

Wednesday 30-Minute Webinar Series

# How Rittman Analytics Builds Modern Data Stacks using Cube, Preset and Dagster

📅 Weds 28th June 4pm UK / 11am ET / 8am PT

[Register Now](#)

presented by Amir Jaber  
Senior Analytics Consultant, Rittman Analytics



## INTRODUCTION

# Welcome to the 30 Minute Webinar Series

- Bite size insights for the modern data stack
- Rittman Analytics team sharing tips, tricks and insights
- Every two weeks on Wednesdays, 4pm UK time
- 20 minute hands-on presentation + 5 mins for Q&A
- Next 30 minute webinar on 12th July 2023  
“*ChatGPT, dbt and the Future of Analytics Engineering*” presented by Mark Rittman



Wednesday 30-Minute Webinar Series

**rittman**  
analytics

ChatGPT, dbt and the Future of Analytics Engineering

📅 Weds 12th July 4pm UK / 11am ET / 8am PT

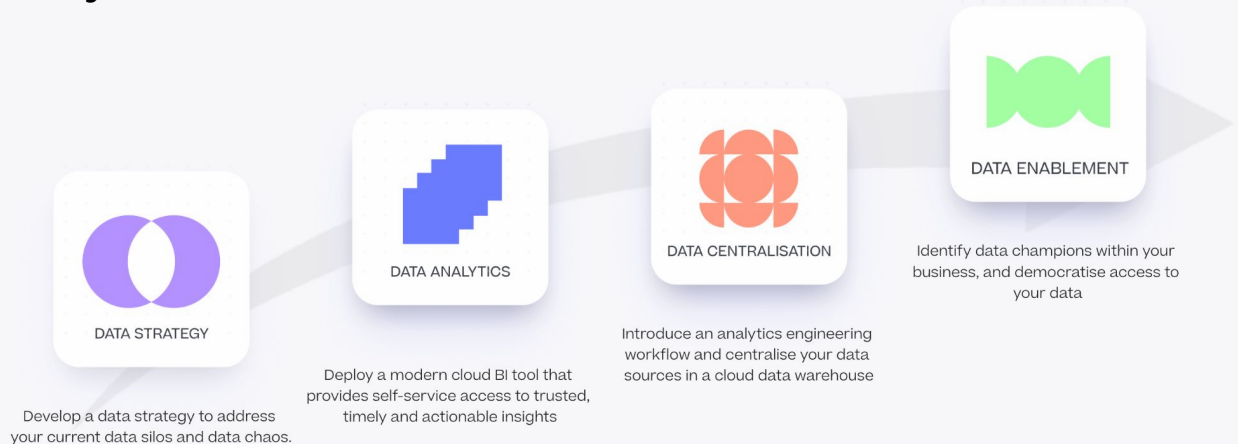
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presented by Mark Rittman  
Chief Executive Officer, Rittman Analytics

## INTRODUCTIONS

# Rittman Analytics

- Boutique analytics consultancy based in Brighton, UK
- Full-stack agile analytics consulting focused on the modern data stack
- We kick-start and modernise your data strategy, data team and data platform
- Partners with dbt Labs, Cube, Snowflake, GCP, Dagster, Rudderstack etc
- Find out more at **[rittmananalytics.com](https://rittmananalytics.com)**



# Agenda

- Tools at a glance
- Demo workflow
- Q&A

# About us



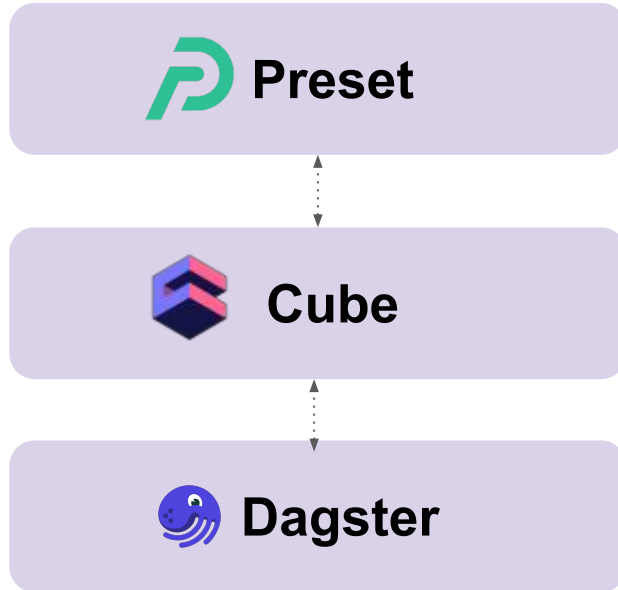
**Amir Jaber**  
Senior Analytics  
Engineering  
Consultant



**Mark Rittman**  
CEO

Tools at a glance

# Tools in focus



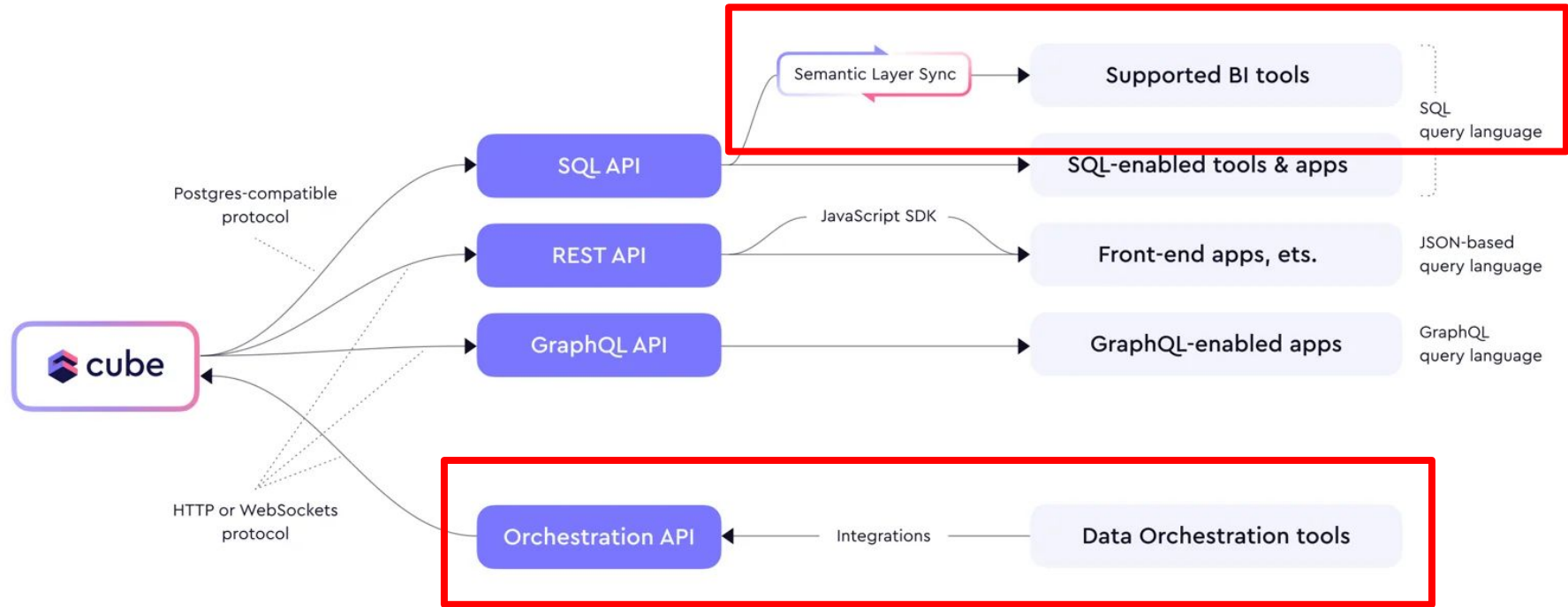
- Self-Service BI
- Data Visualisation
- Rich Visuals Library

- Semantic Layer
- Headless BI
- Query Acceleration

- Data Orchestration
- Declarative Data Pipelines

## Tools at a glance

# New new features in Cube



Demos



# How we structure cube projects



- **Auto generated** base code
- Inferred
  - Relationships
  - Measures
  - Dimensions
- Manual overwrites with **extends**
- Curate with **views**
- Environment separation through variables

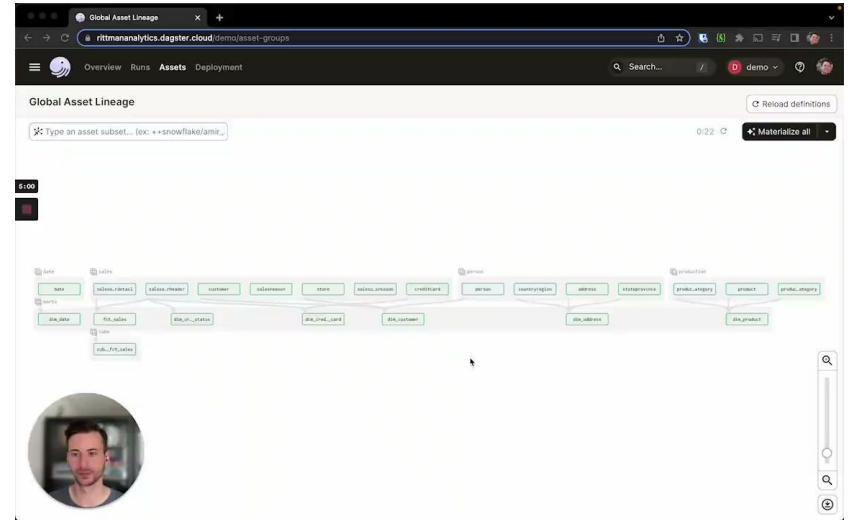
```
1 import { databaseSchema, databaseName } from '../tablePrefix';
2
3 cube('dimAddress_base', {
4
5   sql: `select * from ${databaseName()}.${databaseSchema()}.DIM_ADDRESS`,
6
7   show: false,
8
9   joins: {
10    },
11
12   dimensions: {
13
14     addressCityName: {
15       sql: `${CUBE}.ADDRESS_CITY_NAME`,
16       description: 'no description',
17       type: 'string'
18     },
19
20     addressCountryName: {
21       sql: `${CUBE}.ADDRESS_COUNTRY_NAME`,
22       description: 'no description',
23       type: 'string'
24     },
25
26     addressPk: {
27       sql: `${CUBE}.ADDRESS_PK`,
28       description: 'no description',
29       type: 'string',
30       primaryKey: true,
31       show: false
32     }
33   }
34 }
```

## Demo

# How we schedule pipelines with Dagster



- **Dagster cloud**
- **Local development**
- **CI/CD**
- **Importing dbt models** with few lines



Demo

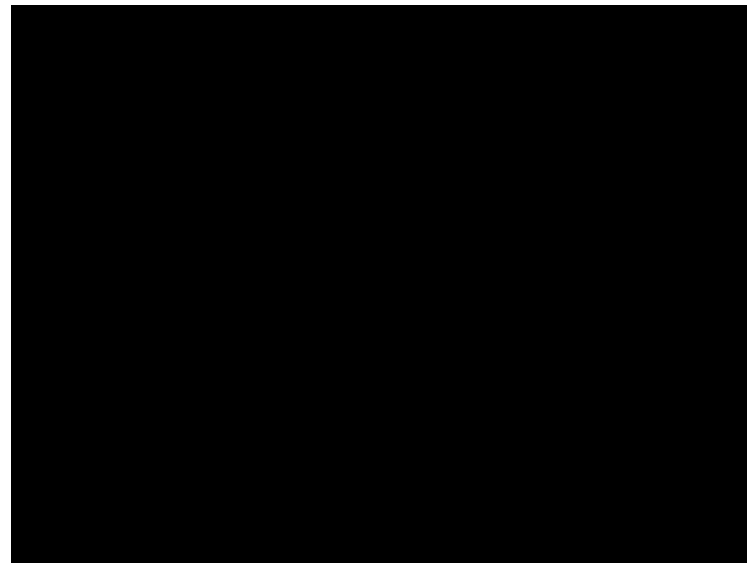
# Semantic Layer Sync



Push to BI application instead of pull

Benefits:

- One-click deploy **multiple objects**
- Sync to **multiple downstream applications**
- Sync **measures**
- Sync **name formatting**



# Orchestration API

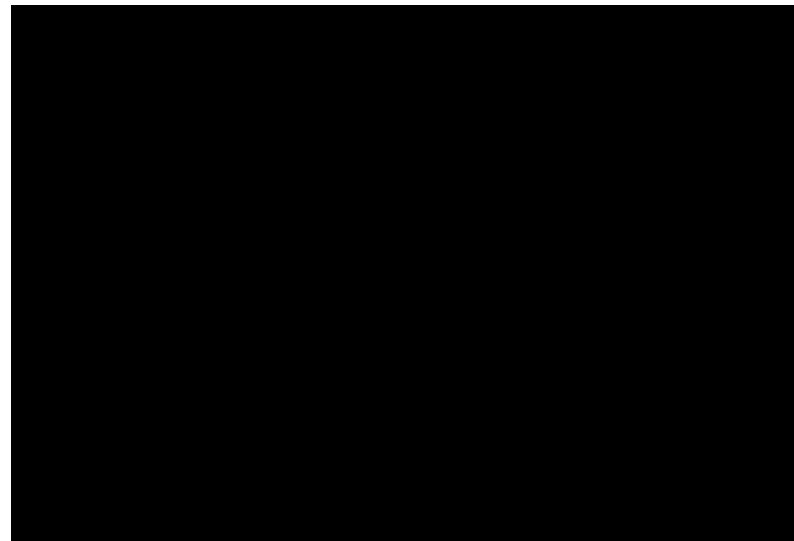


Kick off pre-aggregations **through an API** call.

Mix and match with traditional **schedule-based refresh** possible.

Benefits:

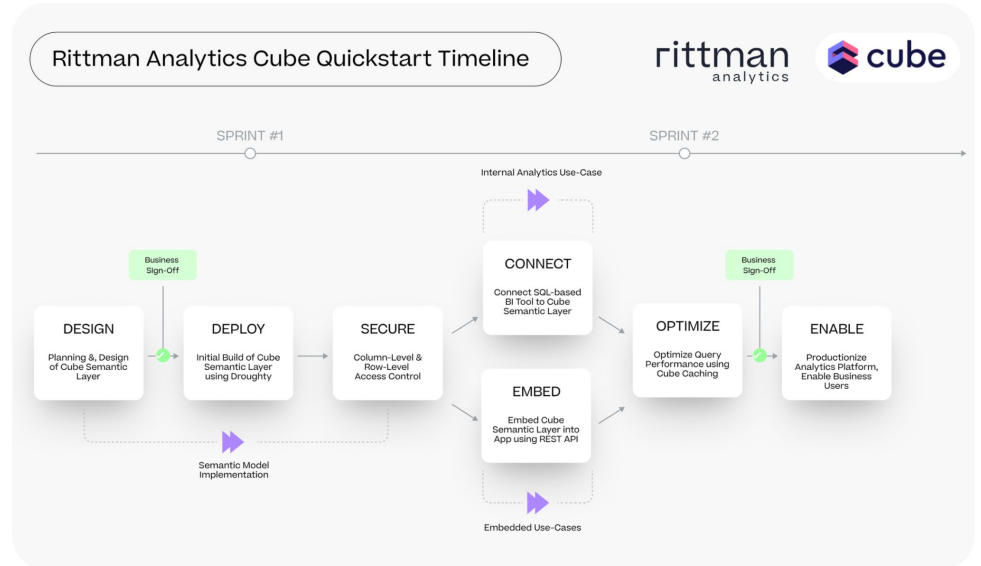
- Connect pre-aggregations with the **rest of the pipeline**
- Refresh **right after upstream assets**  
e.g. dbt models



## GETTING STARTED

# Cube Quickstart Package

- Rapid time-to-value with our fixed-price quickstart package for Cube <https://www.rittmananalytics.com/partners/cube>
- Design, implement and integrate Cube
- Connect it to your BI tool
- Orchestrate roll-ups and refreshes
- Integrate with your SaaS application
- Contact us for more details [info@rittmananalytics.com](mailto:info@rittmananalytics.com)



Q&A



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