



DARK ENERGY  
SURVEY

# DECam Funding Need Profile (Dec 06)

(then yr \$, Overhead included)

	FY2007	FY2008	FY2009	FY2010	FY2011	Total	
<b>DOE MIE</b>	<b>0</b>	<b>6.42</b>	<b>7.11</b>	<b>4.98</b>	<b>0.54</b>	<b>19.05</b>	
DOE R&D	4.03	1.49	0	0	0	5.52	
<b>DOE TPC</b>	<b>4.03</b>	<b>7.91</b>	<b>7.11</b>	<b>4.98</b>	<b>0.54</b>	<b>24.57</b>	*

**\*Additional \$7.7M in External funds from Non-DOE sources**

- DECam is applying for R&D funds in FY07-FY08.
- The Program announcement is for one year starting in June (doesn't match fiscal year boundaries)
- DECam R&D obligations finish in early 08 (~March)
- R&D tasks finish by Sept. 08.



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# Draft Costs in R&D Proposal: M&S

	Cost (\$k) inc 16% OH
Travel	87.0
CCD Wafers	493.0
CCD Packaging	146.2
CCD testing	377.0
Readout Electronics	219.7
Camera and Cooling	233.2
Readout Crates	176.3
Barrel and Hexapod	191.4
Filters	193.7
SISPI	69.6
WL-align	139.2
Total	2326

- Overhead rate?
- Out of the \$2.3M total:
  - \$800 k to DES collaborators
  - \$638k Generic R&D
  - \$890k DECam R&D



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# Sub awards or sub contracts?

- LBNL
  - Wafer processing at Dalsa
  - Wafer processing at LBNL
- Chicago: ME
- UIUC: EE
- Michigan: ME
  - Break on OH rate if goes to their grant
- OSU: CP
  - No break on OH
- Penn: Postdoc

subcontracts and subawards	(k\$) Inc. 16% OH
LBNL	493.0
Univ. of Chicago	17.4
Univ. of Illinois at Urbana-Champaign	42.9
Univ. of Michigan	48.7
Univ. of Pennsylvania	139.2
The Ohio State University	58.0
Total	799.2