

Trusted Data Collaboratives

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SOLVING TODAY'S COMPLEX CHALLENGES REQUIRES GREATER ACCESS TO DATA

Transportation Dynamics – So Many Siloes!





WHAT MAKES DATA SHARING CHALLENGING?





TRUSTED DATA COLLABORATIVE

A secure place to exchange protected and open data, analyze complex systems and create meaningful solutions for societies most pressing challenges



A TRUSTED DATA PLATFORM



INNOVATIVE BUSINESS MODELS | TRUST FRAMEWORKS | DATA TRUSTEES | DATA MARKET



TYPES OF DATA COLLABORATIVES



INDUSTRY COLLABORATIVE

Multi-party data sharing via a neutral third-party industry consortium



WATER AND ENERGY CONSERVATION (an example)



UC DAVIS CENTER FOR WATER ENERGY EFFICIENCY

Motivation

→ Facilitate collaboration across multiple stakeholders to drive water-energy conservation

Unique challenges

- → Sourcing public and private protected data
- \rightarrow Datasets required have different sets of rules
- → Water-Energy network data is classified (DHS)
- → Rules around data sharing continue to change

Actionable Insights (California)

- \rightarrow 20% of electricity use is embedded in water
- \rightarrow 30% of natural gas is embedded in water
- \rightarrow 100M t. CO2 is generated throughout the water cycle





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KEY SCENARIOS



THREE PRINCIPLES FOR TRUSTED DATA COLLABORATIVES



Each party must be transparent in their motivations, policies and regulatory constraints regarding data: collection, storage and retention, sharing, use and publication.

ACCOUNTABILITY

Encourage broad data sharing whilst protecting the rights and interests of Data Subjects and Data Owners via controls that maintain data provenance, chain of custody and algorithmic/analytical transparency.



FAIR VALUE EXCHANGE

The collaborative usage of data demonstrates a fair value exchange between data providers and data consumers

These three principles form the basis of an operational **Data Collaborative Trust Framework**.





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