

D.M. Risk Management

TIM JENNESS









The logo for the Large Synoptic Survey Telescope (LSST). The letters 'LSST' are rendered in a bold, black, sans-serif font. The letter 'S' is filled with a blue-to-white gradient, giving it a three-dimensional appearance. The letters are outlined in white.

Large Synoptic Survey Telescope

How Do We Manage Risks?



- LSST has a risks meeting every month.
- DM is the focus every 3 to 4 months.
- Expectation that all DM risks are analyzed on that timescale.
- Reality is that only a couple of people handle the risks and most of DM either does not know they exist or think that most of them are irrelevant or wrong.
- Many risks are associated with specific WBS but relevant T/CAM not generally aware of them.

Risk ID# (Hover)	Edit Risk (Click)	Title	WBS	Review Status (days)	Trigger Date	Probability	Possible Tech Margin Remedy	Non-labor Cost (2013USD)	Schedule Cost (2013USD)	Exposure Cost (2013 K-USD)
DM-062	Detail & Edit	Programming team productivity below estimate due to geographical distribution/competing priorities	02C	 51	Distributed (2014-2017)	50 - 75%	Yes	\$1,030 K	\$9,600 K	\$6,697 K
DM-085	Detail & Edit	SUI workload underestimated	02C.05	 51	Distributed (2014-2017)	50 - 75%	No	\$0 K	\$2,400 K	\$1,512 K
DM-018	Detail & Edit	Computing power required for Data Release Production exceeds estimates by large factor	02C.04	 51	Distributed (2014-2019)	10 - 25%	Yes	\$7,210 K	\$720 K	\$1,348 K
DM-043	Detail & Edit	DM organization is understaffed compared to plan	02C.01	 51	Distributed (2014-2017)	50 - 75%	No	\$0 K	\$1,800 K	\$1,134 K
DM-022	Detail & Edit	Unanticipated characteristics of real data result in poor MultiFit performance (computational)	02C.04.06	 43	2020-06-01	25 - 50%	Yes	\$2,060 K	\$540 K	\$962 K
DM-075	Detail & Edit	New SRD requirements require new DM functionality	02C.03, 02C.04	 51	2019-03-01	50 - 75%	No	\$721 K	\$720 K	\$908 K
DM-042	Detail & Edit	Loss of key personnel	02C.01	 51	Random	25 - 50%	No	\$0 K	\$2,400 K	\$888 K
DM-021	Detail & Edit	Object counts exceed expectations, leading to insufficient compute	02C.04	 43	2021-03-01	10 - 25%	Yes	\$4,120 K	\$720 K	\$823 K

But...



- Disconnect between Architecture team and rest of DM for risk management.
- Needs to be fixed.
- I would like WBS-specific risks to be “owned” by T/CAMs, consulting with me.
- I would like T/CAMs to consider whether we are missing risks.
- This may well lead to some risks being deleted and entirely new risks being written.
- That is a good thing.

