

La curación digital como pasos interactivos: La experiencia de DesignSafe-CI

Ciencia Abierta, Universidad Nacional de Rosario,
Argentina
18 de Noviembre, 2020
Maria Esteva

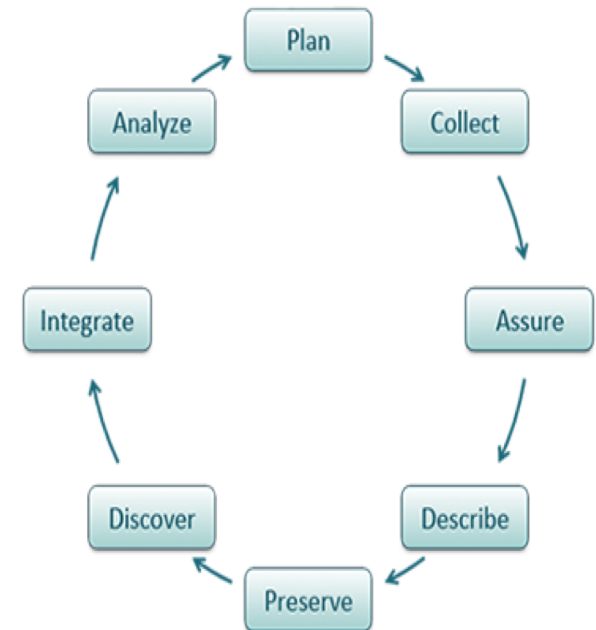
Curación de datos

- Curación se origina en el contexto de los museos.
- Conocimiento de dominio.
- En el contexto de acceso abierto y datos digitales es una actividad interdisciplinaria con muchos elementos de la tradición archivística.
- Incluye:
 - organizar, describir, preservar publicar, proteger la privacidad y la confidencialidad, facilitar el descubrimiento el acceso y la reutilización de los datos.



Curación digital

- Agrega valor académico a los datos digitales.
- Los datos forman parte del registro científico.
- Evidencia y validez de la actividad de investigación.
- Permanencia, autenticidad, e integridad.
- Proveniencia, descripción y contexto.
- Proceso único.
- Datos como **representación** del proceso de investigación.



Modelo del ciclo de vida de los datos. DataOne

Desafíos de la representación de los datos.

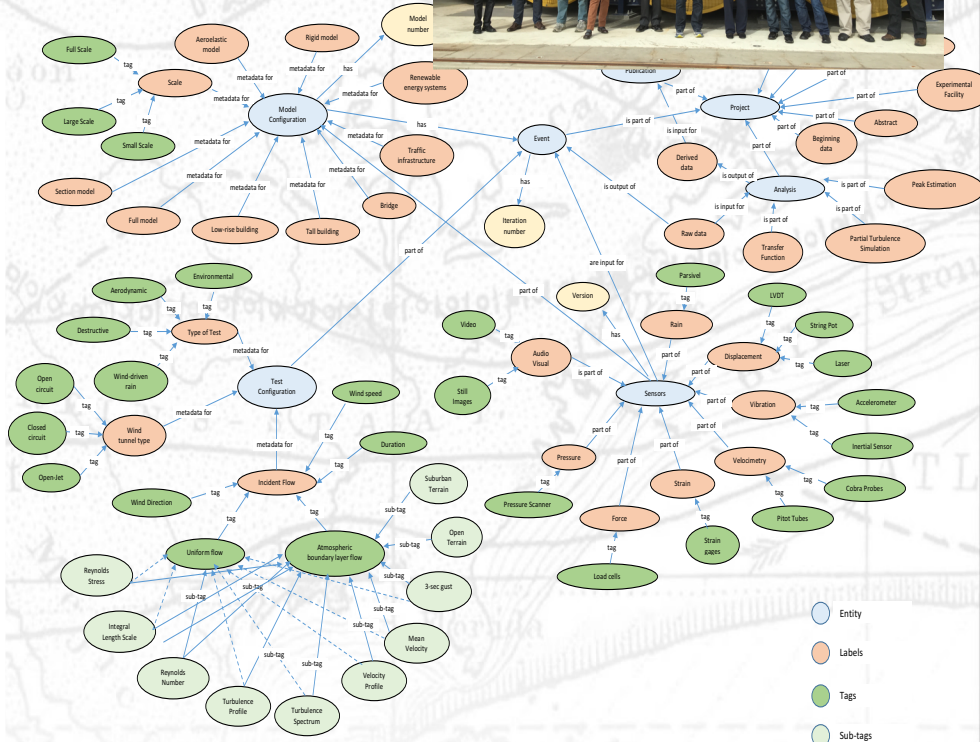
- Diversidad de disciplinas y métodos de investigación.
- Auto-publicación.
- Estándares descriptivos.
- Motivación y conocimientos.
- Grandes cantidades de datos.
- Reflejar distintos pasos y métodos de investigación.
- Calidad de datos y metadatos.
- Entendimiento y reutilización.

The screenshot displays the Harvard DataVerse website. At the top, the Harvard logo and navigation links (Add Data, Search, About, User Guide, Support, Sign Up, Log In) are visible. The main content area shows the dataset title "Study of Earthquake Effects: Los Angeles and Sylmar, 1971 (M174V1)" with a "Version 1.0" label. Below the title, there is a "Cite Dataset" button and a link to "Learn about Data Citation Standards." A "Dataset Metrics" box indicates "90 Downloads". The "Description" section provides a summary of the study, mentioning it was conducted with individuals living in the area immediately bordering the earthquake damaged hospitals in both Sylmar, and Los Angeles California. The "Subject" is listed as "Social Sciences". The "Related Publication" section lists two references: 1) Turner, Ralph H. Earthquake threat: The human response in Southern California. Institute for Social Science Research, University of California, Los Angeles, 1979. 2) Benfer, Neil A., and Jerry L. Coffman, eds. San Fernando, California, Earthquake of February 9, 1971: Effects on building structures. 2 v. Vol. 1. US Department of Commerce, National Oceanic and Atmospheric Administration, 1973. The "Notes" section contains detailed information about the data collection process and the use of the Data-PASS system. At the bottom, there is a "Files" section with a search bar and a list of files. The files listed include "DTA050.fie080.EARTHQK1", "DTA050.fie082.EARTHQK2", "DTA050.fie083.SPSSSETUP", "DTA199.fie0158.M174.PDF", and "DTA900.fie0256.earthqk1.sps". Each file entry shows its format, size, date, and download count, along with a "Download" button.

Harvard DataVerse, publicación de datos.

DesignSafe-CI

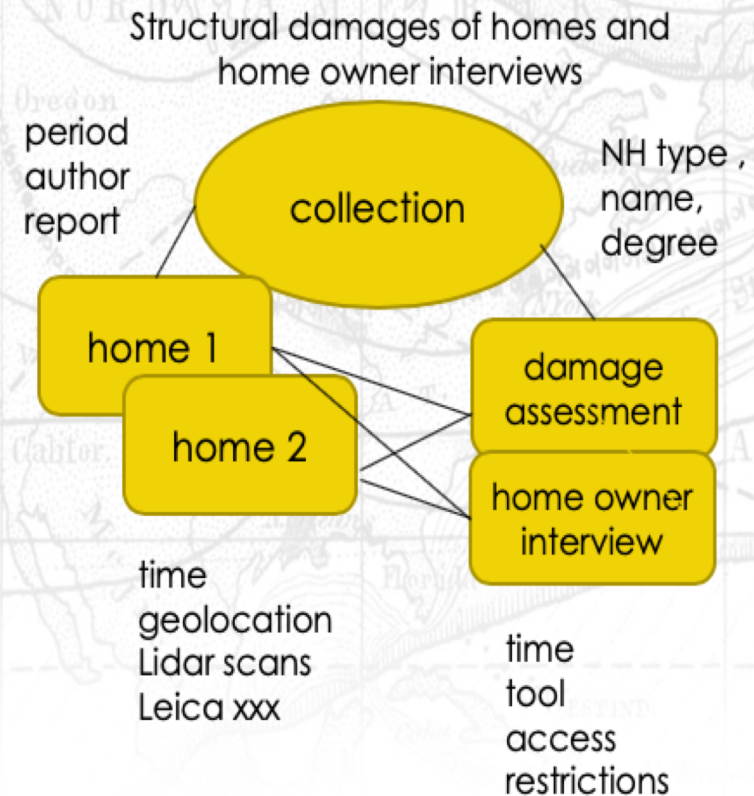
- Gestión de (grandes cantidades de) datos de investigación en desastres naturales.
- Ingenierías y ciencias sociales.
- Viento, terremotos, inundaciones, COVID.
- Desde el sitio/laboratorio/computadora hasta la publicación.
- Experimentos, observaciones, simulaciones, encuestas, bibliografías, informes, materiales de estudio, código, etc.
- Diversidad de formatos: lidar, data de sensores, video, datos geográficos, imágenes, encuestas, entrevistas, mediciones, etc.
- Posibilidad de procesar, analizar, y reutilizar datos.
- Incluye un repositorio – Data Depot.
- Curación interactiva para publicar los datos.
- No hay esquema de metadatos de dominio para ingeniería.
- Diferentes modelos de datos.



Modelo de datos experimentales de desastres de viento. Florida International University- WOW

Visión: investigación de campo

- Énfasis en investigación interdisciplinaria.
- Distintas perspectivas de los desastres naturales.
- Requiere el diseño de un modelo de datos.
- Trabajo conjunto con diseñador de interfaces, expertos en usabilidad y desarrolladores.
- Trabajo conjunto con especialistas de dominio que establecen requerimientos y evalúan los resultados.



Taller de requerimientos

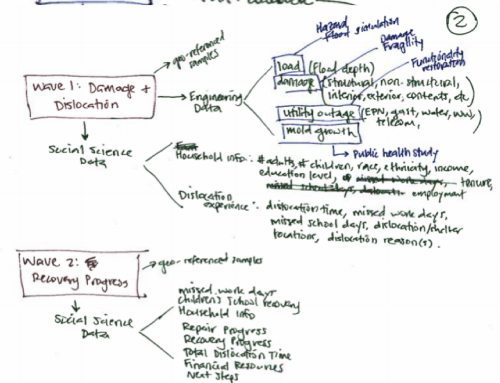
- Taller de un día para desarrollar un modelo de datos interdisciplinarios.
 - Científicos sociales e ingenieros.
 - Flujos de datos basados en experiencias de campo.
 - Información sobre tipos y cantidades de datos
 - Información sobre modalidades de investigación.
 - Ciclo de vida de la investigación.

Lumberjon Longitudinal Field Study

Engineering + Social Science
Multiple Waves of Data Collection
Multiple Focus + Data Collection Instruments + Referrals

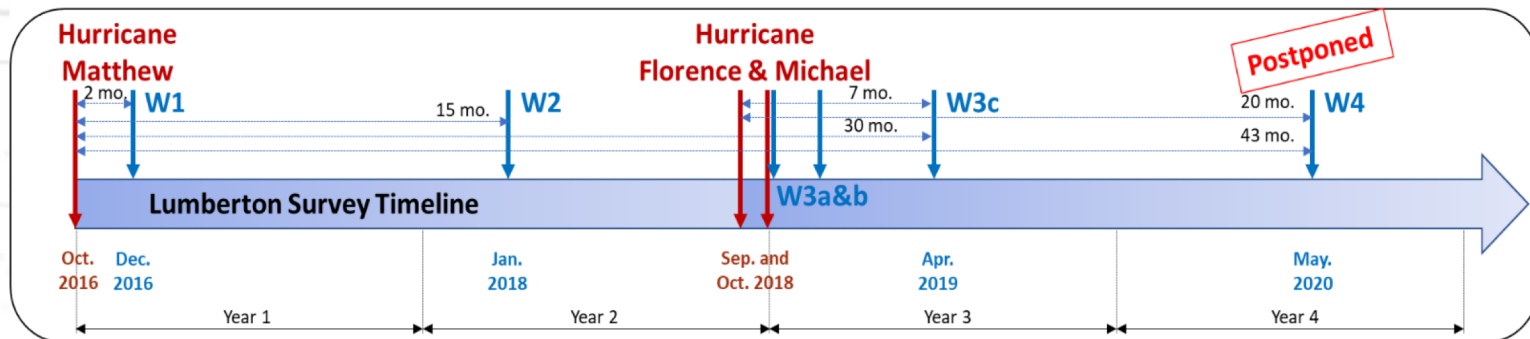


Data size



Caso de estudio: investigación de campo en Lumberton, NC.

- Un equipo interdisciplinario conduce encuestas a dueños de negocios y a habitantes de viviendas personales y evaluación de daños en las estructuras.
- Estudio longitudinal iniciado en 2016.

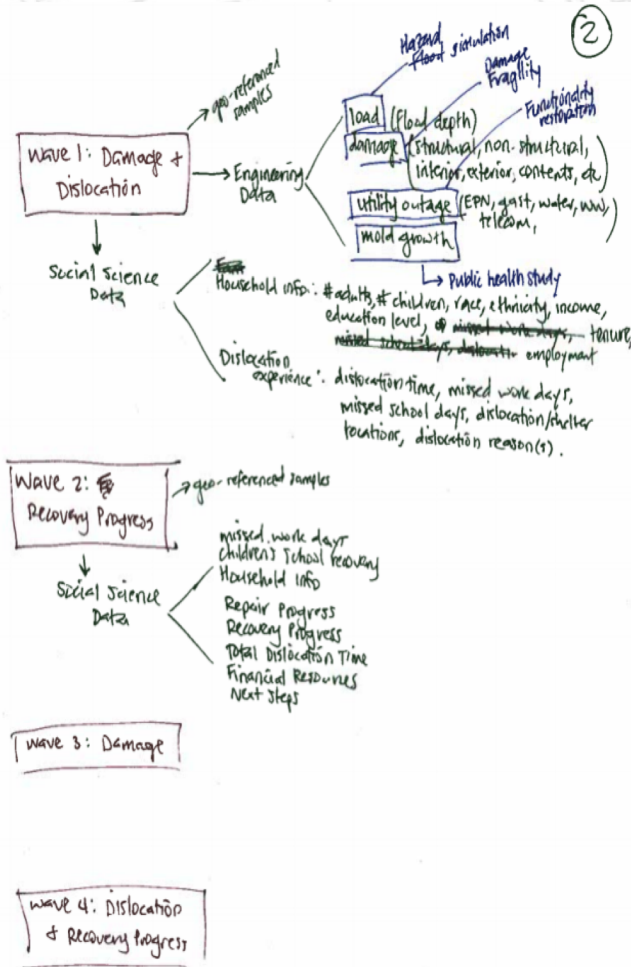


Integrar ciencias sociales e ingeniería

- Métodos de investigación cuantitativos y cualitativos.
- Diferentes estándares de metadatos.
- Datos abiertos y datos personales y sensibles.
- Formatos y cantidades diferentes.
- Distintos compromisos de publicación.
- Tiempos diferentes:
 - Estudios longitudinales.
 - Datos perecederos.
- Distintos actores en tiempo y espacio.
- Reconciliación de vocabularios
 - Wave/ola = misión

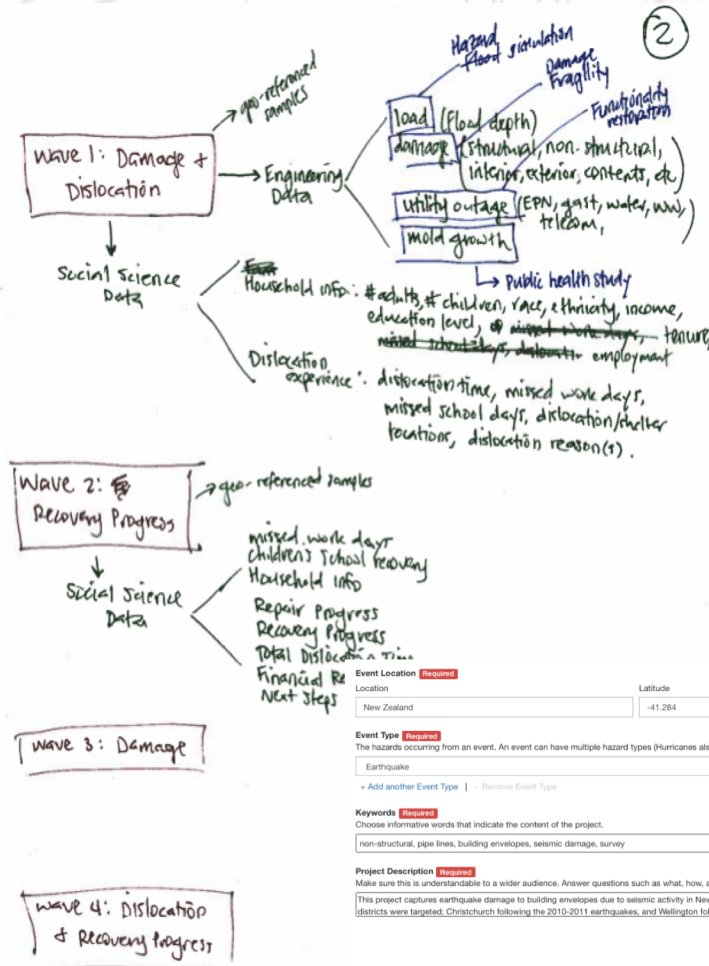


Modelo de datos



- Proyecto de investigación de campo.
- Tiene documentos de planificación.
 - Cita por instrumento o informe de avance.
- Tiene una o mas misiones.
 - Cita por misión.
- Tiene una o mas colecciones
 - De ingeniería
 - Metadatos/vocabularios aportados por la comunidad.
 - DublinCore
 - PROV
 - De ciencias sociales
 - DDI – Data Documentation Initiative

Del modelo de datos a la interfaz



My Data

My Projects

Shared with Me

Box.com

Dropbox.com

Google Drive

Published

Community Data

Help

PRJ-2656 | A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016 [Edit Project](#)

PI **Van De Lindt, John**

Project Type **Field Research**

Event **Hurricane Matthew | Lumberton, NC | 10-03-2016 — 10-23-2016 | Lat 34.627222 Long -79.011944**

Event Type **Center for Risk-Based Community Resilience Planning - NIST-70NANB15H044**

Awards **The Lumberton, North Carolina Flood of 2016: A Community Resilience Focused Technical Investigation**

Related Work **Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: An Interdisciplinary Approach**

Keywords **Field Research Planning, Community Resilience, Longitudinal, Survey Instruments, Sample Frame, IRB Documents**

In early October 2016, Hurricane Matthew crossed North Carolina as a Category 1 storm, with some areas receiving 0.38 m to 0.46 m (15 to 18 in) of rainfall on already saturated soil. The National Institute of Standards and Technology (NIST) funded Center for Risk-Based Community Resilience Planning, teamed with researchers from NIST's Engineering Laboratory (Disaster and Failure Studies Program, Community Resilience Group, and the Applied Economics Office) to conduct a quick response field study to document the initial damage and disruption in the small city of Lumberton, NC caused by the flooding they experienced from the Lumber River. Lumberton is a racially diverse community with higher than average poverty and unemployment rates, a typical civil infrastructure for a city of 22,000 residents, and possesses a small-community structured governance. The November 2016 field study was the first of a series in a longitudinal study to document and better understand the impact that the riverine flooding had on Lumberton and its subsequent recovery. This type of longitudinal research is critical to better understand community resilience and ultimately provide data and insight into making U.S. communities more resilient to natural hazards. This research is the first application of a combined engineering-social science field study protocol that provides a quantitative linkage between flood damage and socioeconomic, including race, ethnicity, income, tenancy status, and education level. The planning documents archived comprise the field study's housing unit-level surveys including the damage-based and household disruption-based field study instruments. Material collected are designed to support the Interdependent Networked Community Resilience Modeling Environment (IN-CORE). IN-CORE is the primary deliverable of the Center for Risk-Based Community Resilience Planning a NIST-funded Center of Excellence. For more details visit http://resilience.colostate.edu/in_core.shtml The perishable nature of natural hazards research requires that teams can quickly organize their efforts before entering the field. This archive is designed to help future research teams with example documents that may help reduce the amount of time needed to invest in project development. This archive does not contain Personally Identifiable Information.

[Working Directory](#) [Curation Directory](#)

[Publication Preview](#)

[View Data Diagram](#)

Documents | **Household Survey Instrument, November 26, 2016: Wave 1**

Documents | **Building Damage Survey Instrument, November 26, 2016: Wave 1**

Documents | **Protocol: Institutional Review Board Wave 1**

Mission | **Wave 1**

Author(s) **Rosenheim, Nathanael**

Date(s) of Mission **11-27-2016 — 12-04-2016**

Site Location **Lumberton North Carolina | Lat 34.6182° N Long 79.0086°**

Date of Publication **(Appears when published)**

DOI **(Appears when published)**

License(s) **(Appears when published)**

TBD

Engineering/Geosciences Collection | Building Damage Survey

Research Planning Collection | Site Selection

Social Sciences Collection | Household Survey

Documents | **Business Survey Instrument, January 2016: Wave 2**

Documents | **Institutional Review Board Protocol 2020**

[Update Project](#)

[Prepare to Publish](#)

Data Diagram

PRJ-2656 | A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016

Research Wave

Documents | Household Survey Instrument, November 26, 2016: Wave 1

Documents | Building Damage Survey Instrument, November 26, 2016: Wave 1

Documents | Protocol: Institutional Review Board Wave 1

Mission Wave 1

Research Planning Collection | Site Selection

Social Sciences Collection | Household Survey

Engineering/Geosciences Collection | Building Damage Survey

Documents | Business Survey Instrument, January 2016: Wave 2

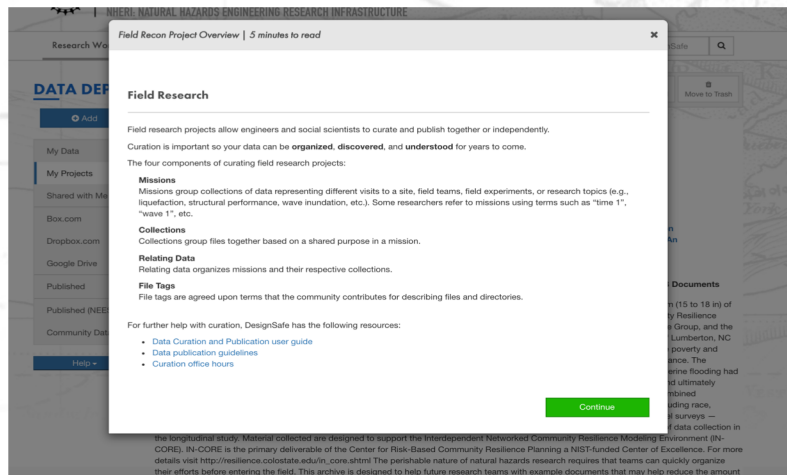
Documents | Institutional Review Board Protocol 2020

[Help](#)

unemployment rates, a typical civil infrastructure for a city of 22,000 residents, and possesses a small-community structure. The November 2016 field study was the first of a series in a longitudinal study to document and better understand the impact that the riverine flooding had on Lumberton and its subsequent recovery. This type of longitudinal research is critical to better understand community resilience and ultimately provide data and insight into making U.S. communities more resilient to natural hazards. This research is the first application of a combined engineering-social science field study protocol that provides a quantitative linkage between flood damage and socioeconomic, including race, ethnicity, income, tenancy status, and education level. The planning documents archived comprise the field study's housing unit-level surveys including the damage-based and household disruption-based field study instruments. Material collected are designed to support the Interdependent Networked Community Resilience Modeling Environment (IN-CORE). IN-CORE is the primary deliverable of the Center for Risk-Based Community Resilience Planning a NIST-funded Center of Excellence. For more details visit http://resilience.colostate.edu/in_core.shtml The perishable nature of natural hazards research requires that teams can quickly organize their efforts before entering the field. This archive is designed to help future research teams with example documents that may help reduce the amount of time needed to invest in project development. This archive does not contain Personally Identifiable Information.

Curación interactiva

- Con ayuda incorporada para guiar al usuario durante el proceso.
- Sugiere contenidos para llenar campos
- Sugiere formas de organizar los datos.
- Indica las categorías esenciales para una publicación completa.
- Señala campos obligatorios.
- Usa vocabularios controlados y comunitarios.
- Facilita procesos reiterativos.



Change Project Type



For work done by observation in areas affected by a natural hazard.

Field Research Project

Project type **Required**

A longitudinal community resilience focused technical investigation of the Lumberton, North Carolina Flood of 2018

Incorporate the project's focus with words indicating the hazard, model, system, and research approach. Define all acronyms.

Project title **Required**

Curación interactiva: organizando y describiendo

Project Title Required
Incorporate the project's focus with words indicating the hazard, model, system, and research approach. Define all acronyms.
New Zealand Earthquake-Damaged Building Envelopes: Photographs from Christchurch and Wellington

Project Type Required
 Field Research Project
For work done by observation in areas affected by a natural hazard.
[Change Project Type](#)

Principal Investigators (PI) Required
These users can view, edit, curate, and publish. Include Co-PIs.
Dave Edkins (ded001)
[+ Add another PI](#) | [-- Remove PI](#)

Project Members
These users can view, edit, curate, and publish.

[+ Add another Project Member](#) | [-- Remove Project Member](#)

Unregistered Members
Add members without a DesignSafe account. These names can be selected as authors during the publication process.
First Name Last Name Email Institution
[+ Add another Unregistered Project Member](#) | [-- Remove Unregistered Project Member](#)

Award Info
Recommended for funded projects.
Award Name Award Number
[+ Add another Award](#) | [-- Remove Award](#)

Related Work
Other projects, publications, or datasets related to this project.
Title Related Work DOI or URL
[+ Add another Related Work](#) | [-- Remove Related Work](#)

Event Required
Name given to the event (ex.
Hurricane Katrina)
Christchurch Earthquake, Wellington Earthquake

Event Date(s) Required
If you only want to enter a single date, fill in the first field.
09-03-2010 - 11-13-2016

Event Location Required
Location Latitude Longitude
New Zealand -41.284 174.7682

Add Missions

Mission Title Required
Different from the Project Title. Make it focused on the methods used to obtain the data.

Event
The event to which the mission is associated.

Date(s) of Mission Required
The entire time spent deployed on the mission. If you only want to enter a single date, fill in the first field.
mm-dd-yyyy - mm-dd-yyyy

Assign Authorship Required
You can order the authors during the publication process.
☐ Edkins, Dave

Mission Site Location Required
Geolocation Latitude Longitude

Mission Description Required
What types of damages and structures/natural features were observed? What methods were used to gather the data?

[+ Add Mission](#)

Add Collections

Collection Type Required
[Research Planning Collection](#) Groups files related to planning and logistics, administration, design, institutional review board (IRB), or permits.
[Engineering/Geosciences Collection](#) Groups related data from the engineering/geosciences domain.
[Social Sciences Collection](#) Groups related data from the social sciences domain.
[Documents Collection](#) Can include instruments, protocols, and different reports (Virtual Recon, Field Assessment, Preliminary Virtual Assessment, etc). These documents are published separately with their own DOI.
-- Select Collection Type --

Collection Inventory

[Social Sciences Collection | Household Survey](#)

Unit of Analysis	Housing Unit
Mode(s) of Collection	
Sampling Approach(es)	2-stage non-proportional stratified sampling
Sample Size	662
Date(s) of Collection	11-27-2016 -- 12-04-2016
Data Collector(s)	Rosenheim, Nathanael Peacock, Walter
Site Location	Lumberton North Carolina Lat 34.6182° N Long 79.0066° W
Equipment	Pen and Paper
Restriction	None
TBD	

[Edit](#) | [Delete](#)

[Engineering/Geosciences Collection | Building Damage Survey](#)

Observation Type(s)	Structural
Date(s) of Collection	11-27-2016
Data Collector(s)	Deniz, Derya
Site Location	Lumberton North Carolina Lat 34.6182° N Long 79.0066° W
Equipment	Tape Measure Pen and Paper Digital Camera
TBD	

[Edit](#) | [Delete](#)

[Research Planning Collection | Institutional Review Board Protocol 2020](#)

[Research Planning Collection | Site Selection](#)

[Documents Collection | Building Damage Survey Instrument, November 26, 2016: Wave 1](#)

- Proyecto y misiones contienen información común a ambas disciplinas.
- Las colecciones tienen metadatos según la disciplina.
- Ayuda incorporada.

Curación interactiva: espacios y categorías

their efforts before entering the field. This archive is designed to help future research teams with example documents that may help reduce the amount of time needed to invest in project development. This archive does not contain Personally Identifiable Information.

[Working Directory](#) [Curation Directory](#) [Publication Preview](#)

PRJ-2656

☒ Name	Size	Last modified
☐ Admin_InternalFiles	--	5/27/20 2:28 PM
☐ IRB_Protocol	--	6/4/20 9:16 AM
☐ Trash	--	9/22/20 3:41 PM
☐ Wave1	--	9/17/20 1:59 PM
☐ Wave2	--	7/7/20 8:51 AM



Espacios de trabajo

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[Working Directory](#) [Curation Directory](#) [Publication Preview](#) [1 Add Missions](#) | [2 Add Collections](#) | [3 Relate Data](#)

PRJ-2656

☒ Name	Size	Last modified
☐ Admin_InternalFiles -- Select a Collection -- Save	--	5/27/20 2:28 PM
☐ IRB_Protocol -- Select a Collection -- Save	--	6/4/20 9:16 AM
☐ Trash -- Select a Collection -- Save	--	9/22/20 3:41 PM
☐ Wave1 -- Select a Collection -- Save	--	9/17/20 1:59 PM

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[Working Directory](#) [Curation Directory](#) [Publication Preview](#) [1 Add Missions](#) | [2 Add Collections](#) | [3 Relate Data](#)

PRJ-2656 / IRB_Protocol

☒ Name	Size	Last modified
☐ INCORE_IRB_Protocol_2020.pdf Institutional Review Board Protocol 2020 Remove Protocol Remove	237.9 kB	6/4/20 9:16 AM
☒ -- Select a Collection -- Social Sciences Collections Household Survey Engineering/Geosciences Collection Building Damage Survey Research Planning Collections Institutional Review Board Protocol 2020 Site Selection Documents Collection Building Damage Survey Instrument, November 26, 2016: Wave 1 Business Survey Instrument, January 19, 2018: Wave 2 Household Survey Instrument, January 19, 2018: Wave 2 Household Survey Instrument, November 26, 2016: Wave 1 Institutional Review Board Protocol 2020	Search Planning File Tag Save Remove Document File Tag -- Save	

Categorización

Curación interactiva: descripción

Research Workbench ▾ Learning Center ▾ NHERI Facilities ▾ NHERI Community ▾ About ▾ Help ▾

Search DesignSafe 🔍

Workbench ▾ Learning Center ▾ NHERI Facilities ▾ NHERI Community ▾ About ▾ Help ▾

Search DesignSafe 🔍

Published (1/2/20)

Community Data

Help ▾

rainfall on already saturated soil. The National Institute of Standards and Technology (NIST) funded Center for Risk-Based Community Resilience Planning, teamed with researchers from NIST's Engineering Laboratory (Disaster and Failure Studies Program, Community Resilience Group, and Applied Economics Office) to conduct a quick response field study to document the initial damage and disruption in the small city of Lumberton, NC caused by the flooding they experienced from the Lumber River. Lumberton is a racially diverse community with higher than average poverty and unemployment rates, a typical civil infrastructure for a city of 22,000 residents, and possesses a small-community structured governance. The November 2016 field study was the first of a series in a longitudinal study to document and better understand the impact that the riverine flooding on Lumberton and its subsequent recovery. This type of longitudinal research is critical to better understand community resilience and ultimately provide data and insight into making U.S. communities more resilient to natural hazards. This research is the first application of a combined engineering-social science field study protocol that provides a quantitative linkage between flood damage and socioeconomic, including race, ethnicity, income, tenancy status, and education level. The planning documents archived comprise the field study's housing unit-level surveys — including the damage-based and household disruption-based field study instruments — and business-level surveys for each wave of data collection in the longitudinal study. Material collected are designed to support the Interdependent Networked Community Resilience Modeling Environment (IN CORE). IN-CORE is the primary deliverable of the Center for Risk-Based Community Resilience Planning a NIST-funded Center of Excellence. For details visit http://resilience.colostate.edu/in_core.shtml The perishable nature of natural hazards research requires that teams can quickly organize their efforts before entering the field. This archive is designed to help future research teams with example documents that may help reduce the amount of time needed to invest in project development. This archive does not contain Personally Identifiable Information.

Working Directory Curation Directory Publication Preview 1 Add Missions | 2 Add Collections | 3 Relate Data

PRJ-2656 / IRB_Protocol

☒ Name

☐ INCORE_IRB_Protocol_2020.pdf

Institutional Review Board Protocol 2020 Remove

☐ INCORE_IRB_Protocol_2020.pdf

Institutional Review Board Protocol 2020 Remove

-- Select a Collection --

Save

-- Select a Research Planning File Tag --

General

Other

Consent Forms

☒ Data Management Plan

IRB Application

Letters of Support

Planning Document

Permits

Protocol

Quality Assurance Plan

Report

Reflexivity Report

Team Training

Size

Last modified

237.9 kB

6/4/20 9:16 AM

DesignSafe-CI is supported by multiple grants from the National Science Foundation:

Documents | Household Survey Instrument, November 26, 2016: Wave 1

Author(s) Peacock, Walter; Rosenheim, Nathanael; Gu, Donghwan; Van Zandt, Shannon; Peek, Lori; Dillard, Maria; Tobin, Jennifer; Hamideh, Sara

Date of Publication 09-25-2020

DOI [10.17603/ds2-pmt9-1s33](#)

License(s) Creative Commons Attribution Share Alike

This collection archives instruments and planning materials related to the household survey for Wave 1 of the Lumberton, NC Field Study conducted by the Center for Risk-Based Community Resilience Planning, a NIST-funded Center of Excellence. The instrument was designed to gather specific types of information on the household (social) that occupied the housing unit at the time of the flooding. The household survey instrument was designed to collect information on a number of features of the housing unit's occupancy status, either based on determinations made by the interviewing team or on the basis of information obtained from surrounding neighbors, property managers (or some other source), or adult members of the occupying household. The survey instrument was designed to collect information on: (1) disruption of major lifeline utilities (e.g., electricity, natural gas, and water) and communications (phone and internet), (2) an enumeration of household members along with basic demographic information (gender and age), (3) displacement/displacement with respect to each household member, (4) employment and student status of each member, (5) amount of time each member missed work or school, (6) if others joined the household due to the flooding, (7) tenure status (i.e., rental vs owner), (8) applications to disaster assistance programs (insurance, FEMA, SBA), and (9) additional household socioeconomic and -demographics (e.g., highest education status, race/ethnicity, and annual income).

☒ Name	Size	Last modified
☐ INCORE_HouseholdSurveyDataEntry_2016-11-26.pdf Instrument, Data Entry, Google Form	-	--
☐ INCORE_HouseholdSurveyForm_2016-11-26.docx Instrument, Paper Form	-	--
☐ INCORE_HouseholdSurveyForm_2016-11-26.pdf Instrument, Paper Form	-	--
☐ INCORE_HouseholdSurveyReadMe_2020-04-29.pdf README, Document Dictionary	-	--
☐ INCORE_HouseholdSurveyReadMe_2020-05-27.pdf README, Document Dictionary	-	--
☐ INCORE_HouseholdSurveyVariables_2016-11-26.xlsx Instrument, Variable List	-	--

Documents | Building Damage Survey Instrument, November 26, 2016: Wave 1

Documents | Household Survey Instrument, January 19, 2018: Wave 2

Documents | Business Survey Instrument, January 19, 2018: Wave 2

DESIGNSAFE-CI
A NATURAL HAZARDS
ENGINEERING COMMUNITY

 **TEXAS**
The University of Texas at Austin

TACC

RICE

Florida Tech

Curación interactiva: relaciones

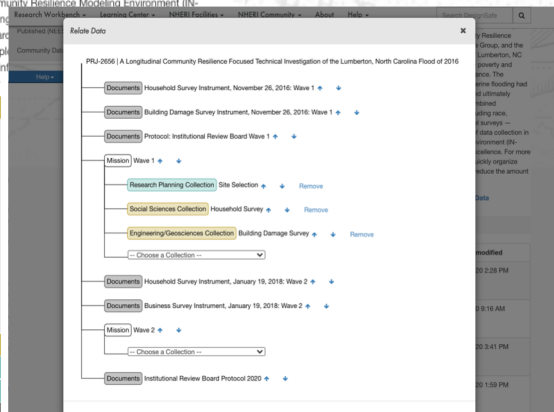
PRJ-2656 | A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016 [Edit Project](#)

PI Van De Lindt, John
Project Type Field Research [View Overview](#)
Event Hurricane Matthew | Lumberton, NC | 10-03-2016 — 10-23-2016 | [Lat 34.627222 Long -79.011944](#)
Event Type Hurricane, River Flood
Awards Center for Risk-Based Community Resilience Planning - NIST-70NANB15H044
Related Work [The Lumberton, North Carolina Flood of 2016: A Community Resilience Focused Technical Investigation](#)
[Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: An Interdisciplinary Approach](#)
[Importance of Households in Business Disaster Recovery](#)
[Quantifying post-disaster business recovery through Bayesian methods](#)
Keywords Field Research Planning, Community Resilience, Longitudinal, Survey Instruments, Sample Frame, IRB Documents

In early October 2016, Hurricane Matthew crossed North Carolina as a Category 1 storm, with some areas receiving 0.38 m to 0.46 m (15 to 18 in) of rainfall on already saturated soil. The National Institute of Standards and Technology (NIST) funded Center for Risk-Based Community Resilience Planning, teamed with researchers from NIST's Engineering Laboratory (Disaster and Failure Studies Program, Community Resilience Group, and the Applied Economics Office) to conduct a quick response field study to document the initial damage and disruption in the small city of Lumberton, NC caused by the flooding they experienced from the Lumber River. Lumberton is a racially diverse community with higher than average poverty and unemployment rates, a typical civil infrastructure for a city of 22,000 residents, and possesses a small-community structured governance. The November 2016 field study was the first of a series in a longitudinal study to document and better understand the impact that the riverine flooding had on Lumberton and its subsequent recovery. This type of longitudinal research is critical to better understand community resilience and ultimately provide data and insight into making U.S. communities more resilient to natural hazards. This research is the first application of a combined engineering-social science field study protocol that provides a quantitative linkage between flood damage and socioeconomic, including race, ethnicity, income, tenancy status, and education level. The planning documents archived comprise the field study's housing unit-level surveys — including the damage-based and household disruption-based field study instruments — and business-level surveys for each wave of data collection in the longitudinal study. Material collected are designed to support the Interdependent Networked Community Resilience Modeling Environment (IN-CORE). IN-CORE is the primary deliverable of the Center for Risk-Based Community Resilience Planning details visit http://resilience.colostate.edu/in_core.shtml The perishable nature of natural hazards research efforts before entering the field. This archive is designed to help future research teams with examples of time needed to invest in project development. This archive does not contain Personally Identifiable Information.

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Referenced Data	
TBD	
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Engineering/Geosciences Collection Building Damage Survey	
Research Planning Collection Institutional Review Board Protocol 2020	☒
Research Planning Collection Site Selection	☒
Documents Collection Building Damage Survey Instrument, November 26, 2016: Wave 1	☒
Documents Collection Business Survey Instrument, January 19, 2018: Wave 2	☒
Documents Collection Household Survey Instrument, January 19, 2018: Wave 2	☒
Documents Collection Household Survey Instrument, November 26, 2016: Wave 1	☒
Documents Collection Institutional Review Board Protocol 2020	☒
Documents Collection Protocol Institutional Review Board Wave 1	☒



- Mostrar el proceso de investigación, sus grupos y dependencias.
- Mostrar relación con otros recursos. (contexto)
- Mostrar relación con datos reutilizados. (proveniencia)

Proceso de publicación

- Selección/verificación de archivos.
- Selección de autores y su orden.
- Edición/revisión.
- Licencias.
- DOI
- Citas.
- Metadatos requeridos.
- Datos completos.
- Compromisos de las partes.

The screenshot shows the 'Add' page of the Data Commons publication workflow. On the left is a sidebar with navigation links: 'My Data', 'My Projects' (selected), 'Shared with Me', 'Box.com', 'Dropbox.com', 'Google Drive', 'Published', 'Published (NEES)', and 'Community Data'. The main content area has a top navigation bar with steps: 'Selection' (active), 'Proofread Project', 'Proofread Mission', 'Proofread Collections', 'Order Authors', and 'Licenses'. Below this is a 'Continue' button. A red alert box states 'Your Selection is Incomplete!' and lists missing requirements for three collections: Research Planning Collection Site Selection, Social Sciences Collection Household Survey, and Engineering/Geosciences Collection Building Damage Survey. Below the alert, a section titled 'Select what you want to publish' provides instructions and lists two reports for selection: 'Household Survey Instrument, November 26, 2016: Wave 1' and 'Building Damage Survey Instrument, November 26, 2016: Wave 1', each with a checkbox.

Peacock, W. Rosenheim, N. Gu, D. Van Zandt, S. Peek, L. Dillard, M. Tobin, J. Hamideh, S. (2020) "Household Survey Instrument, November 26, 2016: Wave 1", in *A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016*. DesignSafe-CI. <https://doi.org/10.17603/ds2-pmt9-1s33>.

Búsquedas

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DESIGNSAFE-CI
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Author	Title	Keyword	Description
☐ Experimental	☐ Simulation	☒ Field Research	☐ Other
☐ Hybrid Simulation			
Experiment Facility	Simulation Type	Natural Hazard Type	Data Type
All Types	All Types	Hurricane	All Types
Experiment Type	Natural Hazard Event		
All Types			
Less Options		Clear Filters	Search

Project Title	Project PI	Project Description	Keywords	Date of Publication
STEER - Hurricane Eta (Field Research)	David, Roueche	View Description	STEER, virtual reconnaissance, hurricane, Hurricane Eta, Nicaragua, Honduras, Central America, North Carolina, event briefing	11/14/2020
STEER - Hurricane Zeta (Field Research)	Tracy, Kijewski-Correa	View Description	STEER, virtual reconnaissance, hurricane, Hurricane Zeta, Louisiana, Mississippi, event briefing	11/8/2020
Galveston Recovery from 2008 Hurricane Ike - A "Living Laboratory" for Examining Community Recovery and Resilience After Disaster (Field Research)	Shannon, Van Sandt	View Description	Field Research Planning, Community Resilience, Epidemiological Survey	11/4/2020

lumberton dataset

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[catalog.data.gov](#) [dataset](#) [usgs-us-topo-7-5-minute-m...](#)

[USGS US Topo 7.5-minute map for Northeast Lumberton, NC ...](#)

Resource Type, **Dataset**. Metadata Date, July 23, 2019. Metadata Created Date, August 31, 2018. Metadata Updated Date, November 27, 2019. Reference ...

[catalog.data.gov](#) [dataset](#) [usgs-us-topo-7-5-minute-m...](#)

[USGS US Topo 7.5-minute map for Southeast Lumberton, NC ...](#)

Resource Type, **Dataset**. Metadata Date, March 10, 2018. Metadata Created Date, August 19, 2018. Metadata Updated Date, August 19, 2018. Reference ...

[www.ncdc.noaa.gov](#) [GHCND:USC00315177](#) [detail](#)

[Daily Summaries Station Details: LUMBERTON, NC US ...](#)

Daily Summaries Station Details:LUMBERTON, NC US, GHCND:USC00315177. ... The date range changes based on the selected dataset. Select the date ...

[climate.ncsu.edu](#) [cronos](#)

[Weather and Climate Database | North Carolina Climate Office](#)

City, State: Lumberton, NC County: Robeson County. Latitude: 34.60992° Longitude: -79.05944°. Elevation: 126 feet above sea level. Climate Division: NC06 ...

[www.designsafe-ci.org](#) [browser](#) [public](#) [PRJ-2656](#)

[A Longitudinal Community Resilience Focused ... - DesignSafe](#)

Lumberton is a racially diverse community with higher than average poverty and ... of the Lumberton, North Carolina Flood of 2016 Download **Dataset** ...



Evaluación de la interfaz

- Entrevistas de quince minutos:
- Interacción/demo de la interfaz.
- Como se ajusta este diseño a tu trabajo?

70 participantes de las diferentes áreas de desastres naturales.

Sobre la perspectiva interdisciplinaria:

"Social science is the "why" in our work. Why are we doing anything? People exist and use civil infrastructure. So the social science informs the "why" of our work...."

"I'm interested in putting everything into one place, where I see the infrastructure and I see the human aspect."

"I think that having it [participant's current interdisciplinary project] available in a format like this would be very helpful."

"This is exciting to have a space that gets traffic and people would be able to connect to other projects that are similar."

"I could also imagine this being really useful in educational setting...."

Sobre las funcionalidades:

"I think for a specific project like this it would be really nice to launch a map that shows all this data. And then here's what it looks like on a map, and how you can combine the damaged infrastructure and the social interviews to see how they matched up and overlapped."

"I would like to see, just like the social science collection, some plan. This is what we're doing, this is the protocols that we're using to collect that data."

"I don't know what snowball (sampling approach) is. Would there be mouse-over with a pointer to what the heck does snowball mean? Because as a structural engineer, I'm sometimes interested in what social scientists are doing, but I don't really speak their language all that well."

Ayuda y control de calidad

- Horas de oficina virtual.
- Informes y diccionarios de datos.
- Diversos grupos mantienen sus propios estándares y niveles de curación.
- Datos de proyectos concursados y aprobados por pares.

Mission | SEIER Field Assessment Structural Team (FAST)

Event: Hurricane Michael
 Author(s): Kijewski-Correa, Tracy; Roueche, David; Prevatt, David; Moravej, Mohammadtaghi; Brown, Christian; Smith, Daniel; Rawajfeh, Hadijah; Cleary, John; Ambrose, Kevin; Marshall, Justin; Palmer, Joseph; Gurley, Kurtis; Ribben, Madeline; Pinelli, Jean-Paul

Date(s) of Mission: 10-12-2018 — 10-14-2018
 Site Location: Panama City, FL | Lat 30.0800° N Long 85.6075° W
 Date of Publication: 05-18-2020
 DOI: [10.17603/ds2-saej-e227](#)
 License(s): [Open Data Commons Attribution](#)

Observing damage and documenting successful performance of buildings. Classes include residential, commercial and institutional. Methodologies include detailed damage assessments in Fulcrum, UAS and Applied StreetView.

Engineering/Geosciences Collection | SEIER: Daily Summaries

Research Planning Collection | Data Report

Data Collector(s): Kijewski-Correa, Tracy; Roueche, David; Lyda, Andrew
 This documentation set includes the Data Report that introduces (1) the team and objectives of the mission, (2) how the data was collected, including chronology and instruments/methodology, (3) how data was processed, (4) how data was organized in the corresponding DesignSafe repository, and (5) contacts for further information. The Data Report serves as a guide to the use and interpretation of the curated dataset.

☒ Name	Size	Last modified
☐ DATA REPORT - Michael.pdf	-	--

Report, Data Organization, Data Collection Methods, Data Processing Methods

Research Planning Collection | Planning Documentation

Engineering/Geosciences Collection | SEIER: Other Ground-Based Imagery

Engineering/Geosciences Collection | SEIER: Unmanned Aerial Survey

Engineering/Geosciences Collection | SEIER: Applied StreetView Technology

Engineering/Geosciences Collection | SEIER: Detailed Damage Assessments

File Preview: DATA REPORT - Michael.pdf

File Metadata

Appendix A. Buildings - Windstorm App Fields

Column	Column Header	Field	Format	Response Choices/Description	Percentage Filled
A	1	Station_ID	Text	Auto-populated	100%
B	2	status	Damage State	Single Choice 1=Minor 2=Medium 3=Severe 4=Destroyed	100%
C	3	project	Project	Text Hurricane Michael (2018)	100%
D	4	latitude	Latitude	Decimal	Auto-populated 100%
E	5	longitude	Longitude	Decimal	Auto-populated 100%
F	6	name_of_investigator	Name of Investigator	Text Andrew Kennedy Bryan Wood Brett Davis David Prevatt David Roueche Daniel Smith Dean Rusk Doug Kraft Erik Kozak Jean-Paul Pinelli John Cleary Justin Marshall Keith Cullum Kelly Turner Kurt Gurley Matt Jensen Oscar Lofortane Tim Johnson	100%

Conclusiones

- Actividad interdisciplinaria.
- Balance entre los conocimientos de dominio y de bibliotecas digitales.
- Curación en contexto e integrada con la actividad de dominio.
- Estudios de usabilidad.
- Feedback de la comunidad.
- Motivación para curar y publicar.
- Automatización de procesos de descripción y organización.
- Mas trabajo en interfaces para grandes datos.

Créditos

- Craig Jansen – diseñador de interfaces y experto en usabilidad.
- RAPID <https://rapid.designsafe-ci.org/>
- CONVERGE
<https://converge.colorado.edu/data/data-publication>
- 4 Kitchens <https://www.fourkitchens.com/>
- Este Proyecto cuenta con el apoyo de múltiples subsidies de la Fundación Nacional de Ciencias de USA (NSF) [Cyberinfrastructure](#), [CONVERGE](#).