

RICH DATA SERVICES

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- Application Demo



About Us

OUR MISSION

Modernization of infrastructure, tools, and practices surrounding official statistics and research data management, by leveraging information technology and standards.

OUR WORK

Collaborating since late 90's with national statistical offices, government and international organizations, data archives, research centers, academic institutions, and standards initiatives,

OUR SKILLS

Team with unique expertise in both information technology and data science



RICH DATA SERVICES



Rich Data Services connects users and applications to data and metadata through an industry standard REST based API

STOP WRANGLING

DATA

Stored in database, ready for on demand access, querying, sub-setting, or packaging in open formats for delivery.

METADATA

Knowledge around the stored in a standards driven metadata repository and accessible in machine readable formats.

STATISTICIANS & DATA SCIENTISTS

Leverage API and applications to interact with data and metadata, or download for offline use.

WEB & APPS DEVELOPERS

Access web services to integrate data and metadata in portals, dashboards, apps, and processes.

Why Metadata?

IT and Domain Standards: Data APIs are not enough

Metadata is simply knowledge converted to machine friendly formats



GSIM



sdmx



COMMON SENSE

No data should ever be delivered without documentation

MACHINE ACTIONABLE DATA

Empowers information system with necessary knowledge to process the data

AUTOMATION

Enables software driven management, analysis, and knowledge inference

DATA & RESEARCH QUALITY

Improves overall data quality and ensures preservation of knowledge

ALIGN ON STANDARDS

Foster the use and adoption of *domain standards* and related best practices

Whats Included?



Rich Data Services comes with easy to use web applications, a REST API, and open source libraries to bring data into various platforms

USER INTERFACES

- Manager - manage data and documentation
- Explorer - self serve microdata access
- Tabulation Engine - online tables / aggregations and linear regression

REST API

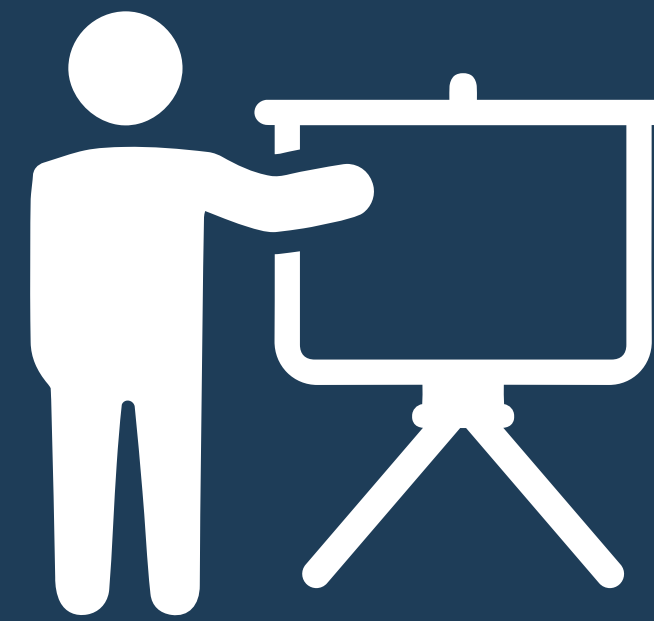
- Metadata about the datasets, variables, classifications, and codes
- Record level or aggregated data with integrated metadata
- Packaging service for data / metadata in open formats
- Content management, usage statistics, and other administrative functions

OPEN SOURCE LIBRARIES

- Open source libraries are available to work with the API in JavaScript, Python, and R.



DEMO / STORIES



EXPLORER

Self service portal where users can browse, subset, and download microdata.



TABULATION ENGINE

Self service portal for public, business, or non-technical users to create aggregated data tables for analysis, validation checks, or regression.



MANAGER

Manager user interface to document and manage catalogs and data products.

For more information

<https://www.mtna.us>
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RDS HOME

<https://www.richdataservices.com>

PUBLIC DATA CENTERS

<https://public.richdataservices.com/rds>

DOCUMENTATION

[OpenAPI / Swagger](#)

[Postman Public Workspaces](#)

GITHUB

Open sources libraries and examples

<https://github.com/mtna>

QUESTIONS

Contact us at mtna@mtna.us