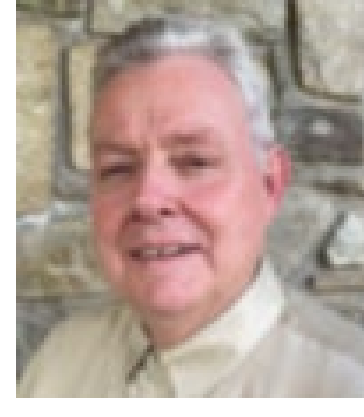




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## Abstract

This poster is a continuation of the ongoing tracking of proton capacity in the U.S. as it relates to radiation testing of electronics. The current state of access is presented

## The Pros

ProVision Knoxville was bought by Covenant Health and closed in 2022, BUT, they're back! Reopened with ProNova Solutions, LLC operating.

Francis H. Burr at Massachusetts General Hospital (MGH) keeps getting closer to normal operations (not quite, but...)

Northwestern Medicine and Loma Linda continue to be workhorses for access

Mayo Clinic in Phoenix has improved access and has gotten excellent reviews

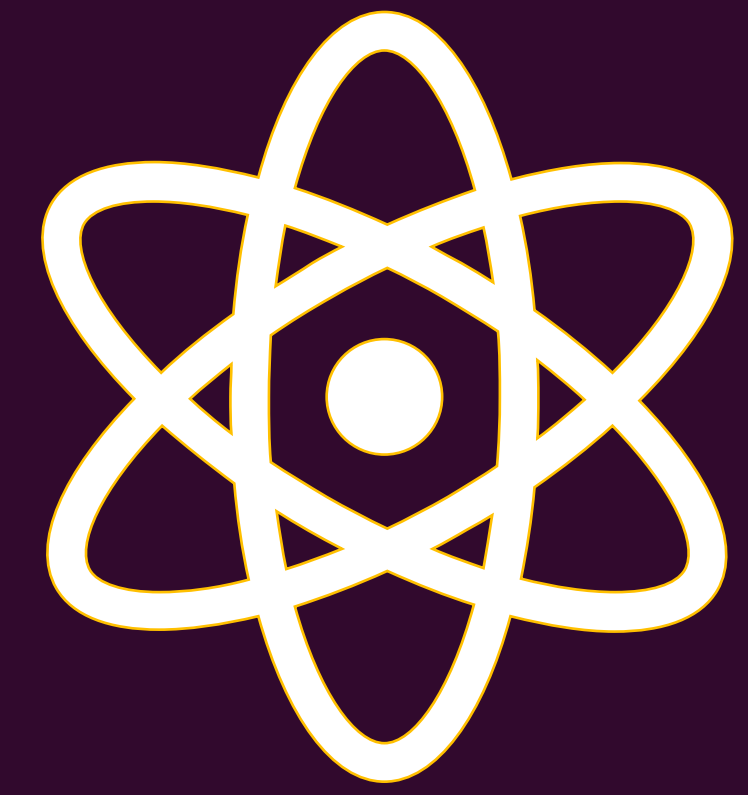
## The Cons

Oh-Oh! ProNova still needs a longer term agreement with Covenant

MGH may shut down for 2 years starting in mid-2024 for upgrades

Revolving door of proton center personnel

**2024 could be significant problem**



# The Pros and Cons for Accessing Protons for Electronics Testing in the U.S.

## #stillneedmorebeam >200 MeV

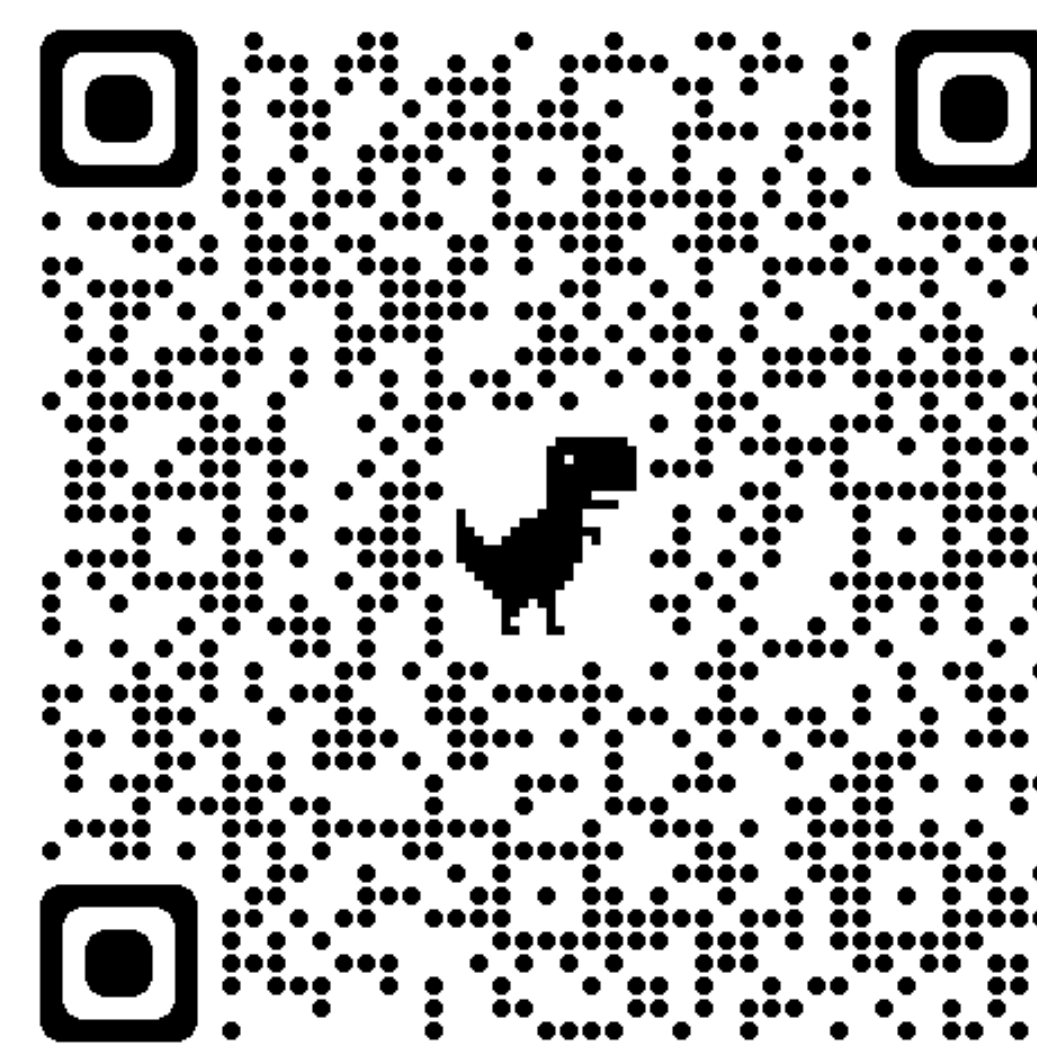
## Need more intel

### Periodic discussions with:

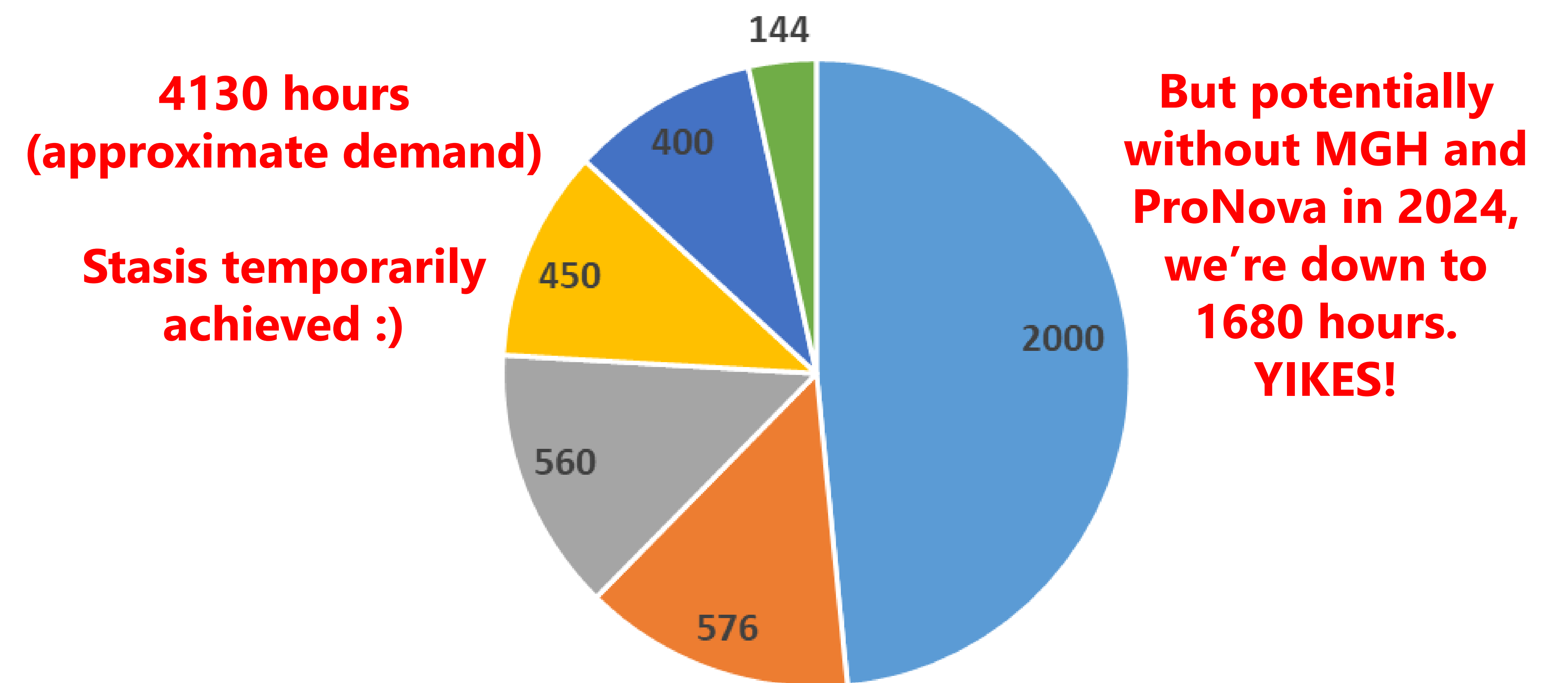
- Johns Hopkins Proton Therapy Center
- Proton International at University of Alabama-Birmingham (UAB)
- California Protons Cancer Therapy Center
- Hampton University Proton Therapy Institute (HUPTI)
- and others...

**Discussions are good, but closing the deal has been a challenge.**

*Full status spreadsheet ->  
New for 2023: current hourly rates where provided*



### CY23 Estimated Domestic >200 MeV Proton Hours



- ProNova Solutions, LLC
- James M. Slater MD Proton Treatment & Research Center
- Northwestern Medicine Chicago Proton Center
- MGH Francis H. Burr Proton Beam Therapy Center
- Mayo Clinic Proton Beam Facility - Phoenix
- Mayo Clinic Proton Beam facility - Rochester

Does not include hours at Tri-University Meson Facility (TRIUMF) – Vancouver, CA 1850 hours spread on 2 accelerators 480/355 MeV, 105 MeV and below. Demand numbers for TRIUMF not included in above estimate.