



# discover™

## EXOPLANETS



**Thank you for joining us for the *Discover Exoplanets* pre-application webinar!**

If your audio isn't working, use the audio wizard button that can be accessed from your top screen menu. You will be muted. If you'd like to ask a question, type it in the chat box.

I will unmute people at the end for Q&A if desired.

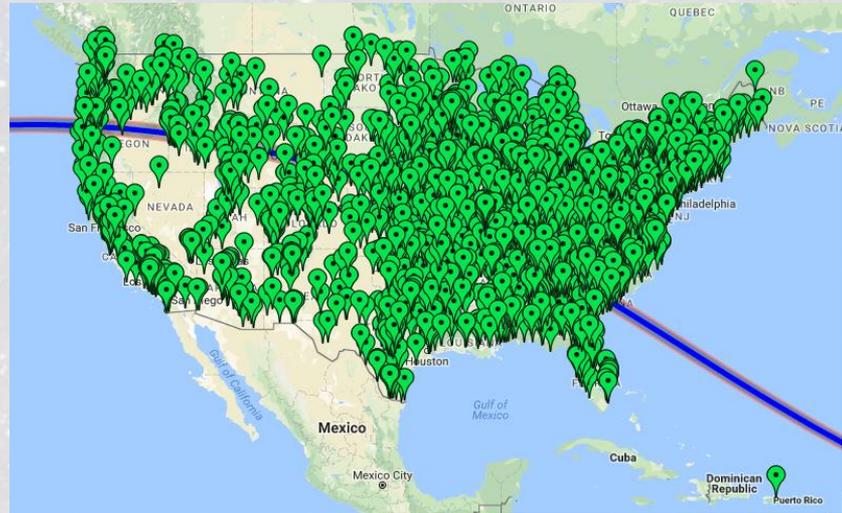
# Agenda

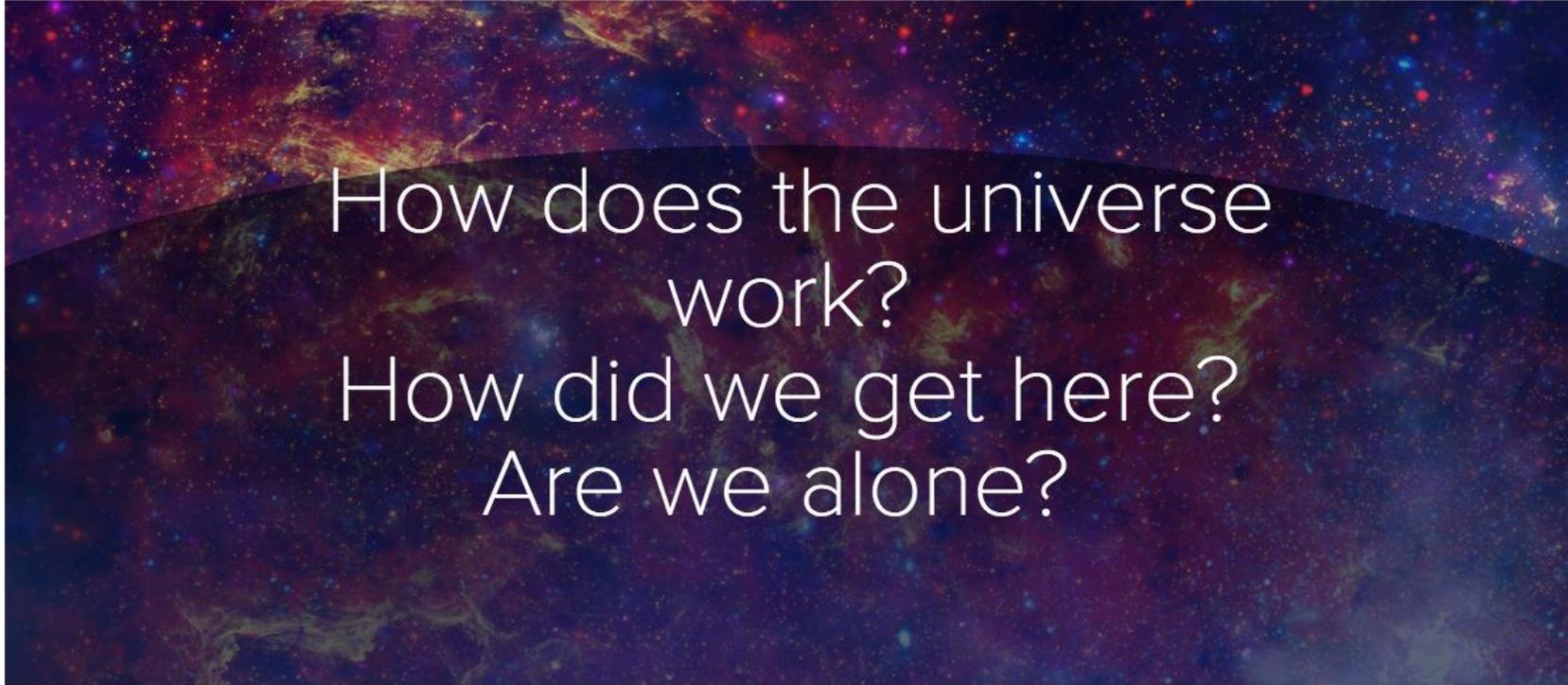
- Webinar structure
- Describe Discover Exoplanets project and relation to STAR Net and NASA's Universe of Learning
- Describe Discover Exoplanets Exhibits
- Walkthrough application questions and requirements
- Q&A

*Discover Exoplanets* is made possible through NASA's Universe of Learning. NASA's Universe of Learning materials are based upon work supported by [NASA](#) under award number NNX16AC65A to the Space Telescope Science Institute, working in partnership with [Caltech/IPAC](#), [Jet Propulsion Laboratory](#), [Smithsonian Astrophysical Observatory](#), and [Sonoma State University](#).

The exhibition and its educational support materials and outreach opportunities are part of the STAR (Science-Technology Activities and Resources) Library Education Network (STAR\_Net), a hands-on learning program for libraries and their communities, and NASA's Universe of Learning.

**STAR Net** (the STAR Library Education Network) seeks to engage underserved youth and their families in fostering an appreciation and deeper understanding of science and technology topics through STEM (Science, Technology, Engineering and Math) programs in public libraries, and library collaborations with scientists, engineers, and STEM organizations.



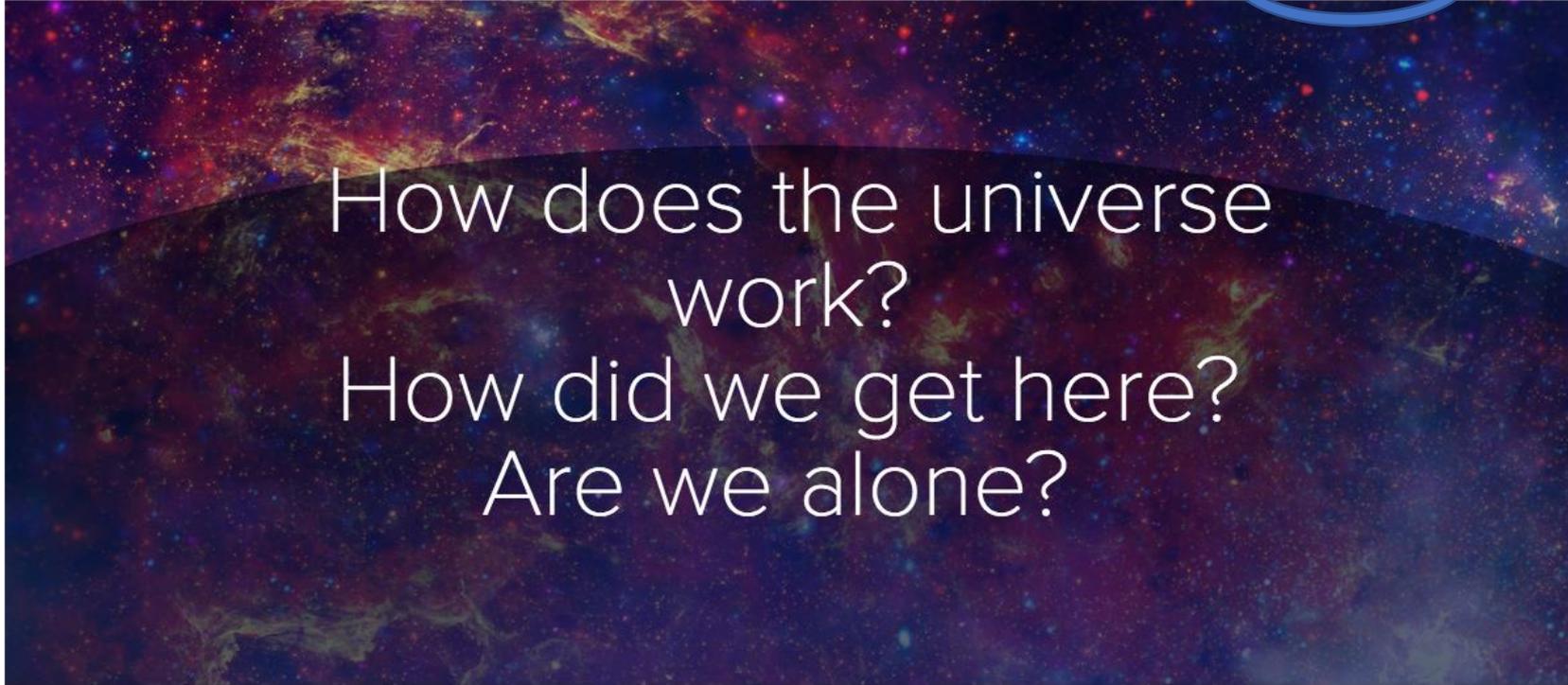


How does the universe  
work?  
How did we get here?  
Are we alone?

Welcome to

NASA's Universe of Learning,

an integrated astrophysics STEM learning and literacy program.



How does the universe  
work?  
How did we get here?  
Are we alone?

Welcome to

NASA's Universe of Learning,

an integrated astrophysics STEM learning and literacy program.



### DATA TOOLS

Experience the process of science through authentic experiences with NASA Astrophysics data.

---



### MULTIMEDIA

Connect with the beauty of our universe through NASA Astrophysics data

---



### COMMUNITY PROGRAMS

Share NASA Astrophysics science and technology with learners of all ages



### PROFESSIONAL DEVELOPMENT

Expand content knowledge with the latest developments and discoveries from NASA Astrophysics and subject matter experts



- Partnership Program (geographically co-located library and museum receive different, complementary exhibits)
- In-person Training (Boulder, CO) for 1 library and 1 museum representative per site pair, paid by grant
- Activities and Resources
- 9 total sites (8 chosen from this application process, plus a shakedown site in CO)
- Access to NASA Museum Alliance activities and webinars
- Technical support from SSI

**Big Idea** The *Discover Exoplanets* exhibition provides an introduction to the search for life on other planets, and the tools NASA scientists use to search for exoplanets.

The “Big Idea” for this exhibition is “NASA is finding habitable worlds in our own stellar neighborhood.”

**Exhibit goals** for visitors are:

- Understanding how our Solar System is alike, and different from, other Solar Systems
- Learning how NASA is searching for habitable worlds, and what tools scientists use to aid in this search
- Gaining a better understanding of “Our Place in Space”, including such concepts as scale, habitability, and point of view
- Understanding that NASA uses different telescopes/tools to observe different types of objects, no one instrument can answer all the questions

# Host Site Requirements

- Application partners must be a public library and museum located in the US (libraries in schools and universities will be considered IF they also serve as a public library, museum is loosely defined to include visitor centers, planetarium and similar venues)
- Host a minimum of 10 public programs across the sites for different age groups
- Participation in project evaluation, including reporting requirements and potential site visits
- Participation in the STAR Net Online Community
- Minimum ceiling height of 8ft (10ft recommended)
- EITHER a loading dock or double front doors for the museum piece. Standard sized doorway required for the library piece.
- Constant internet connection is required for a piece in both exhibits (not a public login wifi, preferably hard wired, other pieces can be connected as necessary)
- Space to display the exhibit (each exhibit is approximately 600 sq ft) and storage
- Insurance
- Rural and underserved areas are strongly encouraged to apply

## Library Exhibit Components (Tentative)



L.1 Introduction Banner (double sided  
with credits)

L.2 Eyes on Exoplanets

L.2.a Eyes on Exoplanets Kiosk

L.2.b Banner

L.3 Planet Families

L.3.a Planet Families Kiosk

L.3.b Planet Families Banner 1

L.3.c Planet Families Banner 2

L.4 Transits

L.4.a Transit Interactive

L.4.b Transit Banner 1

L.4.c Transit Banner 2

L.5 Fact or Fiction

L.5.a Fact or Fiction Kiosk

L.5.b Fact or Fiction Banner

L.6 Seeing the Unseen (Telescopes and  
Wavelengths)

L.6.a Seeing the Unseen Kiosk

L.6.b Seeing the Unseen Banner

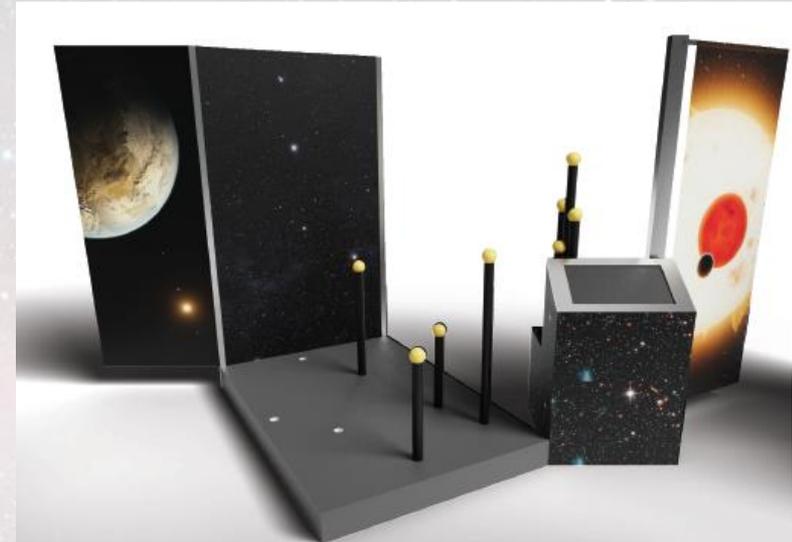
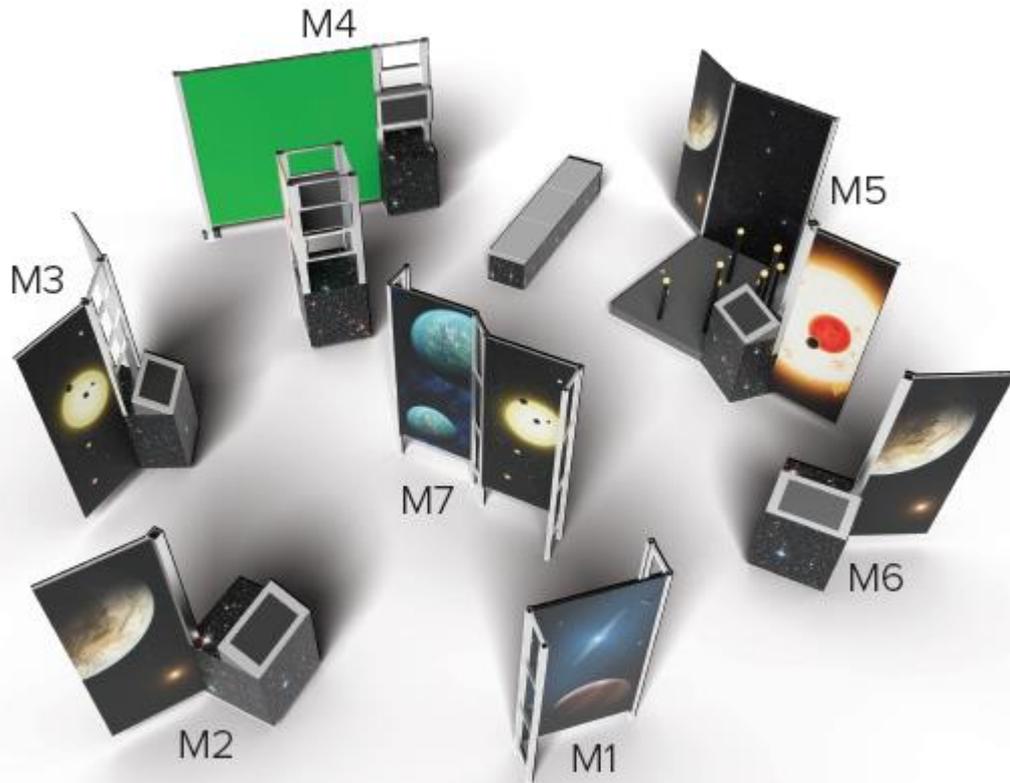
L.6.c Great Observatories Banner

L.7 Facilitation Kit

L.7.a VR goggles

L.7.b Maker Constellations

## Museum Exhibit Components



## M1 Introduction Banner (double sided with Credits)

### M2 Eyes on Exoplanets

- M.2.a Eyes on Exoplanets Kiosk
- M.2.b Banner

### M3 Planet Families

- M.3.a Planet Families Kiosk
- M.3.b Planet Families Banner 1
- M.3.c Planet Families Banner 2

### M4 Green Screen Interactive

- M.4.a Green Screen Interactive Kiosk
- M.4.b Green Screen
- M.4.c Banner 1
- M.4.d Banner 2

### M5 Constellation Interactive

- M.5.a Constellation Interactive
- M.5.b Banner 1
- M.5.c Banner 2

### M6 Micro-observatory

- M.6.a Micro-observatory kiosk
- M.6.b Banner

### M7 Thematic banners (TBD)

- M.7.a Banner 1
- M.7.b Banner 2
- M.7.c Banner 3
- M.7.d Banner 4

## PROPOSAL NARRATIVE

Please describe your plans for presenting Discover Exoplanets. The proposal narrative consists of nine sections (described below). Please note that each section of the narrative may not exceed 400 words.

Be sure to address the following points in your narrative:

1. Describe why your library or museum would like to host this exhibition, including community interests in STEM topics, demographics, collections, or other resources or programming focus areas related to space science and the search for exoplanets. What are your prior experiences with hosting traveling exhibitions and/or offering public programs about STEM topics?

[text area]

2. What do you hope to accomplish by bringing this exhibition to the community?

[text area]

3. A major focus of the Discover Exoplanets project is to reach underserved audiences with STEM programming. Identify at least one principal underserved audience you will reach with programming for this exhibition and make a strong case for why you have chosen this audience and how you will reach them. A generally underserved geographic area can be considered an underserved audience.

4. Describe your general publicity plans for exhibitions.

5. Collaboration with STEM organizations and individuals with STEM expertise is very important to the success of this project. The project will provide access to some potential NASA partners to host sites, but tell us what partnerships with STEM and non-STEM organizations and individuals in your community/region will help you to make the exhibition and your programs a success. Have you worked with these organizations/individuals before?

6. Describe the programs you plan to implement to meet or to exceed the project requirements. Project requirements are: Ten programs (total, across both venues) for different age groups, including one opening event, 3 public programs for adults, three public programs for families, and three programs for out of school K-12 children (any one of these programs may be combined with the opening event.) At least 3 programs must have a strong NASA connection. At least 2 programs must utilize or develop some connection across the venues. Who will present the programs? Include names and qualifications of potential external presenters. You are required to do 10 programs total across the 2 sites, but may list more if desired.

7. Where will the exhibition be displayed in your venue? Please describe the space and its relationship to traffic flow in the venue. Does the area have wireless Internet access and at least six electrical outlets? You can also upload a picture of the space if desired (optional)

(attach jpg here)

8. Describe how you will work with educators and schools in your area and estimate how many school-age children might visit the exhibition. Note any long-term relationships you have with local educators that might prove beneficial in reaching school age children with programming.

9. Please describe your plans to partner with the Secondary Applicant. Will you do shared programs across venues? Share artifacts? Etc. Please also attach here the letter of commitment from the Secondary Applicant.

(attach pdf here)

## Frequently Asked Questions:

Q: You mentioned the piece that requires a continuous internet connection, how important is this to the exhibit?

A: Currently, this piece will only run with a continuous connection. Please indicate in the chat if this is problematic, and we will work with the Eyes on Exoplanets team for a solution

Q: Does my planetarium/visitor center/university museum etc qualify for this project?

A: In almost every case, yes! The most important thing is that you must not charge an additional fee to view this exhibit, and your venue must be open to any individual or group who may wish to visit it (having entry fees is fine)

Q: What if a paid staff member from my institution can't attend the in-person training?

A: The responsible party or a designee from each venue must attend. This can be a volunteer though if they will be in charge of programming/etc at the exhibit

Q: My organization is self-insured. How does the insurance requirement work?

A: In almost every case, you will still be contracted with an underwriter who deals with your paperwork, they can just provide a signed document indicating you are self-insured and could handle the claim. IF you do not have an underwriter, we need a signed/notarized letter from the equivalent of your chief financial officer (or elected public official if you're a government entity) indicating that the organization can assume the risk

Q: I started my proposal, where did it go???

A: We have the Survey Monkey set up to "save" your application if you get pulled away. However, this is a dangerous feature, and sometimes you can't get back to your saved work. We recommend typing out the answers in a separate document, and inputting in one sitting. If you've "lost" your work, I can go in and at least copy/paste the answers you've already provided, but you may need to start over.