TIDE Architecture Diagram

Networks Served

NIPR	SIPR(FY26)	JWICS

Data Sources
- PDF
- Document Data
- Document Images
- Document Text

Extract Document Data
- AWS Lambda
- AWS SageMaker Notebook Script

Store Data to S3
- Amazon S3 Storage
- Raw Bucket
- Processed Bucket
- Authoritative Bucket

AWS Pipeline Extract, Transform, and Load

PostgreSQL Database

- Data Visualization
- Generative AI Chatbot
- JWICS Document Data (Query)
- Document Data Summaries & Analysis

User Feedback

AWS SageMaker / AWS Bedrock
Build, Test, Train, Tune & Optimize ML Models

AWS Virtual Private Cloud (VPC)

- Django Web-Framework
- Amazon Elastic Kubernetes Service
- Amazon CodeDeploy
- Amazon CodeBuild
- Amazon CodeCommit

AWS Cloud

Developers

user

* *Time/Event Trigger*