



Sept 06, 2019
NCST Advisory
Committee Meeting

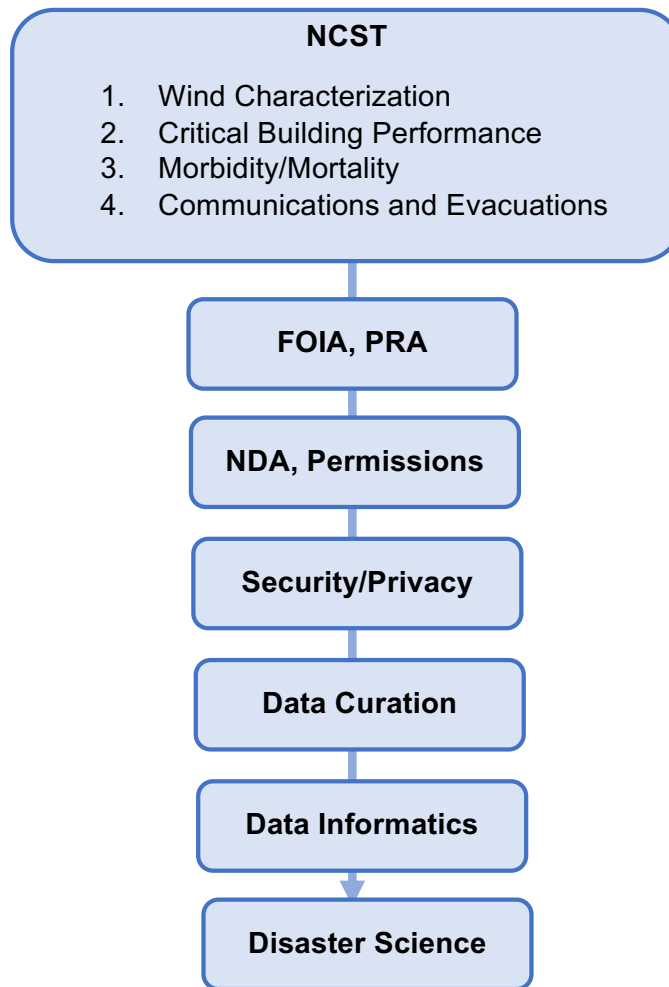
NCST Technical Investigation of Hurricane Maria's Impacts on Puerto Rico (Hurricane Maria NCST Investigation):

Data Security and Management

Judith Mitrani-Reiser, Ph.D.
*Director, Disaster and Failure Studies Program
Team Member, Hurricane Maria NCST Investigation
National Institute of Standards and Technology
U.S. Department of Commerce*

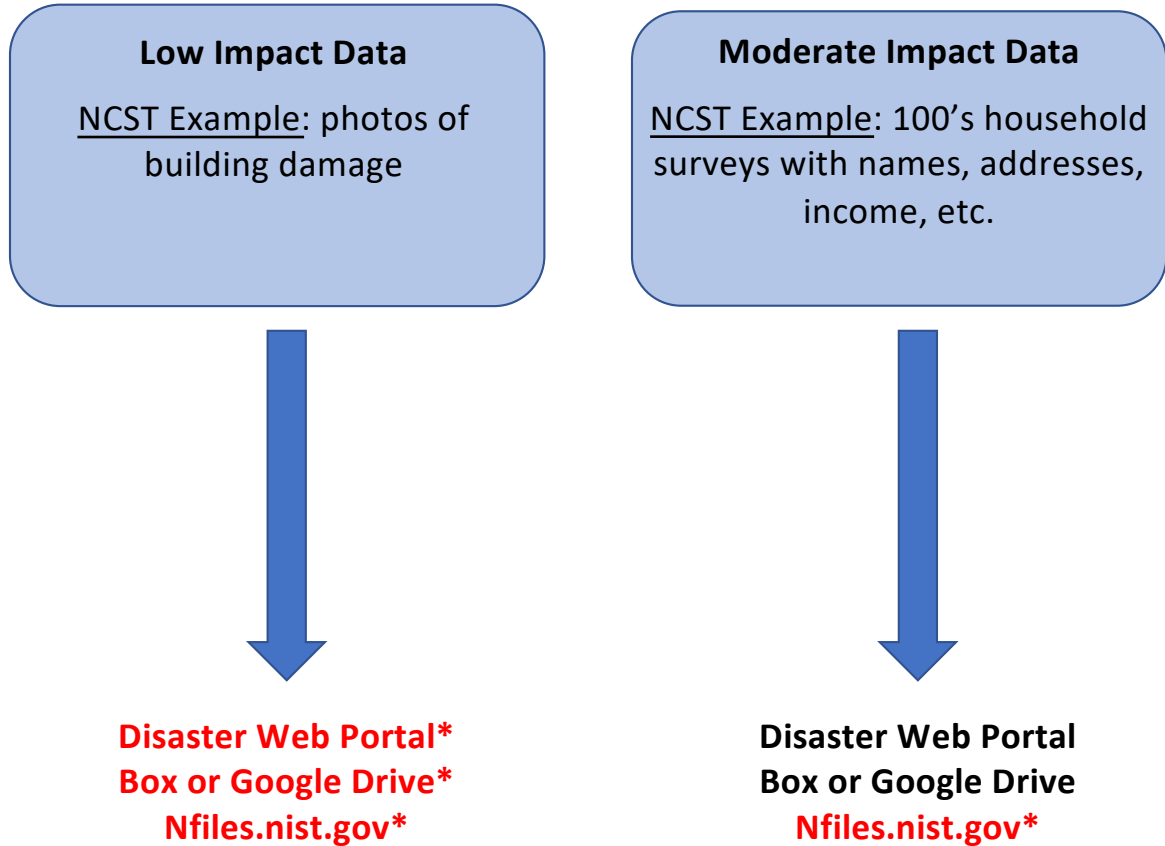


Securing and Managing NCST Data



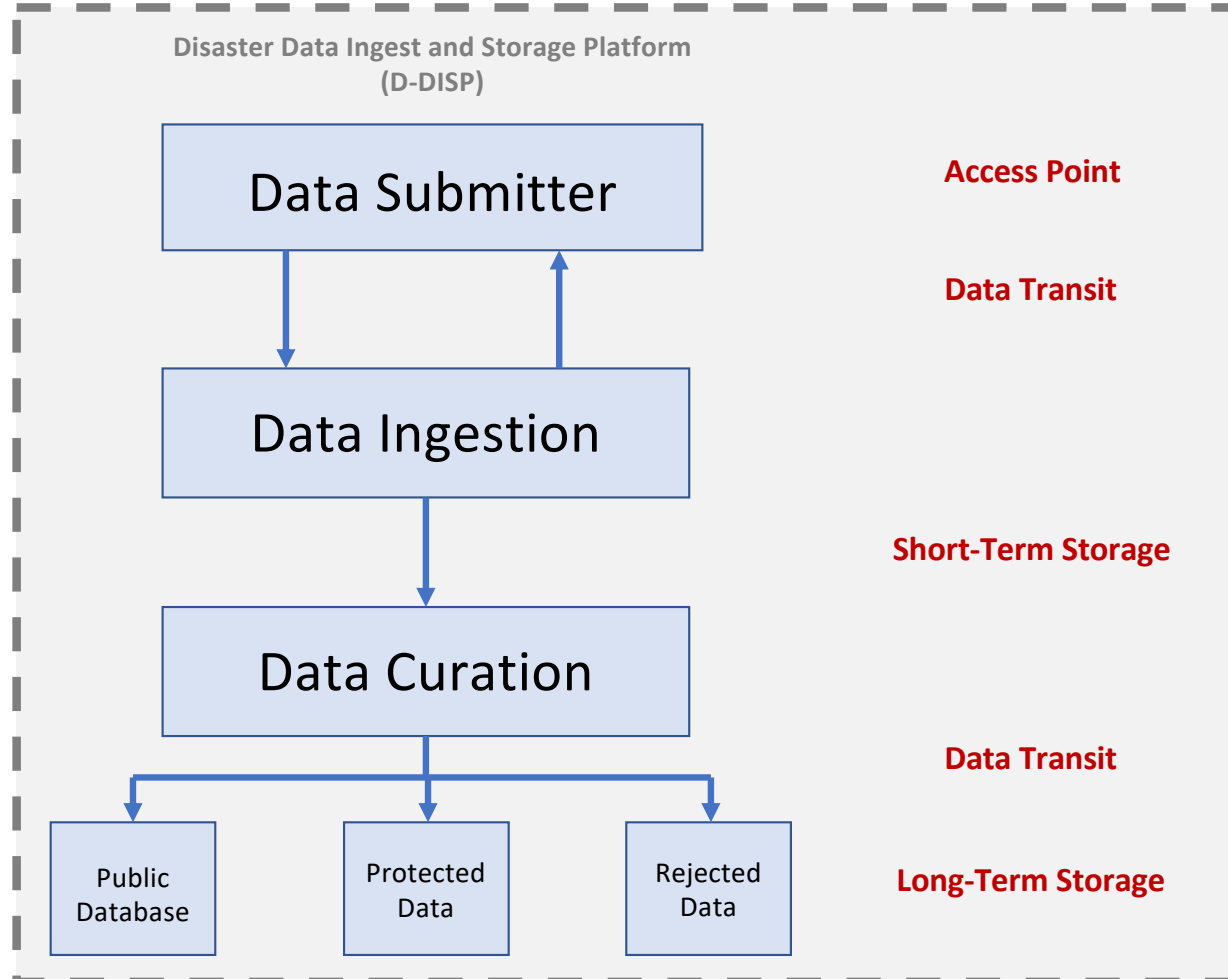


Appropriate NIST Ingestion Tools



* DFS is approved to use systems designated in red.

Disaster Data Ingest and Storage Platform (D-DISP)



Long-Term Storage for Disaster Data

Existing Disaster Repositories

DESIGNSAFE-CI
NHERI: A NATURAL HAZARDS ENGINEERING RESEARCH INFRASTRUCTURE

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DATA DEPOT

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Publication Type

Experimental Simulation Hybrid Simulation NEES Other

Publication Title	Author	Publication Description	Keywords	Date of Publication
SIEER - 22 May 2019 JEFFERSON CITY, MO TORNADO: FIELD ASSESSMENT STRUCTURAL TEAM 1 (FAST-1) EARLY ACCESS RECONNAISSANCE REPORT (EARR) (Other)	Yan, Gu (Grace)			
Prototype Masonry Buildings (Experimental)	Bahadr			
Wind Gust Data from Continental United States Extreme Convective Events (Experimental)	Lombar			
SIEER - 14 March and 25 April, 2019 Cyclones Idai and Kenneth in Mozambique: Event Briefing (Other)	Rouch			

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NIST Disaster and Failure Studies HUB

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Chile Earthquake Database : Essential Building Data [Return to Landing Page] [Return to Full Data View]

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Show 10 entries

001 Structure ID	002 Earthquake Name	004 Building Name	010 Lat. [degrees]	011 Long. [degrees]	013 Street Name	014 Street Number	015 City	021 Closest Station ID	022 Distance To Closest Station [km]	023 Stories above Ground	034 Typ. Plan Shape	047 General Drawings	070 Photographs
1	Maule,Chile.2010	PLAZA DEL MAR	-33.0138	-71.5550	SAN MARTIN	787	Viña del Mar	8	1.33	23	Other	elevation.pdf typical_floor_plan_532.pdf	Launch Gallery
1	Valparaiso,Chile.1985	PLAZA DEL MAR	-33.0138	-71.5550	SAN MARTIN	787	Viña del Mar	8	3.37	23	Other	elevation.pdf typical_floor_plan_532.pdf	Launch Gallery
2	Valparaiso,Chile.1985	QUINTA CLAUDE	-	-	ALVAREZ	1926 - 2052	Viña del Mar	-	-	23	Rectangular	building_location.pdf	Launch Gallery
3	Maule,Chile.2010	TORRES DEL SOL	-33.0151	-71.5545	8 NORTE	310 - 330	Viña del Mar	8	1.18	22	Rectangular	3rd_and_5th_floor_plans_532.pdf elevation_a_and_d.pdf	Launch Gallery
3	Valparaiso,Chile.1985	TORRES DEL SOL	-33.0151	-71.5545	8 NORTE	310 - 330	Viña del Mar	8	3.32	22	Rectangular	3rd_and_5th_floor_plans_532.pdf elevation_a_and_d.pdf	Launch Gallery
4	Maule,Chile.2010	POR TAL ALAMOS	-	-	VALPARAISO	507	Viña del Mar	-	-	21	Rectangular	-	Launch Gallery
4	Valparaiso,Chile.1985	POR TAL ALAMOS	-	-	VALPARAISO	507	Viña del Mar	-	-	21	Rectangular	-	Launch Gallery



Long-Term Storage for Disaster Data

NIST-JHU PREP Project

- Adding computer science capacity to DFS via the NIST's Professional Research Experience Program (PREP)
- Two named researchers: Prof. Alex Szalay and Dr. Gerard Lemson
- Research scope: adopt data semantic standards and foster interoperability between other disaster repositories; design a public database that can easily be managed by NIST; combine traditional data management and access services with computing resources (e.g., Python and R)

Existing Repositories for Other Fields

The screenshot shows the SciServer website homepage. At the top left is the SciServer logo, which includes a globe icon. To the right of the logo is the tagline "Collaborative data-driven science". The main heading is "A new vision for science" in large white letters on a dark background. Below this is a subtitle: "A collaborative research environment for large-scale data-driven science". The version "SciServer Betelgeuse v2.1.0" is displayed in the center, and a "Login to SciServer" button is on the right. The page features six columns of navigation links: "About" (Bringing the Analysis to the Data), "Tools" (A modular system of independent components), "Hosted Datasets" (SciServer hosts more than two Petabytes of scientific data in...), "Science" (Full datasets, Common formats, Common sets of interfaces), "Education" (Building relationships with universities, institutes, and government organizations), and "Help" (Workshop supporting material, online documentation, provide feedback, report bugs).

<http://www.sciserver.org/>
(with permission from Prof. Szalay)



EL Data, Security, & Technology (ELDST)

IT Security & Privacy:
Carolyn Rowland & Andrew Mundy

Cloud services configuration & training:
Carmen Martinez

Public data collection portal:
Carmen Martinez, Tzong Hao Chen

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Data Portal for the NIST Disaster and Failure Studies Program

*** Required**

Description of data to be uploaded *

Your answer

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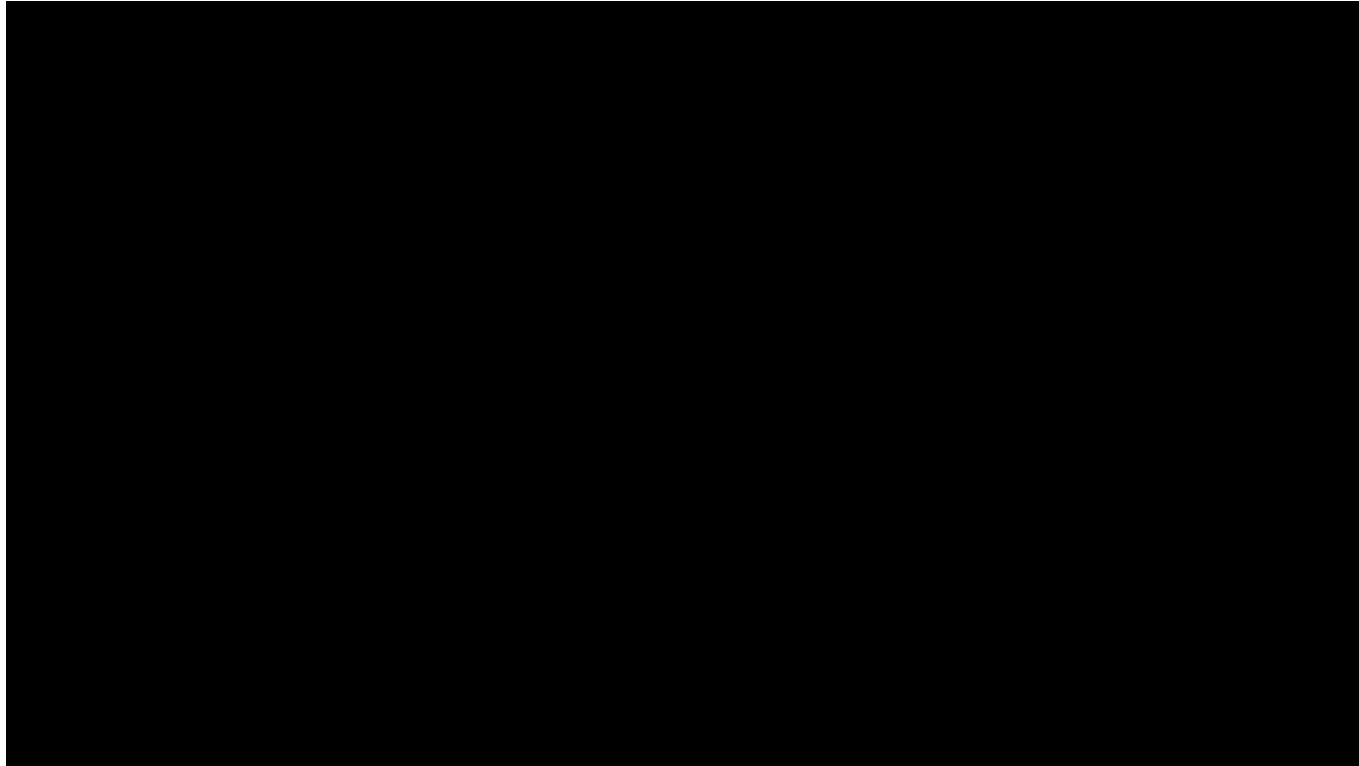
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Disaster and Failure Studies <elwebmaster@nist.gov>
Martinez, Carmen (Fed)
Thursday, September 5, 2019 at 12:35 PM
[Show Details](#)

Thank you for participating in the NIST Disaster and Failure Studies Program. The link below takes you to our portal where you can upload files you intend to share with us. The link will expire within one hour, at **2019-09-05 13:39:57-04:00 [US/Eastern]**. You may also delete files you uploaded before the link expires. If there are files you uploaded but would like to delete after this link has expired, please [contact us](#) within 24 hours for assistance. If you did not request to upload files, you may safely ignore this email.

The dataset you registered to upload:

- **Event:** Hurricane Maria
- **Description:** Map, Images, PDFs
- **Owner:** Carmen Martinez

You agreed to give permissions for this upload:

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- **[No]** Published in Study Reports, Briefings, or Presentations
- **[Yes]** Create Derivative Works

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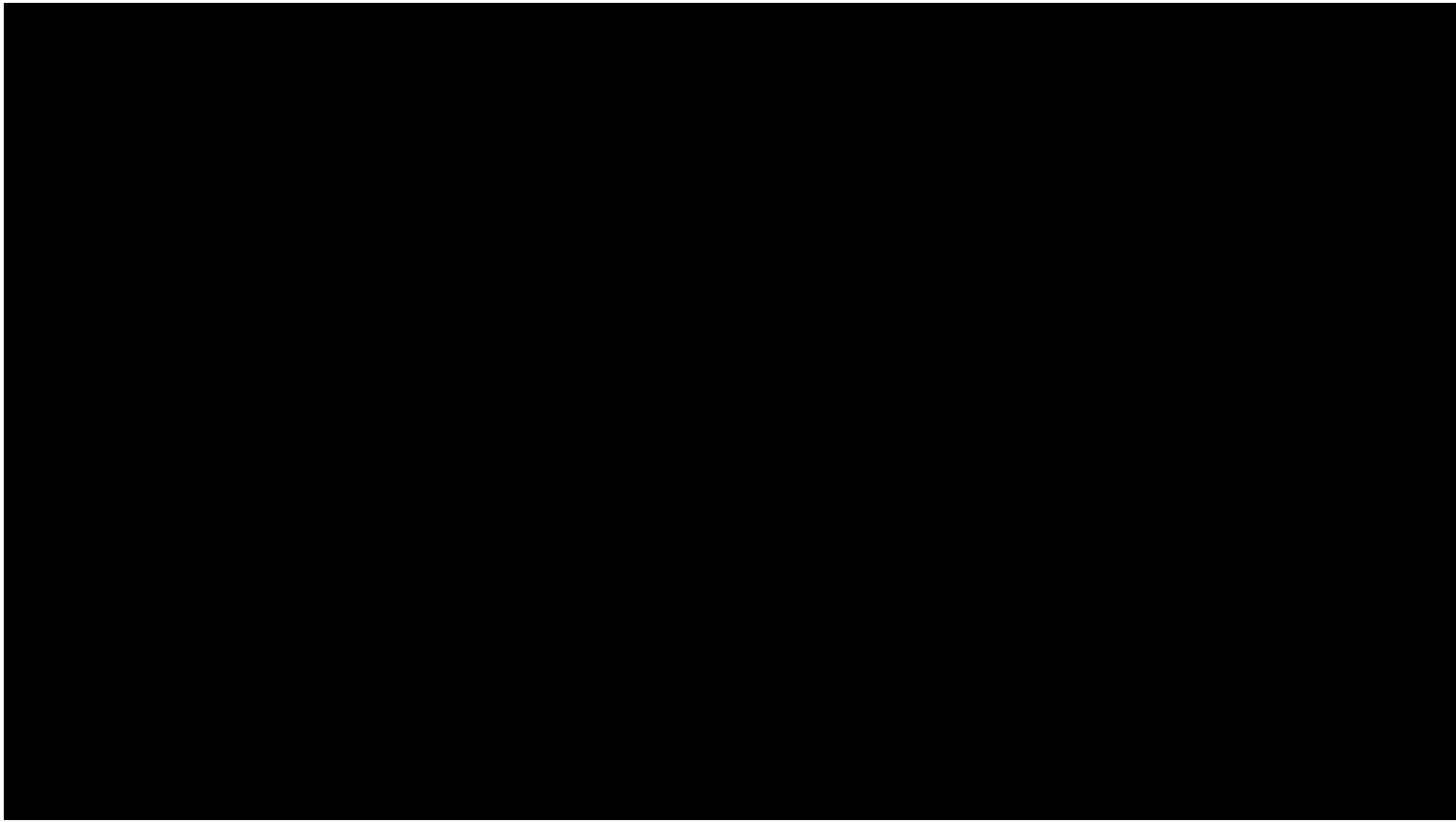
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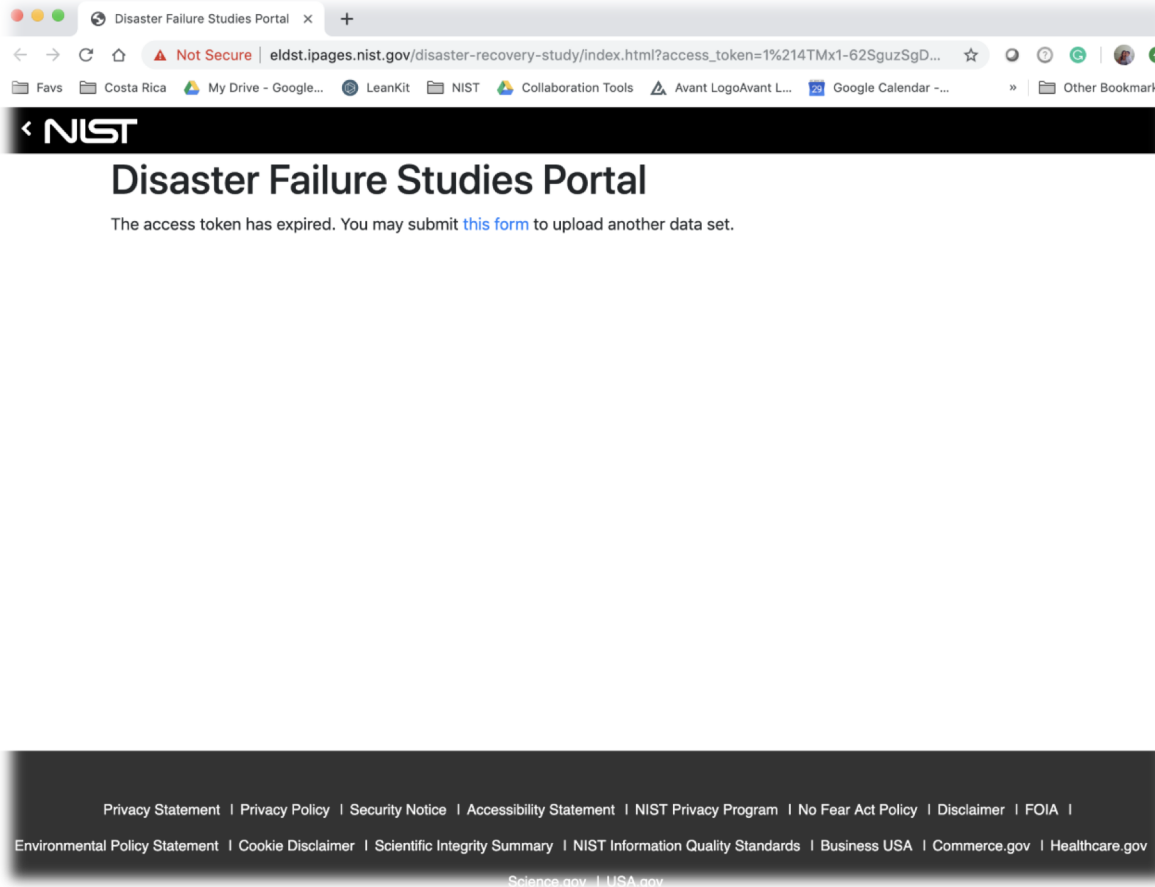
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***Available in Spanish



Thank you

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