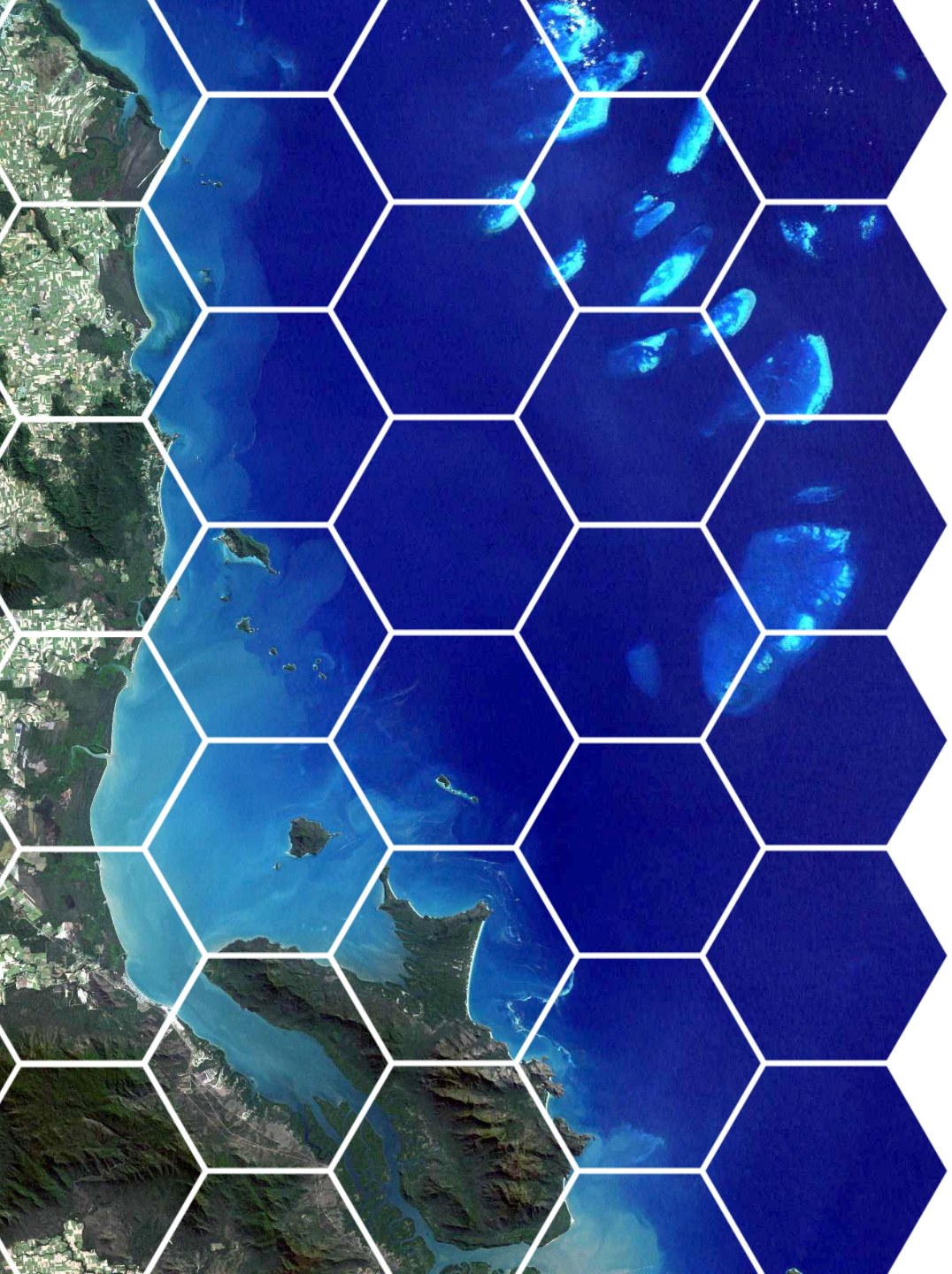


National Aeronautics and
Space Administration

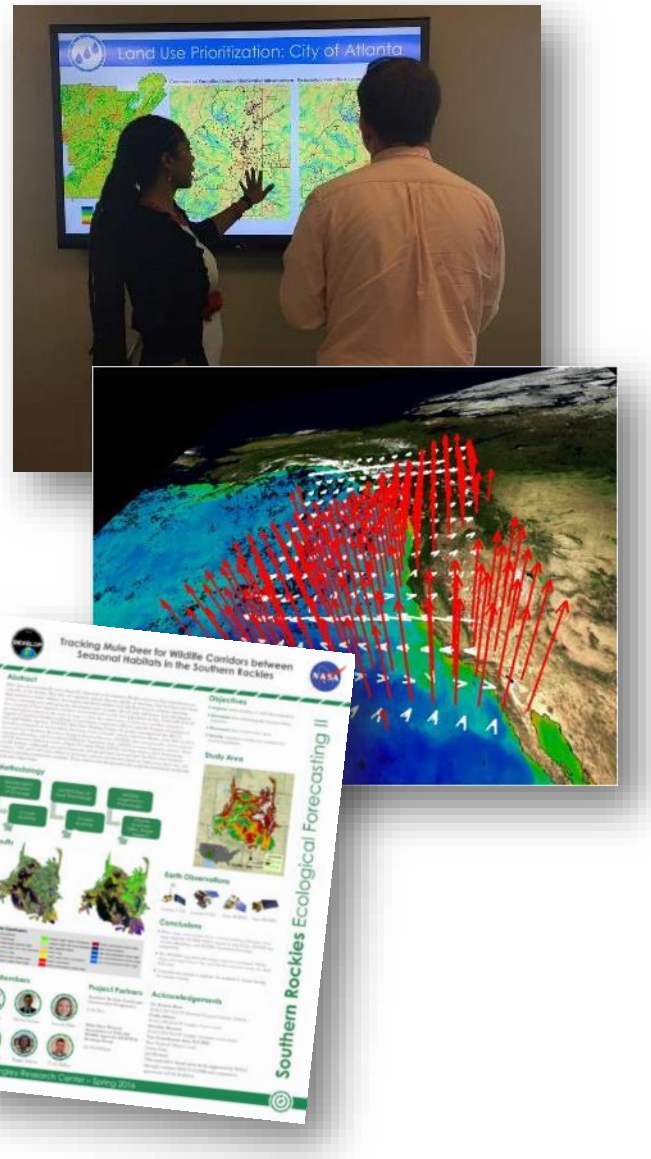
FY2018

Proposal Bootcamp

DEVELOP Project Characteristics

70-80 projects take place each year – at their core they share these characteristics:

- Highlight the applications and capabilities of **NASA Earth observations**
- Address **community concerns** relating to decision-making for real-world environmental issues
- Partner with organizations who can benefit from using NASA Earth observations to **enhance decision-making** by providing decision support tools
- Align with at least one of the NASA Applied Sciences Program's thematic **Application Areas**
- Research is conducted by **interdisciplinary teams** under the scientific guidance of DEVELOP Science Advisors and Mentors from NASA and partner organizations
- Create a comprehensive set of **deliverables** in <u>just 10 weeks</u>!

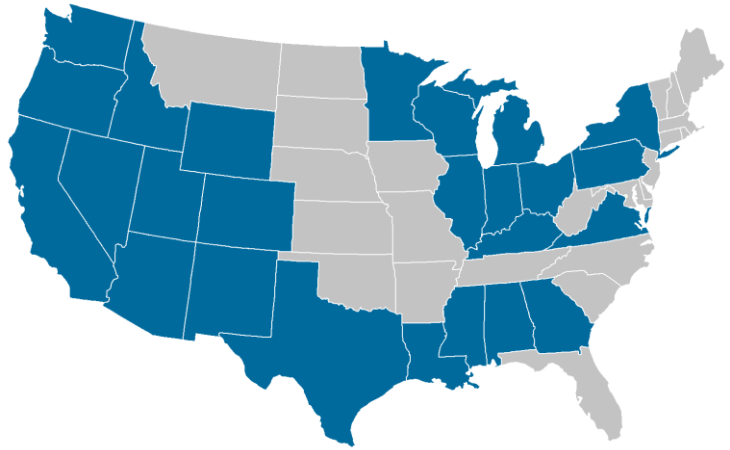


Project Requirements

- Address a **real** and **actionable community concern** involving an environmental issue
- **Collaborate** with local, state, regional, federal, and/or international organization(s) who can benefit from using NASA Earth observations to **enhance their decision making**
- Every project **must include at least one end-user** – an individual/institution that is making a decision that has the opportunity to be impacted
- Meaningful **use of NASA Earth observations** – must highlight their application! *Note: NCEI has an additional mandate to use NOAA EO*
- **Appropriate scope** of project for 10 weeks – resolution of sensors, study area size, team size, amount of work to be accomplished, etc.

Proposal Considerations

- Responding to HQ, NPO and/or partner requests
- Matching # of projects to space and slot allotments
- Meeting DEVELOP metrics
- US state coverage & gaps (35 states per year directly impacted, 50 states impacted on a rolling 3 year basis)
- US v. International portfolio balance (max 25% intl.)
- App Area requirements (e.g. Eco proposal approval depends on a forecasting/prediction piece to the project)
- Underutilized & new sensor usage
- "Relevant" – topics in the media, current data usage



DEVELOP Metrics

- 35 states impacted per year (both FY and CY)
- 50 states impacted on a rolling 3-year basis
- Work in all application areas
- 3 Latin America-focused projects per year in alignment with AmeriGEOSS
- Cap of 25% international (HQ told us we can work internationally after 35 states have been impacted)

Node Targets

- The new node targets provide a means of each node contributing to the DEVELOP portfolio to meet metrics
- Will be assessed on a term by term basis
- Some node-specific targets are aimed at ensuring balance

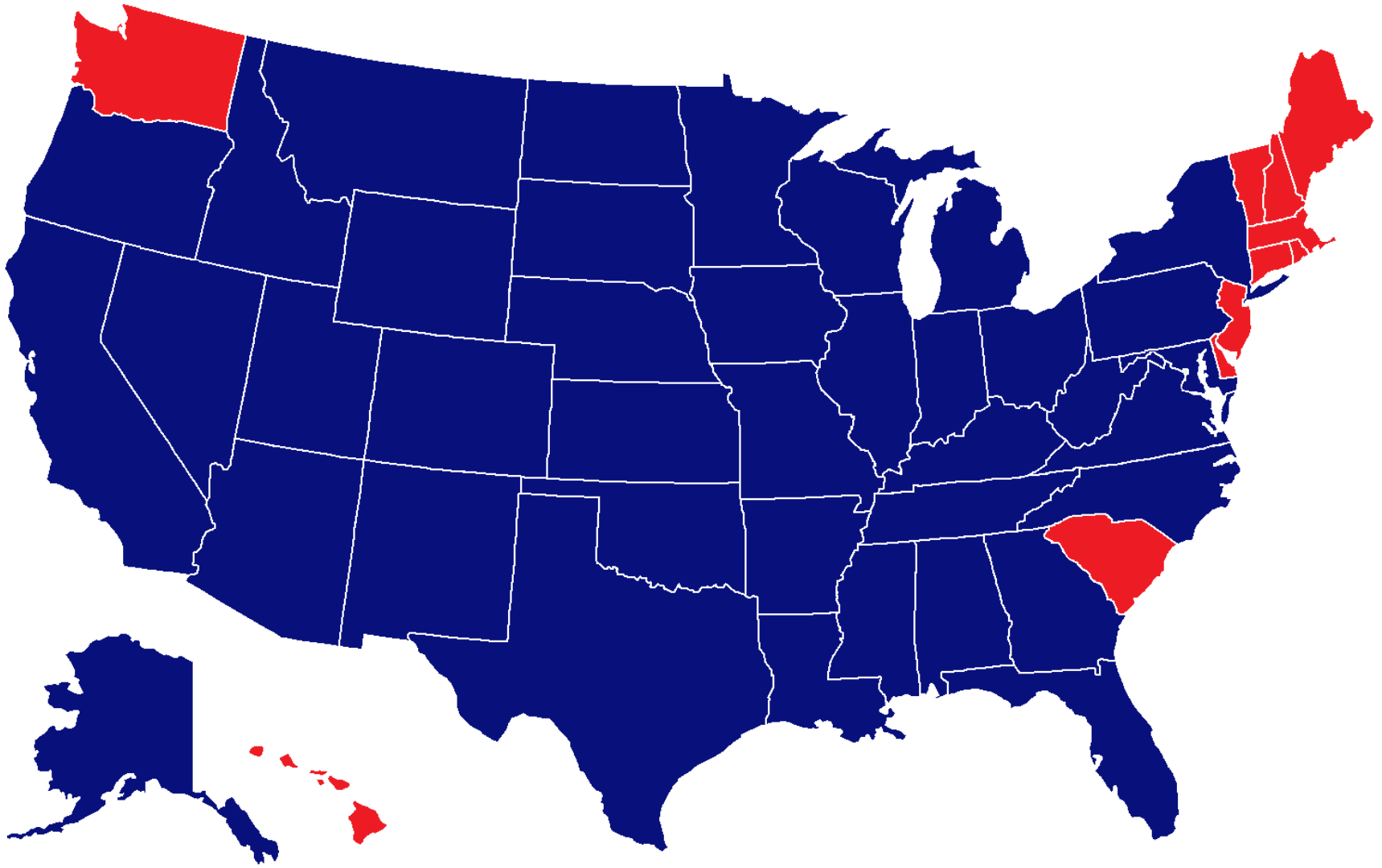
States Impacted

States Impacted:

- FY17: 39
- CY17: 48

States Missed:

- FY17
  - WA
  - HI
  - SC
  - NJ
  - DE
  - CT
  - RI
  - MA
  - VT
  - NH
  - ME
- CY17
  - SC
  - WA



States Impacted

State gaps for FY18
State gaps for FY17, FY18
State gaps for FY16, FY17

State	14Fall	15Spr	15Sum	15Fall	16Spr	16Sum	16Fall	17Spr	17Sum	17Fall
AL	XX	X	XX	XX	XXX	XX		XX	XX	X
AK		XXX	X						X	
AZ	XXX	XXXX	XXXXX	X	XX	XX	XXXXX	XXXX		XXX
AR	X	X	X			X	X	X		
CA	XX	X	XXX	XX	XXX	XXX	X	X	XXX	XXXX
CO	X	XXXX	XXX	XXX	XX	XXX	XX	XX	XXX	X
CT	X	X	X			X				X
DE		X	X							X
FL	X		XX	X		XXX	X		X	X
GA	XX	X	XX	XX	X	XXXX	X	XX	X	X
HI			XX			X				X
ID	XX	XX	XX	XX	XX	X	X	XXXX	XX	X
IL		X	X		X		X	X		
IN		X	X		X			X		
IA		XX	X	X				X		
KS		X	X	X				XX		
KY	X	X	X		X	X	X	X		
LA	XX	X	X	X	X	X	X	XX	X	
ME		X	X			X				X
MD	X	XX	XX			X		XX	X	X
MA	X	X	X			X				X
MI		X	X		X			XX		
MN		X	X	X	X			XX		
MS	XXXX	XX	XX	X	X	X	X	XX	X	
MO		XX	X	X			X	X		
MT		XX	X	XX			XX	XXXX	X	X
NE		X	X	X				X		
NV	XXX	X	X	X	X		X	X	X	X
NH		X	X			X				X
NJ		X	X	X		X				X
NM	X	XXX	XX	XX	X	XX	X	X	X	X
NY	X	XXX	X		X	X		XX		X
NC	X	XX	XX	X		XX	X	XX	X	
ND		X	X	X				XX		
OH		XX	X		X			XX		
OK	X	X	X					X		
OR	X	X	X		X					XX
PA		XX	X		X	X		X		X
RI		X	X							X
SC	X	X	X			X				
SD	X	X	X	X		X		XX		
TN	X	X	X	X		XX	X	XX	X	
TX	XX	X	XXXXX	XX	X	X		X	X	
UT	X	XXX	XX	X	X	XX	XX	XX	XX	XX
VT		X	X			X				X
VA	XX	XXX	XX	XX	X	XX		XX	X	XX
WA	X	XX	XX		X					
WV		X	X			X		X		X
WI		X	X		X			X		
WY		XX	X	XXX	XX	XX	X	XXXX	X	X

Application Areas

- **App Gaps**: 1) Agriculture & Food Security, and 2) Transportation & Infrastructure

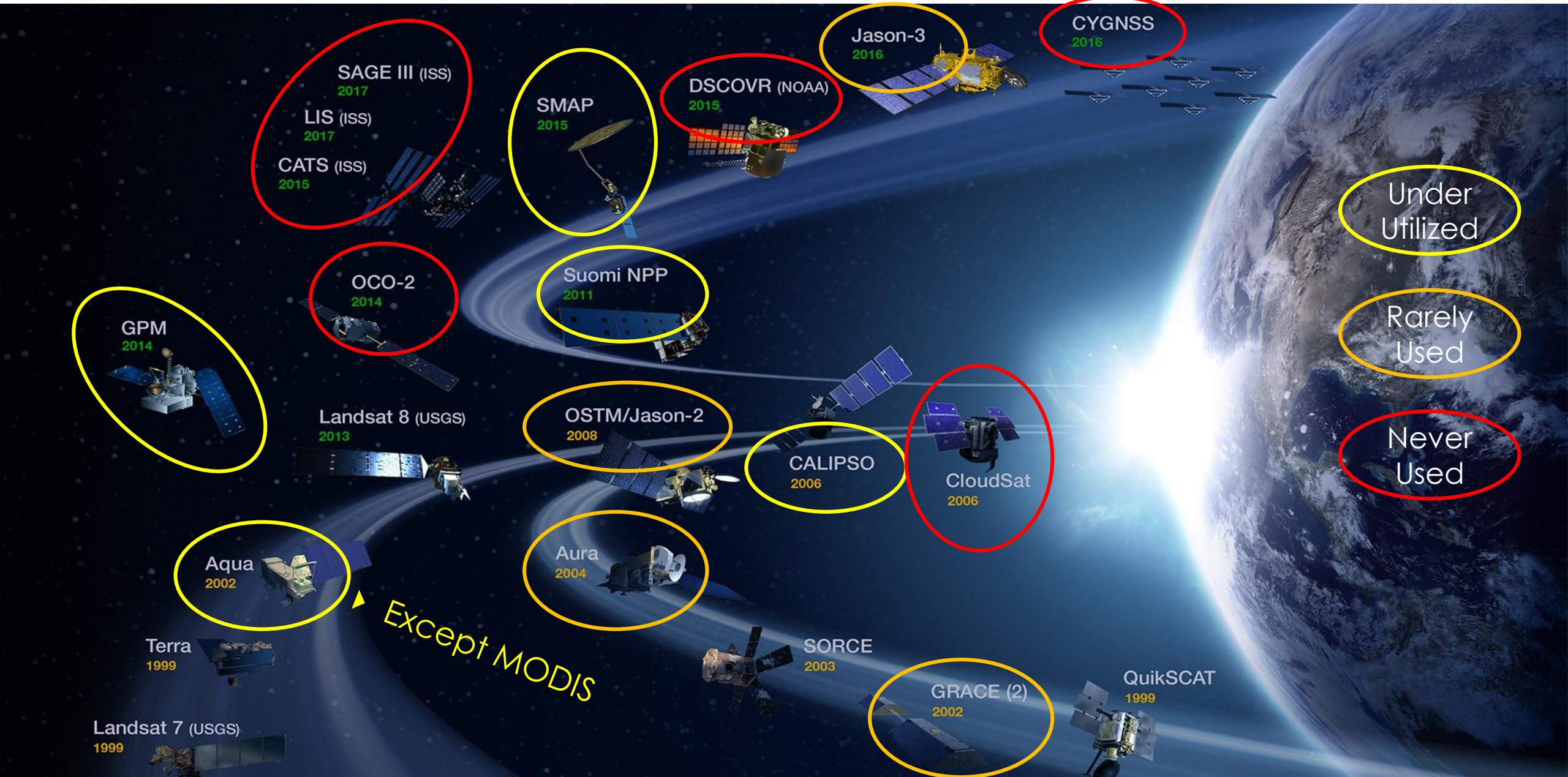
State	16Fall	17Spr	17Sum	17Fall	18Spr	18Sum
Agriculture	1	3	0	0		
Climate	4	3	1			
Disasters	2	3	4	3		
Eco	5	3	5	4		
Energy	0	1	1	1		
Health & AQ	1	1	4	3		
Oceans	0	0	4			
Transportation				0		
Urban				2		
Water	8	7	7	3		
Weather	0	0	0			

New Application Areas

- The **Transportation & Infrastructure** application area focuses on the application of NASA Earth observations to support planning, monitoring, and management of infrastructure (dams, roads, rail, ports, and pipelines) and transportation (air, land, and sea). The goal is to minimize environmental impacts, monitor resilient infrastructure, promote industrialization, and foster innovation.

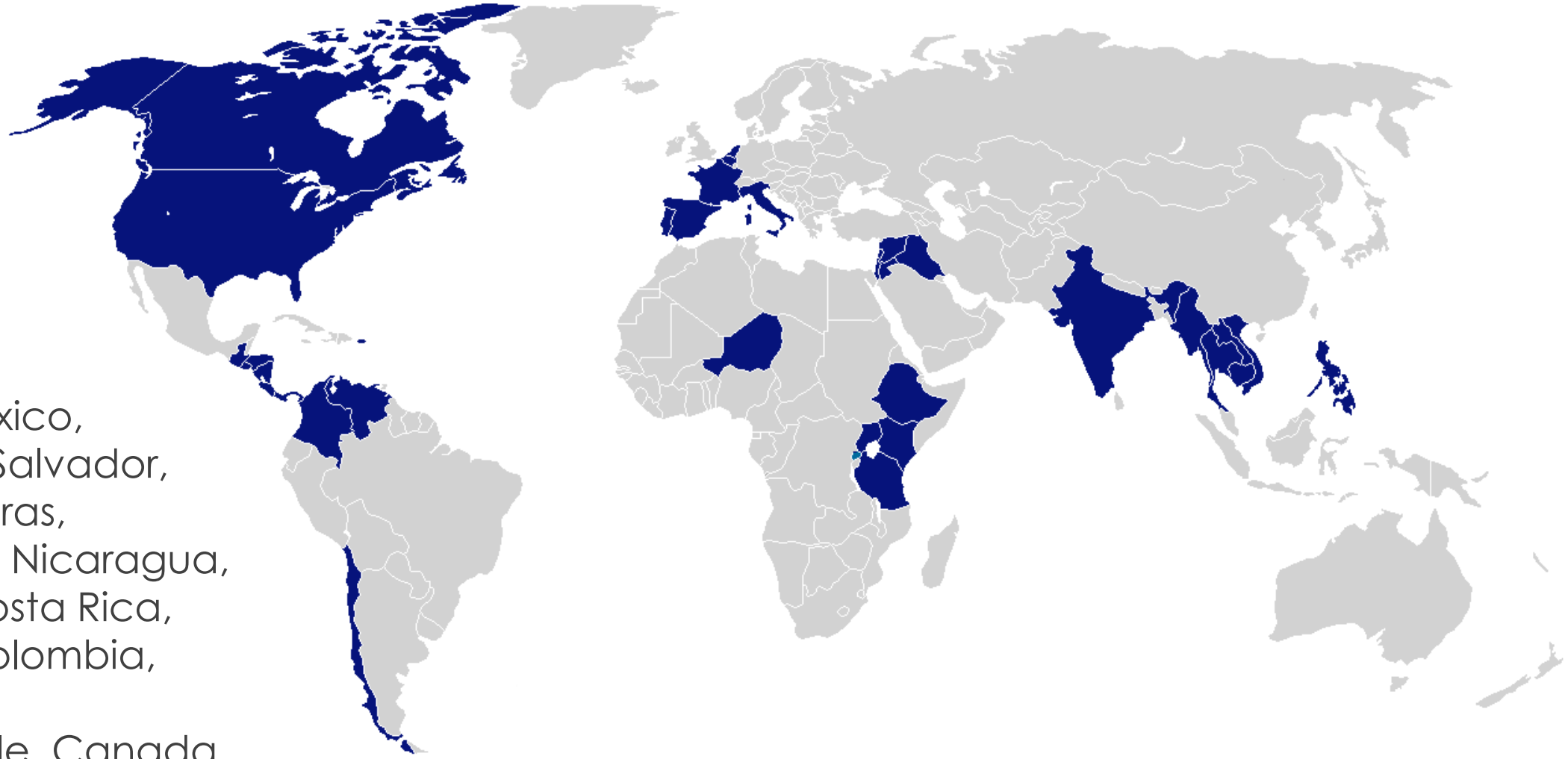
- The **Urban Development** application area focuses on the application of NASA Earth observations to enhance urban planning, monitoring of land change over time, assessment of urban footprints, and the development of sustainable and resilient urban environments. The goal is to support sustainability, resilience and safety of cities and human settlements through informed planning and management of climate and disaster risks.

NASA Earth Observations



Countries Impacted

- **FY17**: 25
- **CY17**: 17



Americas

- **CY2016**: Mexico, Uruguay, El Salvador, Peru, Honduras, Guatemala, Nicaragua, Canada, Costa Rica, Panama, Colombia, Venezuela
- **CY2017**: Chile, Canada, Costa Rica

Designated Countries

Designated Countries

- NASA's list of "Designated Countries" is a compilation of countries with which the U.S. has no diplomatic relations, countries determined by Department of State to support terrorism, countries under Sanction or Embargo by the United States, and countries of Missile Technology Concern.
- Do not knowingly communicate with individuals in these countries.

Impacts to Project Creation

- NASA has strict guidelines relating to doing work in designated countries. Before any communications take place with an individual/institution in a designated country, contact Lauren to discuss. We have open communication lines with NASA's Office of Interagency and International Relations (OIIR) and they can counsel us on what is and isn't ok.

Domestic Partners Working in Designated Countries

- Discuss with NPO. There are some opportunities where this is acceptable if we talk to OIIR and get their approval first. *Ex. Middle East Water project in 2016 Summer*
- Congressional legislation prohibits NASA from working unilaterally with China or doing any work with Cuba. These countries are entirely off limits to DEVELOP for project study areas.

Timelines & Calendars

Spring Term
- Fall Ideas
- Summer Proposal FD
- Spring Deliverables
- Summer Selections

Summer Term
- Fall Proposal FD
- Summer Deliverables
- Fall Selections

Fall Term
- Spring Proposal RD/FD
- Summer Ideas
- Fall Deliverables
- Spring Selections

Spring Interim
- Fall Proposal RD
- Summer Preview
- Partner Forms

Fall Interim
- Spring Ideas
- Fall Preview
- Partner Forms

Winter Interim
- Summer Proposal RD
- Spring Preview
- Partner Forms
- Retreat

Considerations

- Collect project ideas from a wide variety of sources
- If you are ever having trouble, call NPO there are always an abundance of project ideas needing a home
- DEVELOP only conducts projects that last 1-3 terms (10 to 30 weeks, i.e., always less than one year). This is a gap in ASP project activities that DEVELOP uniquely fills.
- Continuation projects: 1 Term (65%), 2 Terms (25%), 3 Terms (10%)
  - Need a compelling reason during proposal phase for why a project should continue into a 2nd or 3rd term
  - Clearly lay out phased approach for a project in the first proposal
  - Partner engagement is critical for multi-term project approval – a third term should have a robust handoff plan so consider providing a training and tutorials.
- International projects: if a proposal has an international study area, an international checklist must be completed. NPO will review and approve/reject for proposal submission. Due same time as the 'first look'.

Proposal Process

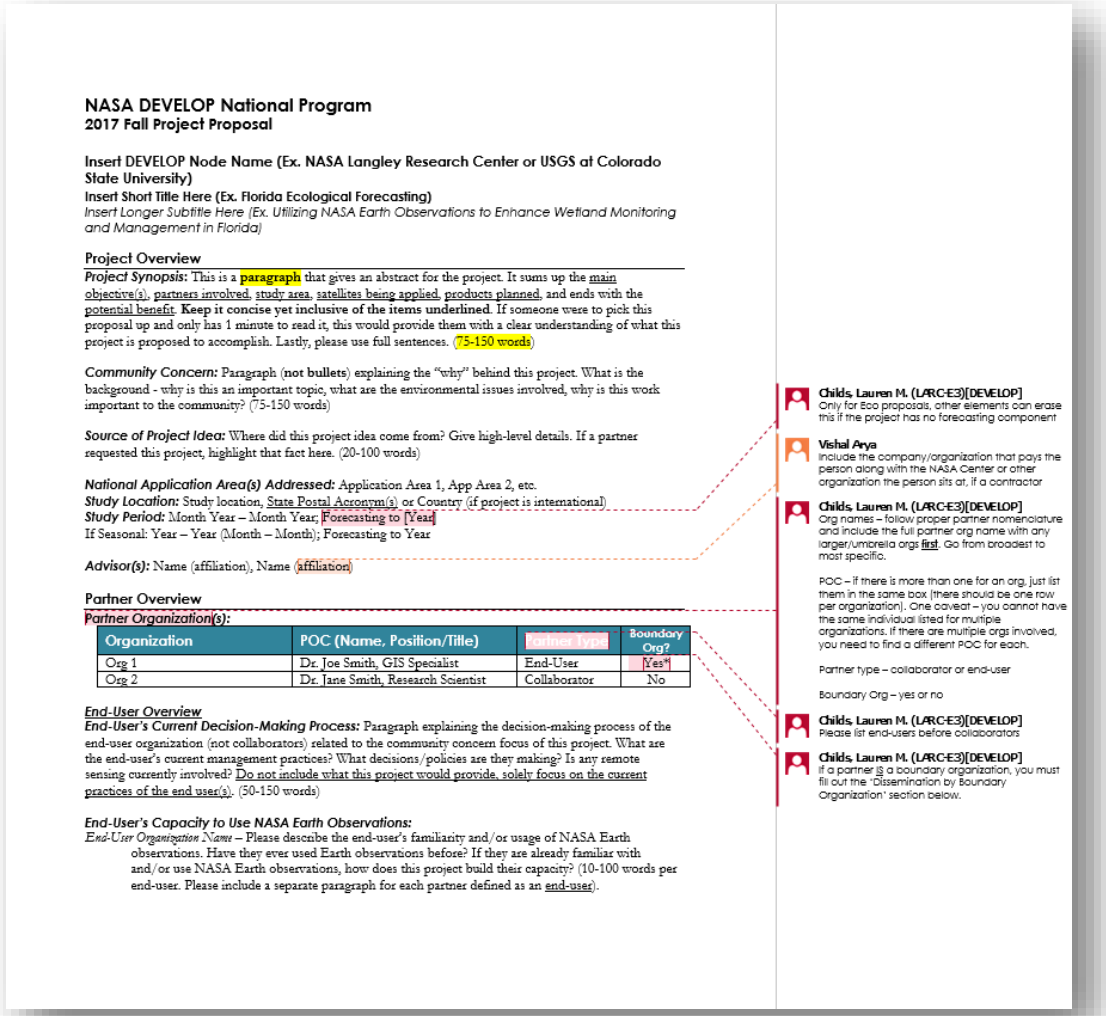
1. **Project Idea Submission**: first call for titles and a few supporting details comes from NPO 1-2 months before proposal submission deadline – includes short title and subtitle, study area, potential partners, and an international checklist (if study area is outside the US).
2. **Idea Review**: NPO does first round of review – telling the node which projects are approved to move on to the proposal writing phase.
3. **Proposal Writing**: Writing commences using the NPO-provided template for that term.
4. **Proposal Submission**: Proposals are submitted to Project Coordination (PC) Team by CL.
5. **NPO Review**: PC Team (Fellows & Senior Fellow) & NPO (Lauren & Dr. Ross) review.
6. **Proposal Edits & Feedback Returned**: Edited proposals are returned with feedback to CL.
7. **Final Version Creation**: CL responds to feedback, creates a final "clean" draft without comments and resubmits to NPO.
8. **Proposal Compilation**: NPO compiles all proposals by application area, sends to NASA HQ PMs for their review.
9. **NASA HQ Review**: PMs review, NPO sets discussion appointments to get their feedback with an approval/rejection for each proposal.
10. **Final Portfolio**: NPO takes approved proposals and coordinates with nodes to identify if proposals align with number of participants allotted to the node; down select if needed. Project portfolio finalized and shared.

Project Idea Collection

- **When**: 1-2 months ahead of proposal deadline
- **What**:
  - Short Title
  - Subtitle
  - Main Application Area
  - Study Area
  - Partners
  - EO
  - Decision Description
  - Potential End-Products
  - International Checklist (*if applicable*)
- **Why**: Helps NPO coordinate the portfolio, ensure balance, and strengthen project ideas

- **Tips**:
  - Feel free to 'over-propose' ideas and let NPO help you refine
  - International projects require a checklist which is crucial to a project being approved by NPO --- no international checklist, no go
  - Communication with partners should have begun prior to idea submission

Proposal Template



NASA DEVELOP National Program
2017 Fall Project Proposal

Insert DEVELOP Node Name (Ex. NASA Langley Research Center or USGS at Colorado State University)
Insert Short Title Here (Ex. Florida Ecological Forecasting)
Insert Longer Subtitle Here (Ex. Utilizing NASA Earth Observations to Enhance Wetland Monitoring and Management in Florida)

Project Overview

Project Synopsis: This is a paragraph that gives an abstract for the project. It sums up the main objective(s), partners involved, study area, satellites being applied, products planned, and ends with the potential benefit. **Keep it concise yet inclusive of the items underlined.** If someone were to pick this proposal up and only has 1 minute to read it, this would provide them with a clear understanding of what this project is proposed to accomplish. Lastly, please use full sentences. (75-150 words)

Community Concern: Paragraph (**not bullets**) explaining the "why" behind this project. What is the background - why is this an important topic, what are the environmental issues involved, why is this work important to the community? (75-150 words)

Source of Project Idea: Where did this project idea come from? Give high-level details. If a partner requested this project, highlight that fact here. (20-100 words)

National Application Area(s) Addressed: Application Area 1, App Area 2, etc.
Study Location: Study location, State Postal Acronym(s), or Country (if project is international)
Study Period: Month Year – Month Year; Forecasting to [Year]
If Seasonal: Year – Year (Month – Month); Forecasting to Year

Advisor(s): Name (affiliation), Name (affiliation)

Partner Overview

Partner Organization(s):

Organization	POC (Name, Position/Title)	Partner Type	Boundary Org?
Org 1	Dr. Joe Smith, GIS Specialist	End-User	Yes*
Org 2	Dr. Jane Smith, Research Scientist	Collaborator	No

End-User Overview
End-User's Current Decision-Making Process: Paragraph explaining the decision-making process of the end-user organization (not collaborators) related to the community concern focus of this project. What are the end-user's current management practices? What decisions/policies are they making? Is any remote sensing currently involved? Do not include what this project would provide, solely focus on the current practices of the end user(s). (50-150 words)

End-User's Capacity to Use NASA Earth Observations:
End-User Organization Name – Please describe the end-user's familiarity and/or usage of NASA Earth observations. Have they ever used Earth observations before? If they are already familiar with and/or use NASA Earth observations, how does this project build their capacity? (10-100 words per end-user. Please include a separate paragraph for each partner defined as an end-user).

Childs, Lauren M. (LARC-E3)[DEVELOP]
Only for Eco proposals, other elements can erase this if the project has no forecasting component

Vishal Arya
Include the company/organization that pays the person along with the NASA Center or other organization the person sits at, if a contractor

Childs, Lauren M. (LARC-E3)[DEVELOP]
Org names – follow proper partner nomenclature and include the full partner org name with any larger/umbrella orgs first. Go from broadest to most specific.

POC – if there is more than one for an org, just list them in the same box (there should be one row per organization). One caveat – you cannot have the same individual listed for multiple organizations. If there are multiple orgs involved, you need to find a different POC for each.

Partner type – collaborator or end-user

Boundary Org – yes or no

Childs, Lauren M. (LARC-E3)[DEVELOP]
Please list end-users before collaborators

Childs, Lauren M. (LARC-E3)[DEVELOP]
If a partner is a boundary organization, you must fill out the "Dissemination by Boundary Organization" section below.

6 Sections:

- **Project Overview**: synopsis, community concern, source of idea, app areas, study area & period, advisors
- **Partner Overview**: partner names, decision, EO experience, collaborator contributions, boundary orgs, communication plan, transition plan, letters of support (if any)
- **Earth Observation Overview**: EO, ancillary datasets, modeling, software
- **DST & End Product Overview**: end products, benefits
- **Timeline & Related Work**: timeline, multi-term objectives, previous terms, related work,
- **Notes & References**: notes, references

Notes:

- Comments provide guidance
- Word counts are included

Proposal – Titles

- **Short title**:
  - Study area + the primary app area
    - Ex. South Carolina Disasters
  - *Common Mistakes*:
    - In place of app area, a proposal has something specific – ex. South Carolina Hurricanes --- **stick to the ASP application areas!**

- **Subtitle**:
  - The subtitle should be a short description of the project to provide the reader more insight into the project – include things like EO being used, where the project is taking place, and the decision being made
  - *Common Mistakes*:
    - Not writing in title case (first letter of each word capitalized)
    - Too generic: "Utilizing NASA Earth Observations to…"
    - Not emphasizing the applied nature of the project: "Utilizing Earth Observations to Better Understand…" --- speak to the decision the project aims to impact

Proposal – Project Overview

- **Synopsis**: This is a paragraph that gives an abstract for the project. It sums up the main objective(s), partners involved, study area, satellites being applied, products planned, and ends with the potential benefit. Keep it concise yet inclusive of the items underlined. If someone were to pick this proposal up and only has 1 minute to read it, this would provide them with a clear understanding of what this project is proposed to accomplish. Lastly, please use full sentences. (75-150 words)
- **Community Concern**: Paragraph (not bullets) explaining the "why" behind this project. What is the background - why is this an important topic, what are the environmental issues involved, why is this work important to the community? (75-150 words)
- **Source of Project Idea**: Where did this project idea come from? Give high-level details. If a partner requested this project, highlight that fact here. (20-100 words)
- **National App Area**: List – Application Area 1, App Area 2, etc.
- **Study Location**: Study location, State Postal Acronym(s) or Country (*if international*)
- **Study Period**: Month Year – Month Year; Forecasting to [Year]
- **Advisors**: Name (affiliation), Name (affiliation)

Proposal – Partner Overview

- **Partner Organizations**: Org names – follow proper partner nomenclature and include the full partner org name with any larger/umbrella orgs first. Lead with the primary end-user.
- **End-User's Decision**: Paragraph explaining the decision-making process of the end-user organization (not collaborators) related to the community concern focus of this project. What are the end-user's current management practices? What decisions/policies are they making? Is any remote sensing currently involved? Do not include what this project would provide, solely focus on the current practices of the end user(s). (50-150 words)
- **End-User's EO Experience**: Please describe the end-user's familiarity and/or usage of NASA Earth observations. Have they ever used Earth observations before? If they are already familiar with and/or use NASA Earth observations, how does this project build their capacity? (10-100 words per end-user. Please include a separate paragraph for each partner defined as an end-user).
- **Collaborator Support**: Please describe how any collaborators are supporting and involved with the project. (10-75 words)
- **Boundary Orgs**: Please describe the organization's capacity to transition and disseminate project results and methodologies to other groups. Describe the community they would share the DEVELOP project with here. If you know specific groups they would be sending results/products to, please include exact organization names; however, do not list those groups as partners above unless the team will be directly in contact with them. (50-100 words)
- **Communication Plan**: Describe the communication plan for during the term – how and how often will the team communicate with the partners? Who will be the main POC for this communication? (25-100 words)
- **Transition Plan**: Discuss the transition approach to the end-user – how will you hand off your decision support tool(s)? How and when will the tool(s) be used and/or implemented by the partner? Will software release be required, and if so how does that work into the timeline? (25-100 words)
- **Letter of Support**: Author, Author's Title, Organization. Do not put the letter in this document, submit it to the Project Coordination Team through email with proposals or as soon after as you have the letter. Erase this section if no letter(s) of support are available.

Partner Types

- Partner: *Umbrella term for any outside organization DEVELOP engages with through projects, nodes, or other activities.*

- 2 Types of Partners: **differences lie in use of the project results/methods in decision making**.
  - **End-User**: Organization or individual that receives results and methodologies from DEVELOP (either directly from a DEVELOP project team or through a collaborator/boundary organization) and **can use** the project's products or methodologies to make a decision or policy. They may also provide some kind of resources (advising, data, model, software, funding, etc.), but it is not required. Ex. The Texas Forest Service's Predictive Services that can use the products/methodologies from the DEVELOP project in their risk mapping creation.
  - **Collaborator**: Organization or individual that works directly with a DEVELOP project team and provides some kind of leveraged resource (advising, data, model, software, funding, etc.), but are **not actually using** the project's products or methodologies to make a decision or policy. Ex. A researcher from a university who provides a team with an ancillary dataset to validate their results.

Additional classifier:

- **Boundary Organization**: In addition to either being a Collaborator or End-User, an organization or individual that disseminates the project's results to other end-users, decision makers, policy-makers, etc. can be distinguished as a Boundary organization. This classification is in addition to the two types listed above. The Applied Sciences Program defines a boundary organization as "an organization outside of your own that broadens your reach across the boundary into the operational domain (i.e. policymakers, decision makers, and other key stakeholders)." Ex. The Smithsonian Conservation Biology Institute works with local groups in Myanmar and helped DEVELOP disseminate results from the Myanmar Ecological Forecasting project to those in-country groups.

Understanding Partner Needs

Prepare for your first communication with a potential partner by compiling questions relating to the following areas. This typically happens ahead of or during the proposal writing process.

Community Concern or Policy

- Background, current policies, and upcoming/ongoing decisions relating to the issue at hand
- Economic impact (ex. cost of fighting a wildfire or drought impacts to crops in a region)

Technology

- Do they currently use GIS and/or remote sensing?
- What data types are they familiar with?
- Do they have access to ArcGIS/ENVI/MATLAB/etc. or whatever software you will use? (this can guide the team's use of open source software)

Partnership and Transition

- Clarify expected level of involvement – how much can the partner interact with the team?
- What organizations do they partner with?
- What tutorials would be of use? What format should end-products be in to be useful?
- What is the best transition approach? Email, telecon, videocon, in-person (consider distance for this one – if you're 3000 miles apart choose a different option)

Partner Engagement

- Set clear expectations of timeline and approval process
  - Share the timeline & expectations: proposal deadline, process for approvals, term start and end dates, pre & post forms
- Letters of support are great to include with proposal
- Set clear expectations with partners for "how it works" if project is accepted:
  - Ideal outcome: they take the results & methods and use them for decision making
  - Only a 10 week term! Make sure they know the term dates.
  - No funds transferred and no formal agreements
  - The DEVELOP team is funded through NASA and the team sits at the node
  - Team will hand-off project results & methodologies at end of the term – however, code cannot be handed off until approved through NASA's software release, which is on a very different timeline
  - Communicate the planned length of the project (1, 2 or 3 terms) but that changes can occur due to a wide variety of factors – lack of funds, wrong applicants, proposal not approved, etc.
  - Team would touch base with the partner throughout the term (weekly or biweekly tag ups, with a handoff at end)
  - Partner would fill out the pre-term (few weeks before) and post-term forms (few weeks after handoff)
  - If any ancillary data is needed from the partner – ask for it before the project begins

Proposal – EO Overview

- **Earth Observations**: Please list each Instrument on an individual line, even if the parameter and use are the same Ex. Landsat 5 TM, Landsat 7 ETM+, and Landsat 8 OLI should all be in separate rows.
- **Ancillary Datasets**: List any non-satellite/airborne datasets you might use for this study, e.g., field surveys, in situ measurements, available modeled data (even if it is modeled using satellite data), etc. For published datasets, list the original source for Creator Organization (i.e. person/organization who actually created the dataset) followed by the formal dataset name. Do not list where the data came from or who provided it, if different from the creator.
- **Modeling**: This section is for highlighting any model that will be run by the team during the term to assist in project deliverables. For an Eco Forecasting project, this is required! Some kind of forecasting needs to be taking place. Any model data not being run by the team should be included under ancillary datasets.
- **Software & Scripting**: List the software (ERDAS IMAGINE, Esri ArcGIS, ENVI, IDL, R, QGIS, MATLAB, etc.) you will use and for what data.

Proposal – DST & EP Overview

- **End Products**: List the end products that the team will create and hand off to the partners. Each should be on a separate line and include how the partner will use it, what datasets/analyses are involved, and if software release is required. If an Eco project, one must include forecasting.
- **End-User Benefit**: What will be the benefits of your project's end products to the end-user(s)? How will this impact their decision-making process? Will it save them time/money/etc.? This should be concise and well thought out. If the end-user has written a letter of support, incorporate any applicable quotes regarding the potential benefit and any outcomes or you can also reach out to them to write this section or contribute a quote. (50-100 words)

Proposal – Timeline & Related Work

- **Project Timeline**: 1 Term: [Year Term] OR [#2-3] Terms: [Year Term] to [Year Term]
- **Multi-Term Objectives**: Only complete if it's a multi-term project. For each term write a descriptive paragraph that outlines the specific goals/objectives (or accomplishments) for the first term of this project, and how they set the stage for subsequent terms. Include details related to partner interaction. (75-100 words)
- **Previous Terms**: Year Term (Team Location) - Project Short Title. This is for a) 2nd or 3rd terms of continuing projects, or b) One term projects that are a continuation of another term but aren't easily identified as such because the focus has changed (geographic location/partner/ASP app area/etc.). When the continuation term is so different for a follow-on term that it is determined best to be considered as a new first term project. When this happens, please include the previous term(s) here for tracking clarity.
- **Related Work**: Term Completed (Node Acronym) - Project Title: Project Subtitle. Projects in DEVELOP's portfolio that are similar and can support the new team, give merit to methods being used, etc. Max # of related projects: 5, 2-3 is sufficient. Look on DEVELOPedia. There will be related work!

Proposal – Notes & References

- **Notes**: Anything else you deem important to share. Often empty and that is ok!
- **References**: List out any relevant content or websites; however, please note that citations should not be included in the text in the body of the proposal. Use APA format.

Proposal Submission

Email

Amanda.L.Clayton@nasa.gov
Lauren.M.Childs@nasa.gov
DEVELOP.ProjectCoordination@gmail.com

File Nomenclature

YearTerm_Node_ProjectName_Proposal

Ex. 2018Spr_GA_EasternIndiaEcoII_Proposal

Node Acronyms:
AL, ARC, AZ, CO, GA, GSFC, ID, JPL, LaRC, MSFC, NC, VA

App Area Shorthand:
Ag, CC, Disasters, Eco, Energy, HealthAQ, TI, Urban, Water

Things NPO Looks For

- The correct template is used and sections aren't missing
- We look for responses to be within word counts provided – concise, fluff free, and responsive to each prompt
- Filling gaps: study areas in gap states, underutilized sensors, less common app areas
- Multiple term projects should have significant partner involvement and a third term project should be focused on the hand off and the partner being able to use and replicate the methodologies/results
- End-products should be well thought out and descriptive
- If software release is involved, we look for a very descriptive and well thought out transition plan and timeline
- What is the decision? Is it actionable? When we see a title talking about improving understanding of a phenomenon and weak write up in the decision section, we question whether it is truly "applied science" – so clearly communicate the decision that could potentially be impacted
- Partner names are written correctly

SEDAC

NASA's Socioeconomic Data and Applications Center (SEDAC)

What?

- "Focusing on human interactions in the environment, SEDAC has as its mission to develop and operate applications that support the integration of socioeconomic and earth science data and to serve as an 'Information Gateway' between Earth sciences and social sciences." (http://sedac.ciesin.columbia.edu/)

Why?

- Support Capacity Building Program's efforts to support SEDAC data usage and incorporate socioeconomic analyses into CBP work

Resources:

- ARSET Trainings Utilizing SEDAC Data:
- Climate Variability, Hydrology, and Flooding (Session 3)
- Using NASA Remote Sensing for Flood Monitoring and Management (Session 3)

Gender Data

Why?

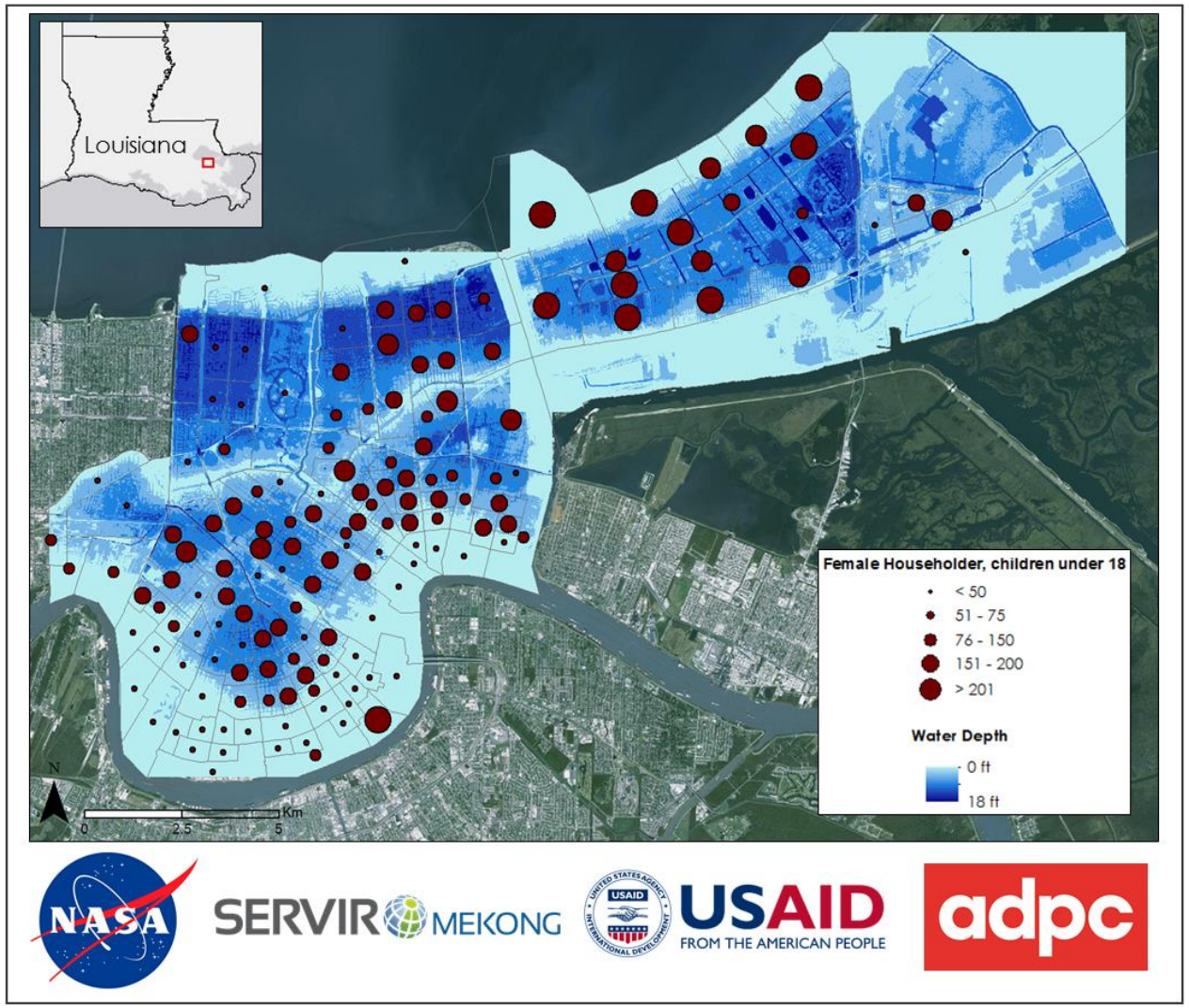
- Address socioeconomic aspects, not just environmental issues

Ideas:

- Include demographic data relating to gender in population in risk/ vulnerability map products
- Well-suited for Disasters, HAQ, and Agriculture

Resources:

- SERVIR GIS & Gender Guidance Notes: https://servir.adpc.net/publications/gender-and-gis-guidance-notes



SDG

What?

- September 2015, UN adopted the 2030 Agenda for Sustainable Development
- Outlines 17 Sustainable Development Goals (SDGs) which lay out the overarching objectives for all countries to meet by 2030 in such global concerns as ending poverty and hunger, ensuring gender equality, access to clean water, and environmental sustainability

Why?

- Support GEO & NASA Applied Sciences Program efforts to identify SDG indicators that could integrate Earth observations (EO) into their monitoring.

How?

- Identify DEVELOP projects that align with SDGs and create case studies that provide an example of how EO can be integrated into SDG monitoring
- Partner with organizations that are already working in support of SDGs

Summer Wish List

- **States**: OK, SC, WA
- **Countries**: Honduras, Guatemala
- **App Areas**: Agriculture & Food Security, Transportation & Infrastructure
- **EO**: OCO-2, SAGE III, LIS, CYGNSS, CloudSat, Suomi NPP
- **Socioeconomic Data** Inclusion in projects, especially **SEDAC** data!

Points of Contact

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