Fermilab Agenda FY 2014– FY 2019 - DRAFT

Mission	As America's particle physics and accelerator laboratory our mission is to drive discovery in particle physics by building and operating world-leading accelerator and detector facilities; performing pioneering research with global partners; and developing new technologies and applications in support of science and U.S. industrial competiveness				
Goals	**A world-leading neutrino program.**	**A vital science program, with projects that provide a continuous stream of physics results.**	**Broad partnerships across science, accelerators, technology and applications.**	**Enhanced core competencies, expertise and enabling capabilities in key technologies.**	**Excellence in Operations including modernized, consolidated, and centralized infrastructure**
Key Objectives	Align priorities with Particle Physics Community NOVA runs well starting 2014 and reaches 700kW power on target on schedule MINOS+, MINERvA run for 2-3 more years publishing science MicroBooNE produces rich data and results A Short Baseline Neutrino experiments (SBNE) program is formed that includes new detectors all well integrated into the Long Baseline Neutrino Experiment (LBNE) A plan for a new intense proton source (PIP-II) is created with CD-0 approval in spring of 2015 ready for construction starting 2018 LBNE national program aims for 10kT underground by 2023 with 1.2MW, with 35kT as soon as possible with international partnerships	Align with Particle Physics Community with the following priorities: The full potential of running neutrino experiments, and CMS, DES and current Dark Energy experiments is exploited. LHC Phase-I upgrades are on schedule and LHC and detectors are ready for on-time startup LHC Phase–II upgrades, magnets and detector, on schedule g-2 is base-lined and on schedule for 2016 data taking Mu2e is base-lined in 2014 and is commissioning in 2019 with a strong collaboration. Build and operate second-generation dark matter searches Develop gen4 cosmic microwave background (CMB) experiment to measure B-mode polarization CDF and D0 complete by end of FY2015 and some other experiments terminate.	Make strong connections with other Office of Science labs. The LCLS-II project SRF work is executed on schedule/budget PIP-II investment agreements from CERN, Italy, India and others are formalized and signed. Develop international cooperation to help us reach goal of LBNE of 35kT underground ASAP. Develop a near detector for LBNE with international colleagues. Accelerator research collaboration using ASTA/IOTA is established and program launched 2016 Illinois Accelerator Research (IARC) business model is approved; seed funding obtained and 3 projects launched by 2016. Major Big data collaboration outside particle physics established by 2016 Develop and launch stakeholder portfolio	Identify and strengthen Fermilab's unique capabilities. Be at the forefront in key accelerator technologies of SRF and high field superconducting magnets Support advanced detector R&D critical to future HEP needs Modernize IT framework & computing facilities Excellence in project management Recruit scientific and technical staff with exceptional targeted skills. Develop a five year plan to perform world-leading theoretical research and strengthen the role of theory in promoting a vital HEP program Sustain excellence in Environment, Safety, Health, Quality and Security	Align resources to emphasize & develop strategic planning, project performance, and critical project technical capabilities Achieve excellence in communications Establish an effective framework for scientific and industrial partnerships Modernize, consolidate and centralize facility infrastructure in accordance with the Fermilab Campus Master Plan. Fully implement an effective Contractor Assurance System(CAS) One Lab: demonstrate an enterprise-wide success oriented culture. Excellence in accelerator, detector, and computing operations in support of the mission Provide a project management system that ensures successful projects. Strengthen the engineering process using the Engineering Manual as a platform Protect IP for the future commercialization of new technologies.
Outcomes	*The Fermilab name becomes synonymous with neutrino physics and leading expertise in advanced accelerator-related technologies for applications in particle physics, other sciences and industry.* *A vibrant Fermilab attracts the best scientists and students from around the world to create global scientific, technological and economic impacts.*		*Strong partnerships, national and international, laboratories and universities in science and accelerator technology position Fermilab to develop and construct modern accelerators to meet the needs of the nation.*		*Employees and Users of the Fermilab Facility benefit from a modern and efficient user facility.* *Fermilab is recognized as a "gold standard" model of an efficient and well run laboratory*
Impacts	International scientists, students, researchers at Particle Physics labs and research institutions across the world receive awards and continued financial support recognizing their excellence and recognizing the important contributions of Particle Physics.		Recognized by the government and world public as a leader in particle physics and accelerator related technologies and for creating significant economic growth from accelerator technologies	Industry partnerships and innovation serve society and provide payback for science programs.	Fermilab is a top training ground for some of the world's leading scientists.