

# Early Definition Request for Information

November 2021



## Take away from RSIG discussions

- Avoid tying up significant time in the early mission
- Open to science topic
- Should benefit from being defined early/soon, this does not mean that the observations need to happen early in the mission
- Should be defined via open community process (i.e. white papers/workshops rather than competitive proposals)
  - Resulting survey is community owned (i.e. no PI)
  - Desirable to have broad science reach

#### Note:

 This is not the only thing we will do, also space for other general astrophysics surveys defined closer to launch, core community surveys will be ongoing



## Early Survey Definition Option

- Assign up to one month of observations to one survey to be executed within the first two years of the mission
  - Allows for a substantive survey, but does not commit to a large amount of early observation time
  - Leaves most of the general astrophysics survey time to be assigned closer to launch (and after the core community surveys are defined)
  - Science topic/justification is open (i.e. this does not have to be a deep field)



### Community input on pre-selection of an Astrophysics Survey

#### Two Step Process

- 1) Light weight white paper request for information
  - Short (~2 pages) focusing on science case, science benefit from pre-definition and brief outline of strawman concept / or describe why we should NOT proceed
    - Determine whether to proceed with pre-selection of a survey
    - Which scientific area(s)/survey concept(s) to focus on

#### 2) Community process to define/optimize the survey

- Opportunity for additional people/groups to provide input on implementation of the survey concept
- Community owned no PI
- Support for preparatory activities available via multiple ROSES calls between now and launch



- Sent out announcement on August 27, deadline on Oct 22
- Webpage with technical information to help people evaluate candidate survey performance
- White papers include:
  - Do you support early definition of a survey,
  - Science investigations enabled by the candidate survey,
  - observational outline of the survey,
  - preparatory activities enabled by the survey



### **RFI for Early-Definition Survey**

- Community input on the option to pre-select one Astrophysics Survey nominally to be executed within the first two years using up to 1 month of observations
  - In addition to Core Community Surveys
  - Part of General Astrophysics Surveys

#### 20 white papers received

 Solar system, exoplanets, Milkyway, nearby galaxies, extragalactic (deep field, time domain studies, synergy with Euclid, obscured AGN, cosmic dawn)