

# Biggest Picture

- Outstanding science opportunity
  - Survey
  - Post-survey capability
- Opportunity to build high-profile, scientific, educational, technological collaborations between UC/State of California and Mexico

# SASIR Management

- Four phases of the project
  - Proposal
    - Science requirements
    - Technical feasibility
    - Conceptual design
    - Rough cost (for fund raising)
    - Project design
    - Partnership agreements
  - Design development
  - Construction
  - Operations

# Science-business considerations

- During survey phase, what are data access policies?
  - Immediate post-pipeline access for UNAM and UC astronomers
  - Pre-defined science areas with teams and early access for team members (SDSS-II/III model)
    - Access to followup facilities for team members
  - Public data releases after proprietary period to maximize science and possibly to generate public funding

# Business Considerations cont.

- **Post-survey phase** or for the case where the survey phase has component of open time: how are telescope shares determined, how is time allocated?
- Shares: partner contributions
  - Cash+in-kind:
    - separately search for donors or jointly fund raise and split the credit?
    - How to calculate value of contributions with time?
    - Upfront share calculation with fixed lifetime or evolving shares with investment?
    - In-kind full value? Site value? Followup facility value?



# Funding

- At UC, this competes with Keck new instrumentation and TMT for capital private fund raising
  - access a new group of potential donors with an interest in Mexico, US-Mexico relations
- At UC, operations funding competes with Lick, Keck and TMT operations
  - access different state funding pots geared to California-Mexico programs/relations
  - NSF
  - Build in operations model/technology to achieve operations\$<3% capital

# Timelines

- Big project: realistic timescale is long
  - First round of studies: 18 months after funding starts (24 months total)
  - DDP (assumes private fund-raising is successful): duration 36 months
  - Construction: duration 36 months
- 8 years from now with no delays for funding

# Why UC-Mexico?

- Existing scientific/personal connections
- Mexico strong/credible partner scientifically and in astronomical instrumentation
- Strong interest in the social side of collaboration at the California State level and US federal level (access to new pots of funding)
- Site at SPM is one of two best in North America