCB: Metrics and Practice

- ❑ In long run DUNE needs a metric as proxy for the size of a partner nation
 - The most obvious would seem to be ~ M&O share
 - Based on PhD authors ?

- ❑ In short term (next couple of years at least) this is not very useful or meaningful. Thus we will use:
 - Common sense
 - Soft expectation on countries (not formal MOU yet)
 - CCB will provide an official “expectation request” where country wants it
 - Ask for minimum sensible significant contributions from major proven data centres

- ❑ In practice this will probably mean:
 - FNAL 25%
 - Other USA ~ 25%
 - CERN and other non-US LHC Tier1/2 sites each @ 5-20% level
[This will come to more than 100%]

Pragmatic suggestion for 2024

% are all in terms of official DUNE request as presented to CCB from time to time

FNAL

- 25% CPU, Disk
- 100% ? Tape (Custodial responsibility)

Non-USA partner Countries

- Please provide a minimum of 5% of CPU and Disk (but no tape request at present)
- If you are a large major LHC Tier-1 country please consider making this minimum of ~10%
- All are free to provide more than this is they wish

CERN

- CERN may choose to provide as it deems fit in the ProtoDUNE period
- Some Tape

Other USA

- 25%

...discuss....

2023 outturn

Country	Total Pl.	Total Used	Ratio
BR	200	36	0.18
CA	360	23	0.06
CERN	1500	134	0.09
CH	200	3	0.02
CZ	2400	92	0.04
ES	512	44	0.09
FR	320	58	0.18
IN	450	41	0.09
IT		3	
NL	514	228	0.44
UK	1000	695	0.70
US	1500	2793	1.86
Total	8956	4150	0.46