Community DUSEL Activities

- November 07 Town Meetings
  - 220 participants
  - White Papers and Roadmaps
  - [Link](http://cosmology.berkeley.edu/DUSEL/Town_meeting_DC07/working_groups.html)
  - Working Groups

- Geo/Solar Neutrinos - Vogelaar & Tolich
- Neutrino Double Beta Decay - Elliott & Gratta
- Long Baseline Neutrinos & PDK - Sobel, Diwan, & Rameika
- Dark Matter - Akerib & Gaitskell
- Nuclear Astrophysics - Leitner
DUSEL Experiment Development Committee

• Follows on from S-1
  – Hank Sobel (UCI) Phy
  – Steve Elliott (LANL) Nuclear Physics
  – T.C. Onstott (Princeton) Geo/Bio
  – Derek Elsworth (Penn State) Geo/Eng
  – Larry Murdoch (Clemson) Geo/Eng

• To help underground community develop the Initial Suite of Experiments (S-4)
Significant Milestone for Initial Suite of Experiments

• November 2007 Town Meeting
• April 2008 Lead Workshops
• May 2008 Interagency Discussions – DOE and NSF
• Late Spring S-4 Solicitation Announcement
• July 2008 Internal Review of DUSEL
• Fall 2008 S-4 Funds for Experiment PDRs
• December 2008 NSF Review of DUSEL
• Summer 2009 Review of ISE by NSF Panel
• Summer/Fall 2009 Integration ISE and Facility
• Fall 2009 Completion of DUSEL PDR & Review
• Winter 2009-10 Presentation to and Review by NSF
• March 2010 Presentation to NSB
• FY2012 MREFC Start, if Approved and Appropriated
Solicitation 4

• Solicitation 4 (S4, in clearance): call for proposals to develop project plans for potential candidates for the ISE
• Design funds to address: what do you need to execute the experiment you propose?
  – Will include opportunity for limited, targeted R&D
• Open to all disciplines
• Up to $15M total from Physics/MPS, over 3 years
  – Primarily for physics experiments
  – Additional $0.5-1.0M from engineering
  – Approach to BIO, GEO being determined; will depend on proposals received
  – Independent of ’08 DUSEL R&D
  – Expect publication in spring ’08.
Solicitation 5

- S4 provides design & development funds for experiments that might be included in ISE
- Solicitation 5 (S5): will call for proposals from which final selection of ISE will be made
- Must allow sufficient time to review, develop final MREFC package
  - Facility + experiments, interfaces
- Current plan has publication in winter ’09
- Funding recommendations for both S4 & S5 will be obtained via peer review through NSF panels
Budget sectors over time

Core vs Centers vs Facilities

% PHY Budget

Fiscal Year

NSF Approach to Facilities

- NSF is reactive to the research communities; is not mission oriented
- Initiative for new projects originate within the community
- Community also drives and shapes project’s development
- Facility priorities established annually by NSF and National Science Board (NSB)
- NSB provides direction on the fraction of annual NSF budget that will go toward facility support