



## What you'll hear from us

- Where we started
- What we developed
- How it looks
- How it works
- Where to from here







## Where we started

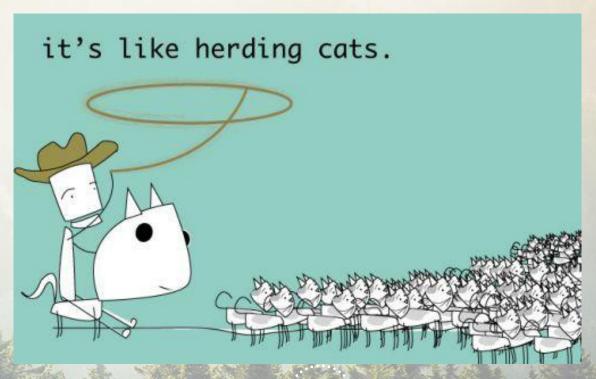






## FME @ CCC

- 6+ Teams
  - OIT
  - Asset Management
  - Monitoring and Research
  - Capital Delivery
- 30 Users
- 3 Servers (8 Engines)





# Lets have a User group!



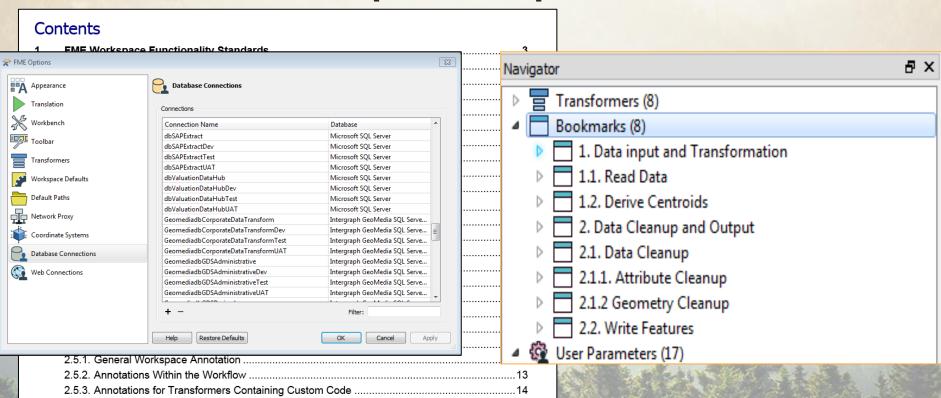




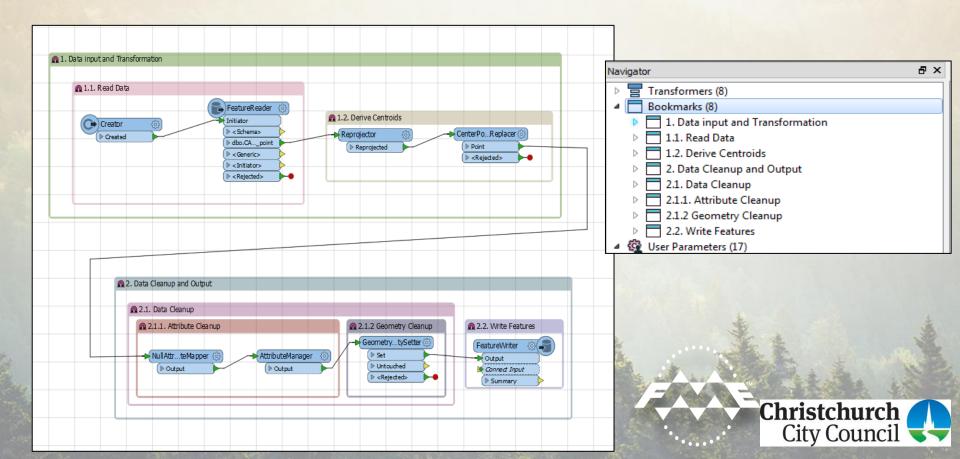




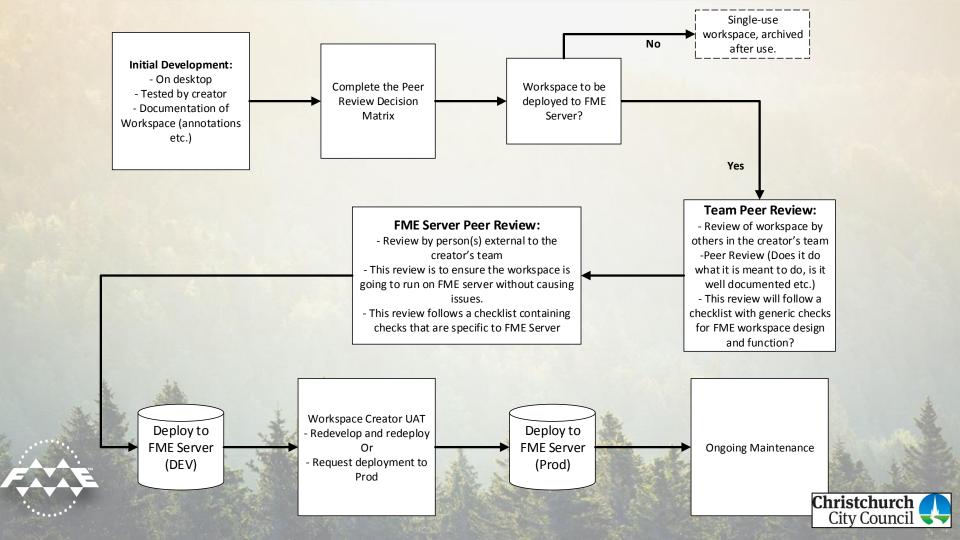
## What the User Group came up with

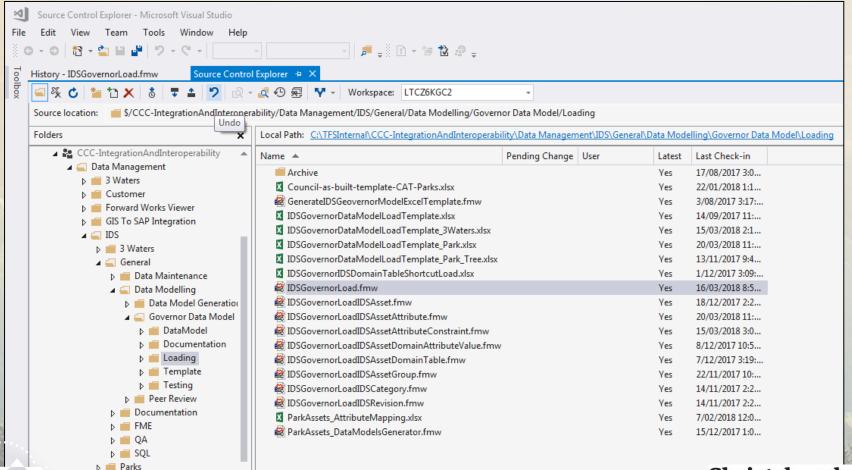


## What does it look like?













Christchurch City Council



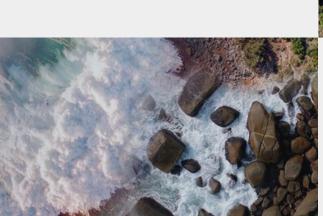
Spatial



Daily

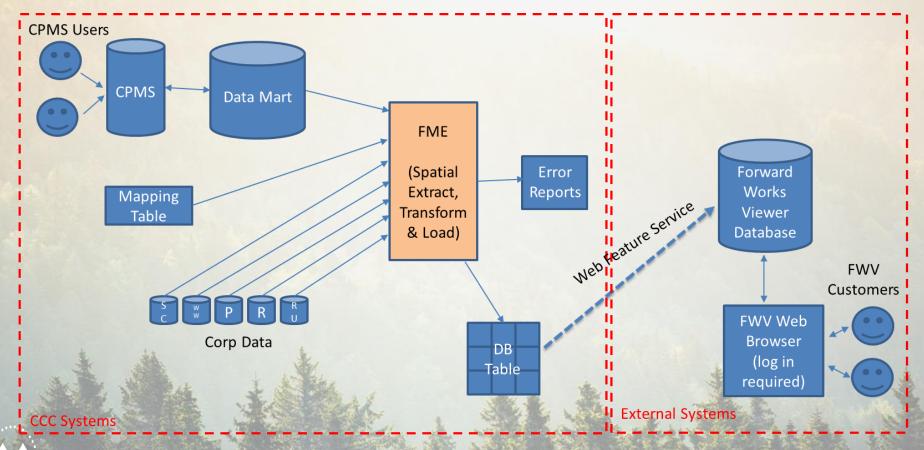


Robust



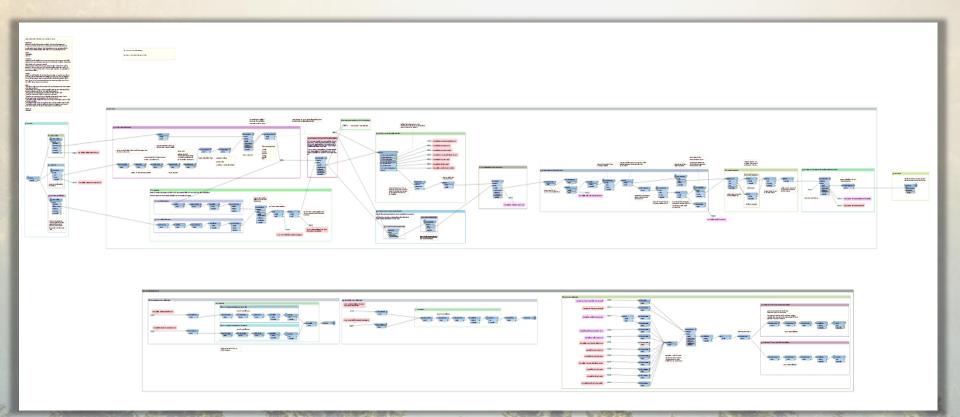
Standardised















#### Forward Works Viewer CCC Project Export

#### Description:

Takes input CPMS data from ParagonIQ and joins it to corporate data geometries (AssetStreetCatchment, RatingUnit etc.) to form project areas to be submitted to the Forward Works Viewer. The output from this workspace is written to GDSDerived and is served as a WFS and consumed by Jacobs and LINZ for the Forward Works Viewer.

#### Author:

Paul Goodhue 26/04/2017

#### Parameters:

Parameters are used to handle the error reporting recipients. These are set up as published parameters so they can be changes on FME Server without having to redeploy the workspace when changes to the recipients are required.

Parameters are also used to select the SQL connection used in the Workspace, and the location of the CPMS Z Table Excel file. The parameterised SQL connection is used in the feature writer to output the data, and in a feature reader to compare the incoming data to previously exported data.

#### Tunnels:

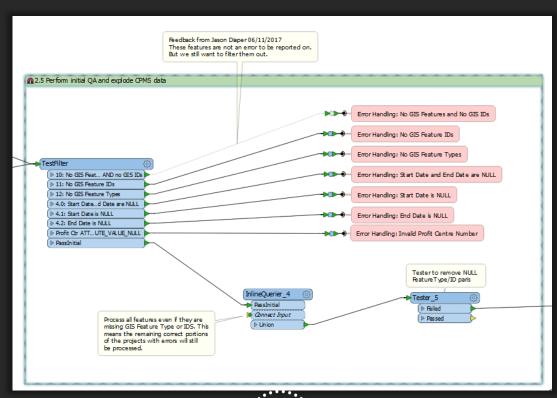
Tunnels are used throughout the workspace for two purposes; to supply the input data to further on in the workspace, and to port handled errors to the error reporting component. All error handling/reporting tunnels are annotated and coloured. Red annotations indicate errors that are fatal to the workspace, whereas Purple annotations indicate errors that are reported but do not terminate the workspace.

#### Notes:

- CPMS data is already extracted into ParagonIQ. This workspace queries data from ParagonIQ rather than CPMS directly.
- Forward Works Viewer Project Types are mapped through profit centre and queried from the CPMS Z Table, an Excel file that is extracted from TRIM nightly.
- All area feature are buffered by 1cm to remove sliver holes between them.
- All non-area features are buffered by 10 metres to create areas.
- All geometries for each CPMS feature are dissolved and aggregated into one feature, creating a single area or multi-area geometry for each CPMS feature.
- Error handling is used to handle any erros in the GIS Feature Type and GIS Feature ID fields in the input CPMS data.
- Error handling is used to report on connection issues to ParagonIQ and the CPMS Z Table.
- Error handling is used to report on load/extract issues within ParagonIQ (e.g. features coming from ParagonIQ are not newer than previously extracted features).

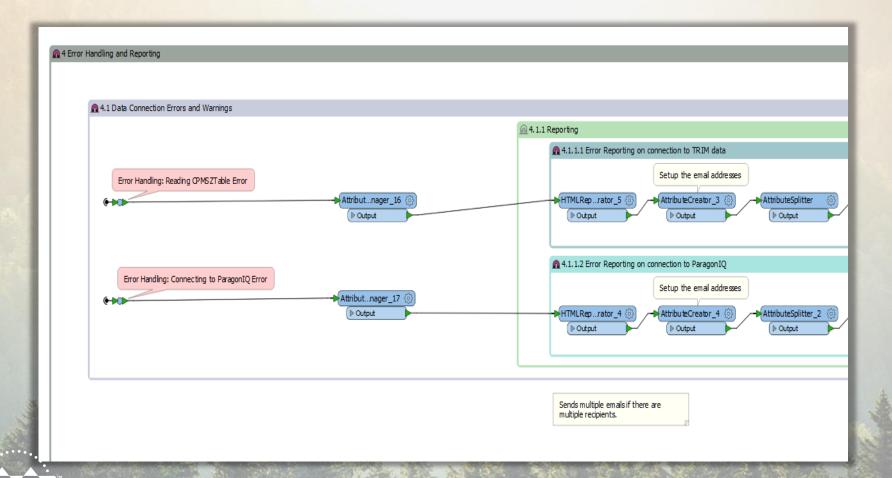
#### Time to run:

14 Seconds











### **CCC FME Standards in Use**

- Peer Review
- Testing
- Extra Development
- Deployment to Server

- Extra Development
  Effort
- Error Reporting
- Access to External Data
  Sources





# Where to from here

- Christchurch Meetup 2 (30/05/2018)
  - https://www.meetup.com/Christchurch-FME-Meetup/
- Continue to share knowledge
- Keeping standards current
  - FME software updates
  - Through our own learnings
  - Knowledge from others/the industry







## **THANK YOU!**

Paul Goodhue Kyle Dow

Photo Credit: Rodney Henderson-Fitzgerald

Christchurch City Council

