Plan Overview

*A Data Management Plan created using DMPTool*

**DMP ID:** [https://doi.org/10.48321/D1G959](https://doi.org/10.48321/D1G959)

**Title:** Level of adoption of the R’s of circular economy in the manufacturing industry in Ciudad Juarez Chihuahua Mexico.

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**Affiliation:** Universidad Autónoma de Ciudad Juárez (uacj.mx)

**Principal Investigator:** Sixta Cobos Floriano

**Data Manager:** Sixta Cobos Floriano

**Project Administrator:** Sixta Cobos Floriano, Blanca Lidia Márquez Miramontes

**Funder:** Gulf of Mexico Research Initiative (GBMF) (gulfresearchinitiative.org)

**Funding opportunity number:** sn

**Grant:** sn

**Template:** Gulf of Mexico Research Initiative (GoMRI) 2018

**Project abstract:**

Manufacturing is one of the industries that contribute the most to the development and economy of Ciudad Juarez Chihuahua Mexico, however, it is also one of the most polluting industries in the city. In this sense, the objective of this project is to investigate the level of adoption of the Circular Economy in the products they manufacture, conducting a quantitative study through a questionnaire to determine which of the 9 R’s (reject, rethink, reduce, reuse, repair, restore, remanufacture, reuse, recycle) which one or ones are the most applied in the elaboration of products and which is the
turn (automotive, electronics, electrical, metalworking, plastics, packaging, machinery and equipment, construction products, agribusiness, pharmaceuticals) that is more committed to environmental care.

Start date: 01-01-2023

End date: 12-31-2024

Last modified: 11-20-2023

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Level of adoption of the R`s of circular economy in the manufacturing industry in Ciudad Juárez Chihuahua México.

Research Consortium Information

Project Title
Please provide the title of project.

Level of adoption of the R`s of circular economy in the manufacturing industry in Ciudad Juárez Chihuahua México.

Lead Principal Investigator and Contact Information
Please provide the first name, last name, email address, institutional address, and phone number of the Lead Principal Investigator.

Sixta Cobos Floriano, al221145@alumnos.uacj.mx, Universidad Autónoma de Ciudad Juárez, 6565640748

Data Manager and Contact Information
Please provide the first name, last name, email address, institutional address, and phone number of the Data Manager.

Sixta Cobos Floriano, al221145@alumnos.uacj.mx, Universidad Autónoma de Ciudad Juárez, 6565640748

Data Manager Roles and Responsibilities
Include a brief description of the expected roles and responsibilities of the RC data manager. Please provide the percent effort that the data manager will devote to RC data management responsibilities. Outline any specialized skills or training the data manager will require to complete their duties.

The person responsible for managing the data should update the data every six months to one year or as indicated by the repository. The percentage of responsibility will be 85%.

Data Submission to GRIIDC
Please describe your process for submitting Dataset Information Forms (DIFs) and Datasets to GRIIDC, including the role of the data manager in preparing, reviewing, submitting, and responding to requests for revisions to DIFs and datasets.

The questionnaire database will be presented in an Excel file.

Data Management Training
Please describe any plans for providing data management training to members of your research consortium.

Fill out the questionnaire
Send the questionnaire via Google Forms
Coding
Statistical analysis in SPSS

Communicating Data Submission Requirements
Please describe how you will disseminate GRIIDC dataset submission guidance for genetics, model, CTD, video, images, and other data types, to members of your research consortium.

The data will be disseminated in an excel spreadsheet.

Data Storage and Backup
Please describe the research consortium requirements for the backup and storing of data by project participants before submission to GRIIDC.

The backup will be stored in One Drive and on a hard disk.

Ethics and Compliance Information – Data Involving Human Research Subjects
Do any components of the research project require Institutional Review Board approval? Are there any Institutional Review Board (IRB) or HIPPA (Health Insurance Portability and Accountability Act) issues that might preclude sharing data?

No sensitive data. Participants signed an informed consent form.

Methods Information: Research Cruises

Organization and Participation in Cruises
Please indicate if your research consortium will be organizing or participating in research cruises.

- No

Number of Cruises
If you will be participating or organizing in research cruises, how many will be you participating in or organizing?

Not applicable

Detailed Cruise Information
If known, please list cruise name, estimated dates of research cruise(s), and types of data collected on each cruise (e.g. CTD, ADCP, Plankton tows, etc.).

Not applicable

Methods Information: Non-cruise Field Work

Non-cruise Field Work
If your research consortium is not participating in research cruises, will any field work be performed?

- Yes

Environmental Data
If your research consortium is performing field work, will you be collecting environmental data while in the field (e.g. salinity, air temperature, water temperature etc.)

- No

Types of Environmental Data
If your Research Consortium is collecting environmental data, please list what types of environmental data will be collected.

if they are produced with environmentally friendly materials.
If they reuse, repair or recycle materials.

Platform Information
If you will be collecting environmental data, will you use moored buoys, drifters, or other oceanographic platforms to collect any of the data?

- No

Platform Description
If your research consortium will be collecting environmental data using moored buoys, drifters, or other oceanographic platforms, please describe the platforms that will be used.

not applicable

Methods Information: Environmental Sample Lab Analysis

Lab Analysis of Samples
Will your research consortium be collecting any samples in the field that will then be analyzed in the lab?

- No

Types of Samples and Analysis
If your research consortium will be collecting samples in the field that will then be analyzed in the lab please list what types of samples will be collected and what types of analysis will be performed on each sample type. (e.g. fish muscle tissue analyzed for mercury, fish otoliths for age, fish fin clips for next generation DNA sequencing, water for dissolved inorganic carbon, sediment grain size from cores, etc.)

not applicable

Methods Information: Microcosms/Mesocosms

Will your research consortium be performing any microcosm or mesocosm experiments?

- No

Detailed Microcosm/Mesocosm Information
If your research consortium will be performing microcosms or mesocosm experiments, please list what microcosm or mesocosm experiments that will be performed.

not applicable

Methods Information: Pure Lab-Based Studies

Pure Lab-Based Studies
Will your research consortium be performing any purely lab-based worked (e.g. measuring properties of chemicals, developing new dispersants, measuring flow rates of jets)?

- No

Detailed Lab-Based Study Information
If your research consortium is performing pure lab-based studies, what purely lab-based experiments will be performed?

Not applicable
Methods Information: Modeling

Numerical and Computational Modeling
Will your research consortium be conducting any numerical or computational modeling?

- Yes

Detailed Modeling Information
If your research consortium will be conducting numerical or computational modeling, what modeling activities will be performed?

Numerical correlation models will be made in the SPSS program.

Code Availability
If your research consortium will be conducting any numerical or computation modeling, do any of the models use non-publicly available code?

- No

Non-Public Code Information
Please list any code that will be used for models that is not publicly available.

N/A

Methods Information: Mapping

Mapping
Will your research consortium be conducting any mapping activities?

- No

Detailed Mapping Information
If your research consortium will be conducting mapping activities, what mapping activities will be performed?

N/A

Methods Information: Remote Sensing and Aerial Imagery

Remote Sensing and Aerial Imagery
Will your research consortium be using or acquiring any remotely sensed or other aerial
imagery data?

- No

Types of Remote Sensing and Aerial Imagery data
If your research consortium is using or acquiring remotely sensed or other aerial imagery data, what types of remote sensing or aerial imagery data will be used or acquired?

N/A

Proprietary Remote Sensing or Aerial Imagery Data
If your research consortium is using or acquiring remotely sensed or other aerial imagery data, are any of these data proprietary (i.e. cannot be freely distributed)?

N/A

Methods Information: Images

Images
Will any of your research consortium activities produce images as data? (NOTE: This does not include images taken through education or outreach activities or photos of research work that are taken for use in presentations, etc)

- No

Detailed Image Information
If your research consortium activities will produce images as data, what activities will produce images as data (e.g. light microscopy)?

N/A

Methods Information: Video

Video
Will any of your research consortium activities produce videos as data? (NOTE: This does not include videos taken through education or outreach activities or videos of research work that are taken for use in presentations, etc.)

- No

Detailed Video Information
If your research consortium will produce videos as data, what activities will produce this video (e.g. video of bubble rising in lab experiment)?

N/A

Methods Information: Social Surveys and Interviews

Surveys and In-person Interviews
Will your research consortium be performing any surveys of people or in-person interviews?

- Yes

Detailed Survey and Interview Information
If your research consortium is performing any surveys of people or in-person interviews, what survey activities will be performed?

A 12-question survey will be conducted using a likert scale that includes questions related to the 9R's of circular economy.

Methods Information: Economics

Economics
Will your research consortium acquire or use any economic data?

- No

Detailed Economic Data Information
If your research consortium is acquiring or using economic data, what economic data will be acquired or used (e.g. household income, fish landings, fish production, oil production, etc)?

N/A

Economic Data Sources
If your research consortium is acquiring or using economic data, what are the planned data sources for each data type?

N/A

Methods Information: Other Methods
Describe Other Methods
Please describe any research methods that will be employed by members of your research consortium that are not reflected in the answers to the previous questions and what types of data will be generated using each method.

N/A

Dataset Information Forms

List Dataset Information Forms
Please list the dataset title and GRIIDC Unique Dataset Identifier (UDI) for approved Dataset Information Forms (DIF).

N/A
Planned Research Outputs

Dataset - "Level of adoption of the R’s of circular economy in the manufacturing industry in Ciudad Juárez Chihuahua México."

It is expected that the production industries have a high level of insertion of circular economy practices 9 R's (reject, rethink, reduce, reuse, repair, restore, remanufacture, reuse, recycle).

Identify which organizations are most committed to environmental stewardship (automotive, electronics, electrical, metalworking, plastics, packaging, machinery and equipment, building products, agribusiness, pharmaceuticals).

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Planned research output details

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<th>Initial access level</th>
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<th>May contain PII?</th>
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<td>None specified</td>
<td>No</td>
<td>No</td>
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