

## Scheduler/SOCS dev.

## Cadence Optimization

## Calls to Community

2017

**v1.0** Repeatability, New sky brightness model, Time uniformity, Rolling cadence capability

Start work on tools to run MAF & Opsim at scale

**v1.1** Nondeterministic weather & downtime, Deterministic lookahead for Area Distribution proposals

Rolling cadence experiments; DDF experiments/examples

Publish Observing Strategy white paper (OSWP)  
Call for DDF white papers (Dec)

2018

**v1.2** Deterministic lookahead for Time Distribution proposals

Rolling cadence experiments evaluated with OSWP metrics; Mini-survey experiments/examples

DDF white papers due (Apr)

**v1.3** Performance improvements

DDF WP -> simulated surveys; mini-survey experiments

Call for mini-survey (special programs) white papers (Oct)

2019

**v1.4** Warm start, IQ feedback, degraded operational modes

Updated baseline with DDF + rolling cadence (June)

Mini-survey white papers due (Feb)  
Request for white paper and metrics update (Mar)

**v1.5** Spatial distribution for weather, Dithering support in scheduler

Mini-survey WP -> simulated surveys;

White paper with metrics due (Aug)

2020

**v2.0** Publication of future targets within ~2hr window

Finalize MAF and Opsim tools; deliver documentation and a series of simulated surveys to SAC; form SSC

**v2.1** Weather forecast in lookahead

Ask SAC and Survey Strategy Committee to recommend the initial observing strategy

2021

**v2.2** Generic interface for optimization algorithms, incorporate community provided optimizations

Announce initial survey strategy and publish a baseline simulation that reproduces that strategy