
AWS
re:Invent
NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

BIZ214

Break down supply chain silos with machine learning

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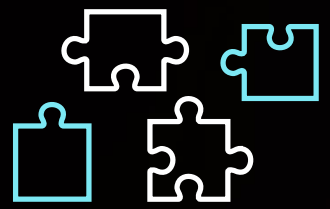
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Vice President, Technology
Whole Foods Market

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The universal truths for supply chains



Siloed point solutions



Lack of visibility



Changing consumer needs

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New realities adding complexity



Explosion of data



Explosion of personas



Demand for faster decision-making on real-time data

aws

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Putting your supply chain data to work



Make better decisions



Improve efficiencies



Respond faster



Uncover opportunities

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AWS Supply Chain accelerates innovation



Easily connect data across systems



Quickly harmonize into a unified view



View ML-powered insights and risk alerts



Accelerate mitigation with recommendations



Scale with pay-as-you-go pricing

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Establishing a solid foundation

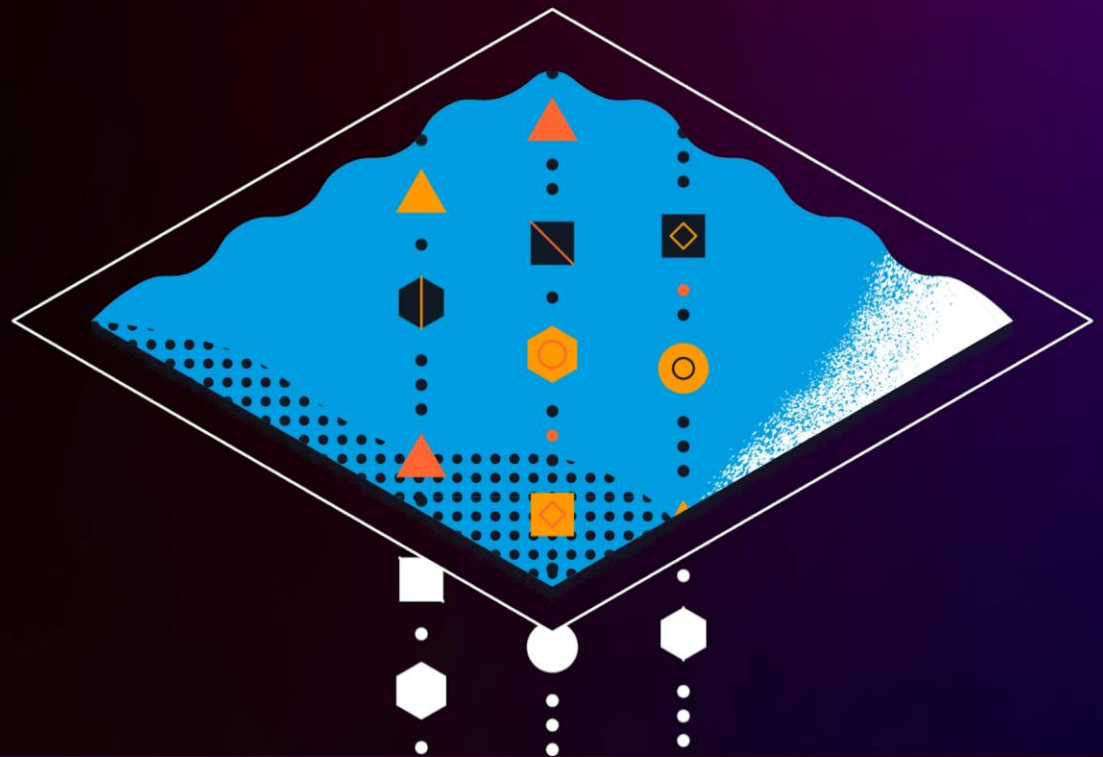
Supply Chain Data Lake

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Reducing the time to value

ML-Powered Data Association

Supply Chain Data Lake



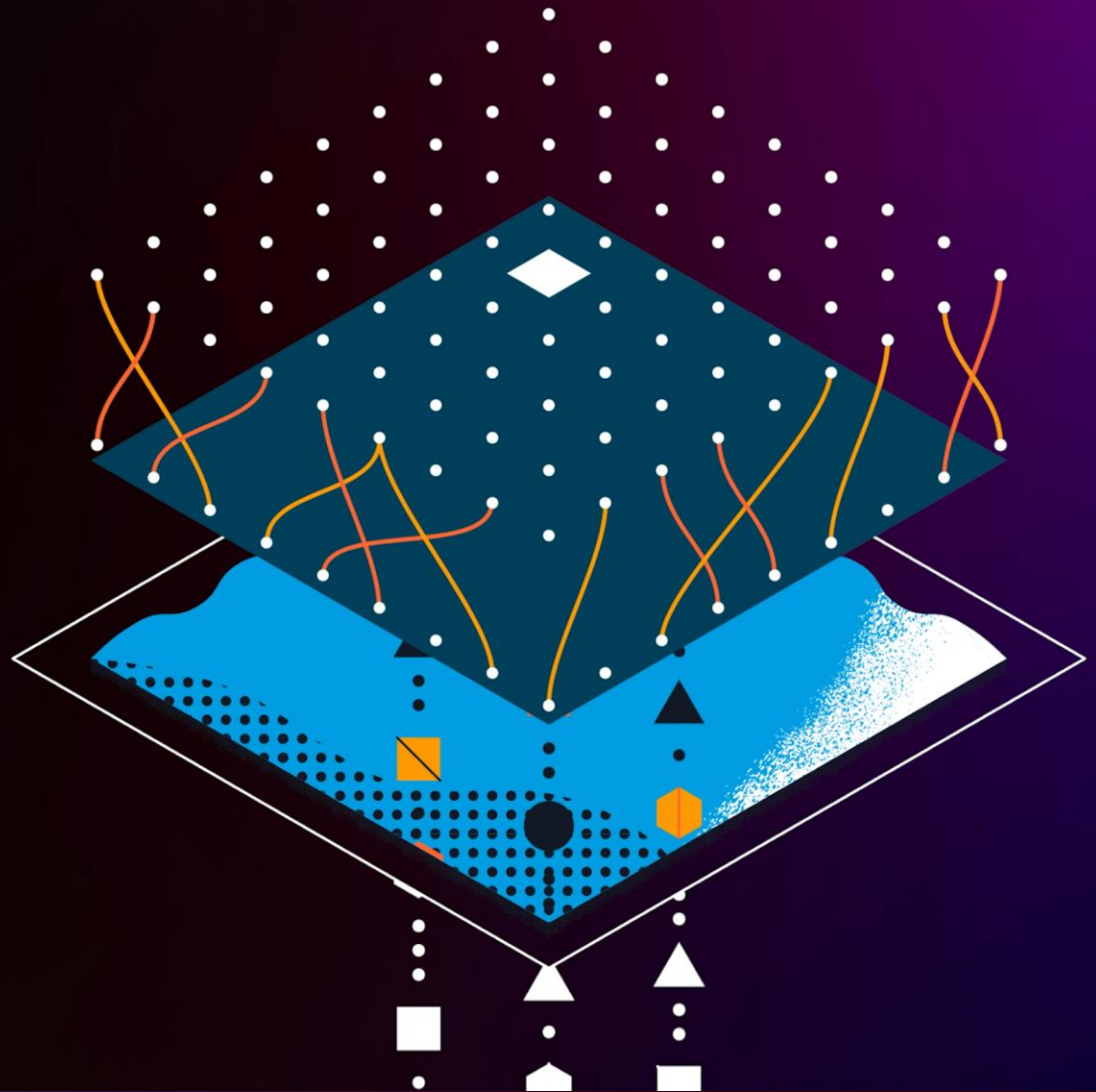
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From data to insights

Intelligent Insights

ML-Powered Data Association

Supply Chain Data Lake



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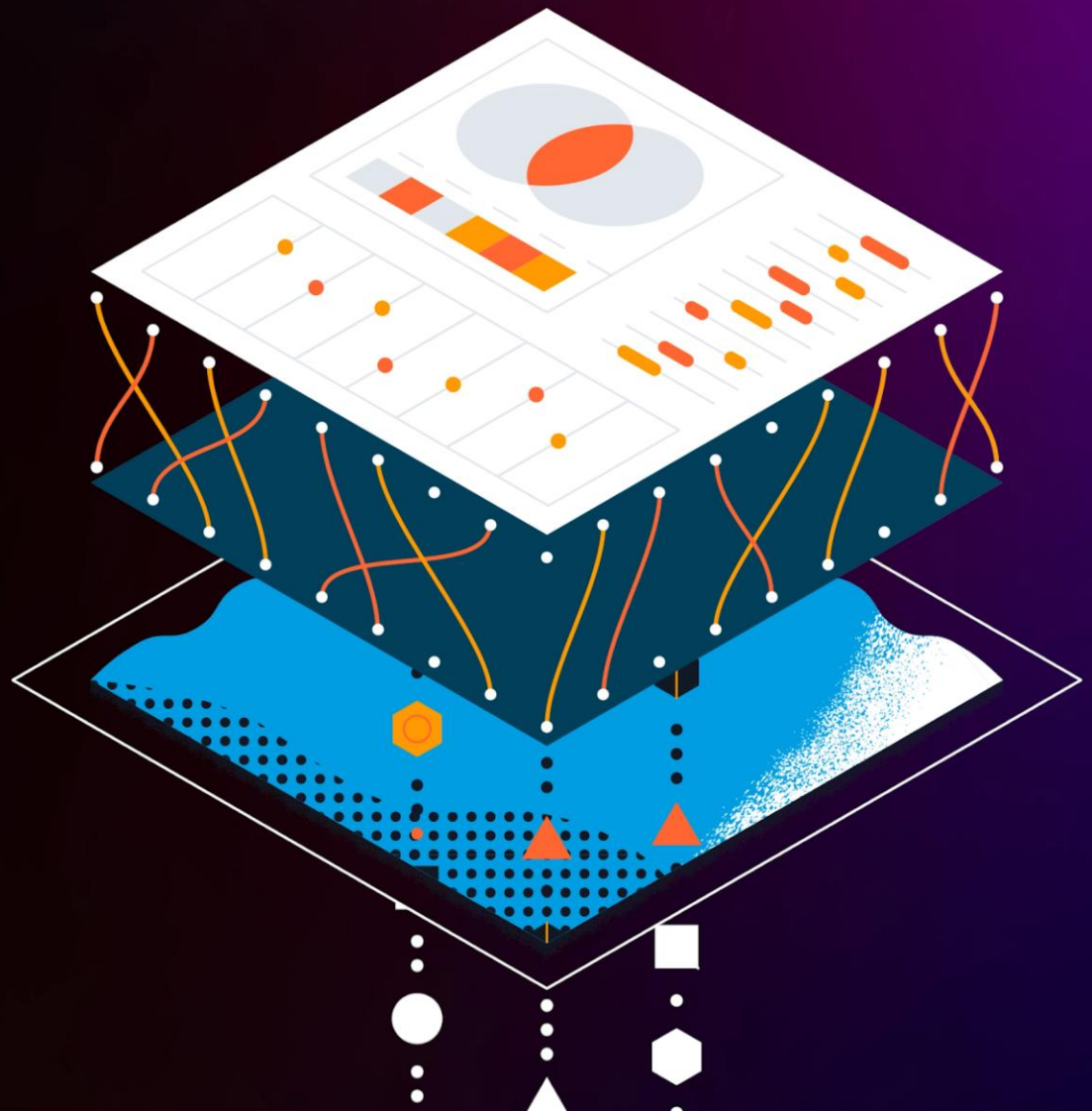
Providing the complete solution

Purpose-built Capabilities

Intelligent Insights

ML-Powered Data Association

Supply Chain Data Lake



aws

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Diving deeper into the foundation

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AWS Supply Chain Data Components

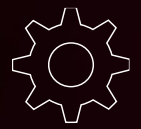
Built-in connectors



Amazon S3



EDI



ERP

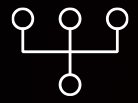


Future connectors

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AWS Supply Chain Data Components

Automated data transformation



Pre-defined recipes



ML-auto association

Built-in connectors



Amazon S3



EDI



ERP



Future connectors

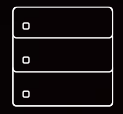
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AWS Supply Chain Data Components

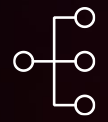
Data unification



Data models

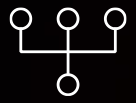


Data storage



Data partitioning

Automated data transformation



Pre-defined recipes



ML-auto association

Built-in connectors



Amazon S3



EDI



ERP



Future connectors

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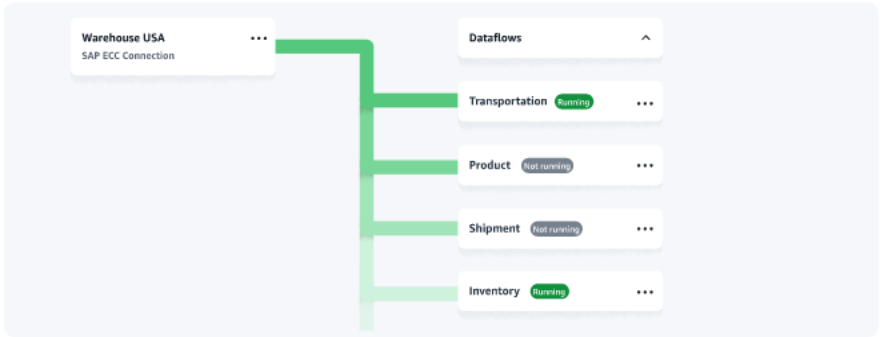
Demo: Built-in connectors

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Welcome to your AWS Supply Chain Apps data lake

This space will create a digital representation of your entire supply chain once we have connected with, ingested, and harmonized your data.



Get Started

Select data source

What type of connection do you want to create?

Search connections

- **SAP S/4HANA** (selected)
- **SAP ECC**
- **Amazon S3** — Data Upload to Amazon S3
- **EDI** — Electronic Data Interchange

Cancel | Next

Connect to SAP S/4HANA

What to expect:

1. Name and establish connection
2. Map your data fields
3. Review and confirm selections



Fill out a few details about this connection

Connection name

my-new-erp

Connection description (optional)

Describe your connection.

Application Host URL

https://test.test.test

Application Service Path

/sap/opu/odata/iwfnd/catalogservice;v=2

Port Number

443

Client Number

100

Logon Language

EN

Username

username

Password

••••••••

← Previous

Connect

Fill out a few details about this connection

Connection name

my-new-erp

Connection description (optional)

Describe your connection



Loading...

This will take a couple of minutes while we build your dataflows.

EN

Username

username

Password

••••••••

← Previous

Connect

Connection details

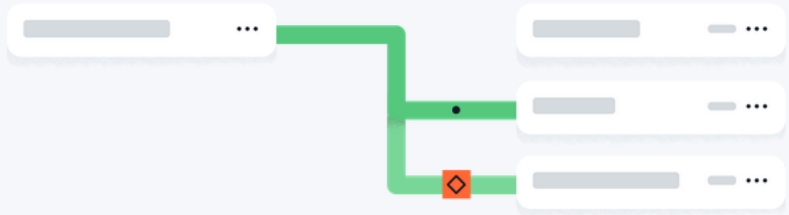
Type	Name
SAP S/4HANA	my-new-erp

Entity Groups Filter

Search Entities

NON-TRANSACTIONAL

- **Company**
  - Company
- **Geography**
  - Geography
- **Trading Partner**
  - Trading Partner
- **Site**
  - Site
  - Transportation Lane
- **Vendor Management**
  - Vendor Lead Time
  - Vendor Product



Data Mapping

Here's your opportunity to check and validate field mapping before any data ingestion begins.

1. Review your default mappings by selecting an **Entity Group** from the list to the left
2. While reviewing, you may also upload sample data files to test **Mapping Recipe** results
3. Review all your entities and confirm your selections

Get Started

Entity Groups Reviewed:
0 of 13

Accept All & Continue

Connection details

Type	Name
SAP S/4HANA	my-new-erp

Entity Groups

Filter

Search Entities

NON-TRANSACTIONAL

- **Company** (Viewing)
  - Company
- **Geography**
  - Geography
- **Trading Partner**
  - Trading Partner
- **Site**
  - Site
  - Transportation Lane
- **Vendor Management**
  - Vendor Lead Time
  - Vendor Product

Company Mapping Recipe

Select the Dataflow in a tab listed below. Upload a sample file to review your ingestions details and finalize your mapping recipe.

Required fields: 1 | Errors: 0 | Review Next Entity

Changes will be auto-saved

Company

0COMP-CODE-TEXT

Required Fields: 1

Upload sample data

Use sample datasets to validate the data mapping between source and destination fields. Datasets can contain columns and rows.

Drop your sample data file here or browse files

Accepted data formats are .csv. File size is limited to 1 MB.

Upload summary

Your upload summary will be displayed after a sample filed is uploaded above.

Field mappings

Required Source Fields	Required Destination Fields
BUKRS	id (string)

Connections | Datasets

All Connections

Search connections

Connection type: All

+ New Data Connection

my-new-erp
SAP S/4HANA

Entity Groups and Dataflows

Ingest your data to power AWS Supply Chain

Data Ingestion >

Expand Entity Groups ^

Demo: Transform data using machine learning

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Select data source

What type of connection do you want to create?

Search connections

SAP S/4HANA

SAP ECC

Amazon S3
Data Upload to Amazon S3

EDI
Electronic Data Interchange

Cancel Next

Connect to EDI

What to expect:

1. **Name and establish connection**
2. **Map your data fields**
3. **Review and confirm selections**



Connection details

Type	Name
EDI	my-edi-connection

Entity Groups Filter

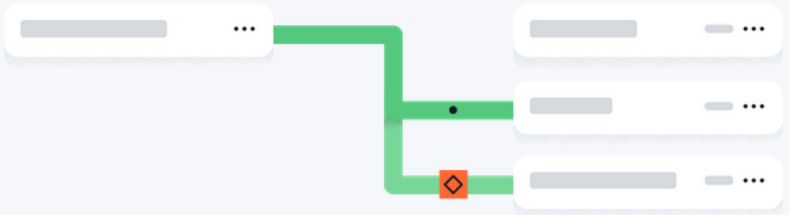
Search Entities

TRANSACTIONAL

EDI 850
- Inbound Order
- Inbound Order Line
- Inbound Order Line Schedule

EDI 860
- Inbound Order
- Inbound Order Line
- Inbound Order Line Schedule

EDI 856
- Shipment



Data Mapping

Here's your opportunity to check and validate field mapping before any data ingestion begins.

1. Review your default mappings by selecting an **Entity Group** from the list to the left
2. While reviewing, you may also upload sample data files to test **Mapping Recipe** results
3. Review all your entities and confirm your selections

Get Started

Entity Groups Reviewed:
0 of 3

Accept All & Continue

Connection details

Type	Name
EDI	my-edi-connection

Entity Groups

Filter

Search Entities

TRANSACTIONAL

EDI 850
- Inbound Order
- Inbound Order Line
- Inbound Order Line Schedule

EDI 860
- Inbound Order
- Inbound Order Line
- Inbound Order Line Schedule

EDI 856 Viewing
- Shipment

EDI 856 Mapping Recipe

Select the Dataflow in a tab listed below. Upload a sample file to review your ingestions details and finalize your mapping recipe.

Required fields **4** | Errors **0**

Review Next Entity

Changes will be auto-saved

Shipment

Shipment

Required Fields: 4

Upload sample data

Use sample datasets to validate the data mapping between source and destination fields. Datasets can contain columns and rows.

Drop your sample data file here or browse files

Accepted data formats are .txt or .edi. File size is limited to 1 MB.

Upload summary

Your upload summary will be displayed after a sample filed is uploaded above.

Field mappings

Required Source Fields	Required Destination Fields
BSN-02	id (string)
GS-02	supplier_tpartner_id

Entity Groups Reviewed:
1 of 3

Accept All & Continue

Connection details

Type	Name
EDI	my-edi-connection

Entity Groups Filter

Search Entities

TRANSACTIONAL

EDI 850
- Inbound Order
- Inbound Order Line
- Inbound Order Line Schedule

EDI 860
- Inbound Order
- Inbound Order Line
- Inbound Order Line Schedule

EDI 856 Viewing
- **Shipment**

EDI 856 Mapping Recipe

Select the Dataflow in a tab listed below. Upload a sample file to review your ingestions details and finalize your mapping recipe.

Required fields **4** | Errors **0** | Review Next Entity

Changes will be auto-saved

Shipment

Shipment
Required Fields: 4

Upload sample
Use sample data … columns and rows.

files
1 MB.

Upload summar
Your upload sum…

Field mappings

Required Source Fields		Required Destination Fields
BSN-02	Auto-association High	id (string)
GS-02	Auto-association Low	supplier_tpartner_id

AWS Supply Chain is working on auto associating source data to the destination data model

This may take a few seconds, please wait.

Entity Groups Reviewed:
1 of 3

Accept All & Continue

Connection details

Type	Name
EDI	my-edi-connection

Entity Groups

Filter

Search Entities

TRANSACTIONAL

EDI 850
- Inbound Order
- Inbound Order Line
- Inbound Order Line Schedule

EDI 860
- Inbound Order
- Inbound Order Line
- Inbound Order Line Schedule

EDI 856 Viewing
- **Shipment**

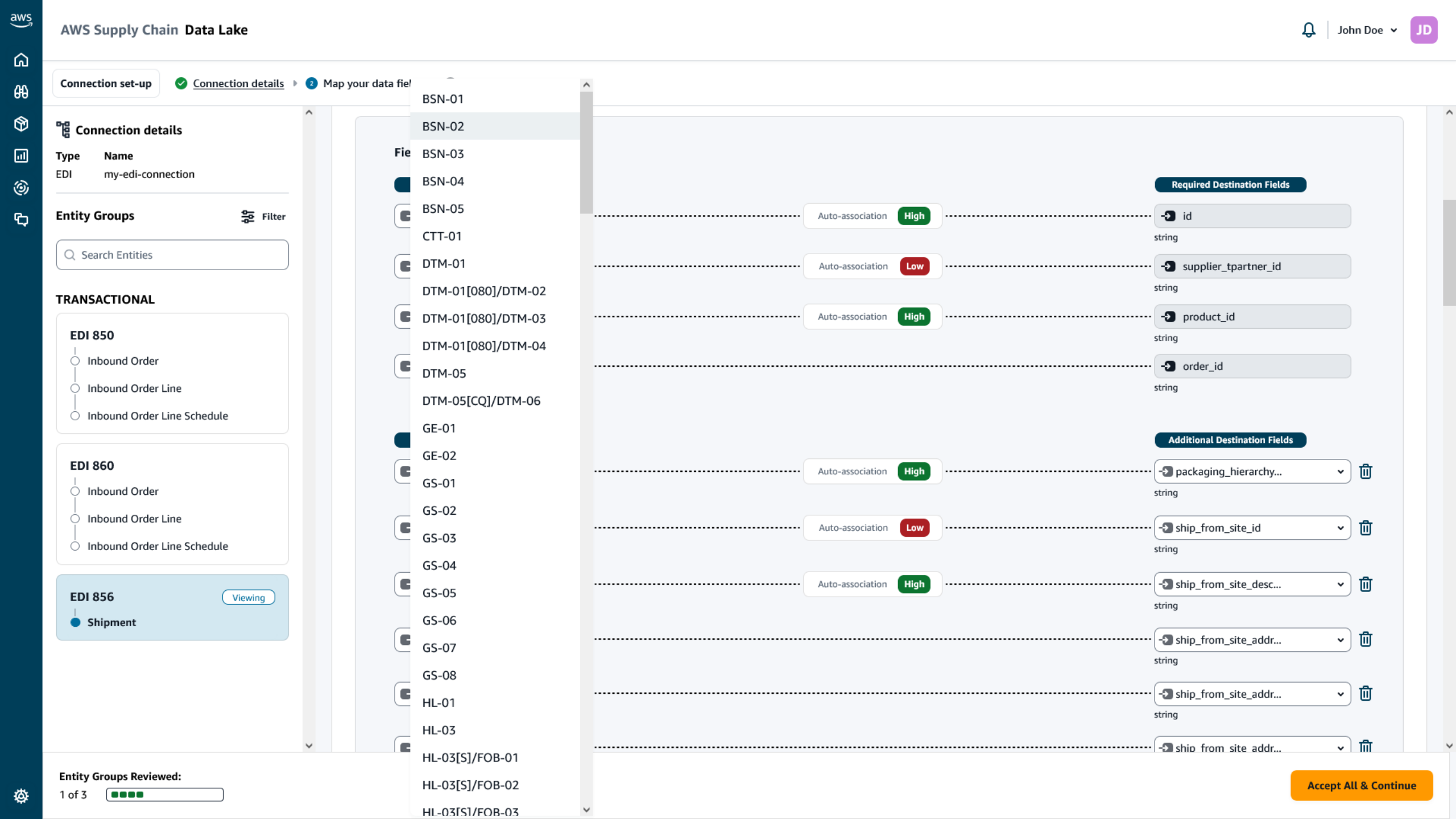
Field mappings

Required Source Fields		Required Destination Fields
BSN-02	Auto-association High	id (string)
GS-02	Auto-association Low	supplier_tpartner_id (string)
HL-03[S]/HL-03[O]/HL-03[I]/LIN-04	Auto-association High	product_id (string)
HL-03[S]/HL-03[O]/PRF-01		order_id (string)

Additional Source Fields		Additional Destination Fields
BSN-05	Auto-association High	packaging_hierarchy... (string)
...L-03[O]/N1-01[SF]/N1-04	Auto-association Low	ship_from_site_id (string)
...L-03[O]/N1-01[SF]/N1-02	Auto-association High	ship_from_site_desc... (string)
...L-03[S]/N1-01[SF]/N3-01		ship_from_site_addr... (string)
...L-03[S]/N1-01[SF]/N3-02		ship_from_site_addr... (string)
...L-03[S]/N1-01[SF]/N4-01		ship_from_site_addr...

Entity Groups Reviewed:
1 of 3

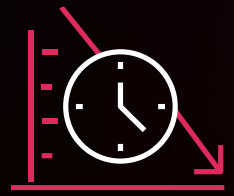
Accept All & Continue


AWS Supply Chain Data Lake
John Doe
JD
Connection set-up
Connection details
2
Map your data fiel
Connection details
Type
Name
EDI
my-edi-connection
Entity Groups
Filter
Search Entities
TRANSACTIONAL
EDI 850
Inbound Order
Inbound Order Line
Inbound Order Line Schedule
EDI 860
Inbound Order
Inbound Order Line
Inbound Order Line Schedule
EDI 856
Viewing
Shipment
BSN-01
BSN-02
BSN-03
BSN-04
BSN-05
CTT-01
DTM-01
DTM-01[080]/DTM-02
DTM-01[080]/DTM-03
DTM-01[080]/DTM-04
DTM-05
DTM-05[CQ]/DTM-06
GE-01
GE-02
GS-01
GS-02
GS-03
GS-04
GS-05
GS-06
GS-07
GS-08
HL-01
HL-03
HL-03[S]/FOB-01
HL-03[S]/FOB-02
HL-03[S]/FOB-03
Required Destination Fields
Auto-association
High
id
string
Auto-association
Low
supplier_tpartner_id
string
Auto-association
High
product_id
string
order_id
string
Additional Destination Fields
Auto-association
High
packaging_hierarchy...
string
Auto-association
Low
ship_from_site_id
string
Auto-association
High
ship_from_site_desc...
string
ship_from_site_addr...
string
ship_from_site_addr...
string
Entity Groups Reviewed:
1 of 3
Accept All & Continue

Driving to these outcomes



Single source of truth



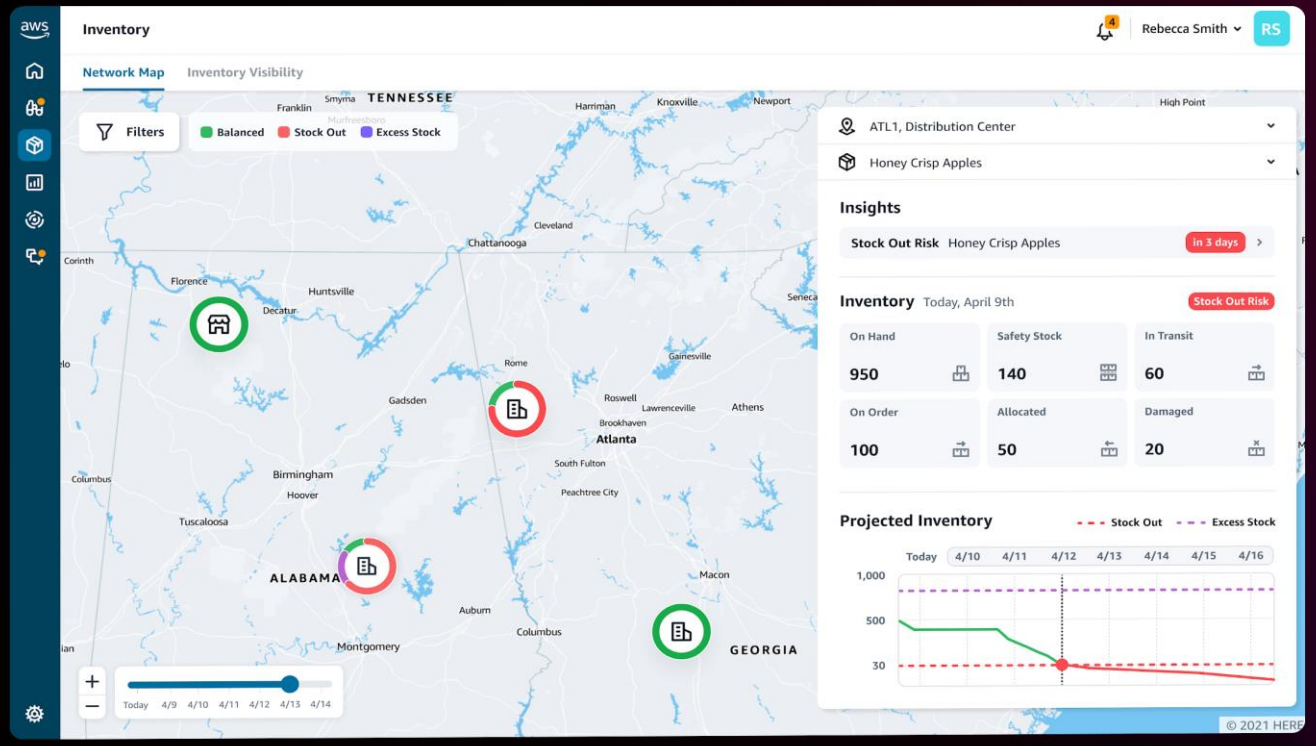
Accelerate time to value



Embrace existing systems

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AWS Supply Chain delivers key capabilities



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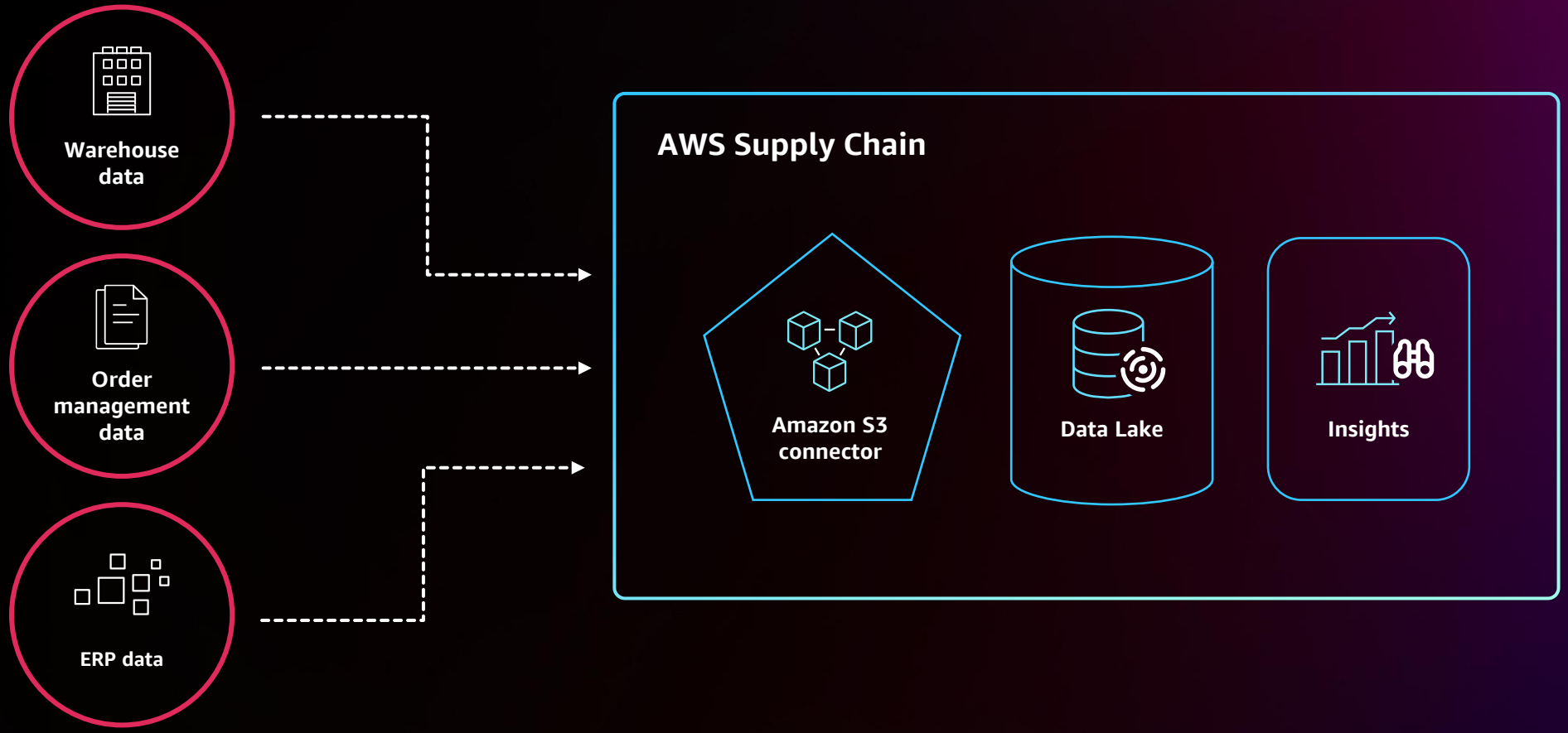


Denys Tseng

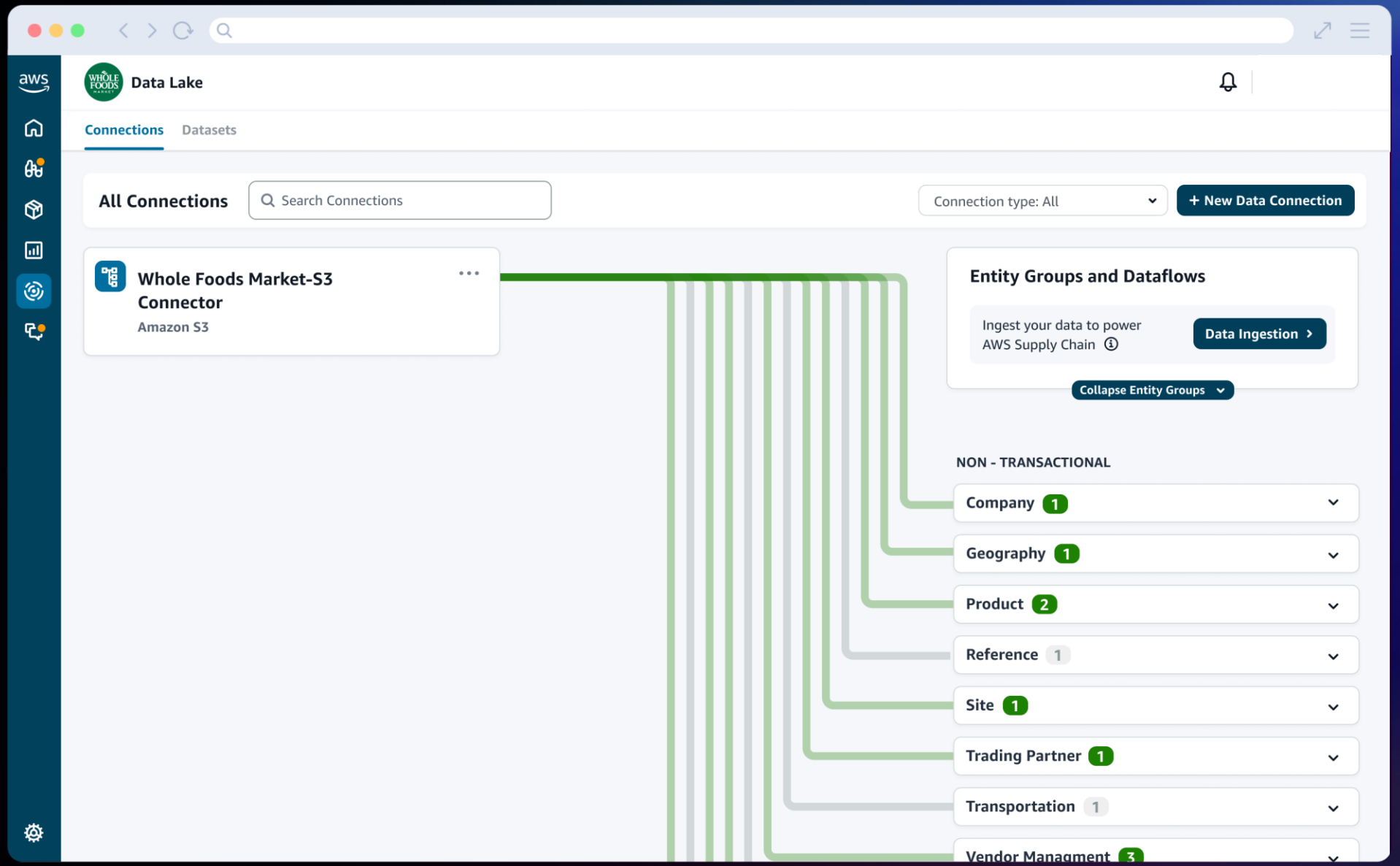
Vice President, Technology
Whole Foods Market

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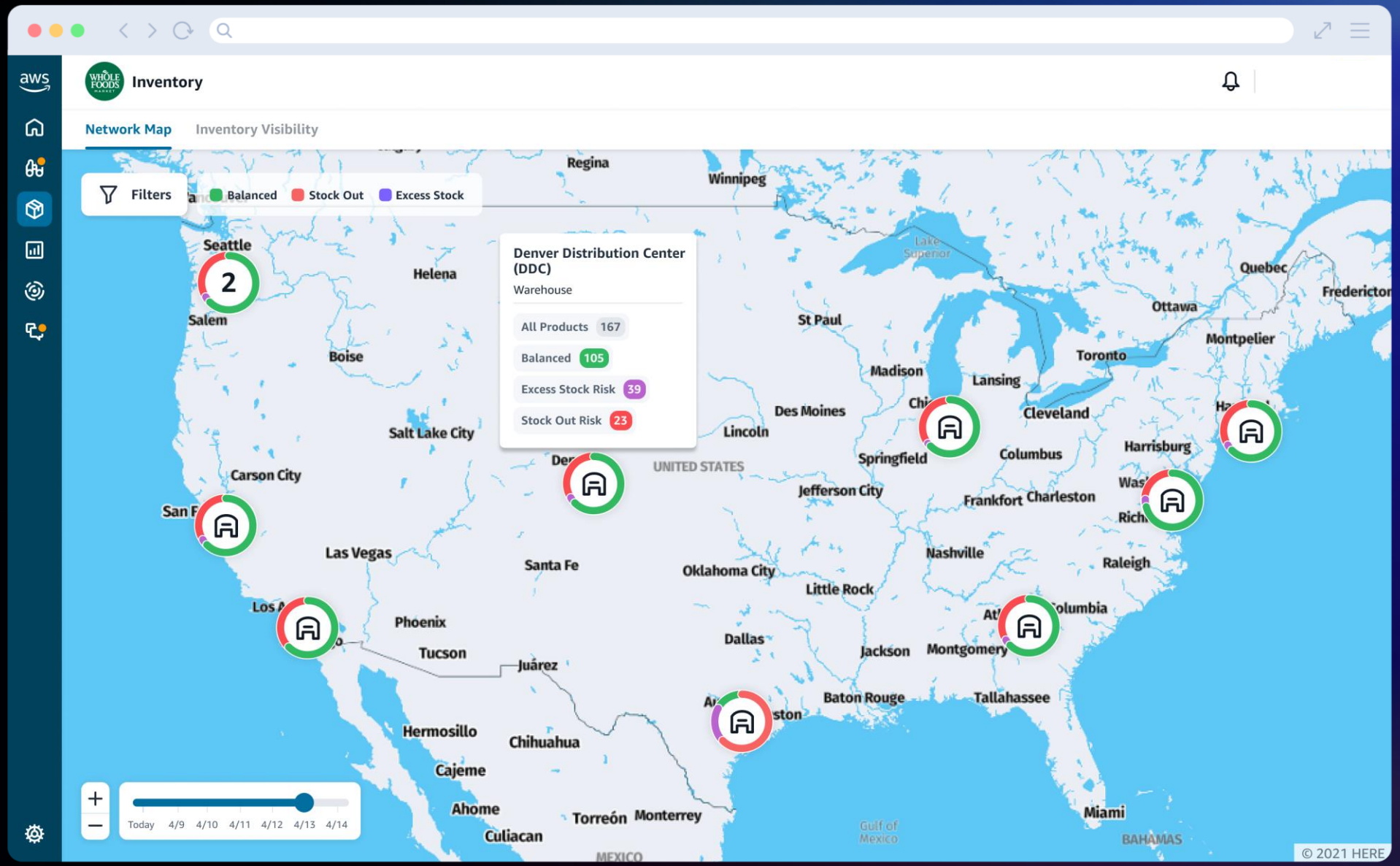
Unifying data



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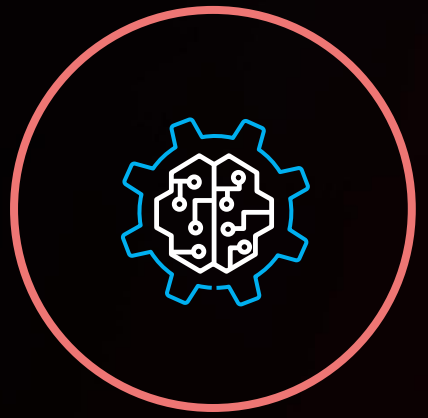


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What this means for your supply chain



Quickly gain visibility across your supply chain



Make more informed decisions



Resolve issues quickly



Mitigate risks and lower costs

All without replatforming, up-front licensing costs, or long-term contracts

aws

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Thank you!

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Denys Tseng



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