



# **FME in Education: Combining data from web-based and on-campus systems**

**Plaid Consulting**  
[www.plaid.is](http://www.plaid.is)



**Safe Software**  
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# WEBINAR RECORDING

Coming soon!

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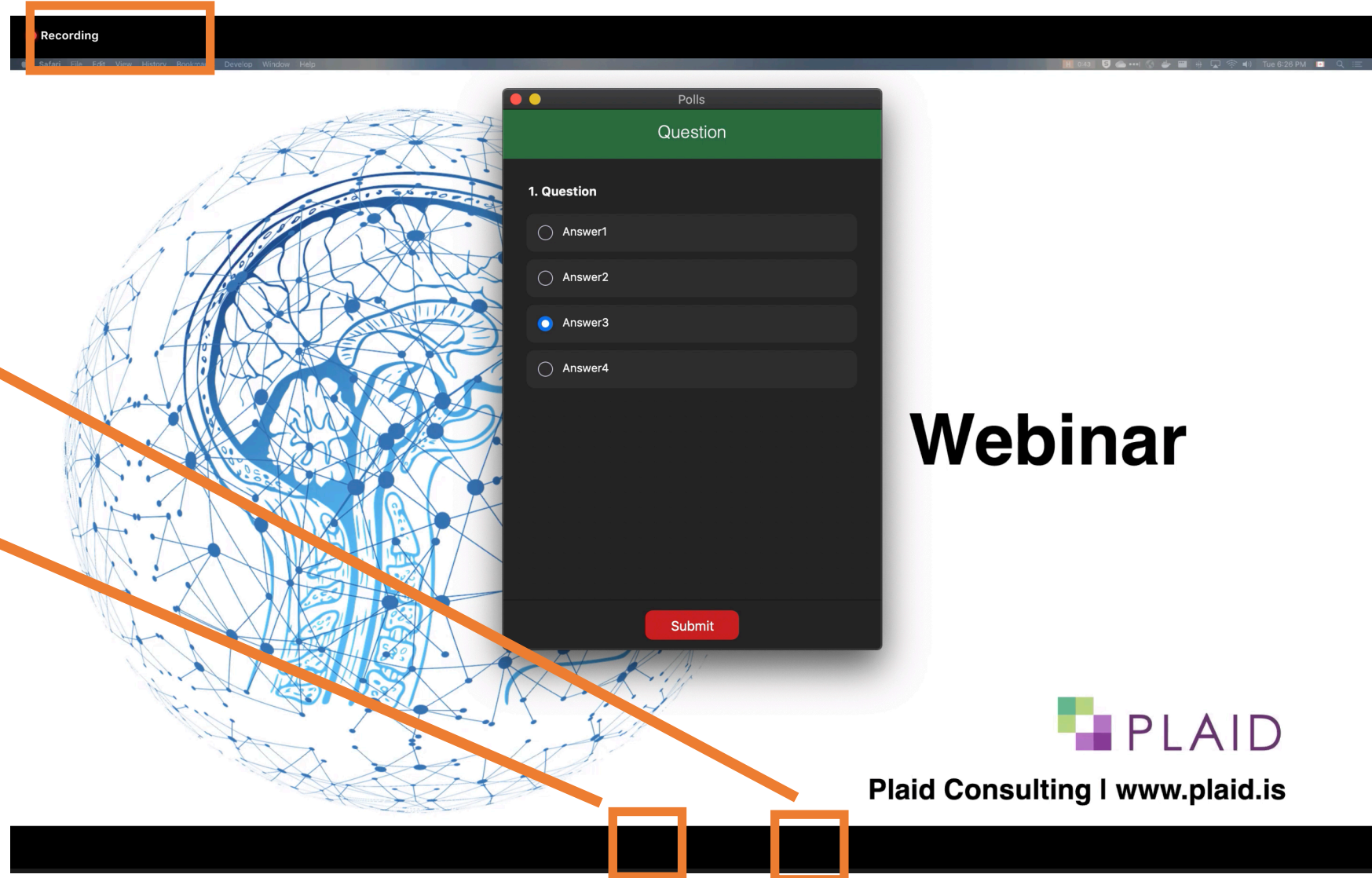
# ZOOM HOUSEKEEPING

Indicates the webinar is being **Recorded**

Questions for the presenters? Use the **Q&A**

Want to chat with other attendees? Use the **Chat**

We occasionally use **Polls**



*Plaid provides  
**data integration,  
research, and  
analysis** services  
to higher  
education  
institutions to  
improve policies,  
services, and  
processes.*

# AGENDA

- What is the FME Platform?
- Piloting a Learning Management System, and integrating with:
  - On-campus Enterprise Resource Planning Systems like a Student Information System + HR System
  - Cloud systems like Microsoft Forms, Canvas LMS, Google Sheets, and IT request and documentation systems such as Atlassian Jira and Confluence.





# PRESENTERS

**Andrew Drinkwater**

Co-Founder

Plaid Consulting



# PRESENTERS

**Patrick Lougheed**

Co-Founder

Plaid Consulting





# WHAT IS DATA INTEGRATION?

Data integration involves combining data residing in different sources and providing users with a unified view of them (Wikipedia).

Introduction to

# THE FME<sup>®</sup> PLATFORM





# OUR MISSION

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To help you maximize the  
value of your data.

COMPANY PROFILE

# Safe Software

[www.safe.com](http://www.safe.com)



**25+**

Years of solving data challenges



**10,000+**

Organizations trusting us  
worldwide



**128**

Countries with FME customers



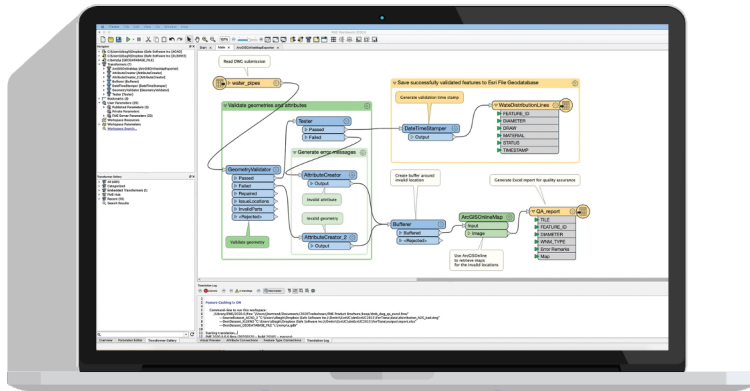
**150+**

Partners supporting our network



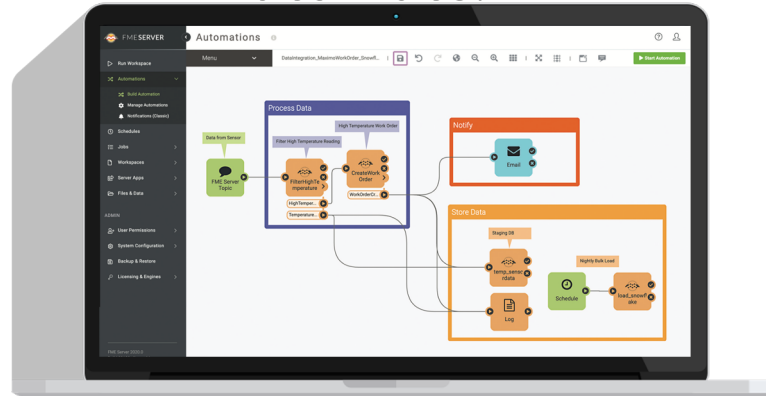
# FME® Integration Platform

*Connect. Transform.  
Automate.*



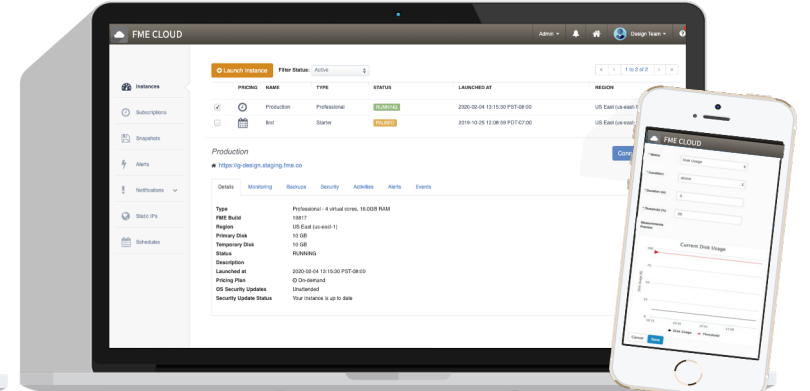
## FME Desktop

Build & Run Workflows



## FME Server

Automate Workflows



## FME Cloud

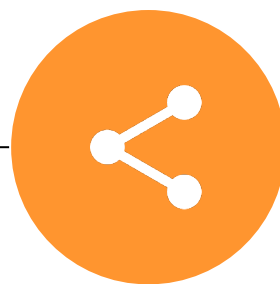
Hosted FME Server

*FME is the data integration solution with the best support for spatial data worldwide.*



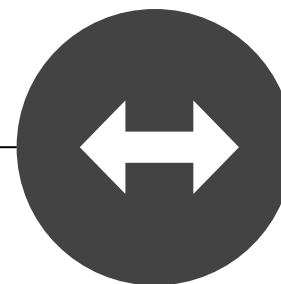
# CONNECT YOUR DATA SOURCES

FME supports geospatial data, structured and unstructured data, linked data, and time series.



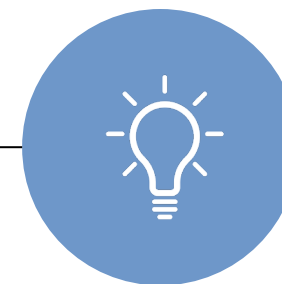
## Share

Connect data  
between 450+ sources



## Extend

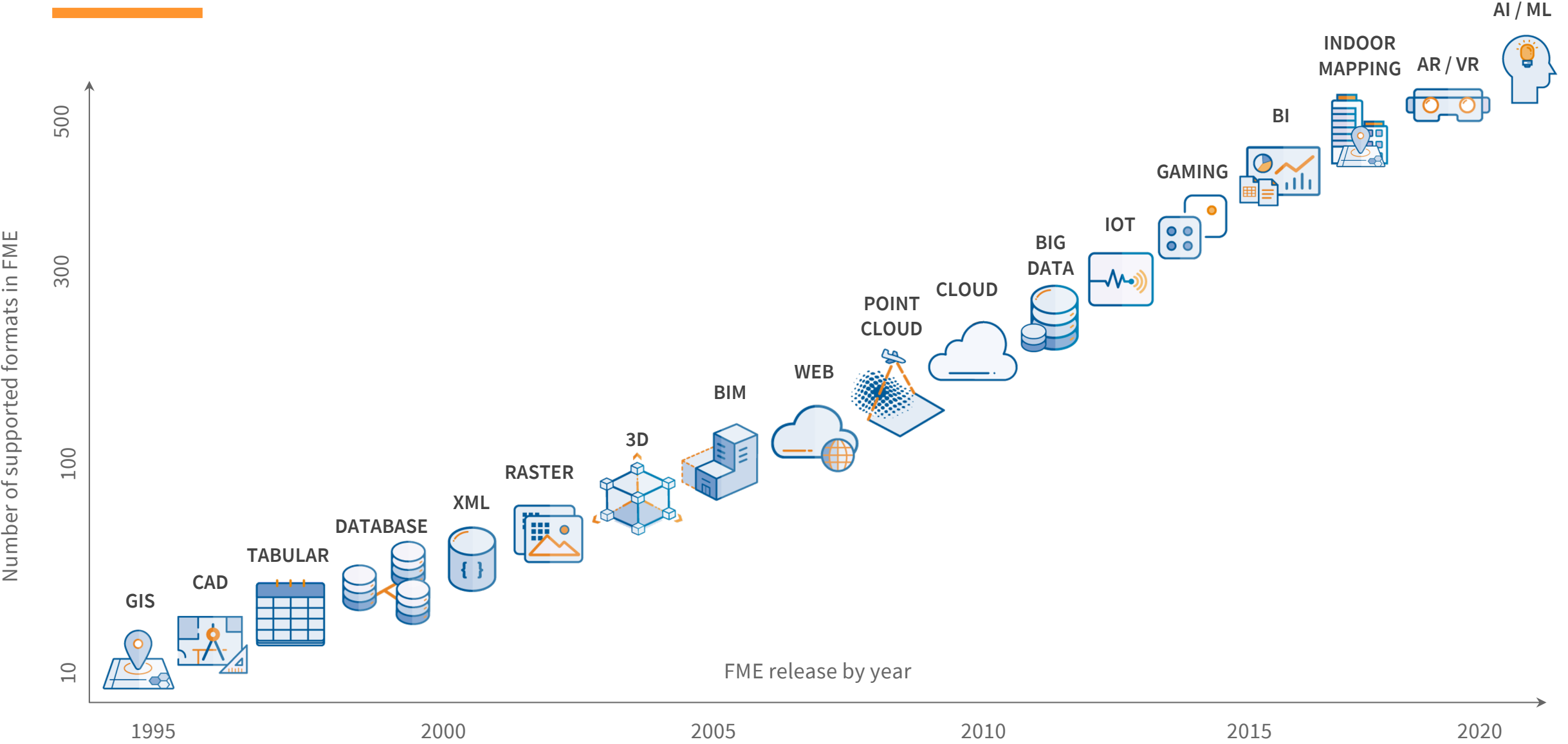
Extend FME's capabilities  
with custom connections

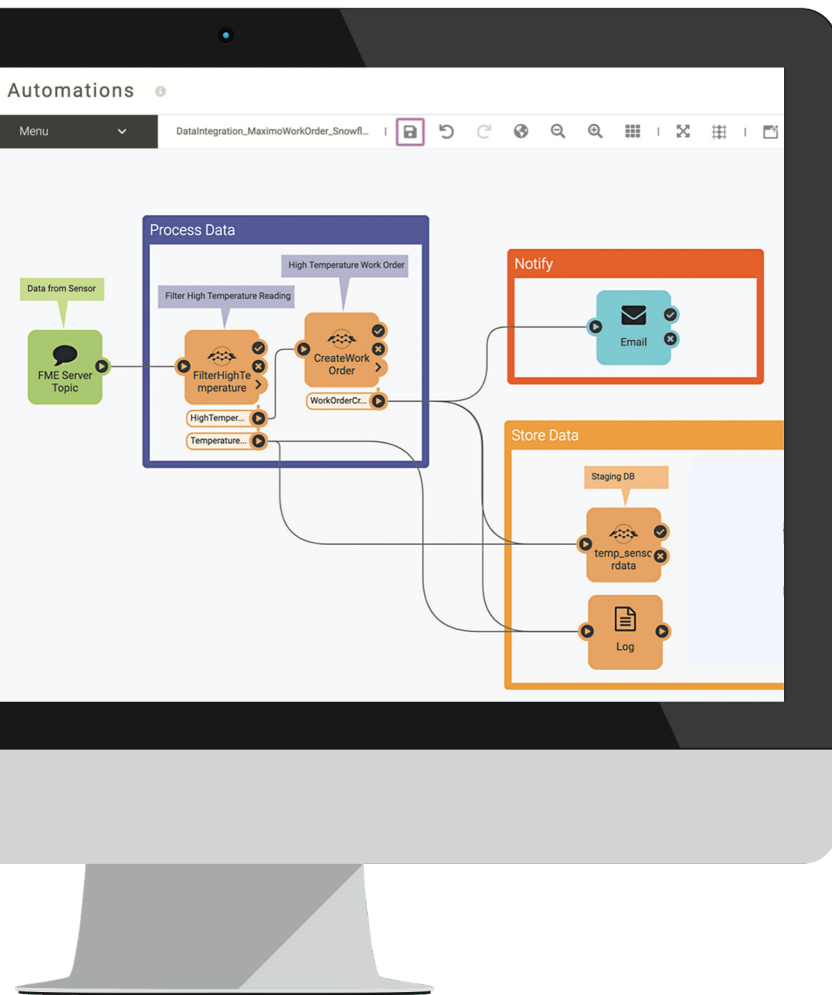


## Enable

Power business decisions  
by removing data silos

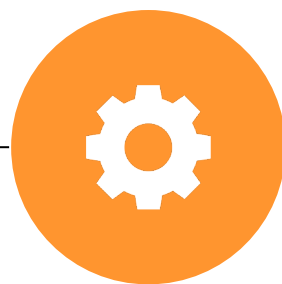
# CONNECT





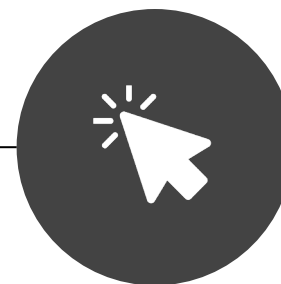
# AUTOMATE YOUR WORKFLOWS

Automatically provide integrated data to stakeholders on a real-time or scheduled basis.



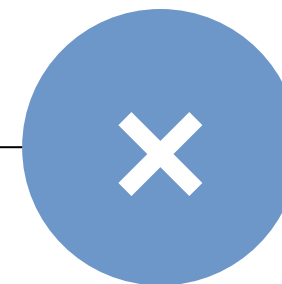
## Trigger

Automate data integration using event-based workflows



## Assemble

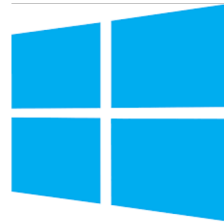
Easily build automations using a visual interface



## Eliminate

Eliminate the manual effort of complex and repetitive tasks

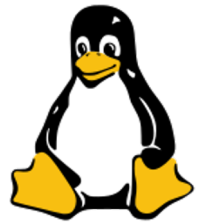
# OPERATING SYSTEMS & DEPLOYMENT OPTIONS



Windows

macOS

MacOS  
*FME Desktop Only*



Linux



Docker



Kubernetes



FME Cloud  
*Fully Hosted on AWS*

# Education Subscription



## Use More FME at a Lower Price

Since budgets are often fixed, this lets your team use as much FME as you need with zero limits on FME Desktop and FME Server licenses.



## Leverage OpEx Funds

Instead of a CapEx item, population-based subscription pricing is an operating expense.



## Eliminate Time Lag on Projects

Since you have unlimited FME, your projects will never get delayed waiting on licenses.



## “Free” FME for All Other Departments

For one annual price, your entire organization can use FME, allowing other departments to use FME at no additional cost.



## Predictable Budgeting

Take the guess out of budgeting. Simply pay the amount matching the size of your student population.



## Reduced Procurement Costs

Save your finance team time by opting for a single purchase instead of multiple one-offs.

A wide-angle landscape photograph showing a vast, flat field of golden-brown grass or grain in the foreground. The field stretches to a distant, dark horizon line. Above the horizon, the sky is a deep blue, filled with numerous white, fluffy clouds of varying sizes. The lighting suggests a bright, sunny day.

**DEMONSTRATION**

# SKUNK WORKS

“An experimental laboratory or department of a company or institution, typically smaller than and independent of its main research division” (Oxford Languages)



# GOALS



Pilot a new LMS

- Get instructors to volunteer using MS Forms
- Enrol students
- Document new features
- Log work requests
- Calculate pilot cost
- Create project report including interactive charts

# SECRET GOALS



Don't tell management, but I don't want to code interfaces between all these systems.

And I **really** don't want to have to manually enter the same data in multiple places...

# SYSTEM GOALS

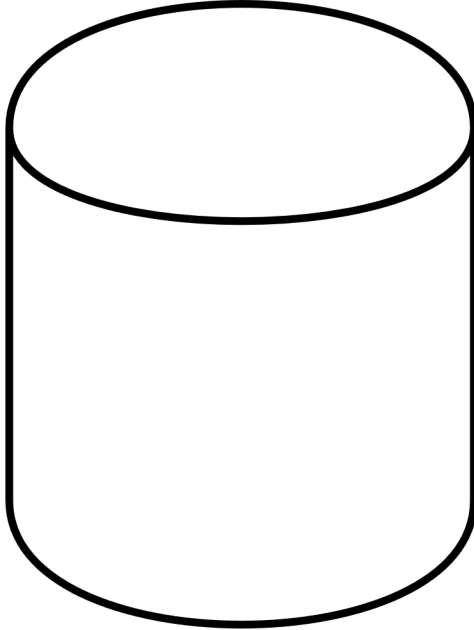


## DATABASE SYSTEMS

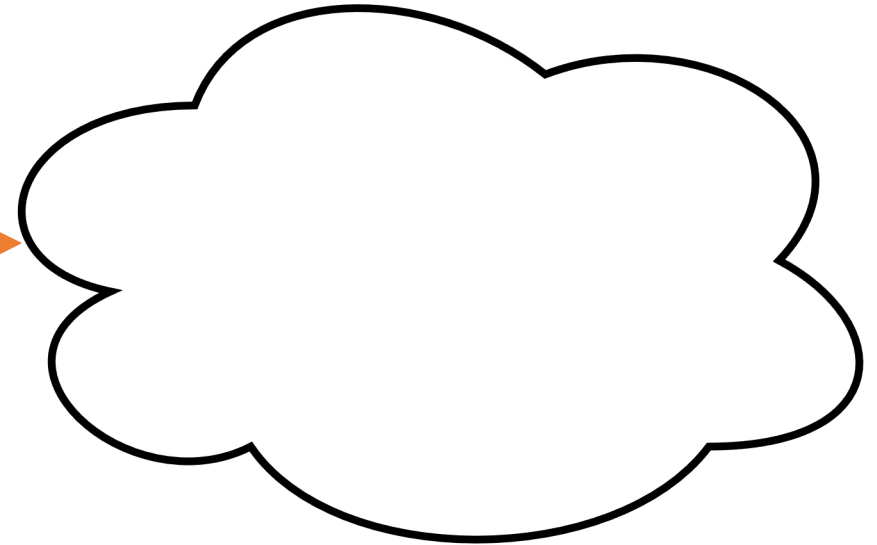
(Often hosted on campus)

## CLOUD SYSTEMS

(Hosted in the Cloud)



Talk to each other...



# SYSTEM GOALS



## DATABASE SYSTEMS

(Often hosted on campus)



## CLOUD SYSTEMS

(Hosted in the Cloud)



# THE TEAM

Our team is comprised of:

- Business Analyst
- Instructors + their students
- You (you'll be an instructor too!)

# THE DATA USED IN THIS DEMO IS FAKE!

These demonstrations are intended to illustrate potential. Product vendors, including but not limited to Elucian, Atlassian, Microsoft, Google, Instructure, Tableau do not necessarily endorse the conclusions presented here.





# YOUR TURN

Before we begin, can you fill in this Microsoft Form for us? We'll ask for the following info. Try to make your responses semi-realistic.

If you were an instructor,

- What course would you teach? (List just the descriptive title, such as “Introduction to Calculus”)
- How much do you think you **should** be paid for this course? (Use Canadian Dollars)
- How much do you think you **will** be paid for this course? (Use Canadian Dollars, don't say zero!)



# YOUR TURN

Please go to this URL:

<https://plaid.is/teachatplaidu>



SCAN ME




# 1: Retrieve MS Forms Data



1a: Confirm data is  
new



2: For new data,  
assign instructor  
names, ids, emails  
etc



3: For new data,  
assign student  
names, ids, emails  
etc



## 4: Write data to ERP



## 5: Start writing from ERP to LMS



## 6: Connect to Atlassian (Confluence/Jira) APIs



## 7: Create issues in Atlassian Jira



## 5: View in LMS



## 8: Write Summary to Google Sheets



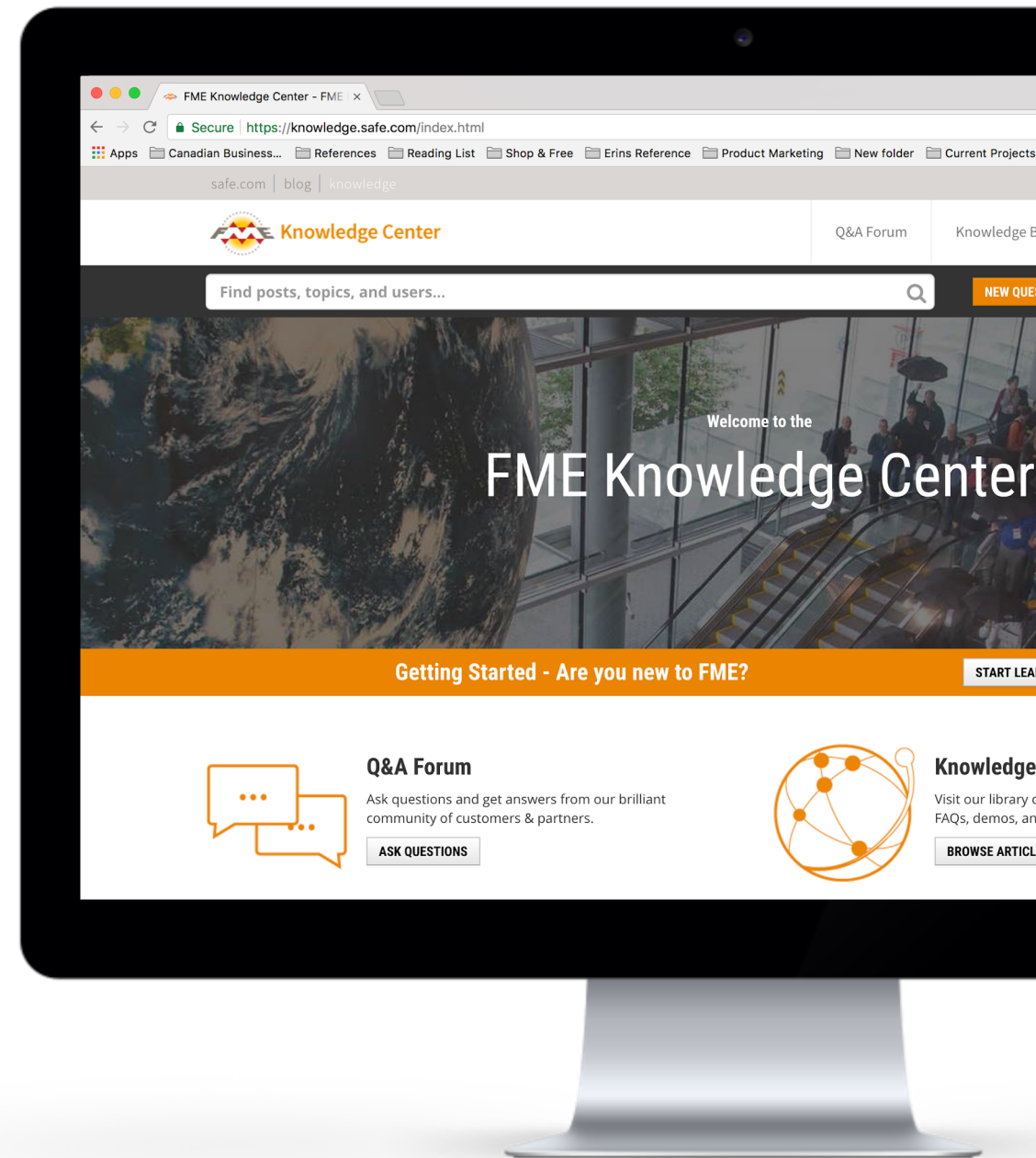
## 9: View in Tableau



# 10: View Written Report

# Get started with **free** **resources** at **safe.com**

- ✓ Free FME Trial / Home / Edu
- ✓ Free Online Training
- ✓ Free Tutorials
- ✓ Free Webinars
- ✓ Free Knowledge Center



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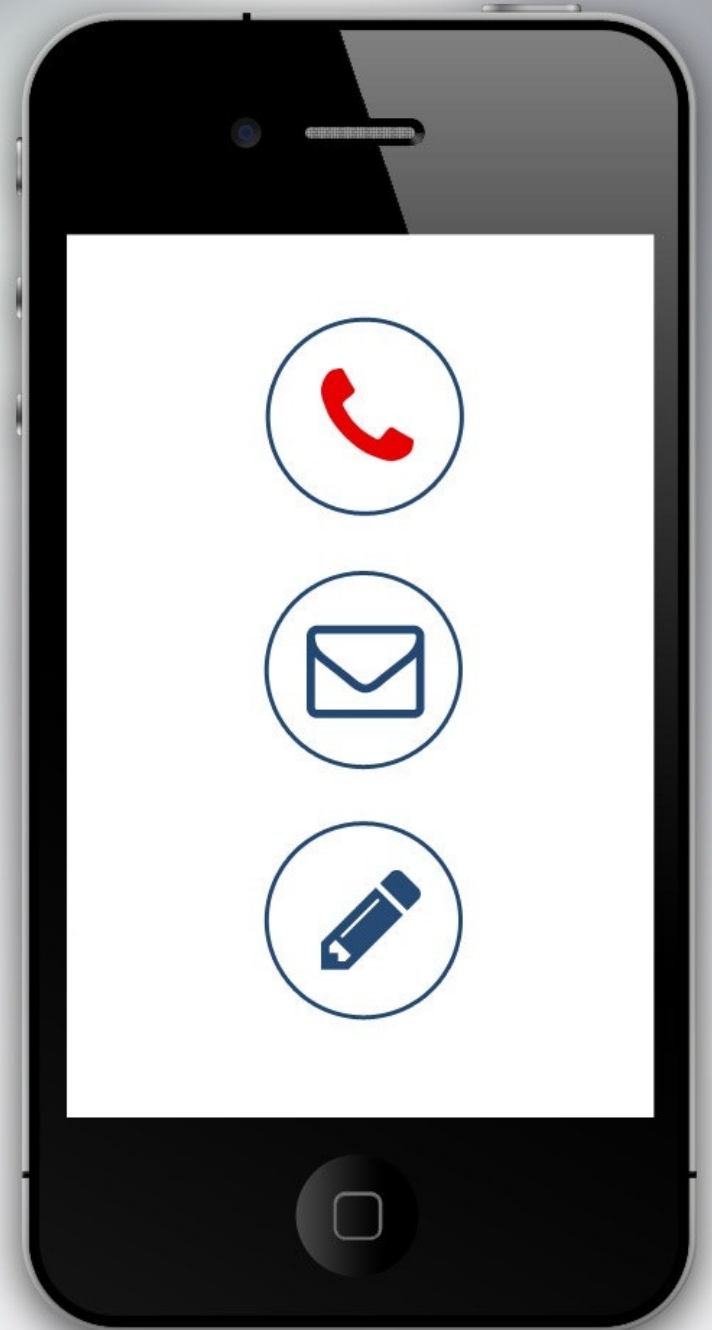


# CONTACTS

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[www.plaid.is](http://www.plaid.is)





# Thank you!

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