GIS Data Driven Decisions

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Data Driven Decisions

- Moorhead Public Service (MPS) GIS
- MPS GIS Value
- Challenges
- Future Endeavors



Moorhead Public Service





Geographic Information System

Moorhead Public Service GIS

 "Geographic Information System (GIS) is a framework for gathering, managing, and analyzing data. It analyzes spatial location and organizes layers of information into visualizations using maps. GIS reveals deeper insights into data such as patterns, relationships, and situations – helping users make smarter informed decisions." - esri

• MPS GIS Vision:

 MPS' GIS vision is to add value to MPS electric, water, and administrative divisions by providing authoritative geospatial information to make these operations more efficient and effective.



GIS Value

- Value
 - Water
 - Water Asset Management Plan
 - Water Leaks
 - Electric
 - Electric Master Plan
 - Electric Outages & Reliability Projects
 - Admin / Finance
 - AMI
 - Facility Planning
 - MPS GIS Data Analytics Solve Problems



Water Asset Management Plan













Water Leak Reporting









Electric Master Plan

- Electric Master Plan
 - Develop Electric Network Model
 - Identified need from previous GIS Master Plan
 - DGR Engineering Review and Development of MPS' 10 Year Electric Master Plan







Electric Outage and Reliability Project Support











Advanced Metering Infrastructure (AMI) Project Support











Facility Planning











GIS Data Analytics Solves Problems









Challenges

- Challenges
 - Data
 - Mapmaker
 - Value
 - Location Intelligence
 - Location intelligence (LI) is the process of deriving meaningful insight from geospatial data to solve problems.
 - Business Intelligence
 - Business intelligence (BI) is a technology-driven process of transforming data into meaningful and useful information to assist in making informed data-driven business decisions.



MPS GIS Review

Moorhead Public Service GIS Vision

 MPS' GIS vision is to add value to MPS electric, water, and administrative divisions by providing authoritative geospatial information to make these operations more efficient and effective.

Review

- Water (WAMP, Water Leaks Reporting)
- Electric (Electric Master Plan, Outage Reporting)
- Admin / Finance (AMI, Facility Planning)
- GIS Data Analytics Solves Problems



MPS GIS – To Infinity & Beyond

- Future Endeavors
 - Business Intelligence Integrations
 - SCADA / GIS
 - CIS
 - CMMS





Questions??

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