



DATA MANAGEMENT NEEDS AND OPPORTUNITIES FOR HAZARD MITIGATION PLANS

KARL BENEDICT, PHD

DIRECTOR OF RESEARCH DATA SERVICES, UNIVERSITY LIBRARIES – UNIVERSITY OF NEW MEXICO



Image Credit: NASA GIBS

OVERVIEW



Needs



Preparation



Outcomes





NEEDS

- **Audiences**
 - **Decision Makers – Management of response and plan execution**
 - **Public – Supporting family, neighbors, friends in responding**
 - **Emergency Responders – Prioritizing response and effectively responding**
 - **Etc.**

NEEDS

- Information
 - Emergency Response Requests
 - Guidance to Public
 - Status of Critical Infrastructure
 - Capacity of Support Facilities
 - Availability of Resources
 - Forecast and Current Conditions

NEEDS

- **Information Delivery Systems**
 - **Desktop computers**
 - Applications (e.g. GIS, web applications, statistical models)
 - **Mobile Devices (apps, web based, messages)**
 - **Large-scale Displays/Alerts**
 - **Printed Materials**

NEEDS

- **Data**
 - **Emergency Service Requests**
 - **Location and Severity of Infrastructure Damage**
 - **Areas at Risk for Further Impact**
 - **Locations and Types of Resources**
 - **Current and Forecast Conditions**

PREPARATION

Meet Needs

- Provide Appropriate Access
- Deliver to Diverse Platforms & Applications

Information/Access

- Standards-based - interoperable
- Robust Documentation

Data

- Workflows for maintaining current and new data
- Secure/scalable data storage

The background of the slide is a close-up photograph of a dartboard. A single green dart is embedded in the red bullseye in the center. The dartboard has several segments, some of which are yellow and others black. The image is slightly blurred, giving it a soft, artistic feel.

OUTCOMES

- **Data Based Planning & Response**
- **Rapid Access to Current and Forecast Information**
- **Reusable Information for Multiple Audiences & Purposes**

STRATEGY

- **Iterate Towards Increased Capacity & Functionality**

ACKNOWLEDGEMENTS

- *We acknowledge the use of imagery provided by services from the Global Imagery Browse Services (GIBS), operated by the NASA/Goddard Space Flight Center Earth Science Data and Information System (ESDIS) project.*
- *Additional Imagery From:*
 - *Reliefweb - <https://reliefweb.int/>*
 - *Shutterstock*
 - *iStockphoto*
 - **Dafne Cholet. "Calendar*" <https://flic.kr/p/9bUbH3> . <https://creativecommons.org/licenses/by/2.0/>**