



National Aeronautics and
Space Administration



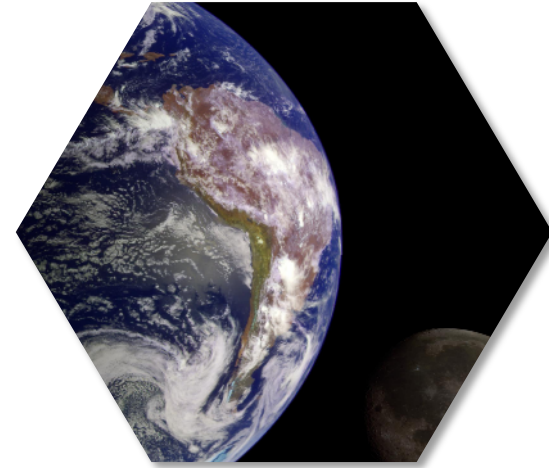
An Overview of the **DEVELOP** National Program



NASA Earth Science

Earth Science Division

The Earth Science Division conducts scientific studies of the Earth to understand the Earth as a system and on all time scales. NASA's ability to view the Earth from the unique vantage point of space provides a broad and integrated set of uniformly high-quality data covering all parts of the planet, supporting the pursuit of answers to fundamental science questions.



Applied Sciences Program

The Applied Sciences Program (ASP) works with a wide variety of partner organizations to discover innovative and practical uses of NASA Earth observations data. ASP supports partner organizations' decision-making processes by combining data, knowledge, tools, and experience to develop solutions and enhance decisions.

Capacity Building Program

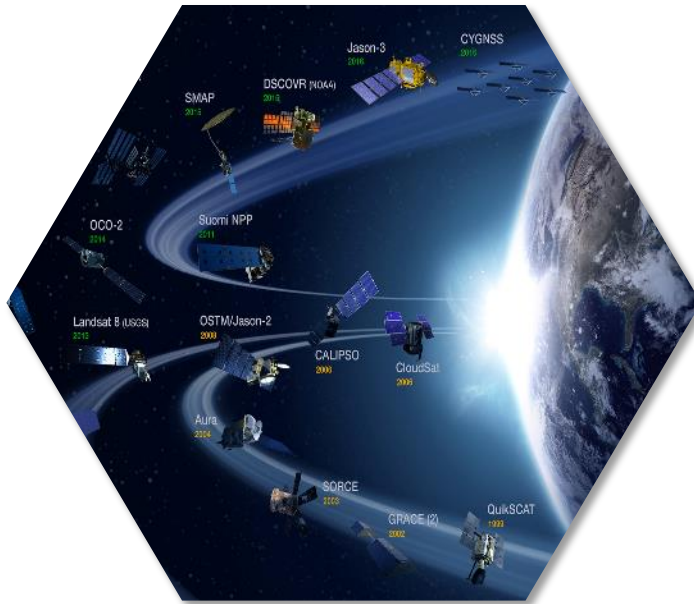
The Capacity Building Program (CBP) builds capacity within the U.S. and the developing world to increase awareness, access, and use of NASA Earth observations data and products. Within CBP there are three elements that focus on these activities using different approaches for target audiences:

- ▶ **ARSET:** Empowers the global community through remote sensing training to increase the use of Earth Science in decision making.
- ▶ **DEVELOP:** Conducts 10-week feasibility studies that build capacity in individuals and institutions to use NASA Earth observations to enhance environmental decision making.
- ▶ **SERVIR:** Works in partnership with USAID and leading regional organizations globally to assist developing countries use information provided by Earth observations.



What is DEVELOP?

DEVELOP addresses environmental and public policy issues through interdisciplinary feasibility studies that apply the lens of NASA Earth observations to community concerns around the globe. Bridging the gap between NASA Earth Science and society, DEVELOP projects build capacity in both participants and partner organizations to better prepare them to address the challenges that face our society and future generations.



NASA Earth Science



DEVELOP



Decision Makers

DEVELOP Projects

Project Characteristics

- ▶ Highlight the **applications** and capabilities of **NASA Earth observations**
- ▶ Address **real-world** environmental issues
- ▶ Partner with **decision-making** organizations
- ▶ Conducted by **interdisciplinary** teams under guidance of DEVELOP Science Advisors
- ▶ Create a comprehensive set of **deliverables** (Project Summary, Poster, Presentation, Technical Report, Video, Imagery, Shapefiles)
- ▶ Take place in **just 10 weeks** during three terms a year (spring, summer, and fall)



Application Areas

Each DEVELOP project is classified by one of the Applied Sciences Program's eight thematic application areas of importance:



Disasters



Health &
Air Quality



Energy



Agriculture &
Food Security



Ecological
Forecasting



Urban
Development



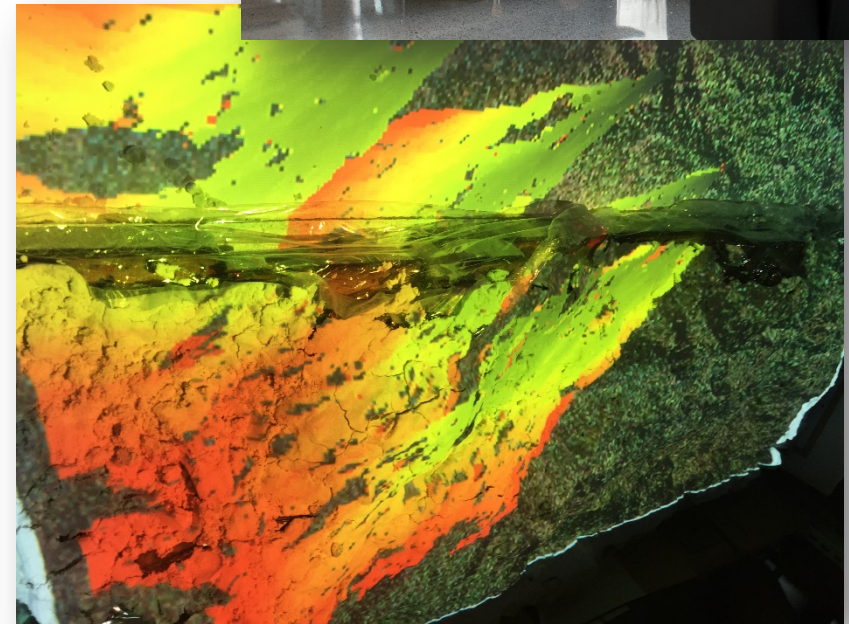
Water
Resources



Transportation
& Infrastructure

How Do DEVELOP Projects Work?

- ▶ DEVELOP teams collect project ideas
- ▶ DEVELOP works with the partner organization to draft a proposal
- ▶ Proposals are reviewed by DEVELOP's National Program Office and NASA Headquarters' Program Managers
- ▶ Approved projects are conducted within a 10-week term (spring, summer or fall)
- ▶ DEVELOP project teams hand off results and deliverables to partner
- ▶ Partners complete post-project partner form after the project, reporting use of project results





Benefits of DEVELOP Projects

- ▶ Opportunities for networking with the NASA community
- ▶ Introduction to NASA's Applied Sciences Program and its contributions to society
- ▶ Increased exposure to NASA Earth Science technologies and capabilities
- ▶ Introduction to new methods to augment current practices: cost-saving & time-saving
- ▶ Enhanced decision support through use of NASA Earth observations
- ▶ Rapid response – project wraps up in 10 weeks





Creating a Successful DEVELOP Project



- ▶ Achievable within a 10-week term by a small team
- ▶ Addresses an actionable community concern to enhance support for a decision
- ▶ Clear understanding that these are feasibility projects
- ▶ NASA Earth observations are appropriate for the scale and scope of the project
- ▶ Specific study region rather than a broad study area
- ▶ Robust communication with end-user before, during, and after the project
- ▶ Ancillary data sent to DEVELOP before the project begins



Engage with DEVELOP



- ▶ *Interested in working with a DEVELOP team?*
 - **Project Partner** – submit a project request form, found at <https://develop.larc.nasa.gov/projects.php>. Email to NASA-DL-DEVELOP@mail.nasa.gov.
 - **Volunteer Advisor** – email DEVELOP at NASA-DL-DEVELOP@mail.nasa.gov to learn about projects within your area of expertise and be connected to a DEVELOP project team.

- ▶ *Interested in working on a project?*
 - Visit <https://develop.larc.nasa.gov> for more information and eligibility requirements.
 - Apply to be a **Participant** – applications are accepted three times a year through the program's online application system.



Project Development Timelines

Spring 2019 Term

Idea Collection: Jun – Aug 2018

Proposal Writing: Aug – Sep 2018

Proposal Deadline: Sep 7, 2018

Review: Sep – Dec 2018

Term Dates: Jan 28 – Apr 5, 2018

Summer 2019 Term

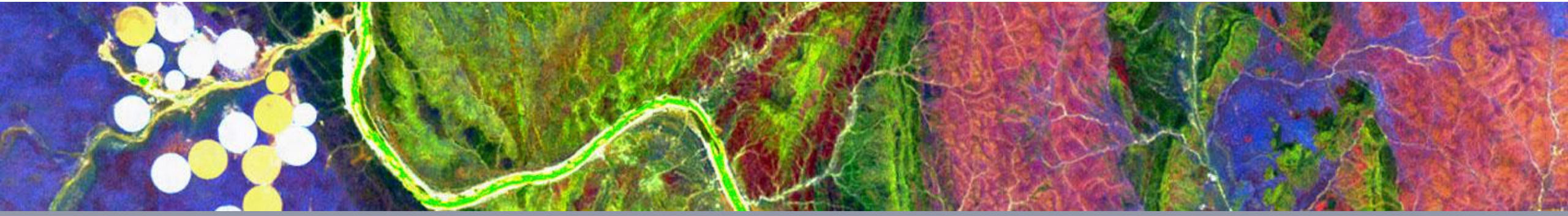
Idea Collection: Sep – Nov 2018

Proposal Writing: Nov 2018 – Jan 2019

Proposal Deadline: Jan 11, 2019

Review: Jan – Apr 2019

Term Dates: Jun 3 – Aug 9, 2019



THANK YOU!



Victor Lenske, Goddard Center Lead
Victor.Lenske@nasa.gov

<http://develop.larc.nasa.gov>