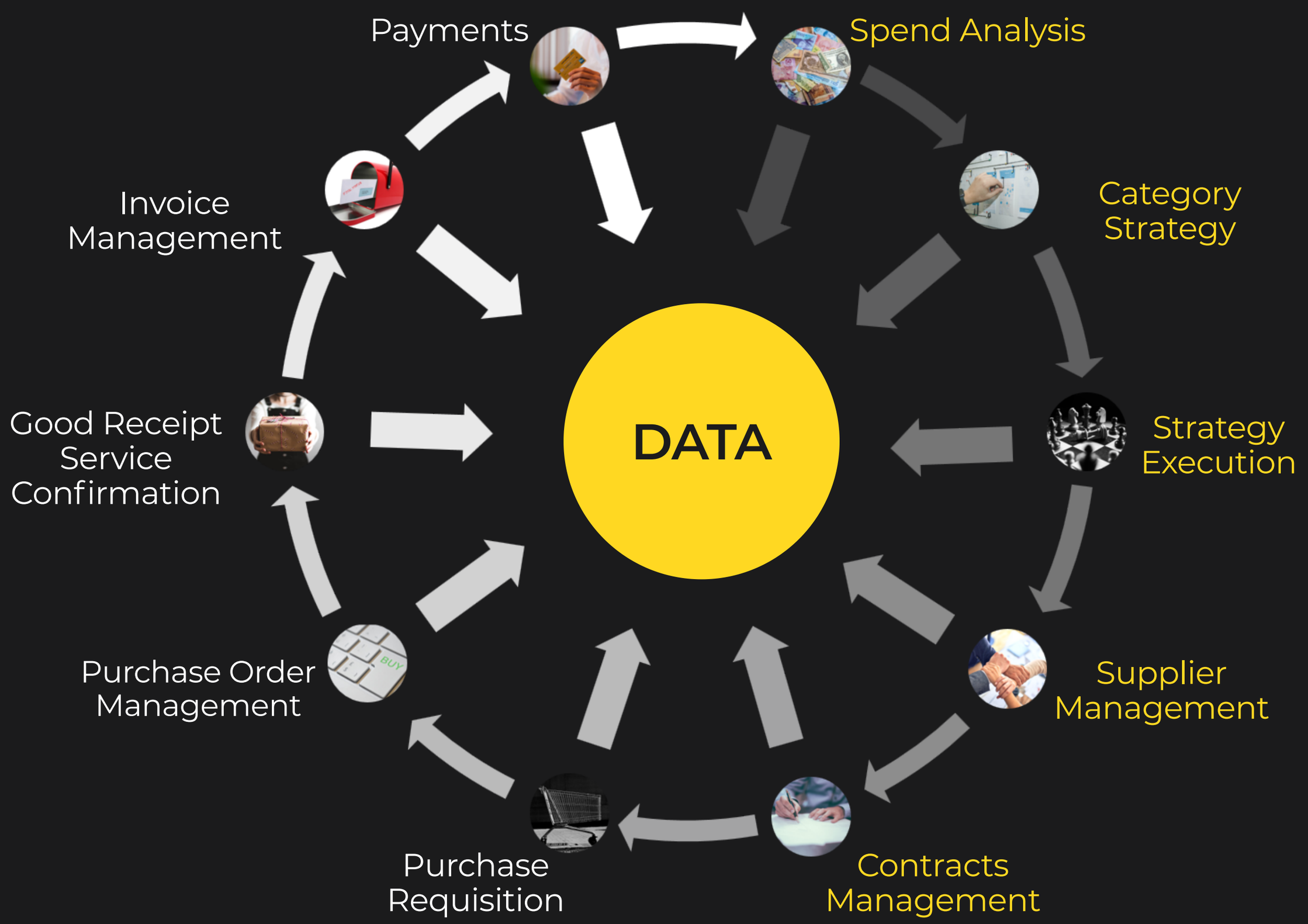
POLESTAR

# Procurement Analytics

Mapping your data journey across Source to Pay(S2P) cycle

Swipe →

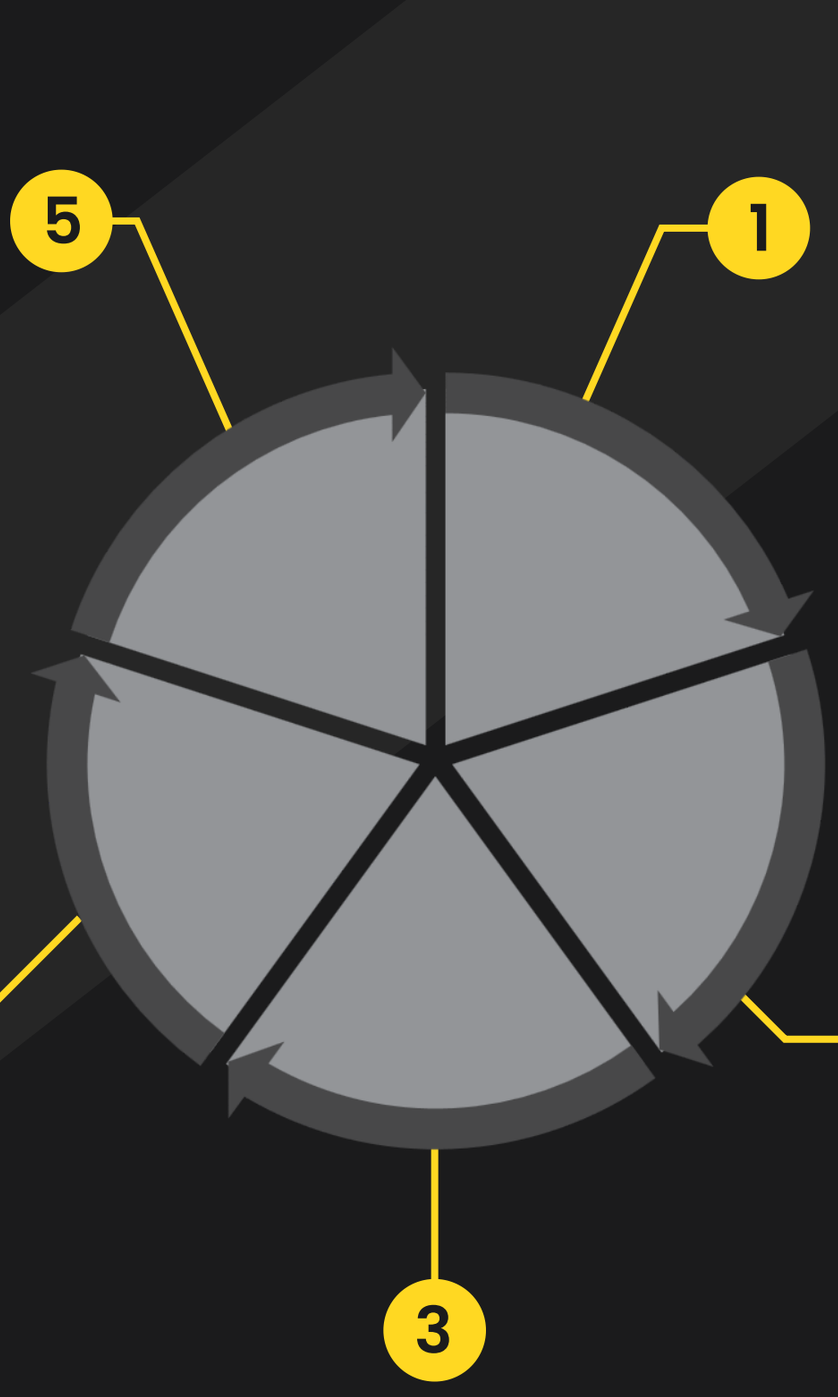
POLESTAR




Swipe →

POLESTAR

# The cycle of **Procurement Analytics**



1. Capture good quality relevant data at source
2. Store the data in a standardized Data Lake or Data Warehouse
3. Build analytics use cases out of available data estate
4. Interpret the collated data to derive meaningful insights
5. Act on the derived insights to capture incremental

Swipe →

Last week we spoke about different data sources in Source to Contract journey and complexity of incorporating those for our analytics

| Spend Analysis | Category Strategy | Strategy Execution | Supplier Management | Contract Management |
|---|---|---|---|---|

Low Medium High

Swipe →

POLESTAR

# This week, lets talk about how to connect the data sources

2 Store the data in a standardized Data Lake or Data Warehouse

Swipe →

POLESTAR

# A Quick Recap:

## Common data sources for STC process

| | |
|---|---|
| **Spend Analysis** | Invoice Paid data |
| | P CARD Level 2 Data |
| | Travel and Expense data |
| | Supplier provided line-item data |
| **Category Strategy** | Preferred supplier list |
| | Single/Sole source strategy |
| | Qualified suppliers |
| | Global/Regional/Local sourcing strategy |
| | Buying channel planning |
| **Strategy Execution** | RFX/Auction Event meta-Data |
| | Award Information |
| | Negotiated prices |
| | Supplier evaluation information |
| **Supplier Management** | Vendor Master |
| | Performance survey data |
| | PO and Invoice line level Data |
| | Receipt and Service confirmation Data |
| | Returns and Credit memo Data |
| **Contract Management** | Contracts meta-Data |
| | Obligations and other contract data collated via OCR |

Swipe →

There are several ways to load data into Data Lake

For our use case, **3 ways** may be most relevant

**API Connection**

Batch process of flat files

Manual data entry

Automated connection with Source system that can push the data directly from source to destination

Swipe →

POLESTAR

There are several ways to load data into Data Lake

For our use case, **3 ways** may be most relevant


Data may be collected from various sources in a specific format and kept in a staging area.

An automated process can pick the files from the pre-defined folder at a pre-set frequency to load the data into Data Lake

Swipe →

There are several ways to load data into Data Lake

For our use case, **3 ways** may be most relevant

API Connection

Batch process of flat files

Manual data entry

Many ad hoc data points may not suit a specific batch file process. In those cases, data entry may be made via some tool, application or CSV files

Swipe →

# Common data load methods for STC data sources
# Depending on technological maturity

API Connection

Batch process of flat files

Manual data entry

- Invoice Paid data
- Vendor Master
- Travel and Expense data
- PO and Invoice line level Data
- Receipt and Service confirmation Data
- Returns and Credit memo Data
- Contracts meta-Data

# Common data load methods for STC data sources
# Depending on technological maturity

API Connection

**Batch process of flat files**

Manual data entry

- P CARD Level 2 Data
- Supplier provided line-item data
- Performance survey data
- Negotiated prices
- Supplier evaluation information
- RFX/Auction Event meta-Data

Swipe →

# Common data load methods for STC data sources
# Depending on technological maturity

API Connection

Batch process of flat files

**Manual data entry**

- Preferred supplier list
- Single/Sole source strategy
- Award Information
- Qualified suppliers
- Global/Regional/Local sourcing strategy
- Buying channel planning
- Obligations and other contract data collated via OCR

Swipe →

Invoice Paid data

Vendor Master

Travel and Expense data

PO and Invoice line level Data

Receipt and Service confirmation Data

Returns and Credit memo Data

Contracts meta-Data

P CARD Level 2 Data

Supplier provided line-item data

Performance survey data

Negotiated prices

Supplier evaluation information

RFX/Auction Event meta-Data

Preferred supplier list

Single/Sole source strategy

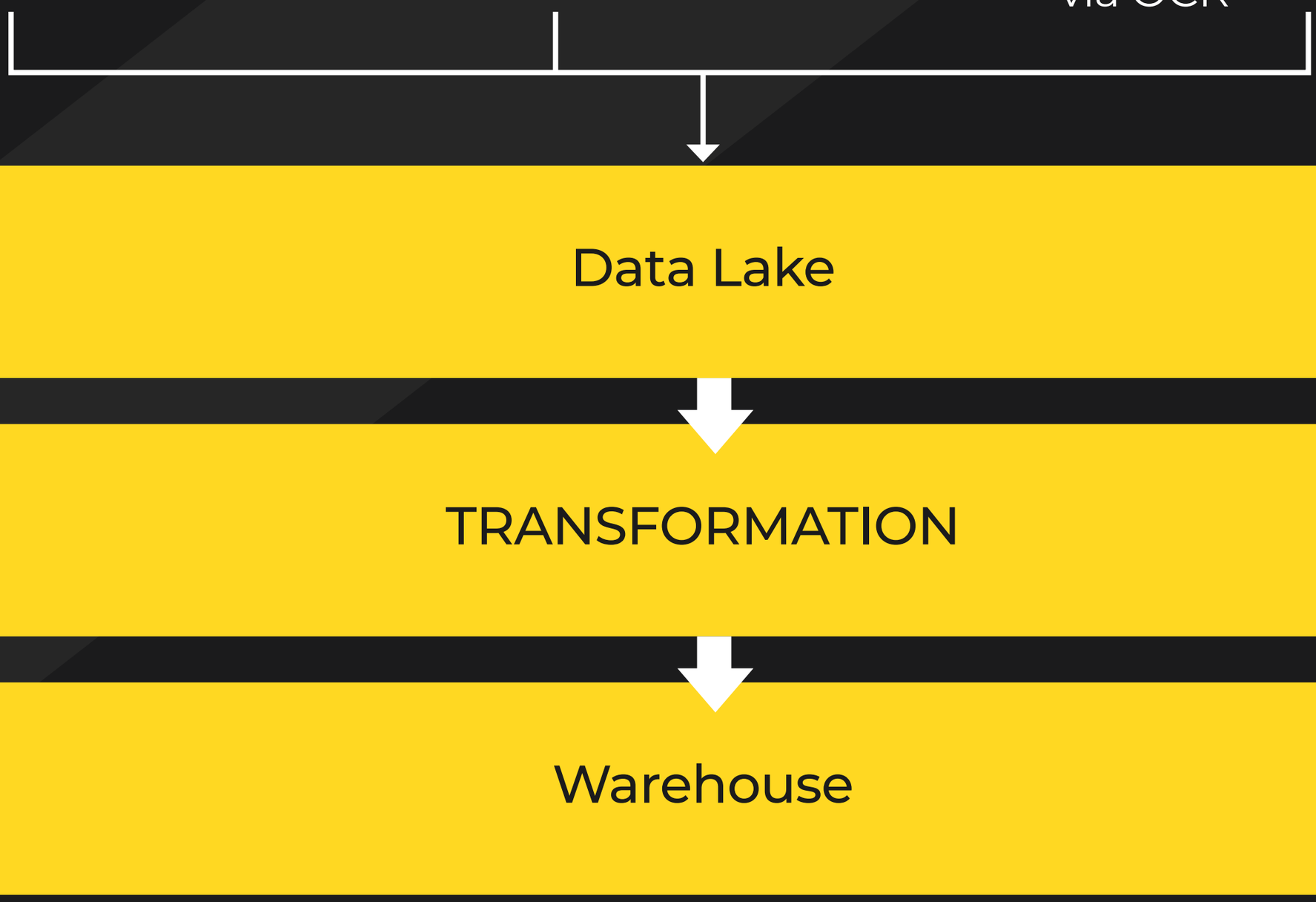
Award Information

Qualified suppliers

Global/Regional/Local sourcing strategy

Buying channel planning

Obligations and other contract data collated via OCR




Swipe →

POLESTAR

# THE TRANSFORMATION PROCESS (1/3)

## STANDARDIZE

- Category Names/ID
- BU Names/ID
- Geography Names/ID
- User Information
- Item Master mapping
- Vendor Names/ID
- Date Time stamps
- Currency
- Payment Terms
- Other Master Data

Swipe →

# THE TRANSFORMATION PROCESS (2/3)

## LINK DATA

Strategy data to sourcing
data using C,B,R

Sourcing data to Supplier
Data using Supplier ID

Contract Data to Supplier
data using Supplier ID

PO Data to Contract
data using Supplier ID

Invoice data to PO
data using PO #

Receipt data to Invoice
data using PO #

Swipe →

# THE TRANSFORMATION PROCESS (3/3)

## DATA QUALITY & COMPUTATIONS

Remove duplicate records

Complete partial records

Remove unnecessary data columns

Supplement missing data based on logic and rules

Perform all required calculations

Augment Machine learning models and services

Swipe →

POLESTAR

# The last mile

After the completion of extraction and Transformation part of ETL, the last leg of the journey is loading of the cleansed data into the Data Warehouse

Swipe →

POLESTAR

# The transformation process will help us connect all major processes with each other to derive intelligence across all interconnected process steps




Swipe →

POLESTAR

# Next week

we will look at some of the **powerful metrics** we may be able to derive out of this interconnected data estate we built for STC processes