

# Sightline Innovation Datatrust (DTaaS)

The Data Collaboration Platform

Sightline Innovation Inc. 2021



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# Datatrust fundamentals

## What is a Datatrust?

A Datatrust enables data control, auditable interoperability and collaboration of data assets. In the ever changing compliance environment organizations need a Datatrust platform to effectively manage and leverage their data assets.

A Datatrust connects people, organizations, and applications together to solve problems that cannot be solved in isolation

Datatrusts build value from data by providing business insights, reducing cost, data optimizations, data monetization, and data asset securitization, all while remaining compliant, preserving privacy, and providing mechanisms of informed consent

# Why use a Datatrust?

**Reduce your liability on data operations**



## **Data Privacy and Compliance**

Remain compliant with data regulations.

Define and enforce precision access rights on data

Maintain an audit trail of ownership, access and data transaction records

**Save money on data operations**



## **Data Operations Optimization**

Eliminate cumbersome, expensive custom data workflows for each project with a standardized, privacy compliant system. Work seamlessly with internal or external data collaborators.

**Generate revenue from data**



## **Data Monetization**

Build Datatrust applications for your customers with privacy, consent and built in Digital Rights management.

**Realize the long-term value of data assets**



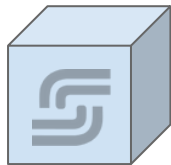
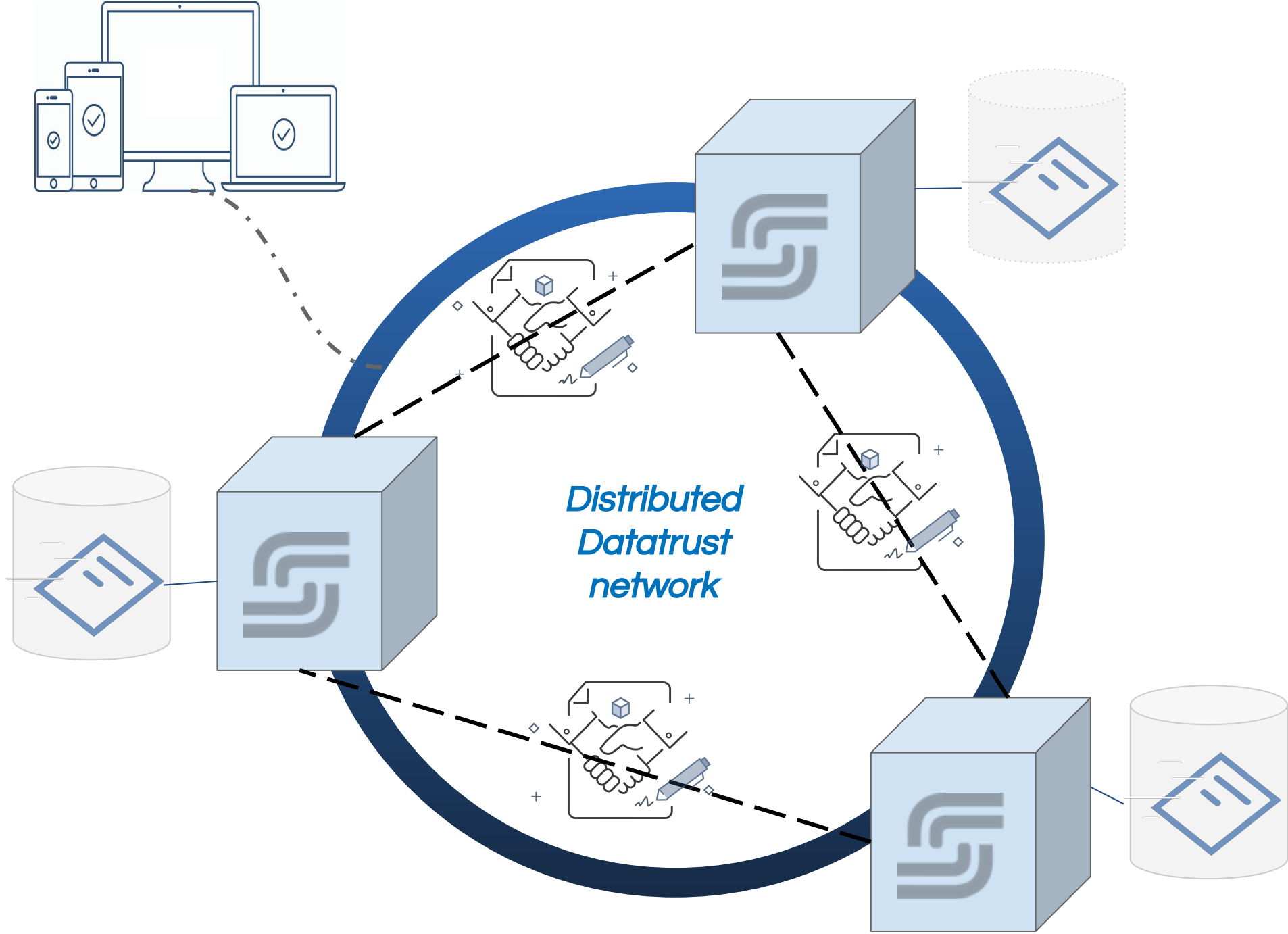
## **Data Asset Securitization**

Make data and derivative data tangible and controllable for financial valuation on your balance sheet

## 2. DTaaS product overview

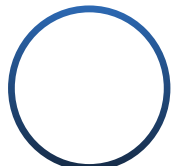
# Datatrust fundamentals

## DTaaS building blocks



**dtNode**

Licensed installations of DTaaS



**dtDomain**

A Datatrust domain that contains a grouping of Datatrust participants (dtNodes)



**dtApp**

Applications deployed into the Datatrust. Built using the DTaaS SDK.



**dtPath**

Inter-dtNode communication pathway



**Policies**

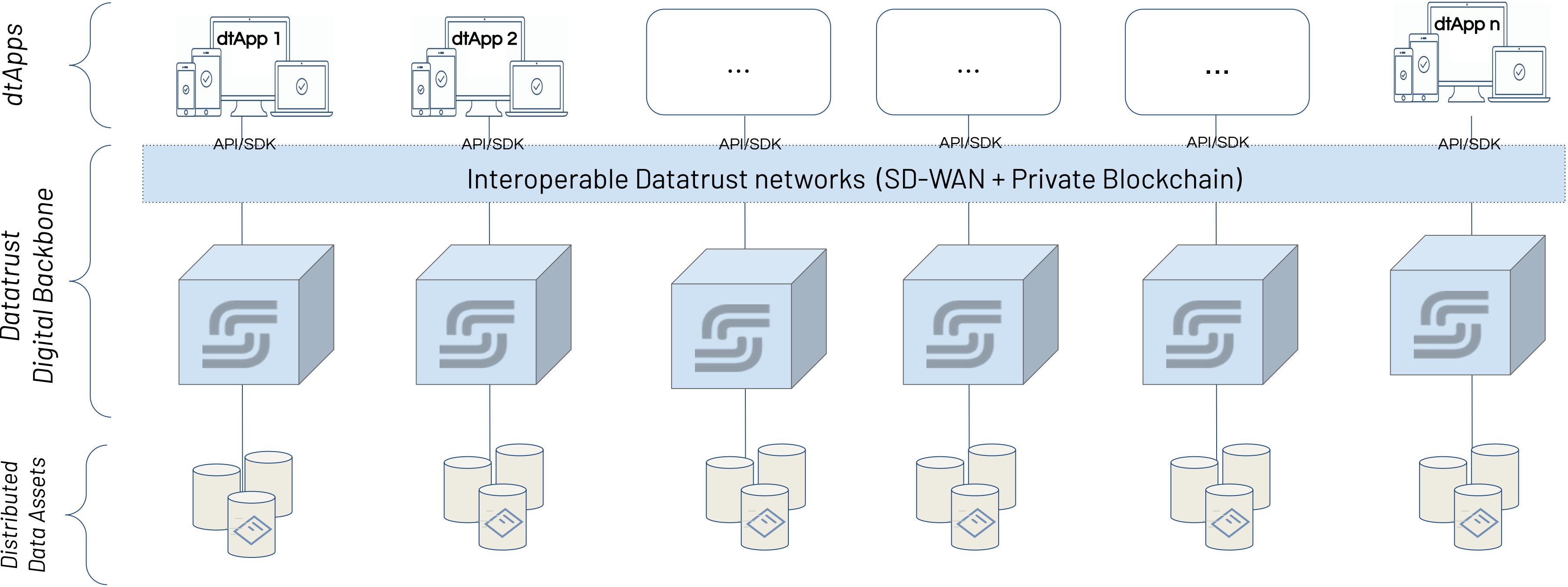
Access Control or Smart Contracts governing assets and transactions



**Assets**

Data or derivative data within the dtDomain

# DTaaS - a flexible Civic Datatrust platform



# DTaaS Data management capabilities

<b>Data Ownership Management</b>	→	Ownership record of data assets via Distributed Ledger
<b>Data Access Management</b>	→	Define and enforce precision access rights on datasets via smart contracts and secure virtual SD-WAN networks.
<b>Data Rights &amp; License Management</b>	→	Distributed Digital Rights management Compliance with CCPA, GLBA etc. Audit trail of data asset usage Enforcement of data usage rights via smart contracts Enable informed consent data workflows
<b>Data Transaction Tracking</b>	→	Immutable audit trail of ownership, access and transaction records
<b>Data Residency Management</b>	→	Define and enforce where data resides at each transaction. Leave Data in place irrespective of usage requirements Ownership of Data separated from physical location of data
<b>Data Security and Privacy</b>	→	Secure against unauthorized access Precision privacy controls based on sensitivities of data

# Setup a Datatrust, invite members and create policies

**Sightline** Home Data Pipelines Models Apps Daemons Datasets Reports **Trusts**

## Trusts

Invites

It looks like you aren't currently a member of any Trusts. To get started:

- 1 CREATE**  
Click Create Trust then give it a name. This will be visible to anyone who joins
- 2 MEMBERS**  
Select members who you wish to share items with
- 3 RESOURCES**  
Select resources you wish to share
- 4 POLICY**  
Select a policy for the Trust. This will govern how the members of the trust can interact with the resources in the Trust
- 5 COLLABORATE**  
Click create and start collaborating!

[Create Trust](#)

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## Create Trust

**Trust Name:**  
data trust 3

**Users:**  
Alice x Bob x x ▾

**Resources:**  
alberta | bucket x ▾

**Policy:**  
Policy 1 ▾

- Policy 1
- Policy 2
- Policy 3



# Build end to end Distributed Data workflows, applications and analytics with Data Science/ML and dtApp API tools

The image displays a collage of screenshots from the Sightline web application and a Jupyter Notebook. The top-left screenshot shows the 'Trusts' page with a table of trusts:

Name	Members
data trust 1	1
data trust 2	1

The middle-right screenshot shows a dashboard for 'City of Toronto' with an 'Overview' section and a line chart titled 'Average Service Application Time per Month'. The chart shows a fluctuating trend with a peak in April labeled 'Application Time: 6 Days'.

The bottom-left screenshot shows a user interface for 'Ontario Works' services, including 'Monthly Benefit', 'LEAP Benefits', and 'Temporary Care Assistance'. An 'Application Confirmation' dialog box is overlaid, asking for consent to share information with Ontario Works.

The bottom-right screenshot shows a Jupyter Notebook with the following Python code and output:

```
In [2]: from sightline.simon.app import App
        App.list()

Out[2]: [<sightline.simon.app.app.App at 0x7f19803513c8>]

In [ ]: |
```

## 3. Municipality Case Study

# Municipality Datatrust Case Study

## Integrated Community Services Civic Datatrust

### 4 node Datatrust configuration

The Problem: Siloed, individual, disconnected experience

The Solution: Unified, Connected, Engaging experiences

Citizens: The journey of interaction with government is still cumbersome, fragmented and disconnected. My data is all over the place in different silos. I tell one team my situation, then start again with another team. Does anyone talk to anyone? Is there any coordination?

City Staff: Helping a citizen navigate across various departments and access their data is burdensome. I want to extract the value for their data but I can't because:

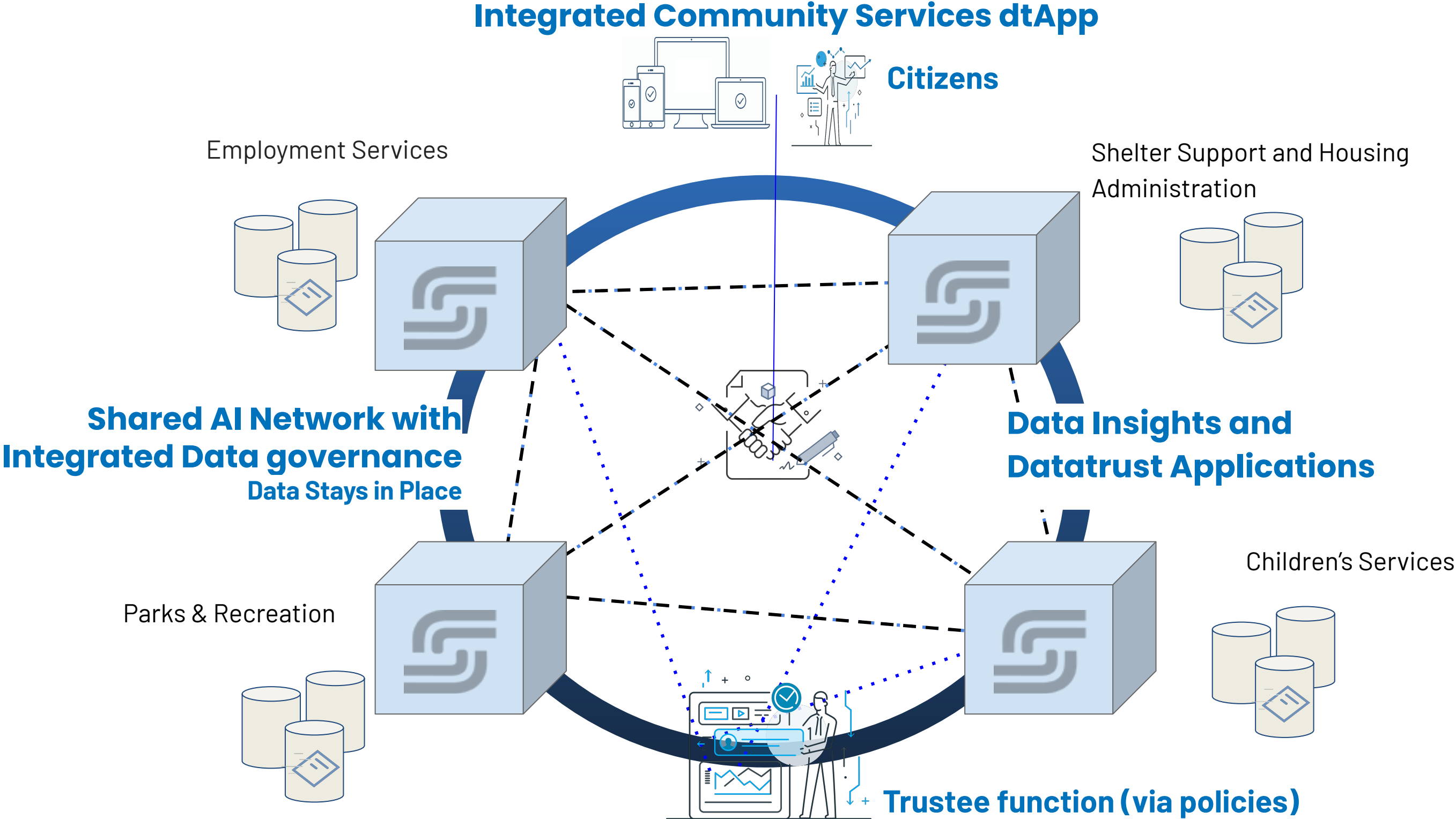
1. Data is siloed
2. Data sharing, privacy and governance restrictions between these silos prevent me from using this data in a meaningful or collaborative way
3. I have the added concern of regulatory requirements to ensure I use data in a way that is legal and compliant.

# DTaaS deployment

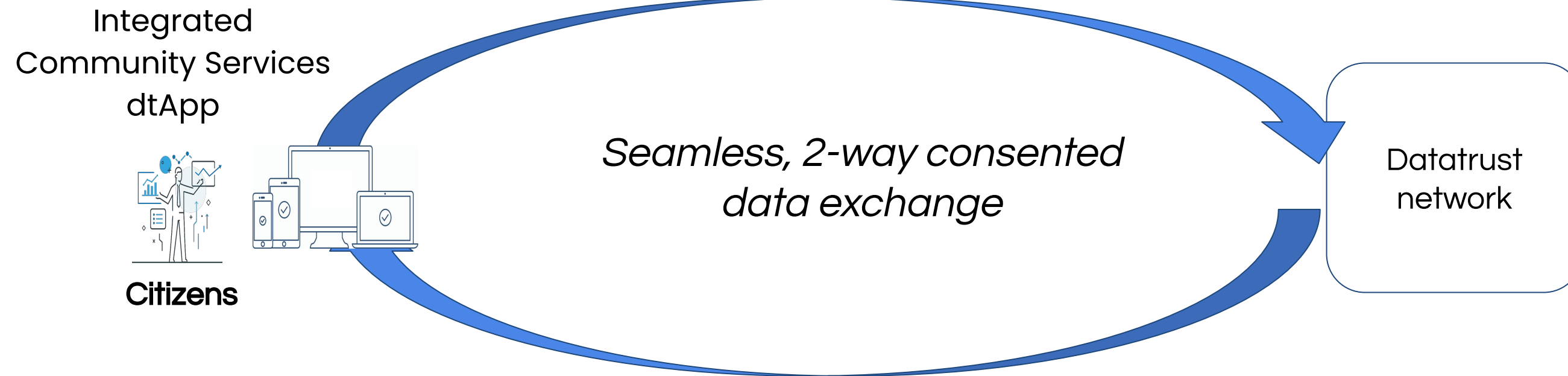
Step 1: Connect Silos of Data to enable collaboration

Step 2: Apply policies and governance to create a trusted data collaboration network

Step 3: Create tangible outcomes for citizens and users



# A new journey for Citizens and City Staff - powered by DTaaS



## Data Users

- Collaborate with data across departments
- BI and Data Scientists can collaborate with permissioned data
- App developers can build trusted applications for Citizen services

## Governance Operations

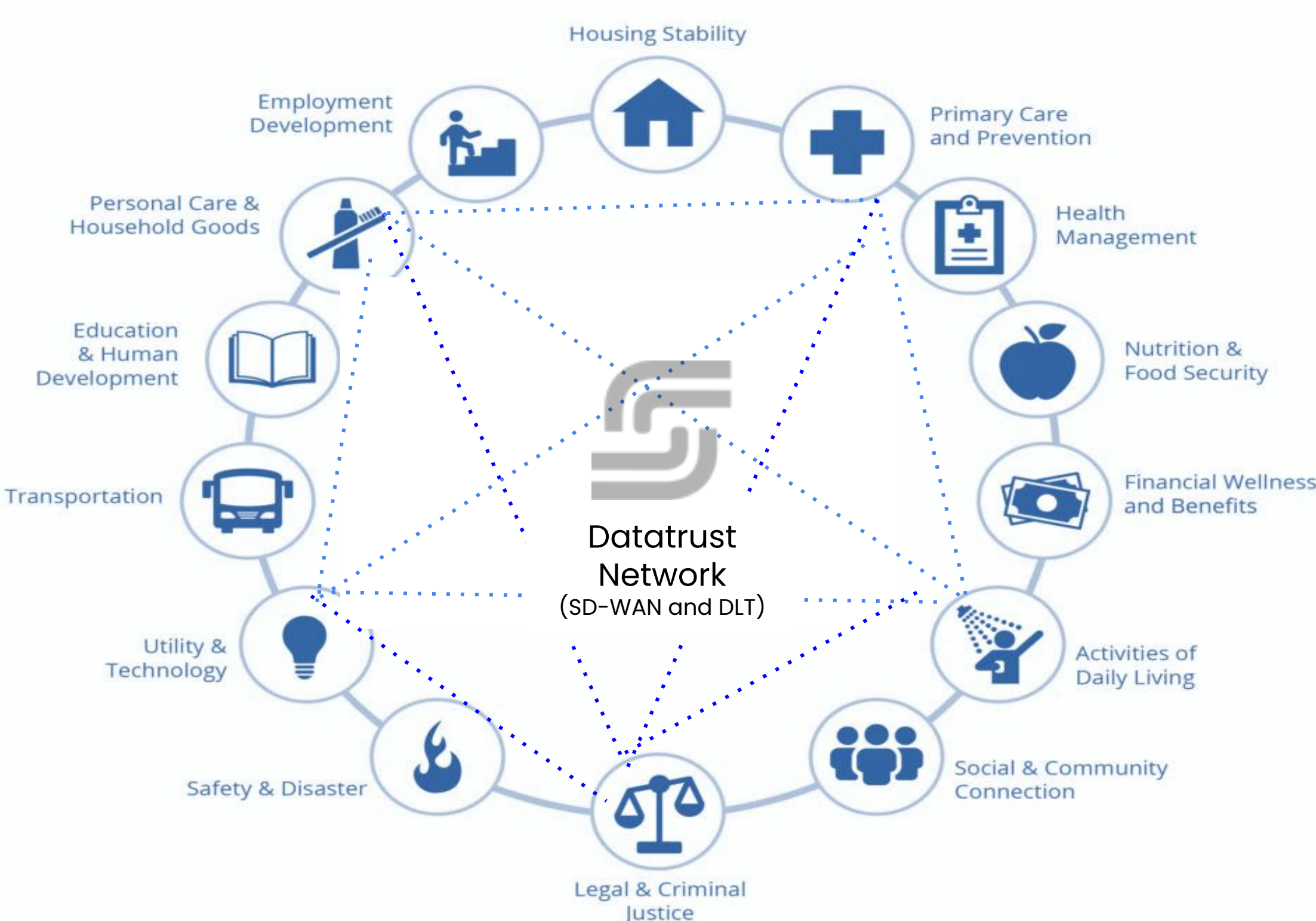
- Define and Enforce Governance policies for data sharing
- Review Data Audit logs for regulatory requirements
- Ensure transparency in the data management

## IT Operations

- Manage distributed Big Data and AI workflows easily
- Manage external data partners
- Manage data applications in a single view

# Re-imagining a City in the context of Data

## Benefits and Outcomes



With DTaaS we can re-imagine the city as a network of data, application providers and consumers with a secure, privacy compliant digital collaboration network between them.

A Connected City “App store” for applications to be utilized with consent and connected into legacy data systems via a secure datatrust network.

# Thank you

Looking for more information? Contact us at  
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