

WASHINGTON, D.C., MAY 4-6, 2026

# INNOVATE

JMT Consulting

**JMT**  
CONSULTING

THE EXPERTS IN  
MISSION-DRIVEN  
NONPROFIT FINANCE

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# Auditing & Assessing Data Integration Accuracy

## *Building Trust in Third-Party Feeds*

How finance teams validate, monitor,  
and govern data flowing into the GL



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## Map Data Movements: End-to-End Lineage

Visualize and document the flow of data from point-of-origin to Sage Intacct General Ledger

Active Monitoring



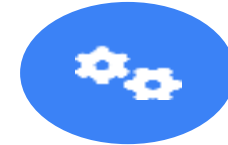
**Data Sources**  
Payroll, CRM, AP/AR



**Ingestion**  
SFTP/API/Stream



**Landing/Staging**  
Raw Data Storage



**Transform/Enrich**  
Data Processing



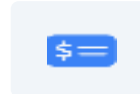
**Validation**  
Quality Checks



**Sage Intacct**  
General Ledger



**Bank Reconciliations**  
Financial Source



**Payroll System**  
HR Data



**CRM**  
Customer Data



**AP/AR**  
Invoices & Receipts

### Data Quality Controls

Active

- Record count validation
- Hash checksum verification
- Referential integrity check

### Processing Metrics

On Track

98.5%

Success Rate  
+2.1%

1.2s

Avg Latency  
-0.3s

### Data Drift Detection

Monitoring

- Schema drift detection
- Data type validation
- Null value tracking

Normal Warning Error → Data Flow Secure

## Document the Flow - Lineage & Data Contracts

Active Monitoring

### Sage Intacct Data Lineage

Active

**1 Source Systems**  
Bank Reconciliations, Payroll, CRM, AP/AR

Validated

**2 Integration Platform**  
Middleware/API orchestration

Flowing

**3 Data Translation & Rules**  
Formatting to Intacct dimensions/entities

Active

**4 Sage Intacct**  
General Ledger / Sub-ledgers posting

Synced

Lineage ID: SAGE-INT-2026-0424

### Data Stewardship

**JD John Doe**  
Controller / System Owner

**SM Sarah Miller**  
Integration Architect

### Intacct Field Mapping & Data Contracts

Contract v2.4

Source Entity ID  
**ext\_record\_id**

Intacct Target Dimension  
**LOCATIONID / DEPTID**

Data Type Constraint  
**STRING (Max 20 chars)**

Transformation Rule  
**Cross-reference table lookup**

source.txn\_amount → TRX\_AMOUNT

source.gl\_account\_str → GLACCOUNTNO

source.entry\_date → WHENDATA (MM/DD/YYYY)

source.memo\_desc → DESCRIPTION

source.vendor\_id → VENDORID

source.class\_code → CLASSID

#### Intacct Validation Rules Applied Pre-Sync:

- Check balanced entries: Sum of debits must equal sum of credits within journal transaction
- Verify Open Period: Target GL date must fall within an open financial period in Intacct
- Required Dimensions: Ensure Location, Department, and Vendor IDs exist in target instance
- Deduplication check: Validate custom ext\_record\_id hasn't been posted previously

## Verification Protocols - Reconciliations & Controls

Execute systematic checks to verify that totals and record counts remain intact

Active Monitoring

### Record Count Validation

Active

Check Type	Status	Owner
Source vs Target	Pass	Data Team
Delta Threshold	Pass	Data Team
Record Count	Pass	Data Team

**98.5%**  
Success Rate

**1.2s**  
Avg Time

### Hash/Control Totals

Active

Check Type	Status	Owner
Amount Hash	Pass	Finance
Quantity Check	Warning	Finance
Control Total	Pass	Finance

**99.8%**  
Accuracy

**0.3s**  
Check Time

### Sequence Validation

Active

Check Type	Status	Owner
Gap Detection	Pass	IT Team
Duplicate Check	Pass	IT Team
Sequence Integrity	Warning	IT Team

**97.2%**  
Coverage

**0.5s**  
Check Time

### Referential Integrity

Active

Check Type	Status	Owner
Foreign Keys	Pass	DB Team
Parent-Child	Pass	DB Team
Orphan Records	Pass	DB Team

**99.9%**  
Integrity

**0.2s**  
Check Time

### Period Completeness

Active

Check Type	Status	Owner
Cutoff Date	Pass	Finance
Period Balance	Pass	Finance
Missing Records	Warning	Finance

**95.5%**  
Complete

**1.1s**  
Check Time

### Late Arrivals

Active

Check Type	Status	Owner
Orphan Check	Pass	Ops Team
Late Records	Warning	Ops Team
SLA Tracking	Pass	Ops Team

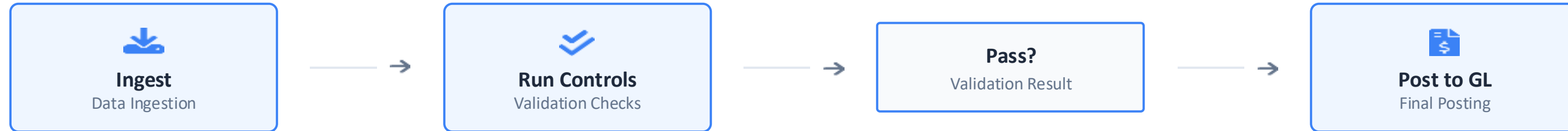
**94.3%**  
On Time

**2.5s**  
Check Time

## ⚠ Exception Handling & Alerting Flow

Execute systematic checks to verify that totals and record counts remain intact

🛡 Active Monitoring



**Yes - Post to GL**  
Data validated successfully

**No - Quarantine**  
Data validation failed

### Quarantine Zone

✔ Active

- Auto-retry policy: 3 attempts
- Quarantine duration: 24h
- Ticket generation: Automatic

### Severity Tiers

✔ Configured

● Critical ● High ● Medium ● Low

✉ Email 🗨 Slack 🏠 SIEM

### Escalation Path

✔ Active

- Level 1: IT Support (15 min)
- Level 2: Data Services Team (30 min)
- Level 3: Management (1 hour)

### Root Cause Analysis

✔ Active

🔍 Data Quality 🔍 Schema Drift 🔍 Missing Data

### Audit Trail

✔ Immutable

🕒 24h retention 📄 Full log

# Evaluate Data Quality - Detecting Data Drift

Monitor distribution shift, PSI, null rates, and schema changes

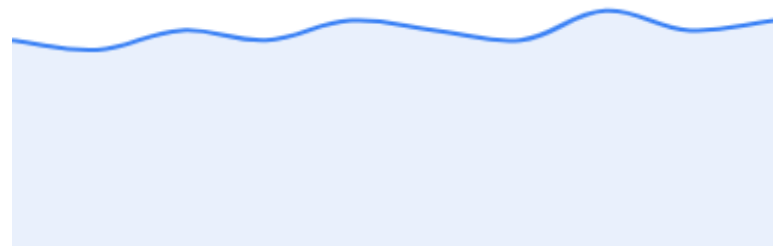
Active Monitoring

PSI Score

0.023

Population Stability Index

↑ +0.001 from yesterday

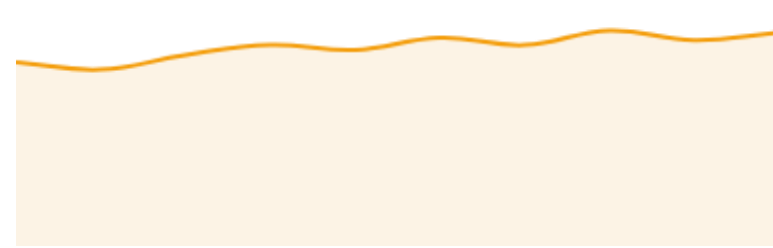


KS Test

0.087

Kolmogorov-Smirnov

↑ +0.012 from yesterday



Null Rate

2.3%

Missing Values

↓ -0.5% from yesterday



Cardinality

1,247

Unique Values

↑ +12 from yesterday



Schema Drift

3

Fields Changed

↑ +2 from yesterday

New

2

Removed

1

Modified

0

Alerts

7

Active Alerts

↑ +3 from yesterday

**Null rate exceeded threshold**  
Customer\_Profile\_DB | 2 min ago

Baseline

30 days

Rolling Window

— Stable

30-day Average

98.5%

90-day Average

97.2%

Quality Score

94.5%

Overall Quality

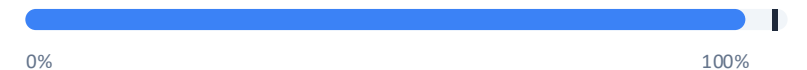
↑ +1.2% from yesterday

Current

0%

Target: 98%

100%



# Third-Party Feeds - Consistency & Reliability

Vendor quality metrics, schema validation, and SLA monitoring

Active Monitoring

## Vendor Quality Metrics

Active

### Vendor A

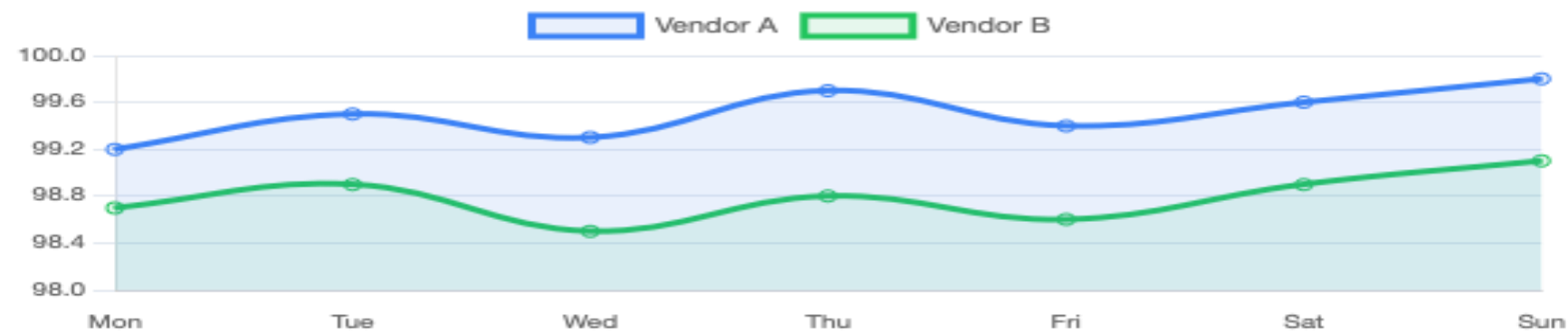
99.2% Uptime  
0.8s Latency  
0.02% Error Rate

Active

### Vendor B

98.7% Uptime  
1.2s Latency  
0.05% Error Rate

Active



SLA: 99.5% Uptime Target

24h MTTR

## Schema Validation

Field	Type	Status	Last Check
transaction_id	VARCHAR(50)	Valid	2 min ago
amount	DECIMAL(15,2)	Valid	2 min ago
currency	VARCHAR(3)	Warning	5 min ago

## Vendor Scorecards

Updated

98.5%  
Data Quality  
↑ 2.3%

0.8%  
Defect Rate  
↓ 0.5%

4.2h  
MTTR  
↑ 0.5h

Cross-Feed Reconciliation 98.7% match

Timeliness SLA 99.2% on time

Missing File Alerts Last 24h: 2

Vendor A  
0 alerts

Vendor B  
2 alerts



# Expose Hidden Manual Processing - Shadow Workflows

Identify manual touchpoints and edits across Operations, Finance, and IT roles

↑ Active Monitoring

## ↓ Process Flow Analysis

● Manual ● Automated ● Error

**Operations**  
Data Entry

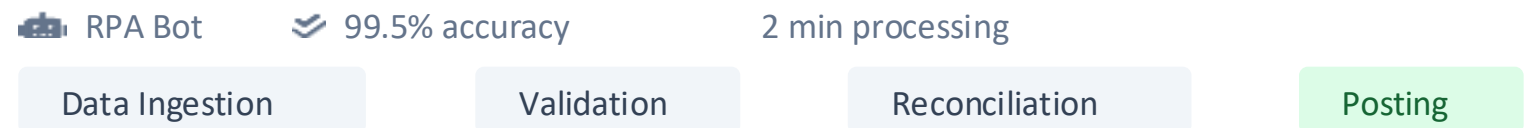
### Manual Data Entry



↑ Manual

**Finance**  
Reconciliation

### Automated Reconciliation



Automated

**IT**  
System Integration

### IT System Integration



! Warning

Manual Touchpoints

**12**

↑ +3 from yesterday  
Active manual processes

Cycle Time

**45 min**

↓ -15 min from yesterday  
Average processing time

Error Rate

**2.3%**

↑ +0.5% from yesterday  
Manual processing errors

Automation Rate

**87.5%**

↑ +2.1% from yesterday  
Process automation

! **Warning:** 3 manual processes detected with high error rates. Consider automation for data entry and reconciliation tasks.

3

# Risk & Remediation - From Manual to Automated

Prioritization strategy, standardization, and change management

Active Implementation

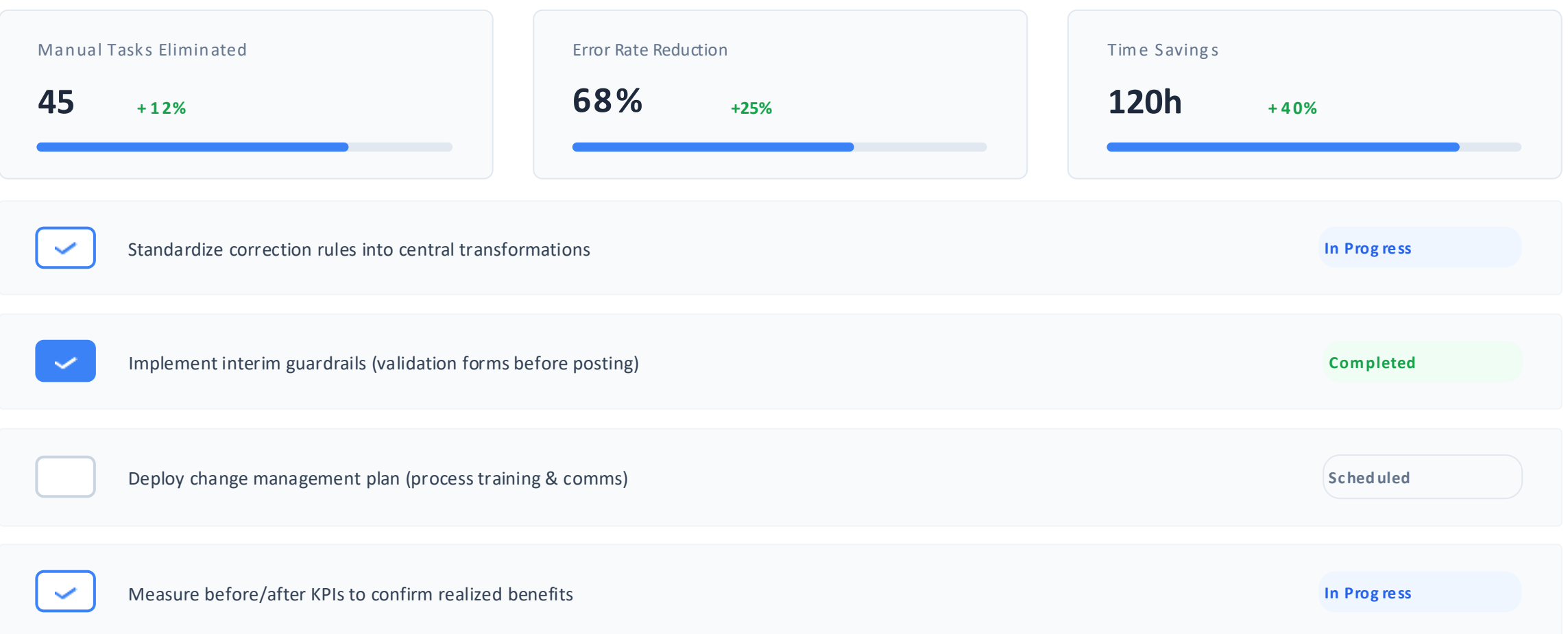
## Automation Prioritization Matrix



Data Entry Automation	85% complete
Document Processing	72% complete
Validation Rules Engine	90% complete

## Implementation Progress & KPIs

On Track




# Establish Integration Governance: Operating Model

Define clear roles, responsibilities, and processes for data integration governance

 Active Governance

## RACI Matrix

 Export

Activity	Data Steward	Integration Engineer	Business Owner	Compliance
Design	R	A	C	I
Build	I	R	A	C
Test	C	R	A	I
Deploy	I	R	A	C
Monitor	R	A	C	I

**Data Quality**  
Validation rules & standards

**Access Control**  
Permissions & security


**Lineage**  
Data flow tracking

## Governance Bodies

 Add

-  **Data Steering Committee**  
Strategic oversight, budget approval, policy decisions  Monthly
-  **Data Council**  
Technical standards, architecture decisions  Weekly
-  **Data Quality Team**  
Quality monitoring, issue resolution  Daily

 **Meeting Cadence**  
Daily standups, weekly reviews

 **Documentation**  
Updated quarterly

# Monitoring KPIs & Reporting Cadence

Governance dashboard with key metrics, thresholds, and continuous improvement

Active Monitoring

## Completteness %

98.5%

Data Completteness  
+0.5% from last week



## Reconciliation Pass

94.2%

Pass Rate  
+1.2% from last week



## Exception Aging

2.3 days

Avg. Resolution Time  
-0.5 days from last week



## Drift Alerts

7

Alerts per week  
+2 from last week

High  
2

Med  
3

Low  
2

## Time-to-Post

4.2 hrs

Avg. Processing Time  
-0.3 hrs from last week



## SLA Adherence

96.8%

SLA Compliance  
+1.5% from last week



## Top 5 Systemic Issues & Continuous Improvement

● 95%+ Good   ● 80-95% Warning   ● <80% Critical

Data validation errors in third-party feeds (Critical)  
Owner: Data Team | Status: In Progress

Delayed reconciliation processes (Warning)  
Owner: Finance Team | Status: Pending

Manual data correction workflows (Resolved)  
Owner: Ops Team | Status: Completed

## Summary:

Think of this like a health monitoring system for your Sage Intacct integrations.

You're making sure:

1. Data gets to the right place (Slides 3-4)
2. It's accurate before it posts (Slides 4-5)
3. You catch problems early (Slides 6-7)
4. Eliminate manual work (Slides 9-10)
5. Everyone knows their role (Slides 11-12)

**Bottom line:** Clean data → Accurate financials → Better decisions → Easier audits

## Terms in Plain English

**Cardinality = “How many different values exist”**

- Normal: Good
- Suddenly different: Something’s wrong

**Data Drift = “Your data is acting weird compared to normal”**

- Like when your electric bill suddenly doubles for no reason

**Hash = “A digital fingerprint that proves data wasn’t changed”**

- Like a tamper-evident seal on a medicine bottle

**Hash Total = “Adding up ID numbers to make sure nothing got lost in transit”**

- Not real money, just a verification trick

**SFTP = “Secure way to send files over the internet”**

- Like using an armored truck instead of regular mail

**SIEM = “Security guard that watches everything and raises alarms”**

- Monitors who’s accessing your data and catches suspicious behavior

1. Data Drift and Cardinality are specifically shown on Slide 7 (Evaluate Data Quality)
2. Hash totals are mentioned in Slide 5 (Verification Protocols)
3. SFTP is commonly used for file transfers from banks, payroll providers, and donation platforms
4. SIEM is relevant for audit trails mentioned in Slide 6 and governance monitoring in Slides 11 - 12

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