



Summary

NFMCC Collaboration Meeting

Fermi National Accelerator Laboratory

March 20, 2008



MUTAC07 Recommendations

- 1. Give highest priority to acquisition of a coupling coil for MUCOOL.**
- 2. Continue participation in MICE and MERIT as much as possible.**
- 3. Continue to grow ties with IDS for a neutrino factory.**
- 4. Take advantage of newly established efforts on a design of a Muon Collider (MCTF).**
- 5. Leverage resources within the MCTF and UKNF collaborations, and Muons, Inc. to increase the manpower directed towards simulations of the acceleration system and storage ring.**

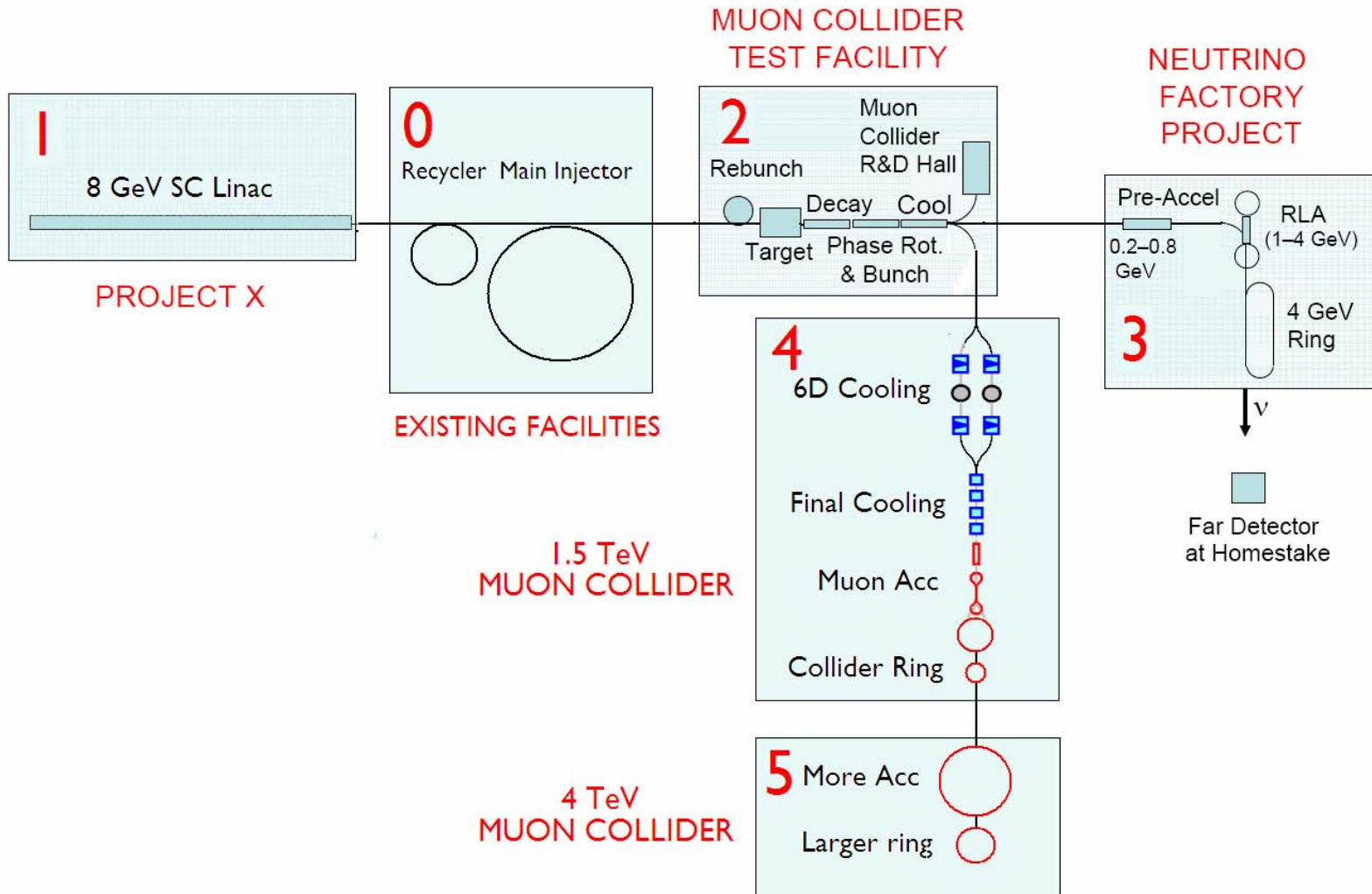


MUTAC07 NFMCC/MCTF

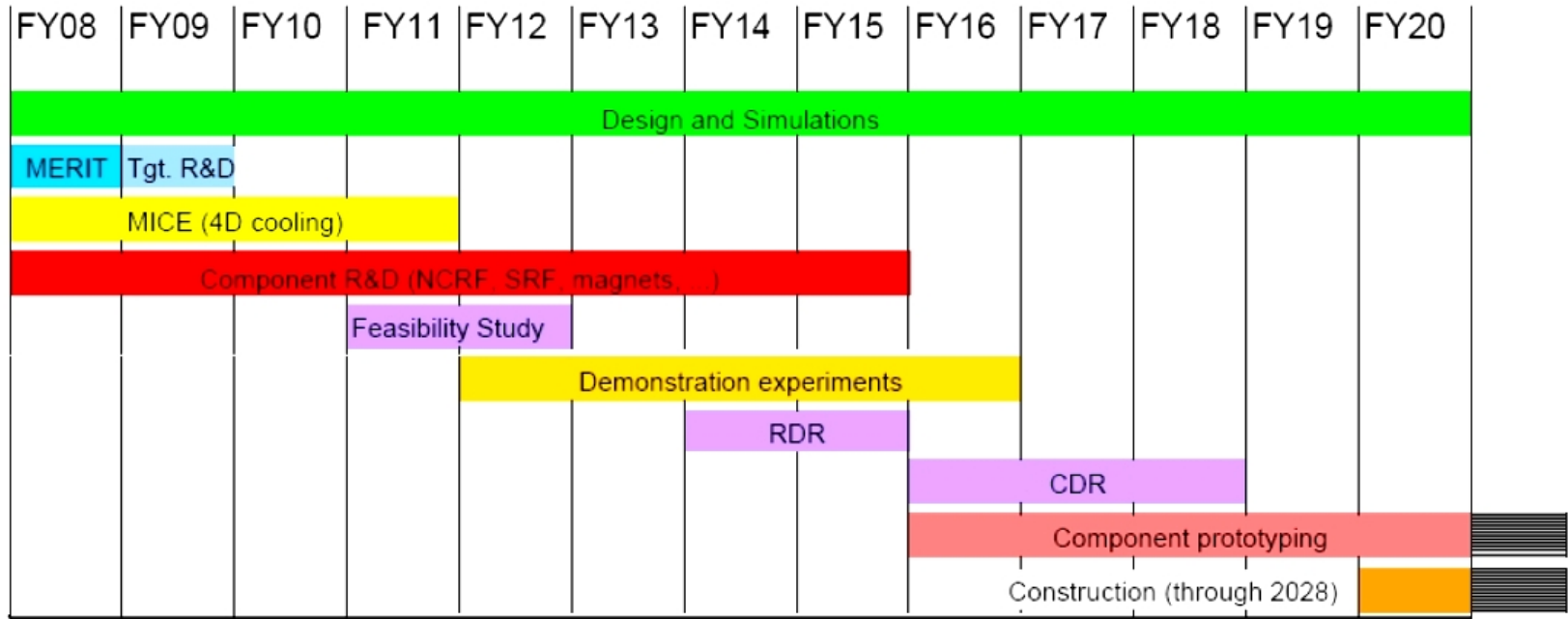
Recommendation

Coordination of MCTF with NFMCC is essential to ensure that the muon collider effort makes best use of limited resources, avoids duplication, and shares infrastructure, codes, and results. Although coordination is important, we recommend that the NFMCC remain independent, so that initiatives are not restricted by local (FNAL) preferences and constraints.

The Long-Term Vision



Palmer's P5 Presentation



▲ CD-0

▲ Choice of staged or direct path

8	11	13	20	25	25	25	35	40	40	R&D Funds M\$/year
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- Funding request includes that for Neutrino Factory R&D
- Funding increase ($\approx 3\times$) needed if Muon Collider is to be credible option by 2012



Collaboration Priorities

Successfully conclude:

MERIT

MICE

Prepare for a Muon Collider Feasibility Study

Post-MICE priorities

Design and Simulations

Component Development

Long-term goal (Post MC Feasibility Study)

6D Systems test



Collaboration Near-Term Priorities

Design and Simulations

Targetry (address MERIT results)

Develop and advance 6D cooling schemes

Develop robust Collider ring solution

Consistent acceleration scenario from 250MeV to
750GeV and then to 2TeV

NF and MC Detectors

Component Development

NCRF

SCRF

HTS



Homework Assignments

Design and Simulations:

Simulations committee should submit a plan detailing the level of effort required to allow a successful start-up of a 2011 MC Feasibility Study

Technical Board August 15

Component Development:

Proposals for component R&D should be submitted detailing level of effort and associated costs.



Backup Slides

Geer's P5 Presentation

2012

2017

2022

2027

