# Putting Data at the Center of your Constuction Business

Jason Burns Tilson August 7<sup>th</sup>, 2024

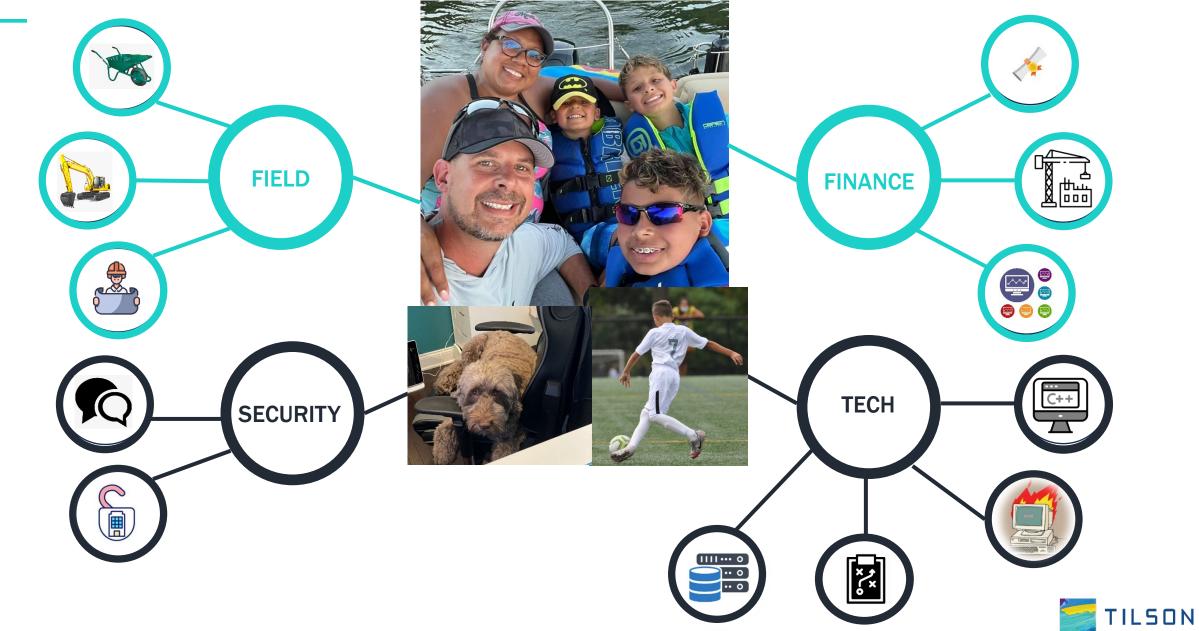


#### **AGENDA**

- Introduction
- Understanding ERP Systems
- The Rise of Data-Centricity
- Leveraging ERP Systems within a Data-Centric Framework
- Benefits of Data-Centricity
- Case Study: Success Stories of Data-Centric Transformation
- Future Proofing Construction Operations
- Q&A
- Key Takeaways / How to get started



## **WHO I AM**



## **INTRODUCTION TO TILSON**

- Recognized 13 consecutive years on the Inc. 5000 list, one of the most prestigious rankings for the nation's fastest-growing private companies
- Organically grown construction consulting and telecommunications services firm designing, engineering, permitting and constructing fiber and wireless telecommunications network infrastructure
- 1,400+ employees in 25+ office locations nationwide
- 60+ Construction consulting full-time employees with 30+ in contingent workforce
- Nationwide licensed professional engineer
- Nationwide licensed telecom contractor and electrician in many states

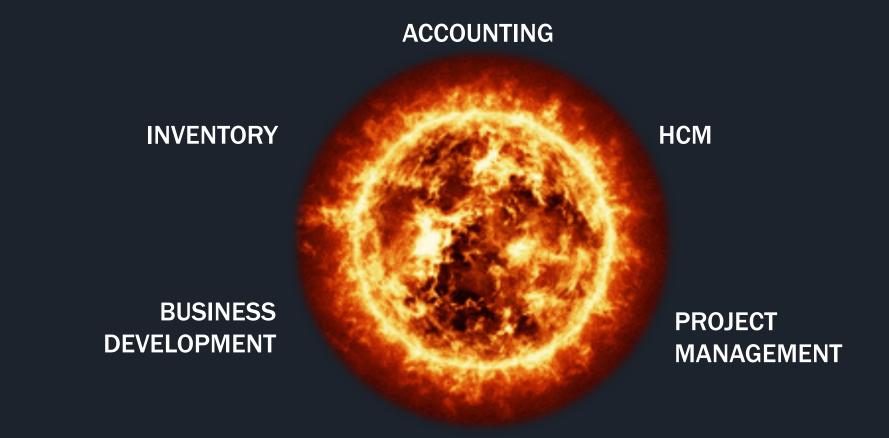












TILSON

ANALYTICS





## FP&A Scheduling

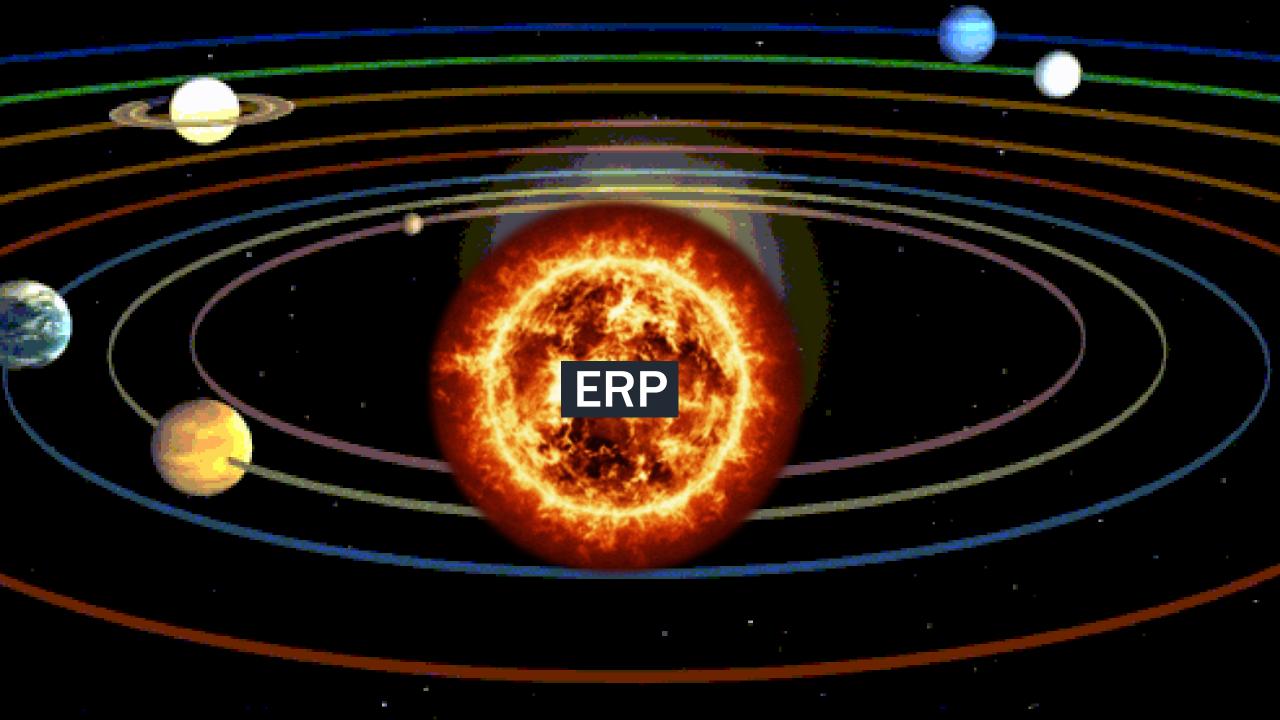


# Flee

Safety

BIN

Payroll





#### ERP = DATA & INPUT & CONTROLS





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#### **ERP = ANALYTICS & INPUT & CONTROLS**





#### **ERP = ANALYTICS INPUT & CONTROLS**



## Safety

BI

Payroll

# Scheduling

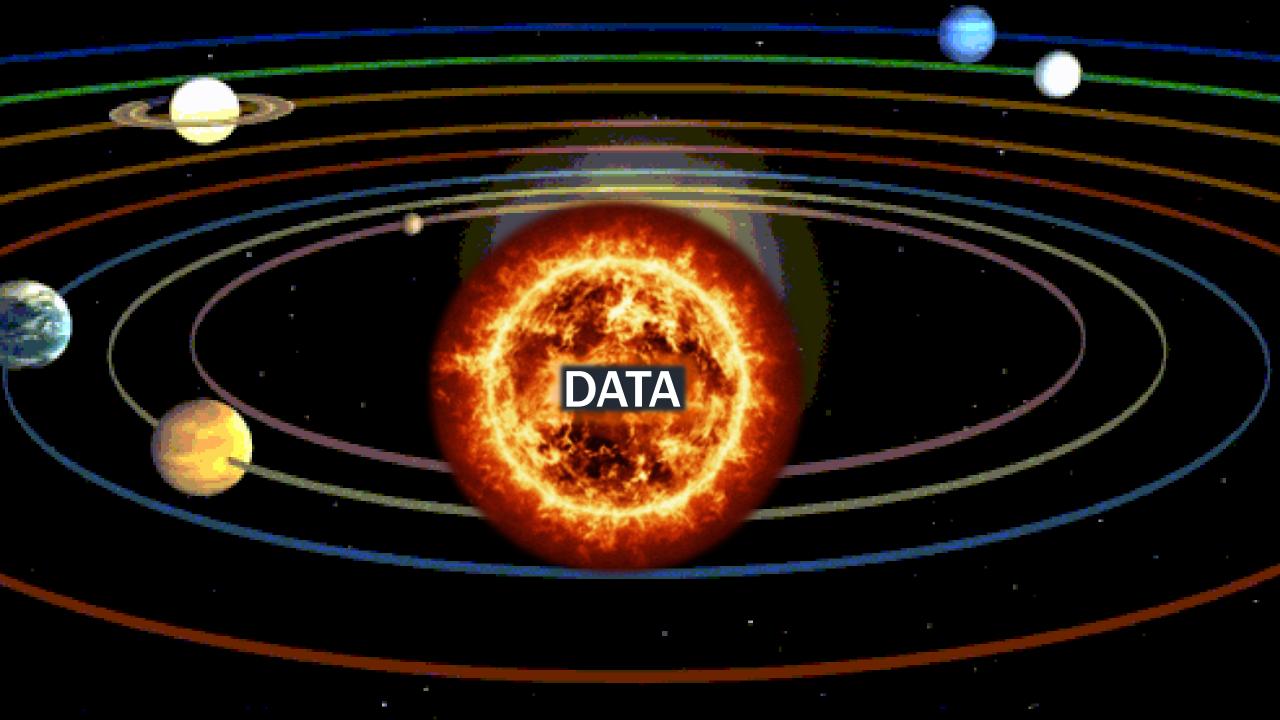
## DATA

FP&A

ERP

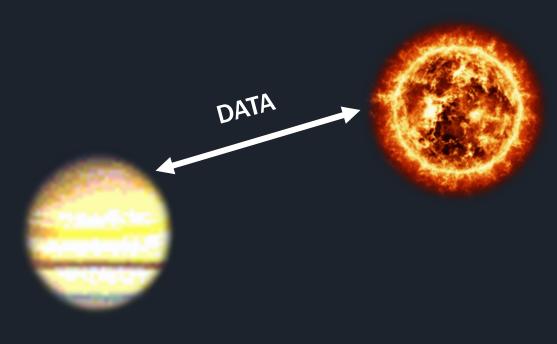
# Flee

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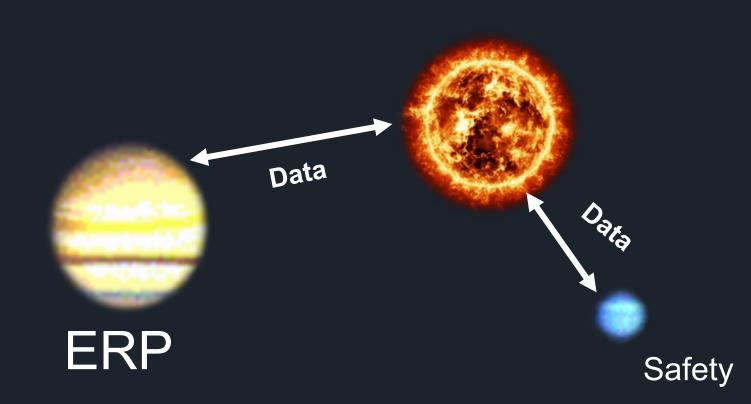
DATA



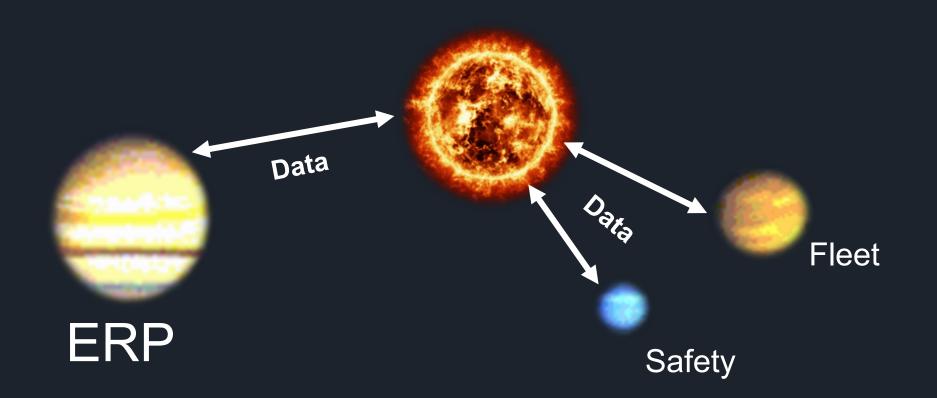




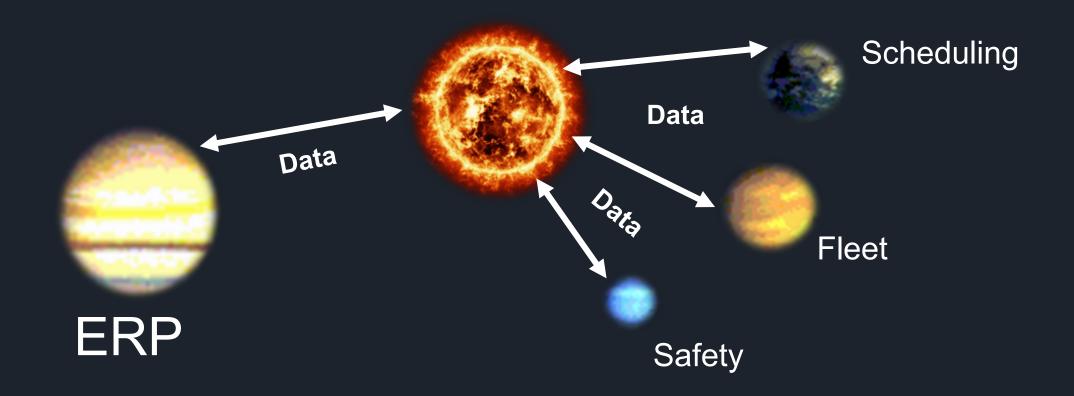










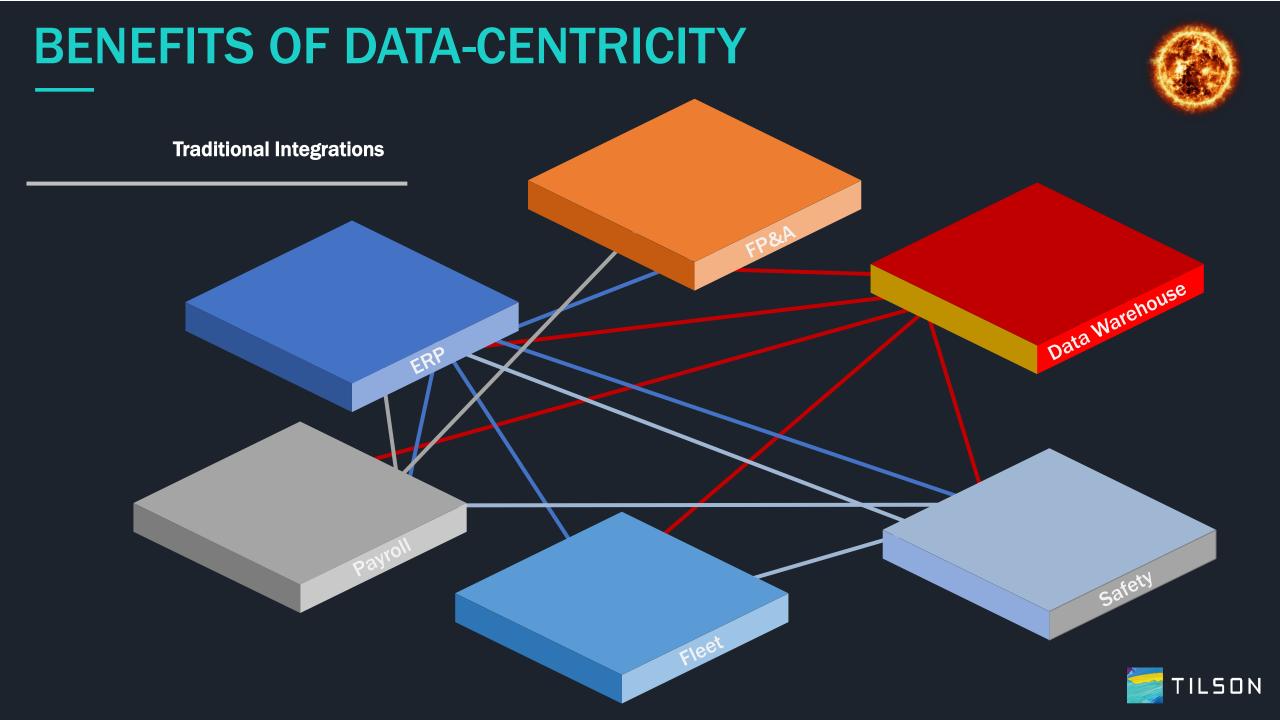






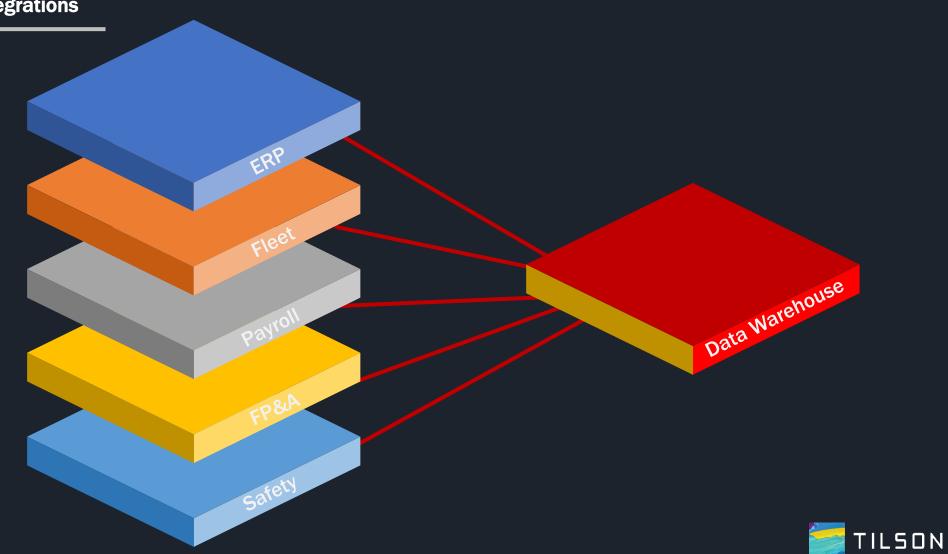
## **REPORTING AND ANALYTICS**

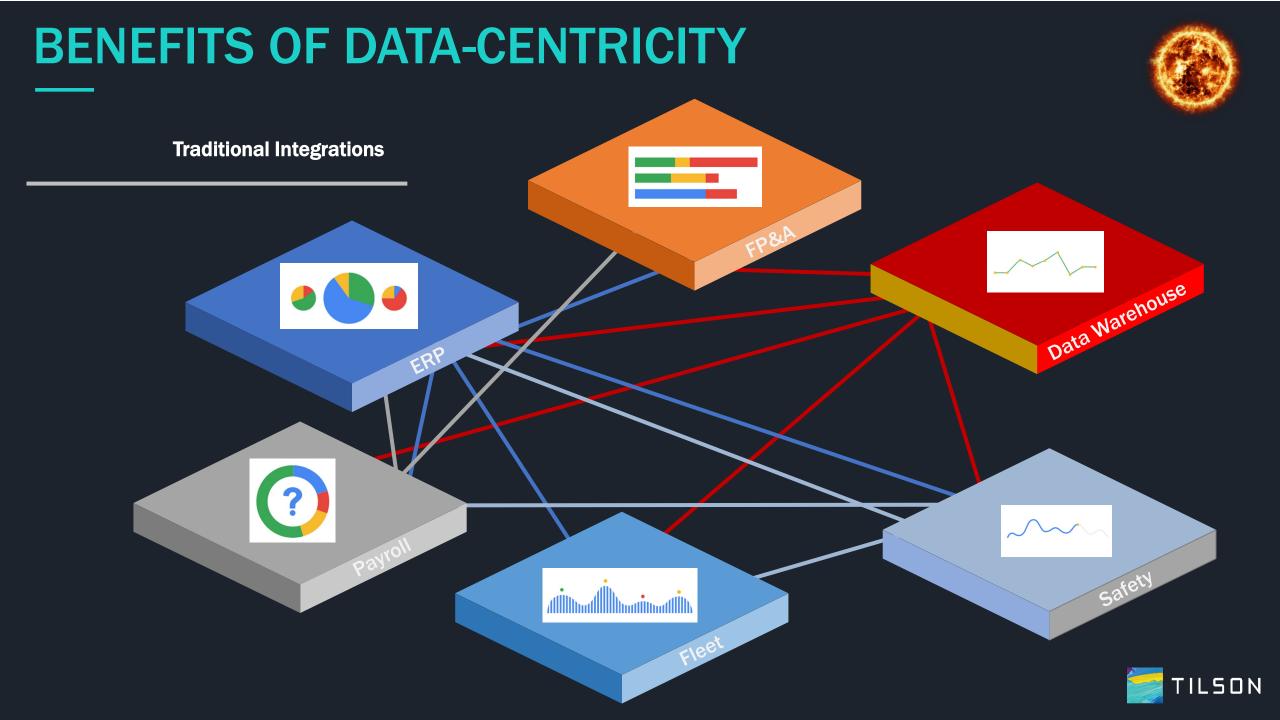




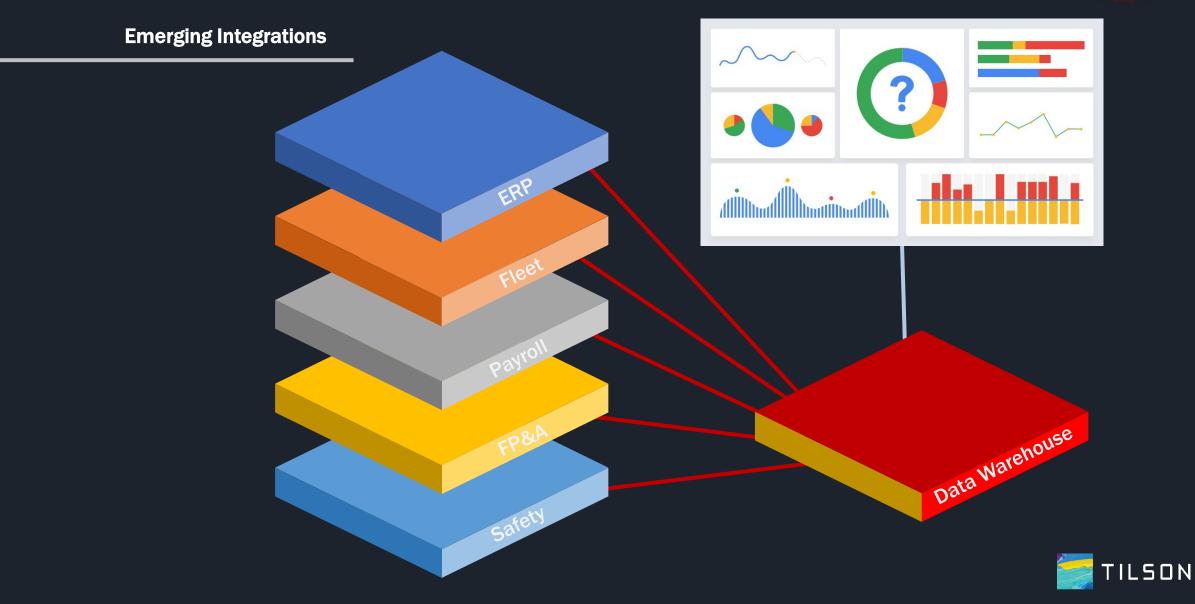


**Emerging Integrations** 

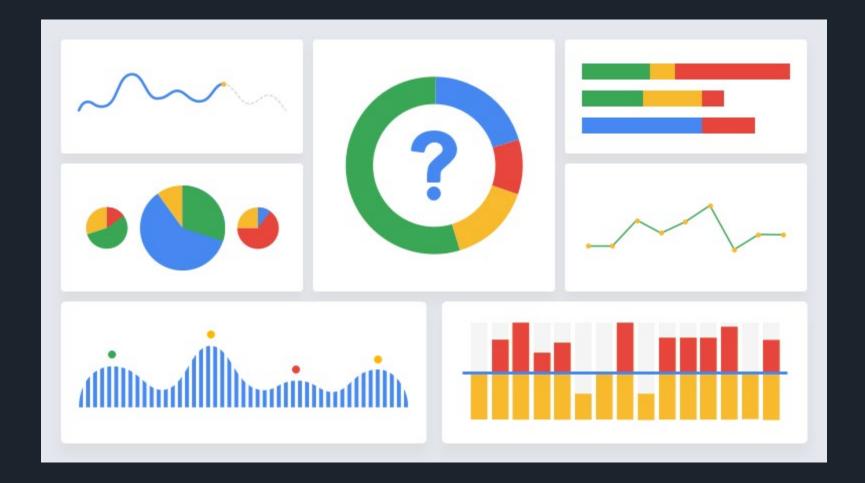








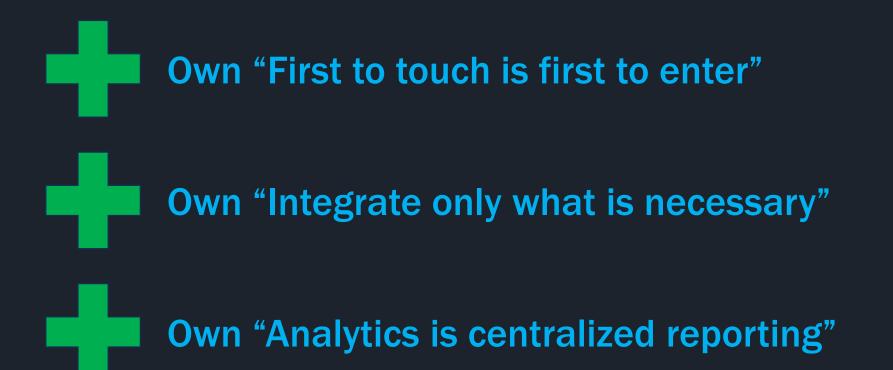








**Requires:** 







**Requires:** 



**Emotional Attachment to Systems/Applications** 



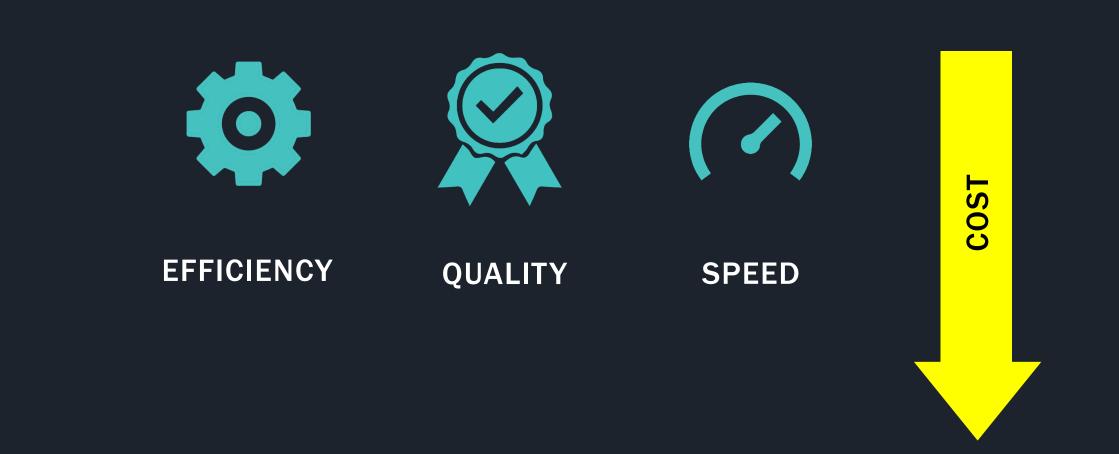
**Restrictions to Data Access\*** 



Data belongs to an application















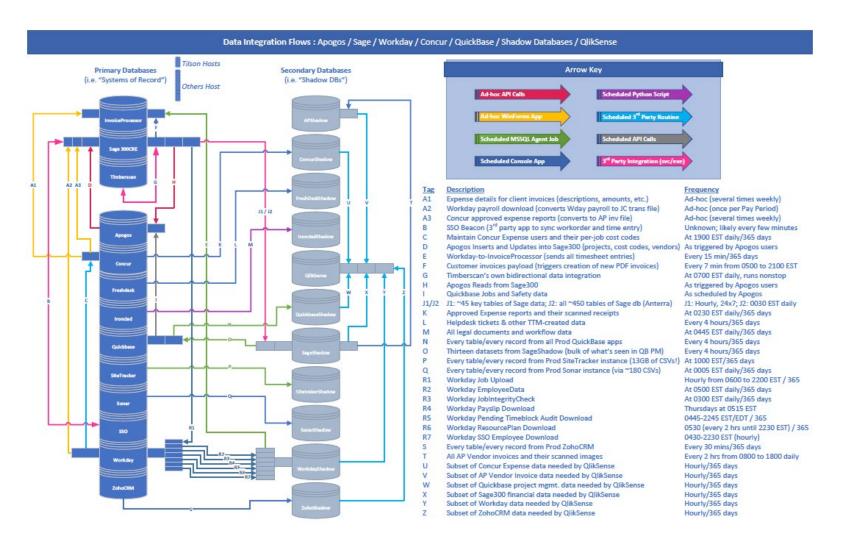


#### First 12 Months

Replace Data Warehouse Replace BI Tool Replace 12 systems with 1 ERP Replace all Integrations

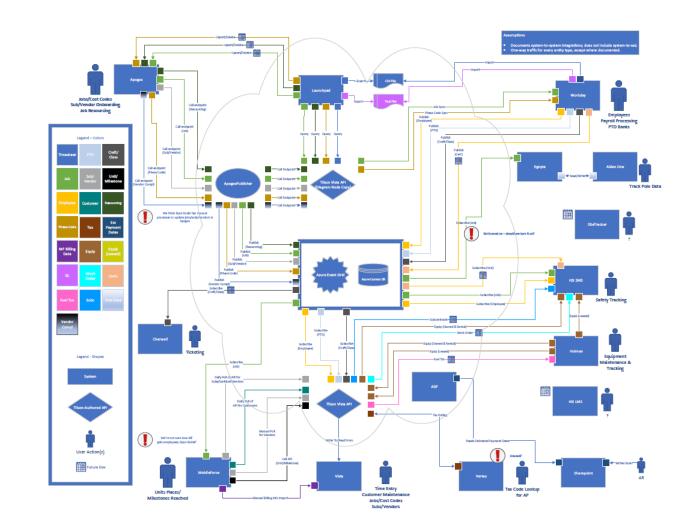
















#### PRE DATA-CENTRIC

#### **POST DATA-CENTRIC**

#### **NEW APPLICATION SAME DATA**

- Time to Deploy Integrations: 10 Weeks
- Time to Deploy Analytics: 8 Weeks

- Time to Deploy Integrations: 2 Weeks
- Time to Deploy Analytics: 2 Weeks

#### **TOTAL ACCOMPLISHED IN 12 MONTH TIME**

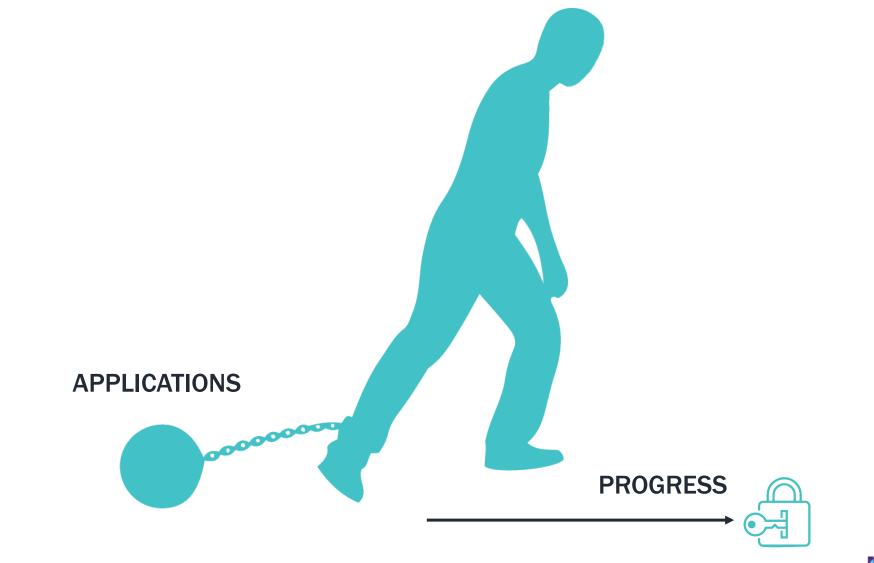
- New Integrated Systems: 2 Systems
- Analytics: 41 (unique uncombined data)

- New Integrated Systems: 8 Systems
- Analytics: 96 (unique, combined data)



#### **FUTURE PROOFING CONSTRUCTION OPERATIONS**







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#### **FLEXIBLE INTEGRATIONS**

**CENTRALIZED DATA** 

**APPLICATION AGNOSTIC** 



#### **THE FUTURE**





#### UNSTRUCTURED DATA REQUIREMENTS



Al Robotics Wearables BIM Predictive Analytics









## **KEY TAKEAWAYS / HOW TO GET STARTED**

#### HOW TO GET STARTED:

- Establish a Data warehouse
- Begin building a new integrations framework moving away from App to App
- Build new reports to replace old reports in a central BI platform
- Enjoy the freedom

#### **KEY TAKEAWAYS:**

- Leave emotion at the door when it comes to your Applications
- Adopt a Data is essential strategy
- Creating a Data-Centric Technology Framework = Adaptability



## **THANK YOU**



Jason Burns, CIO

Tilson

jburns@tilsontech.com

www.tilsontech.com