



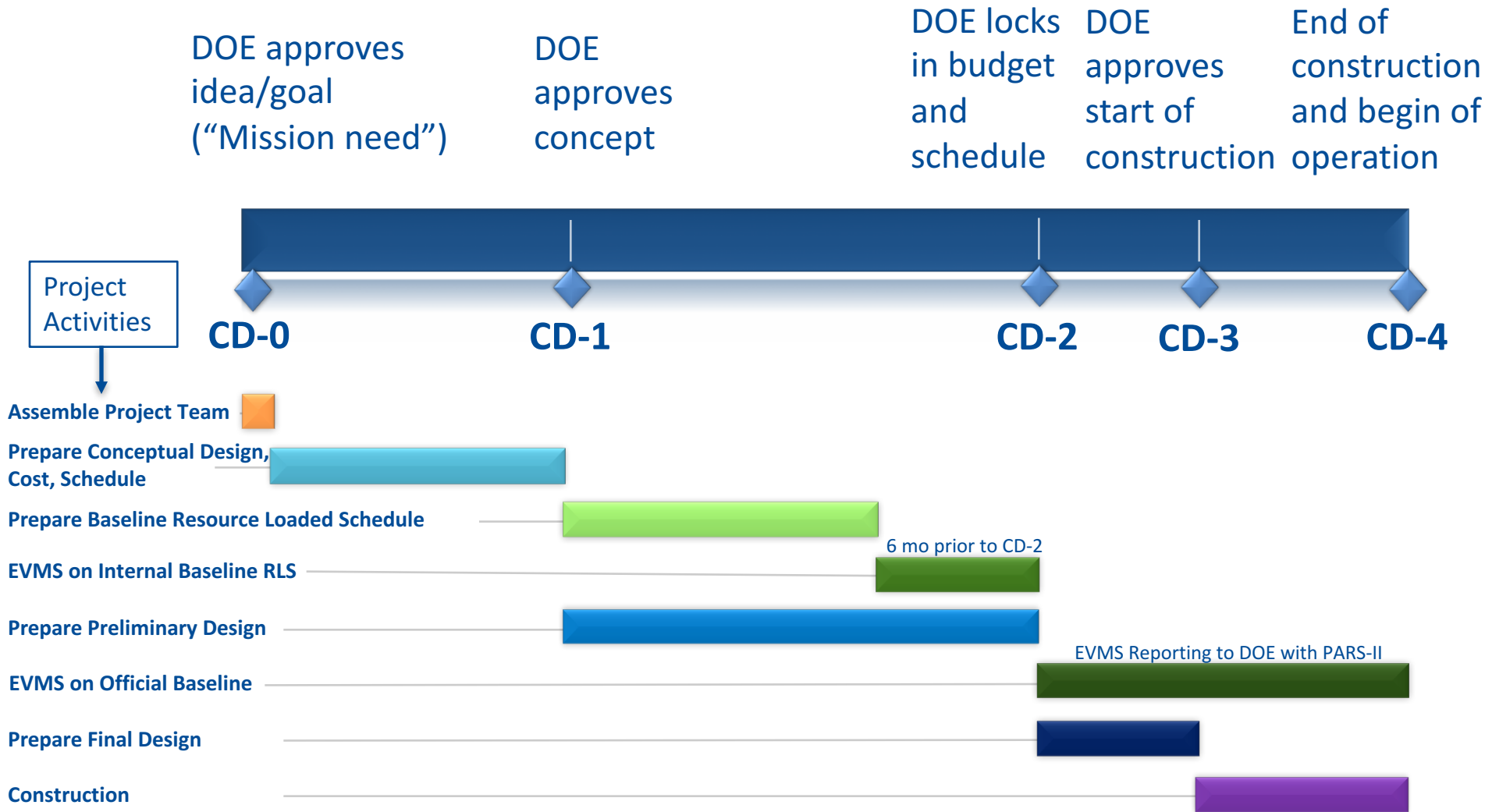
Projects at Fermilab: an update

Kurt Riesselmann

Community Advisory Board

March 22, 2018

Projects and their DOE Critical Decision (CD) milestones



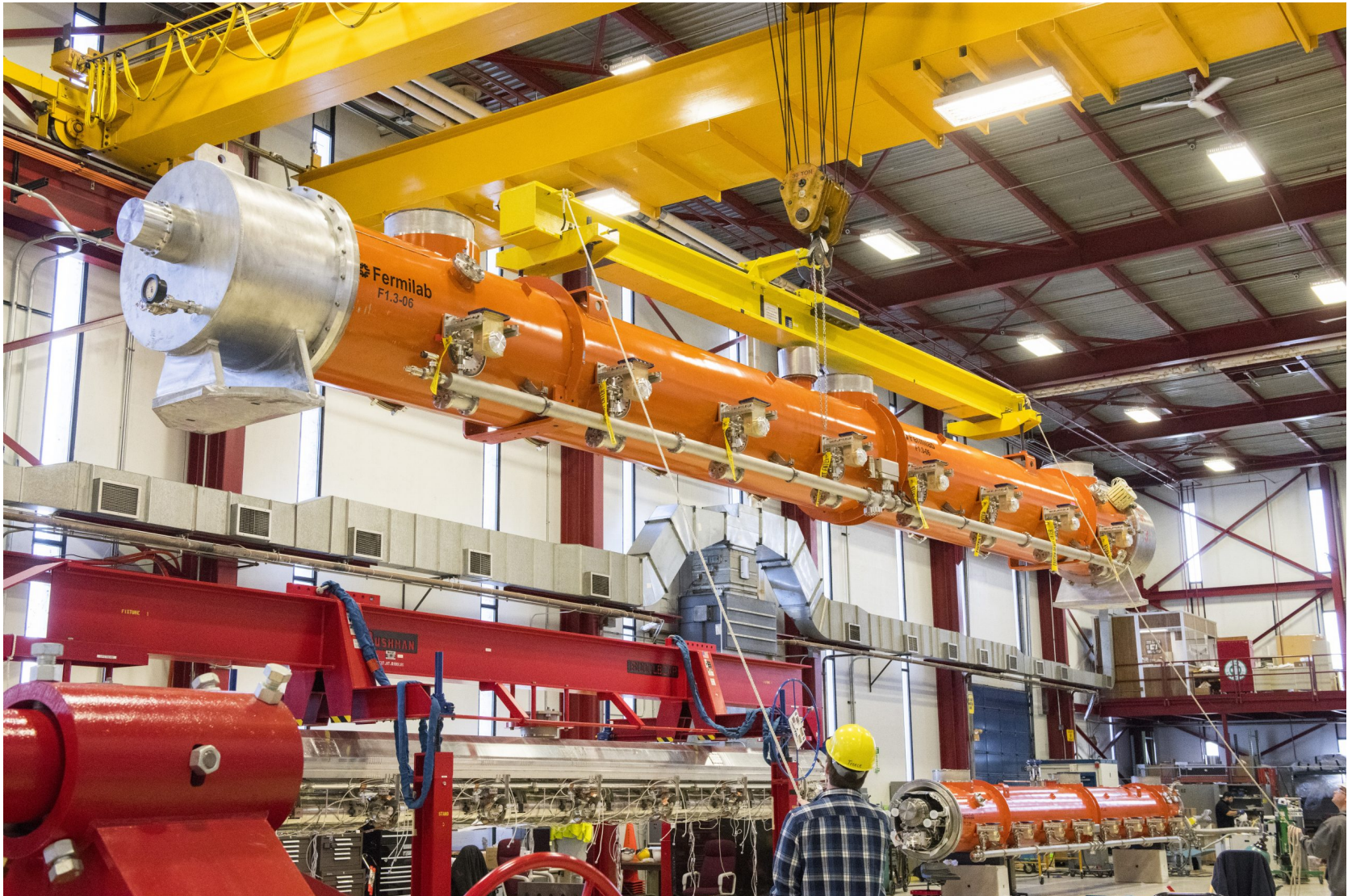
Status of Fermilab Projects

- **Projects completed in 2014-2018:**
 - NOvA expt. – CD-4 in Oct. 2014: completed on budget & on schedule
 - MicroBooNE expt. – CD-4 in 2015: completed on budget & on schedule
 - Muon g-2 expt.– CD-4 in Jan. 2018: completed on budget & on schedule
 - Utility Upgrade Project – scope completed on budget and schedule, CD-4 later this year;
- **Current projects (2018-2030):**
 - CMS expt. Phase I Upgrade at CERN - has CD-3, under construction
 - CMS expt. High-Lumi Upgrade at CERN – expects CD-1 later this year
 - LHC High-Lumi Accelerator Upgrade at CERN – has CD-3a, awaits CD-2
 - **LCLS-II X-ray Laser project at SLAC** – has CD-3 approval, 22 accelerator cryomodules under construction and testing at Fermilab
 - **Mu2e muon expt. at Fermilab** – has CD-3 approval, under construction
 - **LBNF/DUNE neutrino project** at Fermilab/Sanford Lab – has CD-3a approval for excavation in South Dakota, aims to get CD-2 in 2019
 - **PIP-II accelerator project** at Fermilab– has CD-0, awaiting CD-1
 - **Integrated Engineering Research Center (IERC)** – has CD-1 approval
 - More information on these projects on the next slides

LHC magnets and CMS detectors for CERN in Europe



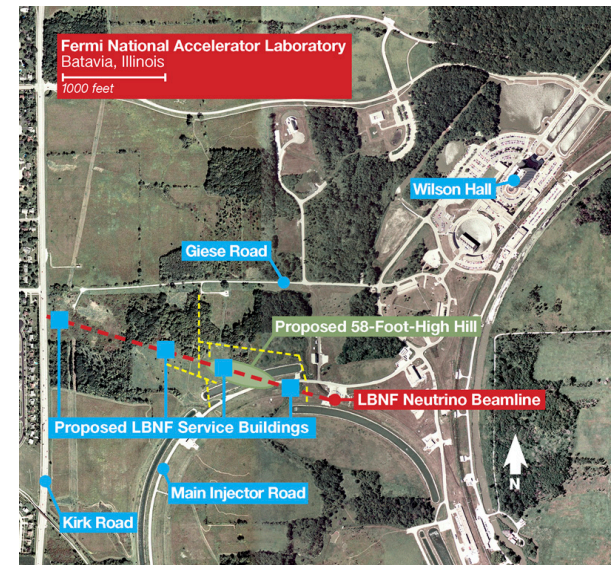
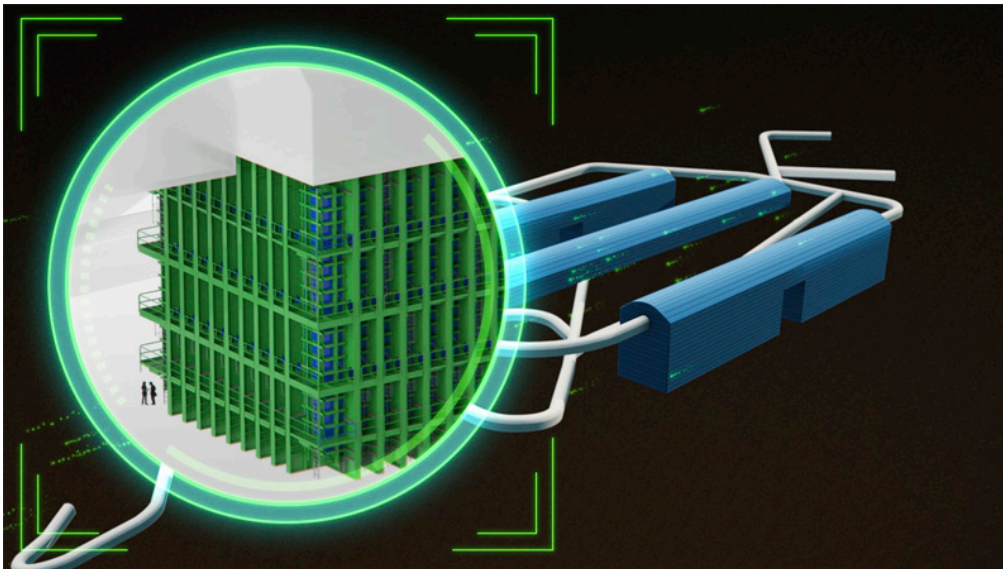
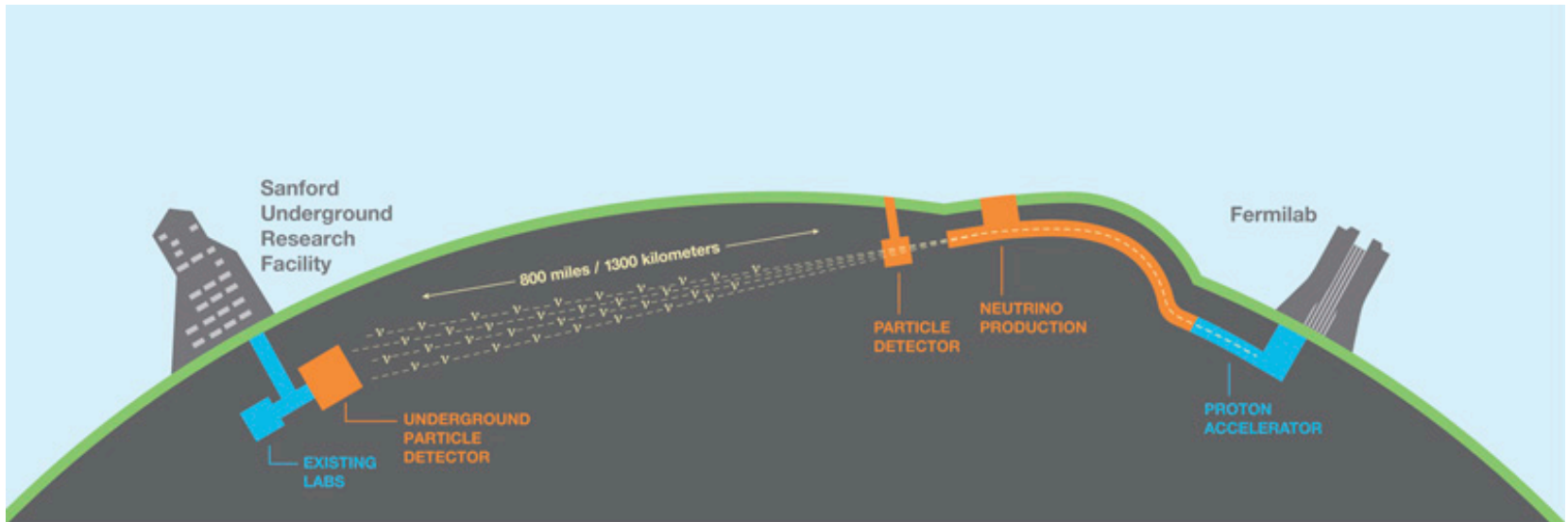
Cryomodules for LCLS-II X-ray laser at SLAC in California



Construction of Muon Campus and Mu2e and Muon g-2 experiments



Long-Baseline Neutrino Facility and Deep Underground Neutrino Experiment



PIP-II accelerator construction close to Wilson Hall



Integrated Engineering Research Center (IERC)



Outlook for future CAB meetings

- Planned talks and tours at upcoming CAB meetings in 2018
 - Frequent updates on LBNF/DUNE
 - Presentation on PIP-II accelerator project and its environmental assessment
 - Progress on Integrated Engineering Research Center
 - Tour of ICARUS neutrino experiment
 - Presentation on education programs at Fermilab
 - Presentation on recruitment and diversity