

P-ONE BAE — 5y plan

• Current status & funding:

- P-ONE-1 in development
- P-ONE demonstrator partially funded with ERC
—> ~\$12M CFI-IF in preparation + equivalent US proposals to complete demonstrator
- Collaboration significantly growing in US (several lead IceCube institutes) and Europe (European groups from GvD/Baikal experiment)

• TRIUMF status:

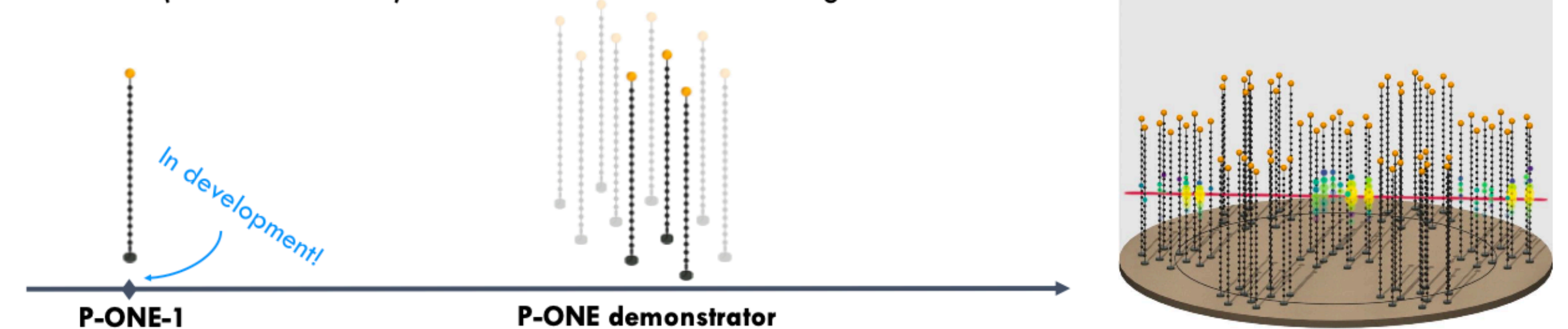
- Gate 1 review passed & positive CFI-IF review

• Next TRIUMF 5y plan:

- If CFI-IF successful P-ONE will see significant growth in project size, impact, reputation
- Great time for BAE hire from 2025 onwards to help grow and coordinate TRIUMF activities on P-ONE
—> the earlier the better

What is the Pacific Ocean Neutrino Experiment (P-ONE)?

- Next-generation neutrino telescope in the Pacific Ocean
- Complete extension of around 3 km³ (around 70 mooring lines)
- P-ONE-1 (1st detector line) with 20 modules and total length of 1000 m



P532 P-ONE

- Limited risk exposure for TRIUMF, mainly expertise around DAQ and electronics
- Inflation/contingency are included in the budget
- Infrastructure will not remain at TRIUMF. TRIUMF acts more like a contractor
- University of Alberta will likely subcontract TRIUMF for services
- The P-ONE collaboration has been discussing with DESY for the transfer of some intellectual property