

# FME in **Education:** Automating **Data Flows with FME Server and FME Cloud**

Plaid Consulting www.plaid.is









# **FME in Education Series**

## **Topic**

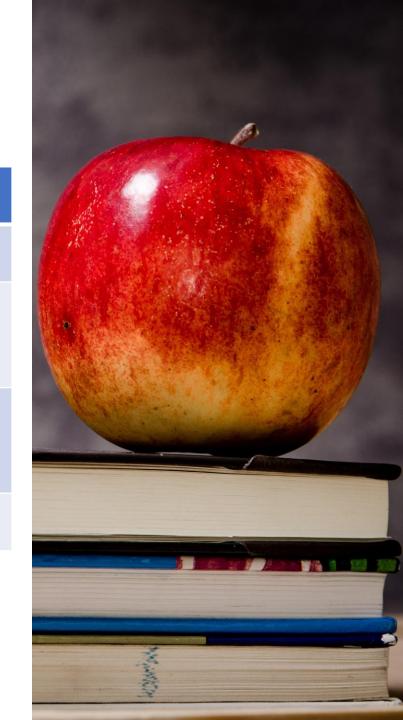
How to accelerate and improve data analysis

Combining data from web-based and oncampus systems

Automating data flows with FME Server and FME Cloud

Suggestions welcome for future installments

www.plaid.is/#webinars



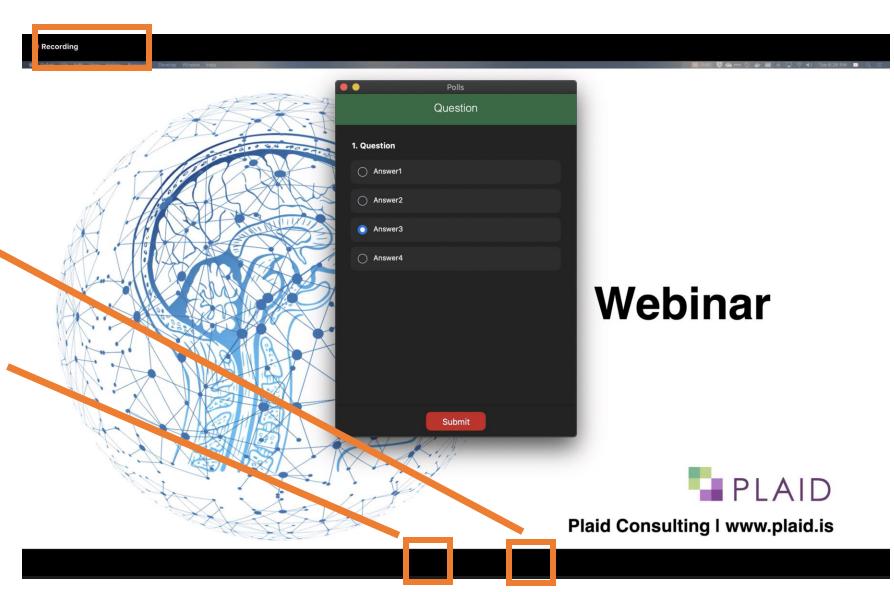
# **ZOOM HOUSEKEEPING**

Indicates the webinar in being **Recorded** 

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

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

We occasionally use **Polls** 





# **AGENDA**

What are FME Server and FME Cloud?

Automations

Server apps





# **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).





# CHALLENGE: DATA SILOS

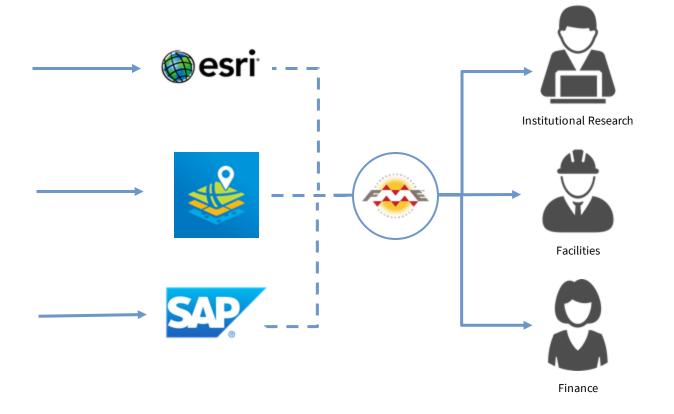
Organizations spend a lot of money collecting data.

However, the data is often stored in unuseable formats, siloed in other department's systems or needs to be transformed.









# **SOLUTION: DATA INTEGRATION**

"The discipline of data integration comprises the practices, architectural techniques and tools for **achieving the consistent access and delivery of data** across the spectrum of data subject areas and data structure types in the enterprise to meet the data consumption requirements of all applications and business processes." - Gartner



### 25+

Years of solving data challenges

### 10,000+

Organizations trusting us worldwide

### 128

Countries with FME customers

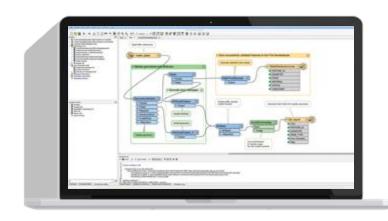
### 150+

Partners supporting our network

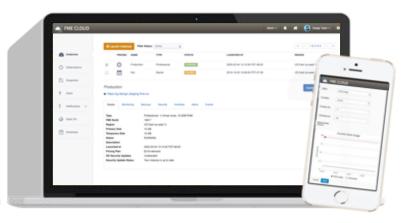


# **FME® Integration Platform**

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.

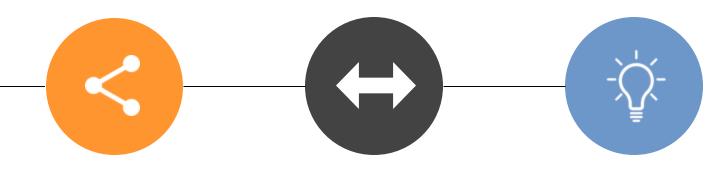
FME is about more than formats and systems, geometry, and repeatable workflows.

FME is about connecting teams by sharing information seamlessly between them.



### **CONNECT YOUR DATA SOURCES**

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



### Share

Connect data between 450+ sources

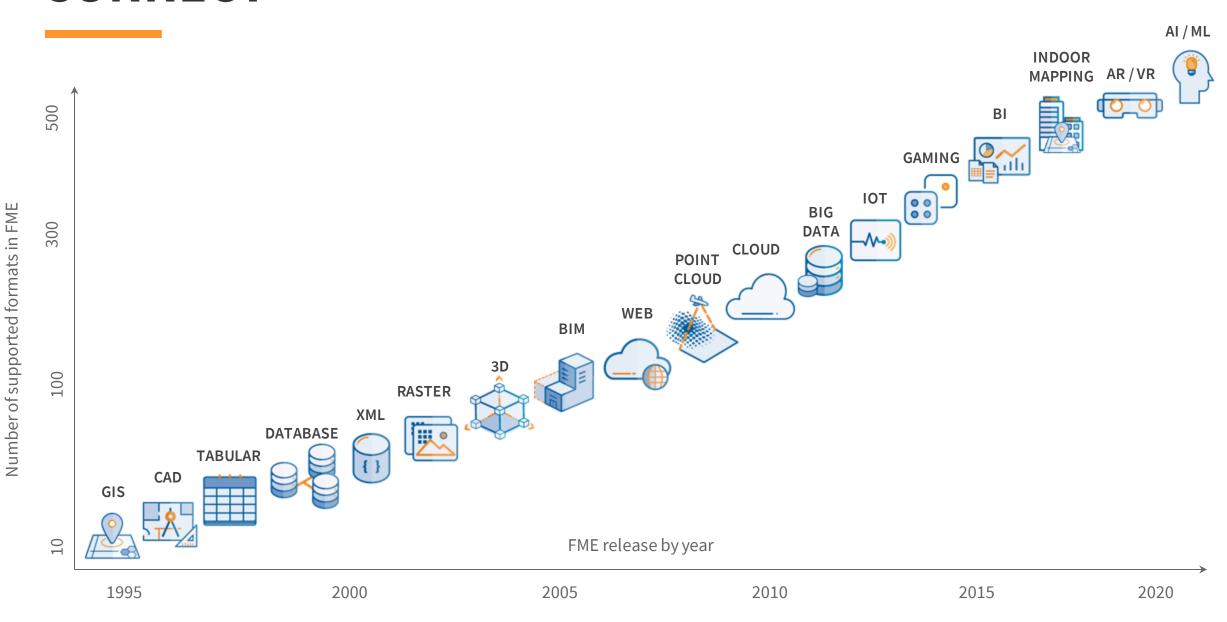
### **Extend**

Extend FME's capabilities with custom connections

### **Enable**

Power business decisions by removing data silos

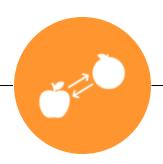
# **CONNECT**



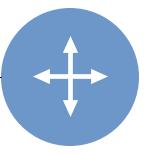


### TRANSFORM YOUR DATA

Use any combination of transformers to address all levels of complexity.







## **Modify**

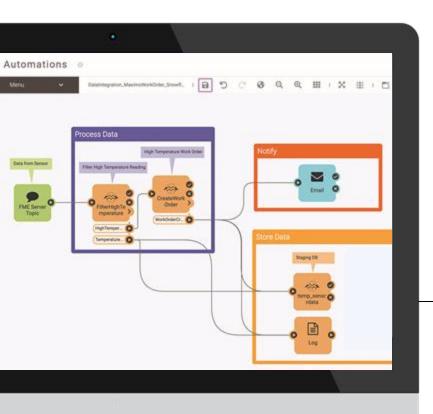
Restructure, filter, calculate & more

### **Validate**

Validate to ensure high quality data

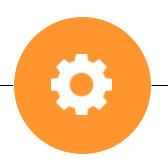
### **Adjust**

Adjust workflows to meet changing requirements

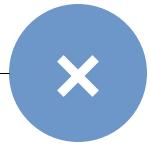


### **AUTOMATE YOUR WORKFLOWS**

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







### **Trigger**

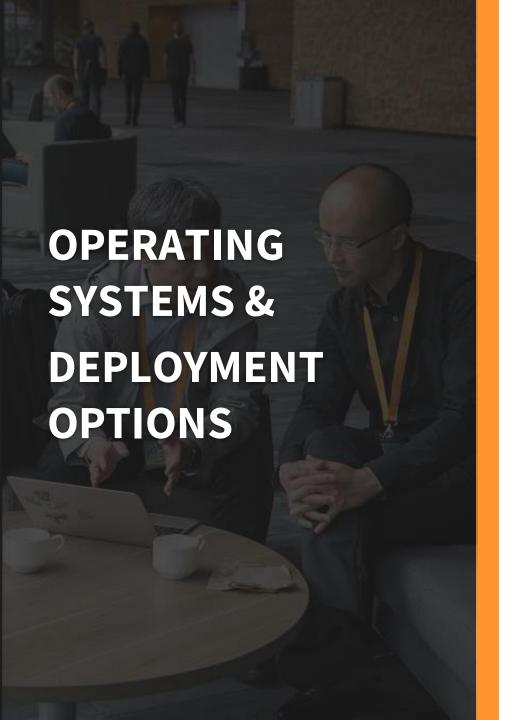
Automate data integration using event-based workflows

### **Assemble**

Easily build automations using a visual interface

### **Eliminate**

Eliminate the manual effort of complex and repetitive tasks





macOS



Windows

MacOS

FME Desktop Only

Linux



Docker



Kubernetes



**FME Cloud** 

Fully Hosted on AWS

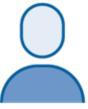
## LICENSING OPTIONS

### **Education Subscription**



- Subscription pricing based on student enrollment
- Access to unlimited
   FME Desktop & FME Server
   licenses

### **Perpetual License**



- Includes permanent license
   + annual maintenance
- Designed for smaller deployments

### **Cloud Deployment**



- Unlock enterprise automation without the hassle of hardware
- Flexible pricing options including hourly and annual subscription

More info: safe.com/pricing

# **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.



#### "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.



#### **Leverage OpEx Funds**

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



#### **Predictable Budgeting**

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



#### **Eliminate Time Lag on Projects**

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



#### **Reduced Procurement Costs**

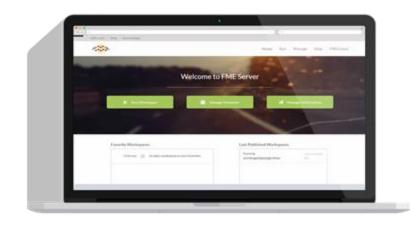
Save your finance team time by opting for a single purchase instead of multiple one-offs.

# **Education Subscription**

Number of Students	Maximum Annual Subscription	Amount of FME Desktop & FME Server
1 to 14,999	\$ 7,500 CAD	✓ Unlimited
15,000 to 24,999	\$ 10,000 CAD	✓ Unlimited
25,000 to 49,999	\$ 15,000 CAD	✓ Unlimited
50,000 to 99,999	\$ 25,000 CAD	✓ Unlimited
100,000 +	Contact Us	Contact Us

Note: Pricing above is for end use in Canada, as of September 10, 2020. To obtain pricing for use in another country, please contact <a href="mailto:sales@safe.com">sales@safe.com</a> or your <a href="mailto:local partner">local partner</a>.

# What is FME Server?



**FME Server** 

Automate Workflows

Brings your workspaces from FME Desktop to the web and allows anyone within your network to harness the data integration power of FME.

- Run workflows on a schedule or when an event is triggered to keep your data flowing.
- Keep up-to-date with any changes by automatically sending notifications to any stakeholder.
- Licensed based on number of engines running.
- Can be run on-premise or in the cloud.



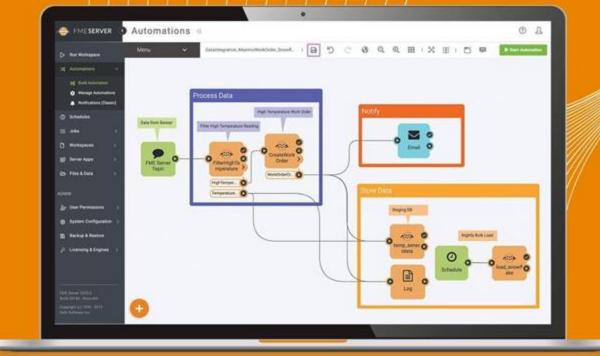
Save time and money by automating your data integration workflows with FME Server.



# 7 Common

# FME Server

**Use Cases** 





# **FME Server Use Cases**

- 1. Automate Data Integration
- 2. Deliver Application Integration
- 3. Provide Self-Serve Data Integration
- 4. Send Emails & Notifications
- 5. Deliver Self-Serve Data Access
- 6. Integrate Data Streams
- 7. Scale Data Integration Power

# Up to 4 hours of manual work removed



The City of Coquitlam uses FME to manage a self-serve spatial data catalogue.

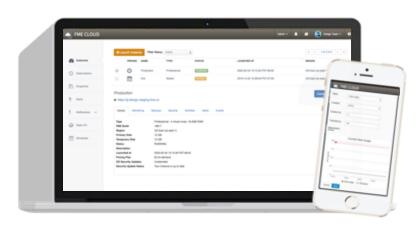
FME automates the packaging and delivery process of incoming requests, saving city staff up to 2-4 hours of manual processing per request.



# What is FME Cloud?

FME Cloud is a hosted deployment option for FME Server. Instead of spending hours on set-up and configuration, you can have FME Server up and running in minutes.

- All the features and functionality of FME Server.
- Managed by Safe and, if desired, an MSP partner like Plaid.
- Pay-as-you-go based on server runtime.



**FME Cloud** 

Hosted FME Server

# Automations: Triggers

- Schedule
- Directories/files changed
  - local, FTP, Dropbox, Amazon S3
- Email
- Webhook
- External message received
  - Amazon SNS, Amazon SQS, Azure Event Grid, JMS, UDP, WebSocket
- Internal messages
  - FME Server topics, system events

# **Automations: Actions**

- Run a workspace
- Merge, log, and filter messages/events
- Send an email
- Send a message
  - HTTP, Amazon SNS, Amazon SQS, Azure Event Grid, JMS, WebSocket
- Upload a file
  - FTP, Dropbox, or Amazon S3
- Notify an FME Server topic

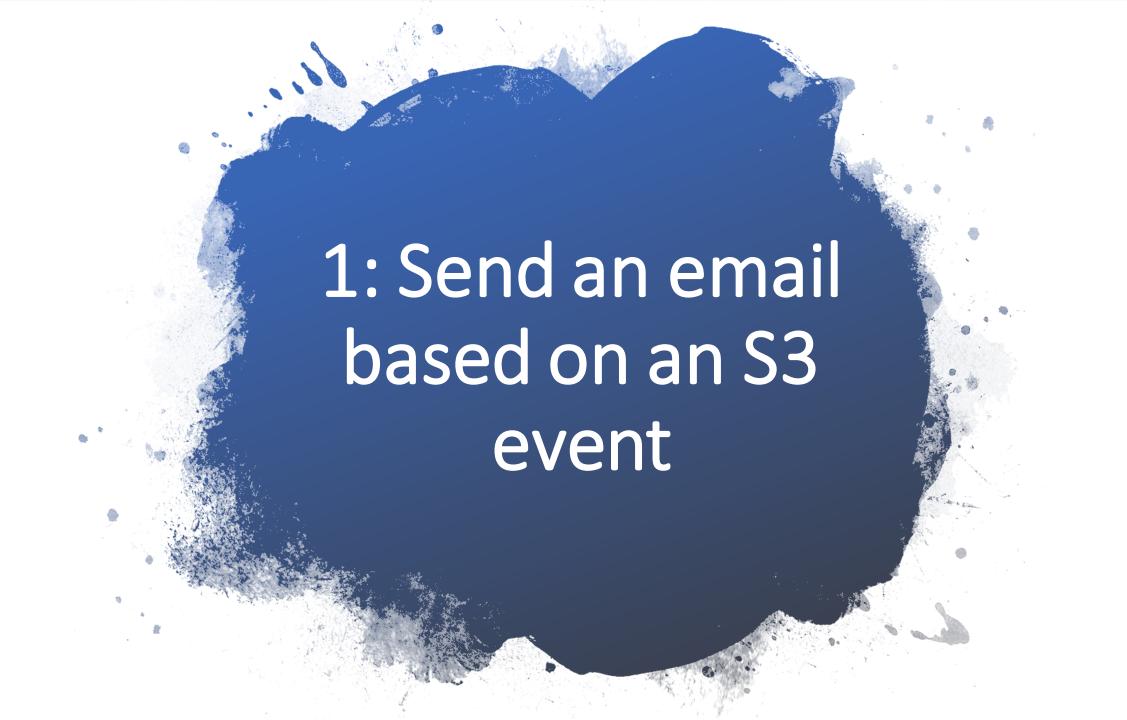
# FME Server Apps

 Apps create an easy-to-use interface for non-FME users to run workspaces.

Fully customizable look – colours, logos, banners, and instructions

 Gallery apps provide a landing page, allowing you to have a single page from which users can access multiple workspaces

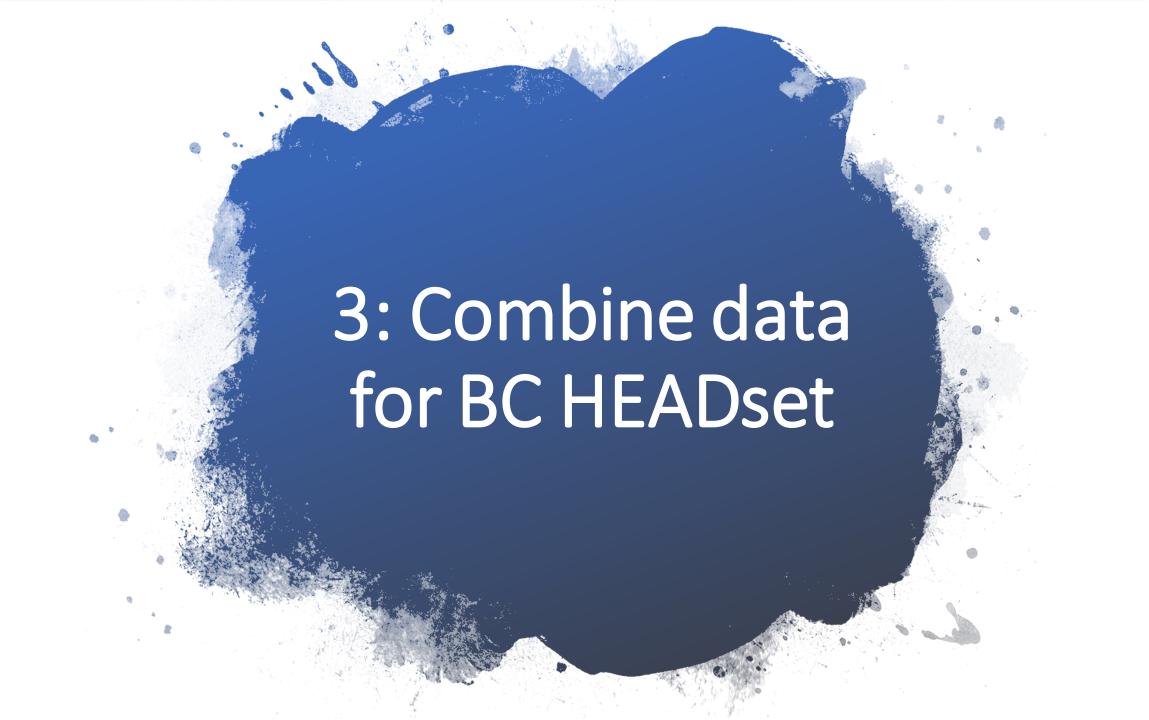




# Send an email when a new document is received







### **BC HEADset**

BC HEADset is an open dataset from British Columbia,

Canada's six research-intensive universities.

This demonstration re-imagines the submission process.



#### British Columbia Higher Education Accountability Dataset

Welcome to the BC HEADset website. BC HEADset has been created to demonstrate accountability on the part of British Columbia's higher ed If you have questions about BC Headset, please contact

Tables will display in Excel spreadsheets. If you do not use Microsoft Excel, a viewer is available for free: www.microsoft.com/downloads.

#### Characteristics of the Student Population

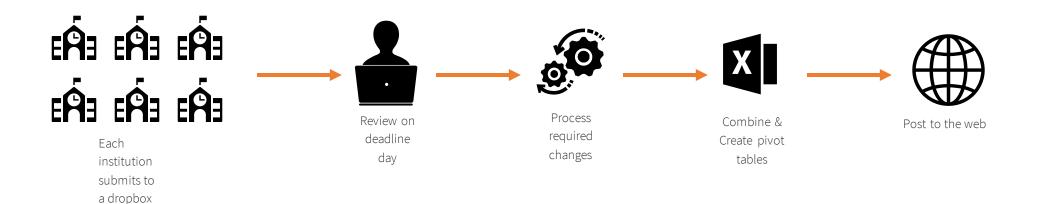
- Admission GPA
  Annualized FTE
  Applicants. Admitted and Registered Students
  Applicants. Admitted and Registered Students: 1st Choice
- Credential Awarded
- Fall Headcount Enrolment
   Total Headcount Enrolment
   International Students
- New Registrants: High School Location
- Outgoing Exchange Students

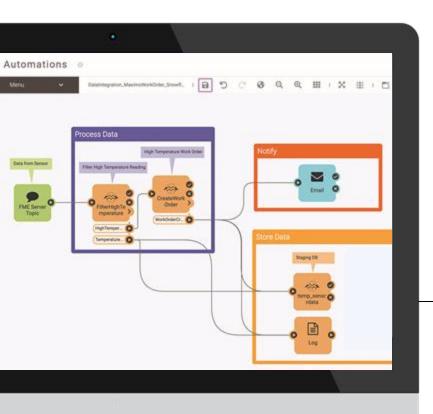
#### Characteristics of the Institution

For more detail about definitions, consult the glossary.

### **BC HEADset Current Process**

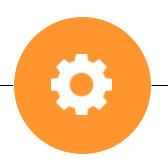
The current process involves several steps requiring manual intervention



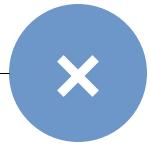


### **AUTOMATE YOUR WORKFLOWS**

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







### **Trigger**

Automate data integration using event-based workflows

### **Assemble**

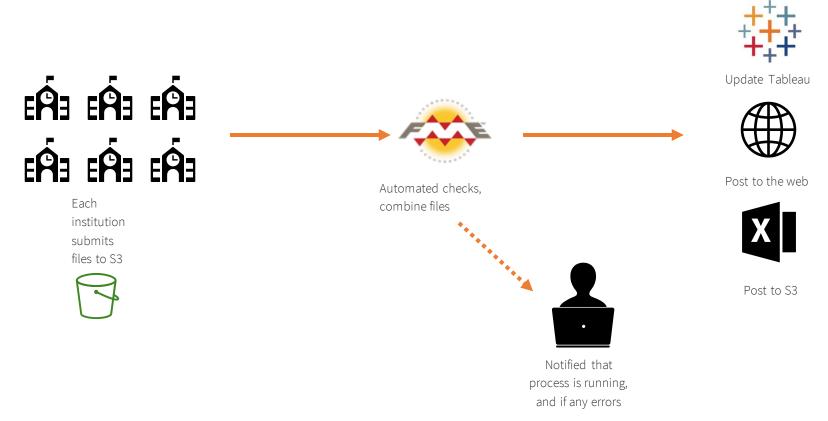
Easily build automations using a visual interface

### **Eliminate**

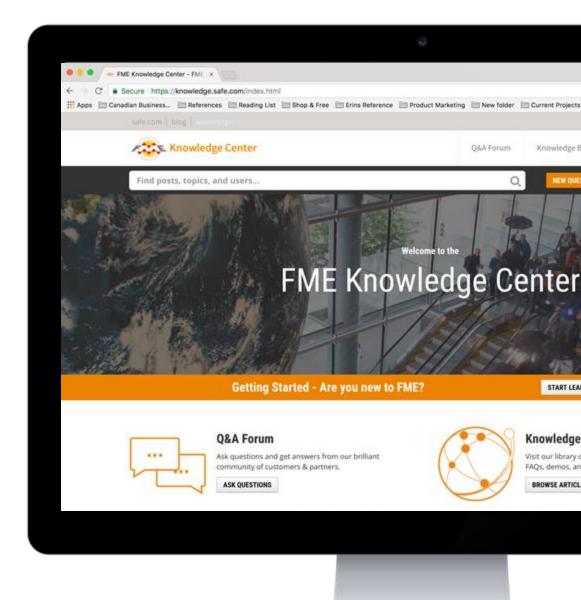
Eliminate the manual effort of complex and repetitive tasks

# **BC HEADset Reimagined Process**

The re-imagined process sees FME do the heavy lifting







# **NEXT STEPS**

Set up a demo for your educational organization:

info@plaid.is

www.plaid.is



# WEBINAR RECORDING

Now available

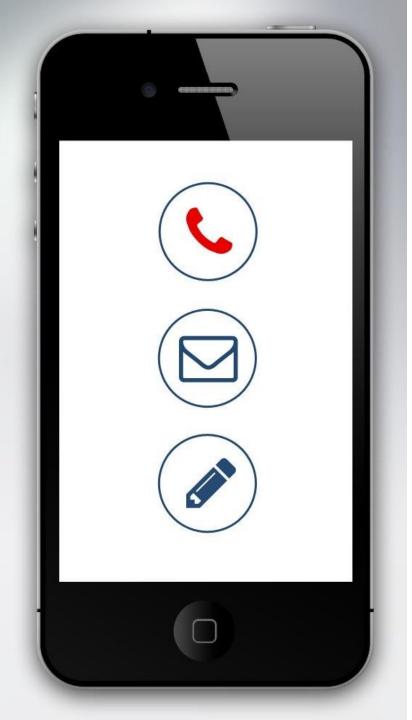
www.plaid.is/#webinars



# **CONTACTS**

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# Thank you!

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