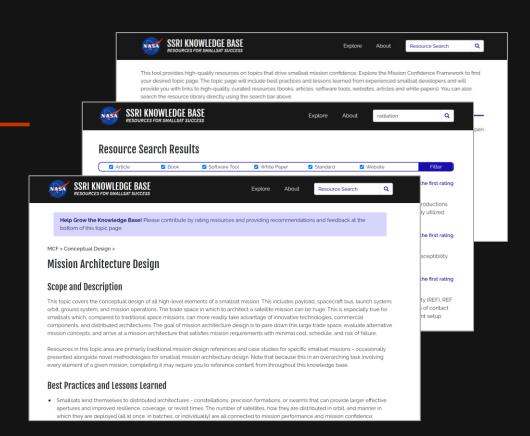


### The SSRI Knowledge Base: Updates and Demonstration

NEPP Electronics Technology Workshop June 17, 2021

Robbie Robertson Sedaro Technologies



# Small Satellite Reliability Initiative (SSRI)



### Small Spacecraft Systems Virtual Institute (S3VI)



### Wikipedia for SmallSats

#### Strengths of Wikipedia



- Free, publicly available tool
- Go-to starting place for information on a broad range of topics
- Open, collaborative development (crowdsourcing) for continuous growth and improvement

### Wikipedia for SmallSats

#### Strengths of Wikipedia



- Free, publicly available tool
- Go-to starting place for information on a broad range of topics
- Open, collaborative development (crowdsourcing) for continuous growth and improvement

#### How is the SSRI Knowledge Base Different?

- Primarily providing users with existing, third-party content
- Final moderation by the SSRI, not the user community

#### Structure

#### Resource Library

- Third-party content
  - Articles, books, software tools, white papers, standards, and websites
- Access to resource
- SmallSat context
- Ratings

Resource

#### Structure

#### Resource Library -

- Third-party content
  - Articles, books, software tools, white papers, standards, and websites
- Access to resource
- SmallSat context
- Ratings

Resource

#### Mission Confidence Framework —

Section

Topic

Topic

Topic

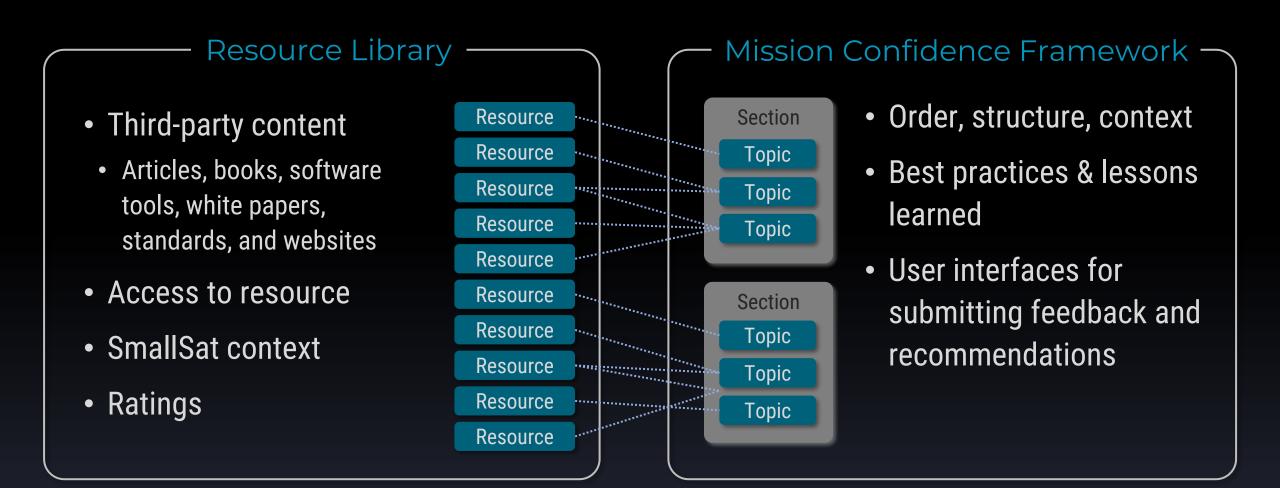
Section

Topic Topic

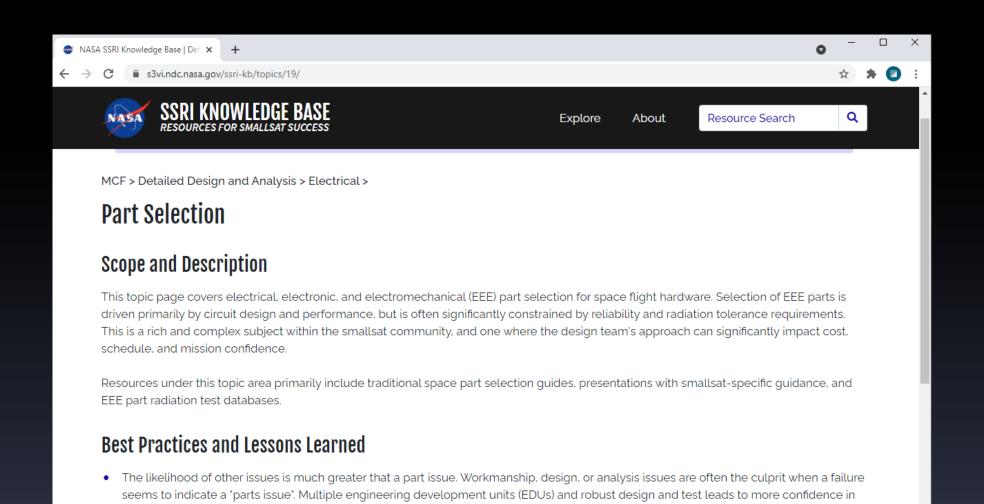
Topic

- Order, structure, context
- Best practices & lessons learned
- User interfaces for submitting feedback and recommendations

#### Structure



(https://s3vi.ndc.nasa.gov/ssri-kb/)



(https://s3vi.ndc.nasa.gov/ssri-kb/)

• 16 topics completed

(https://s3vi.ndc.nasa.gov/ssri-kb/)

- 16 topics completed
- 24 topics in expert review

(https://s3vi.ndc.nasa.gov/ssri-kb/)

- 16 topics completed
- 24 topics in expert review
- New development effort in Q3 2021
  - 18 more topics
  - API
  - Improved crowdsourcing interfaces
  - Searchable, sortable best practices with ratings



## Demonstration



Try out the SSRI Knowledge Base at: https://s3vi.ndc.nasa.gov/ssri-kb/

Please review and contribute content!

Have questions? Want to get involved?

Robbie Robertson robbie.robertson@sedarotech.com (781) 573-3276