

2024

DATA THON

EMMA LIU | MATT MOISES | MAYI QUIMPO | MINH TRAN

CONTENT

- 01 STAKEHOLDERS
- 02 PROBLEM STATEMENT
- 03 EPA CONTRACTS
- 04 INDUSTRY INSIGHTS
- 05 PREDICTIVE MODEL
- 06 APPLICATION

IN 2023...

18.1%

of the potential
value awarded by EPA
were received by minority-
owned businesses



MEET MELISSA



remediation
services



minority-owned
business



seeking a \$1.4 million
contract with EPA

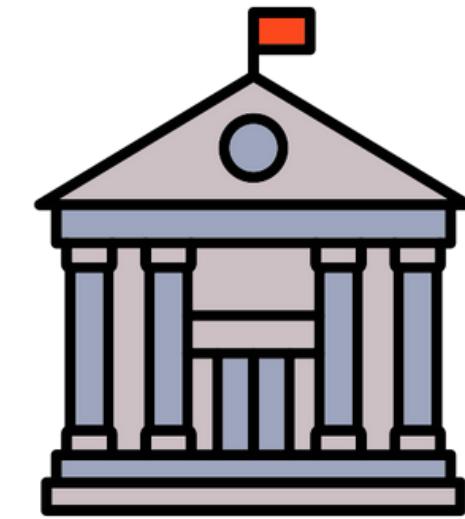


Is Melissa's proposed
contract value optimal for
acceptance by the EPA?

UNDERSTANDING EPA CONTRACTS



location of
profile



government
certification



naics



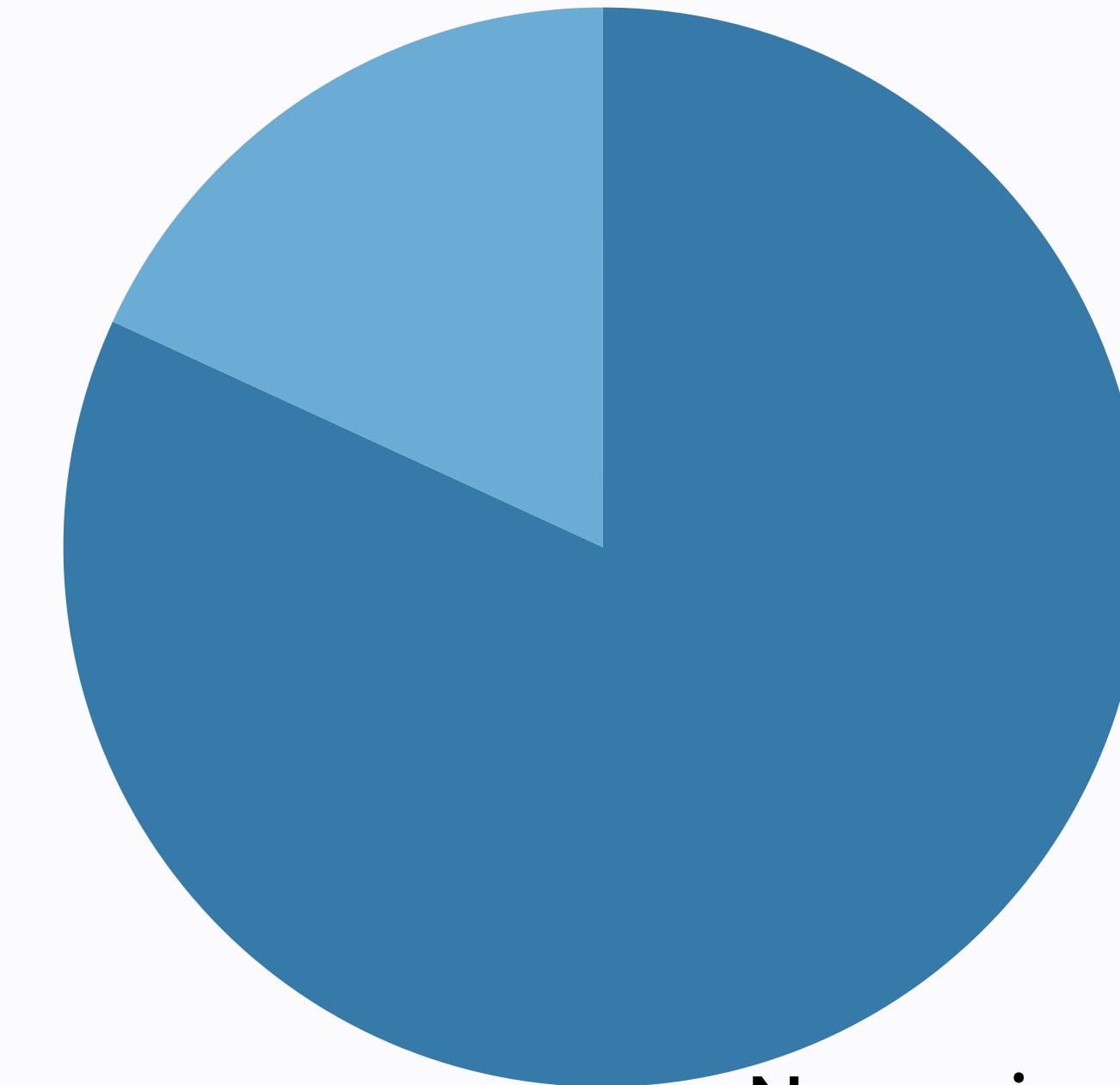
ownership



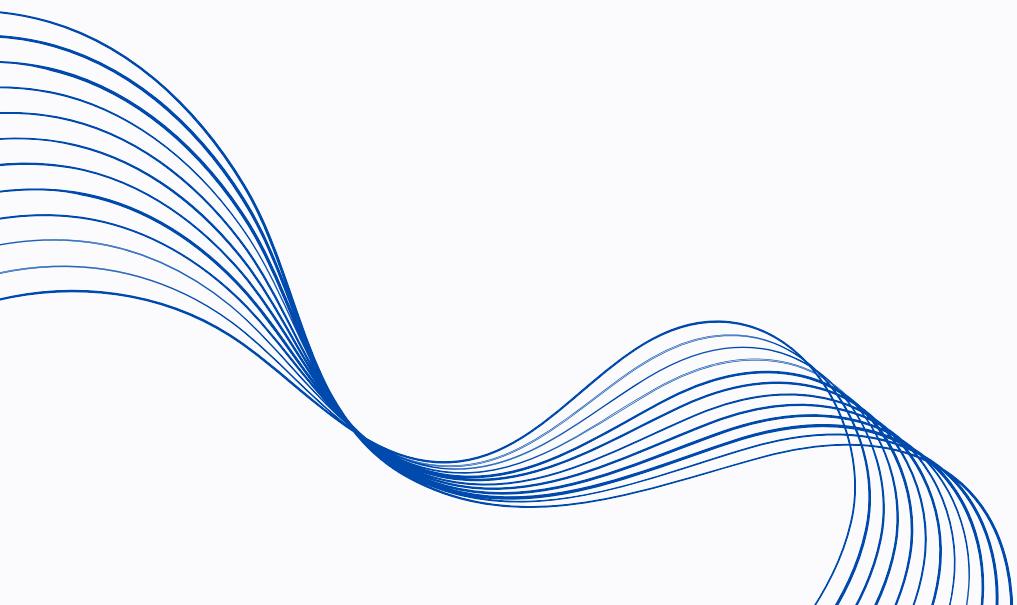
amount of request

\$173B

Minority-owned
18.1%



Non-minority
81.9%



BIG PICTURE

Top Companies

Recipient Name

RESEARCH TRIANGLE INSTITUTE

EASTERN RESEARCH GROUP INC

ENVIRONMENTAL RESTORATION LLC

ICF INCORPORATED, L.L.C.

BOOZ ALLEN HAMILTON INC



Top Industries

REMEDIATION SERVICES

32.47%

ENVIRONMENTAL CONSULTING SERVICES

30.27%

ADMINISTRATIVE MANAGEMENT AND
GENERAL MANAGEMENT CONSULTING
SERVICES

27.94%

ENGINEERING
SERVICES

5.06%

OTHER SCIENTIFIC
AND TECHNICAL
CONSULTING
SERVICES

18.14%

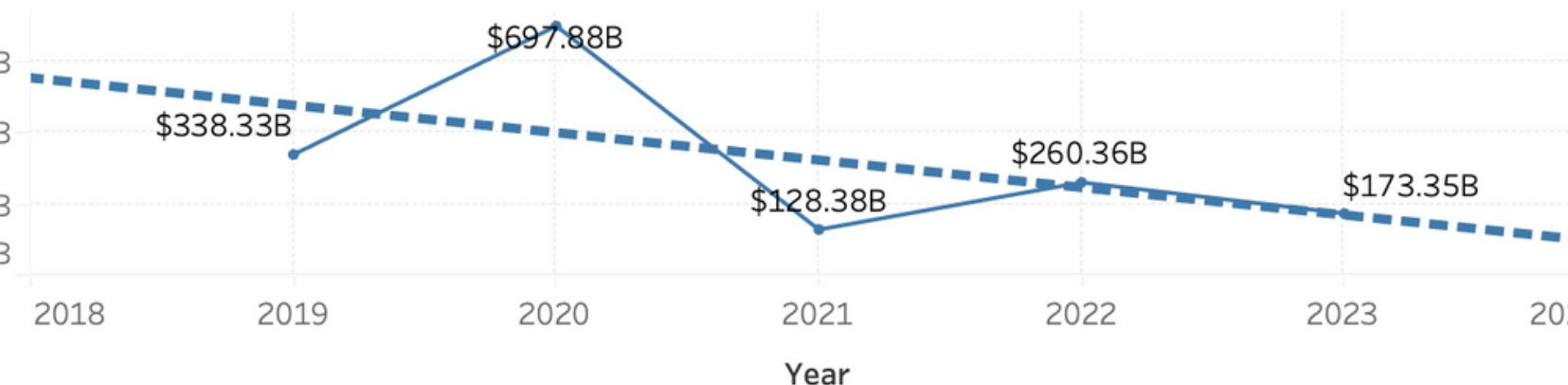
t

81.86%

f

Trend

Potential Total V..



Minority Owned Business

(All)

f

t

Primary Place Of Performance State Name

ALABAMA

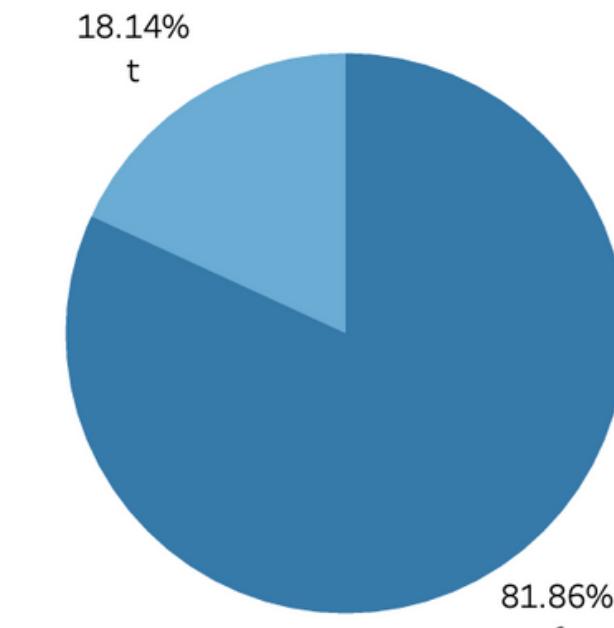
ALASKA

AMERICAN SAMOA

ARIZONA

ARKANSAS

Distribution of Minority / Non-minority Companies



MINORITY BUSINESS OWNERS

Top Companies

Recipient Name

| | |
|--|-------------|
| ENVIRONMENTAL ENGINEERING & MEASUREMENT SERVICES INC | \$5,789.85M |
| KAPUR ENERGY ENVIRONMENT ECONOMICS, LLC | \$5,776.50M |
| HYDROGEOLOGIC, INC. | \$2,411.68M |
| ENVIRONMENTAL QUALITY MANAGEMENT, INC | \$1,359.02M |
| ARROWHEAD CONTRACTING INC | \$1,343.00M |

Top Industries

REMEDIATION SERVICES
47.46%

ENVIRONMENTAL CONSULTING SERVICES
26.34%

OTHER SCIENTIFIC AND TECHNICAL CONSULTING SERVICES
24.75%

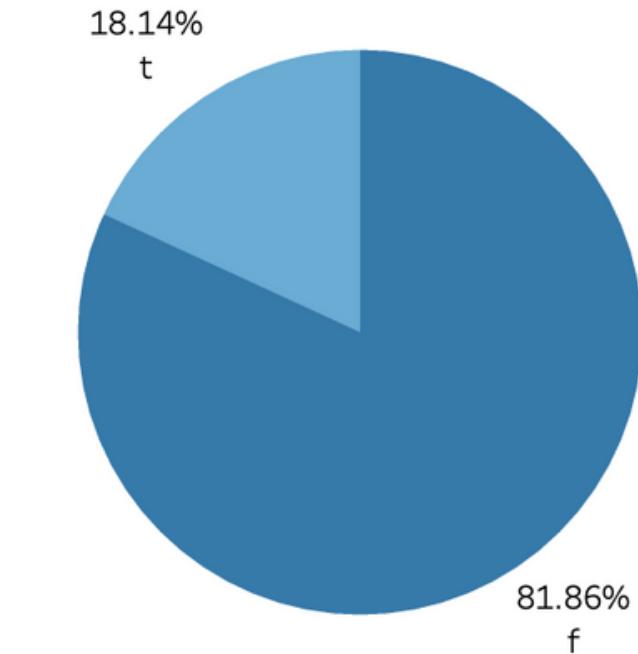
Minority Owned Business

- (All)
- f
- t

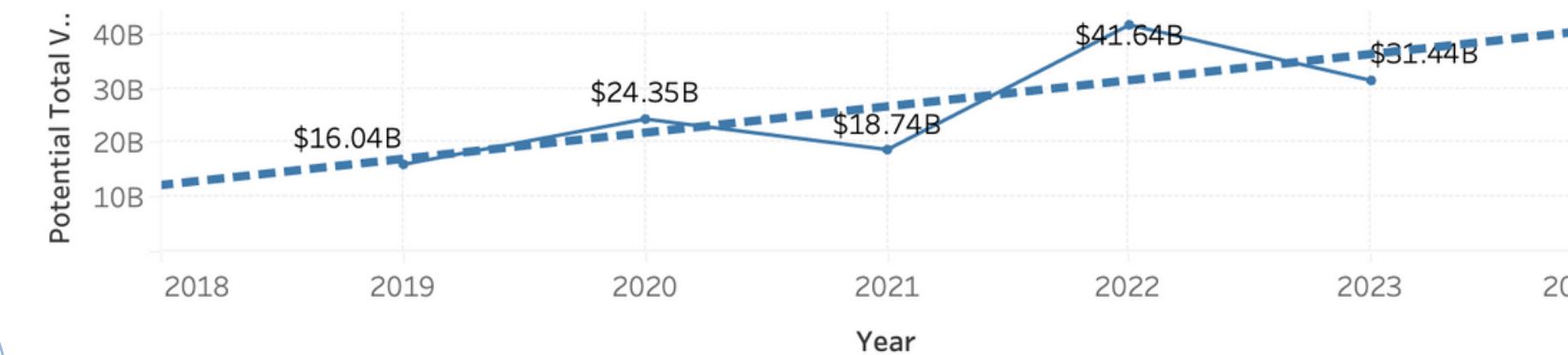
Primary Place Of Performance State Name

- ALABAMA
- ALASKA
- AMERICAN SAMOA
- ARIZONA
- ARKANSAS

Distribution of Minority / Non-minority Companies



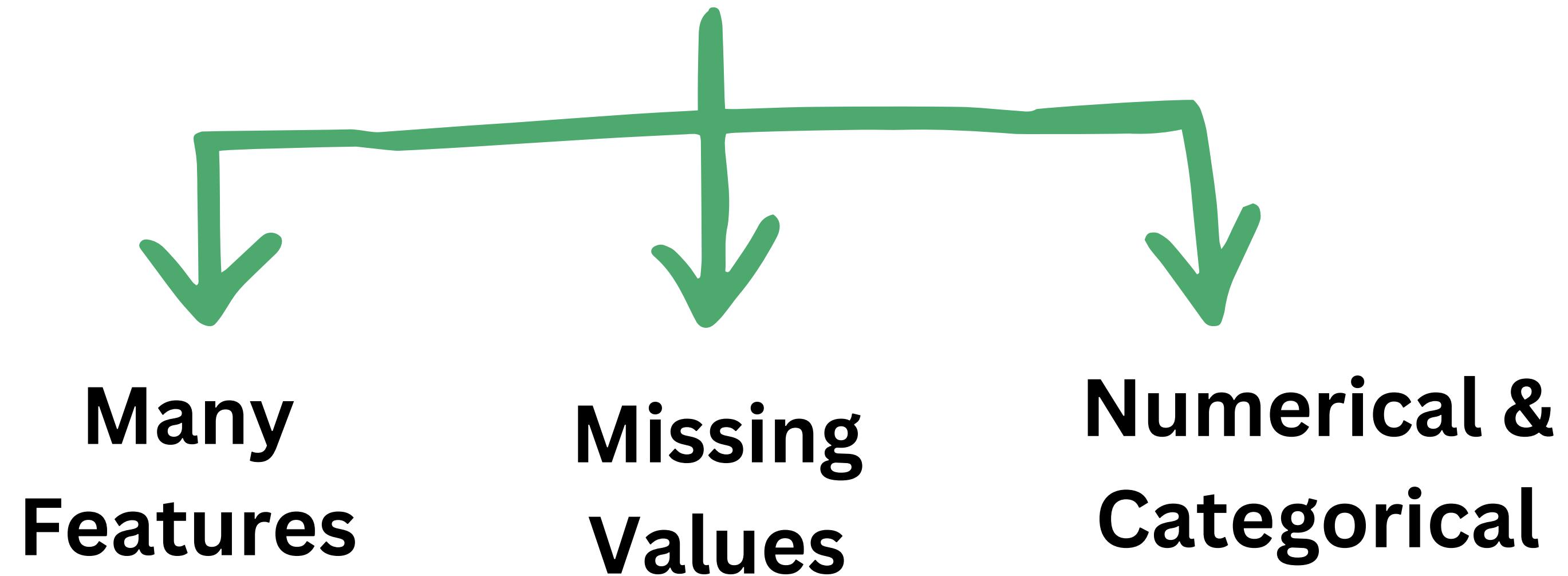
Trend



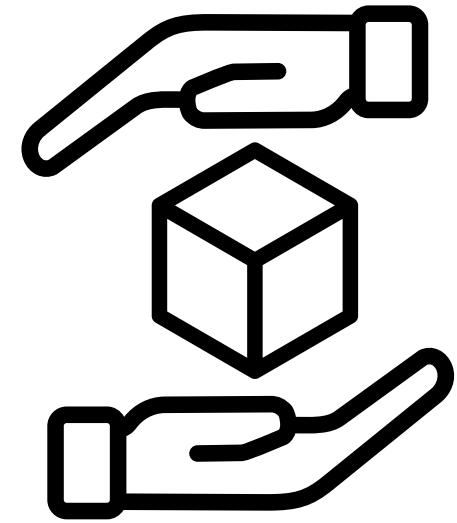
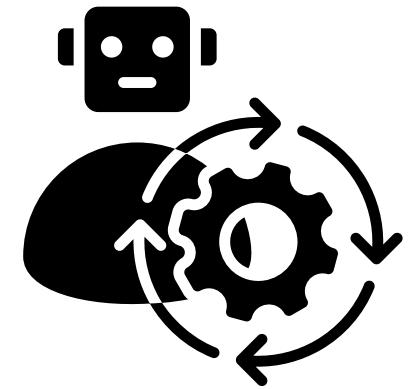
MAKE AN IMPACT 101

PREDICTIVE ANALYTICS

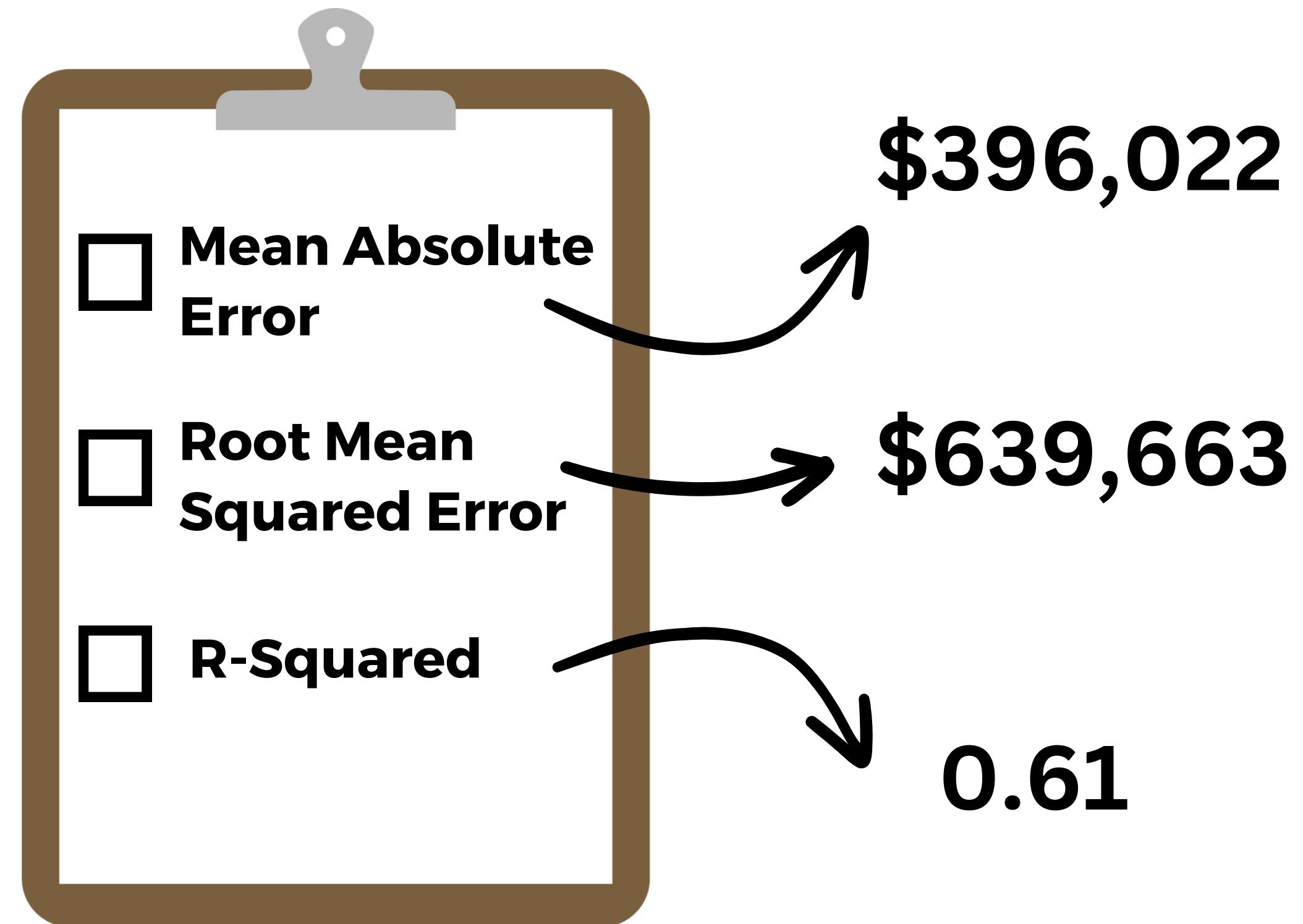
Potential Data Concerns



XGBoost, why?



MODEL PERFORMANCE



Small
Disadvantaged
Business
YES

DOT Certified
Disadvantage
YES

Multi-Year
Contract
YES

Foundation
YES

NAICS
Description
**REMEDIATION
SERVICES**

Business Size
**SMALL
BUSINESS**

Potential Days
500

Type of Contract
Pricing
**FIRM FIXED
PRICE**

Product or Service
Code Description
**ENVIRONMENTAL
SYSTEMS
PROTECTION**

Self-Certified Small
Disadvantaged Business
YES

**Predicted
Contract Value
\$ 1,514,168.10**

HOW CAN THIS HELP?



PROJECT
PLANNING



TIME



VOICE OF
ENCOURAGEMENT