



Choreo for the People



WSO2Con2025, Barcelona



Hello!

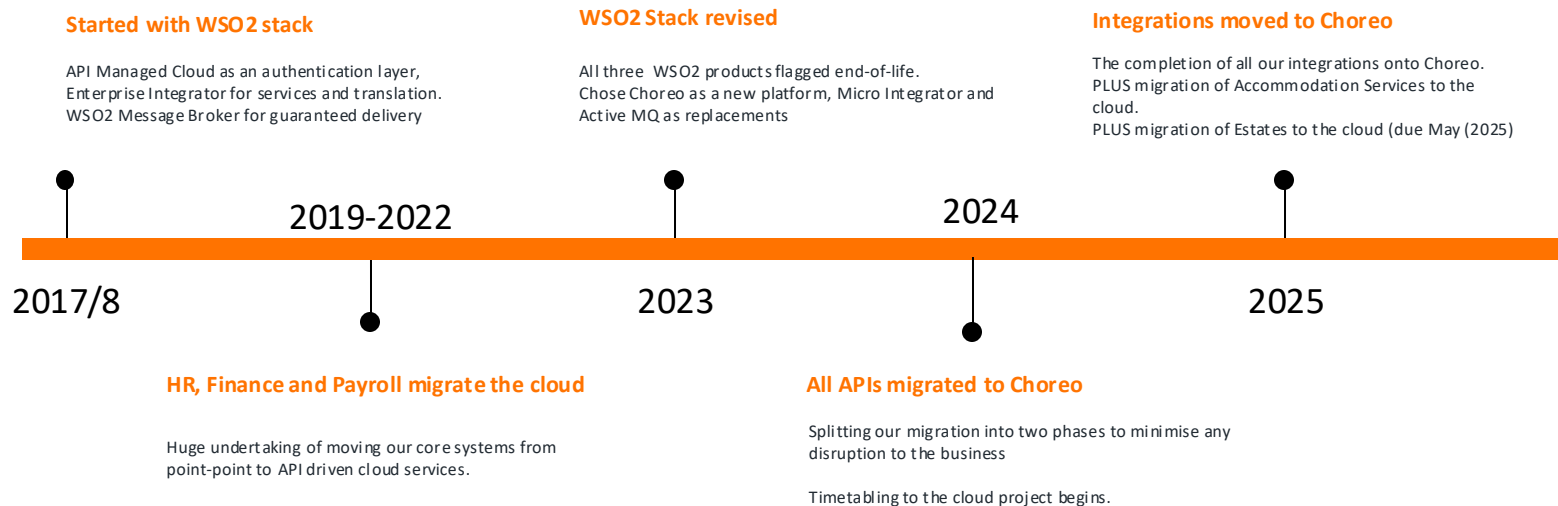
Martin Jones

Integration Architect, University of Edinburgh



<https://www.linkedin.com/in/the-martin-jones/>

University of Edinburgh Journey



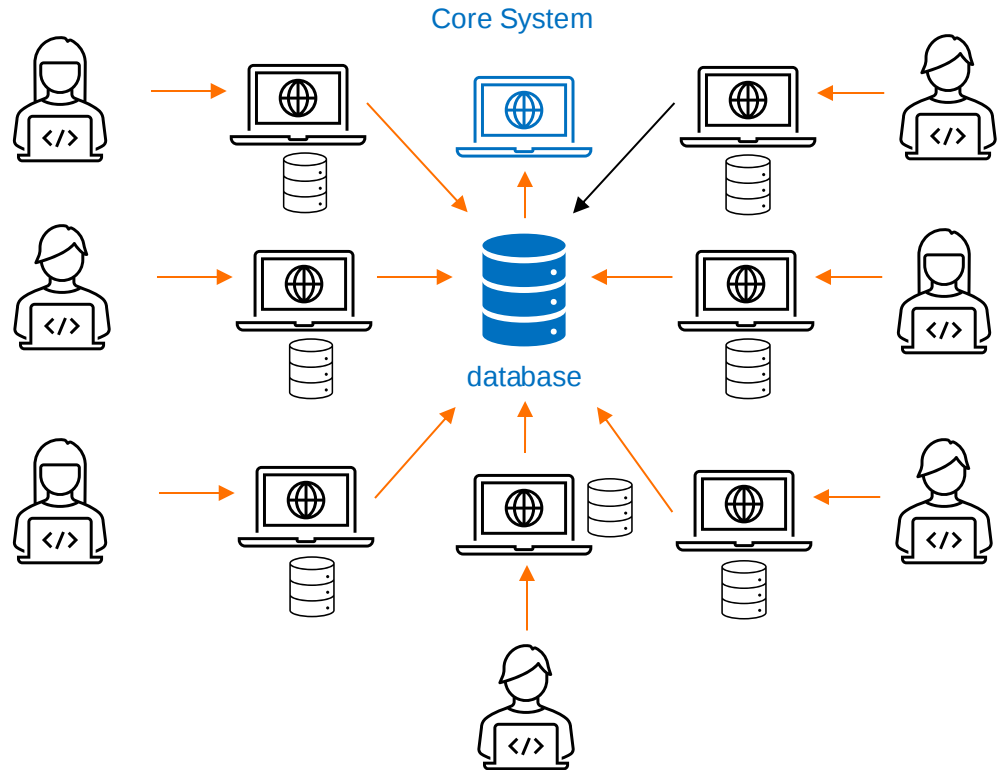
Where we came from

One Core System (vendor supplied)

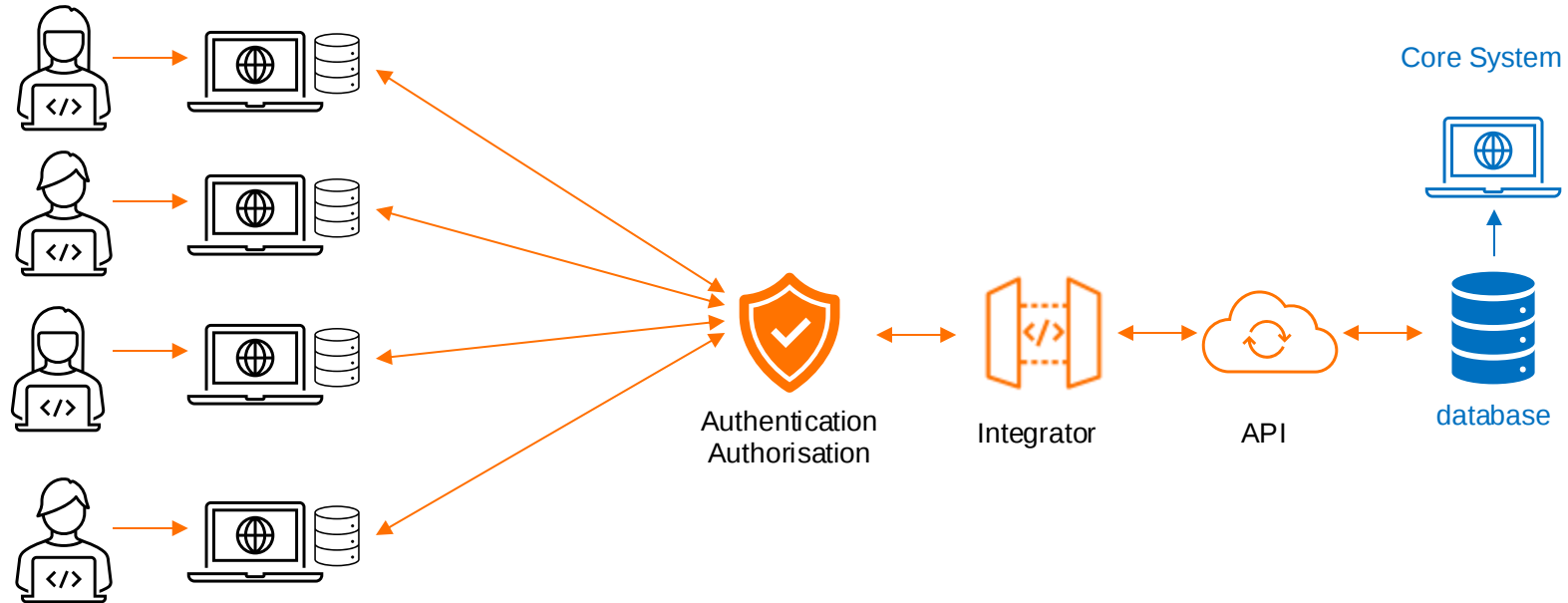
- 88 satellite applications
- Each application with its own core system database login and permissions and their own local databases trying to sync information (duplication of traffic)
- Database writes were restricted to loading table that ran overnight This is the 21st century, right?

Disaster....

The in-place update of that system took TWO YEARS!



Where we are



Why “For the People”?



People make our business

- Experiences are better shared. Collaboration is key.
- This is an in-person event, and the experience is so much better for it.
- I am here to connect with people as much as I am here for the technology. Where would I be without Ollie's candle?
- Covid changed the way we work, and hybrid working is now the norm.
- The University of Edinburgh is a campus-based employer. We have hybrid working - "I" get more done when working from home, but I collaborate and share more on my office days.



What People?

- Developers
- Sys Admins
- Business Partners / Services – Finance, HR, Payroll, Student Systems, Timetabling, Accommodation, Estates, Online Learning, Identity, Research, Card
- Support Staff – UoE and WSO2
- Budget Holders – procurement, senior management, project managers



**Great things in business are never done by
one person. They're done by a team of
people.**

- Steve Jobs -



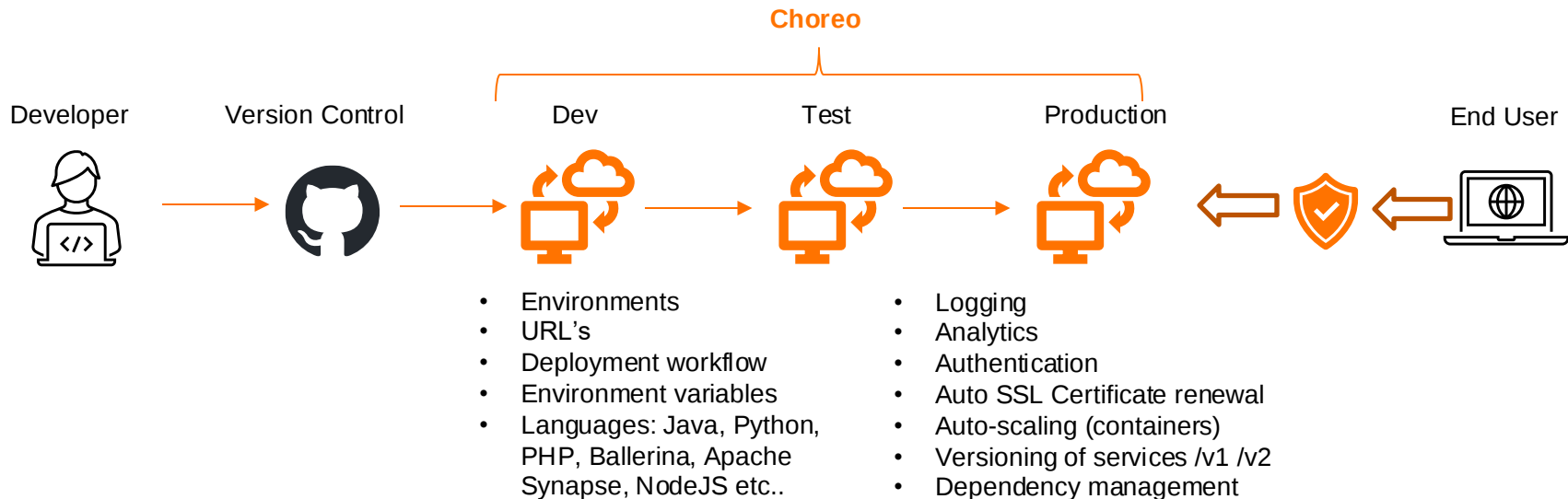
How can Choreo help our people?



Choreo is the infrastructure



Choreo provides the infrastructure and deployment tools get our code to the end user.
As an IT organisation, setting up and maintaining infrastructure is expensive and time consuming so automating this is hugely beneficial



What about our businesses?





Asanka Abeysinghe

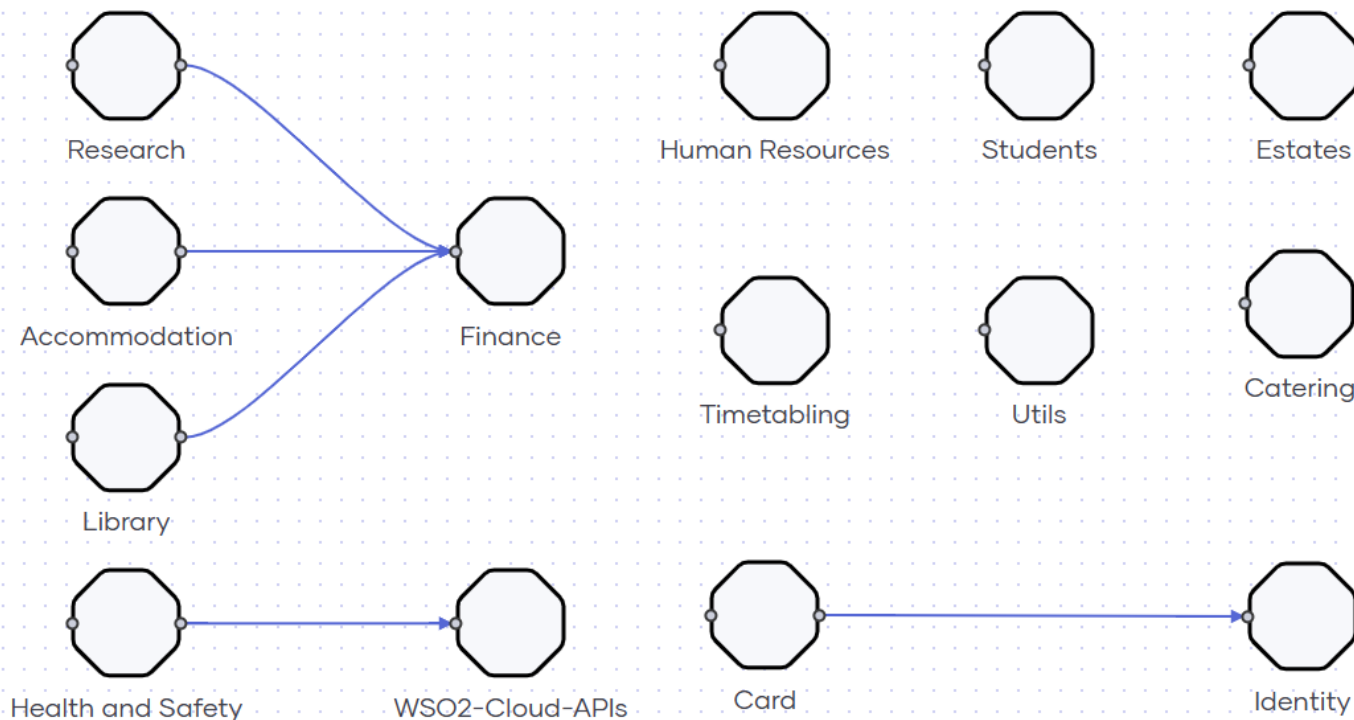
DDD and CBA

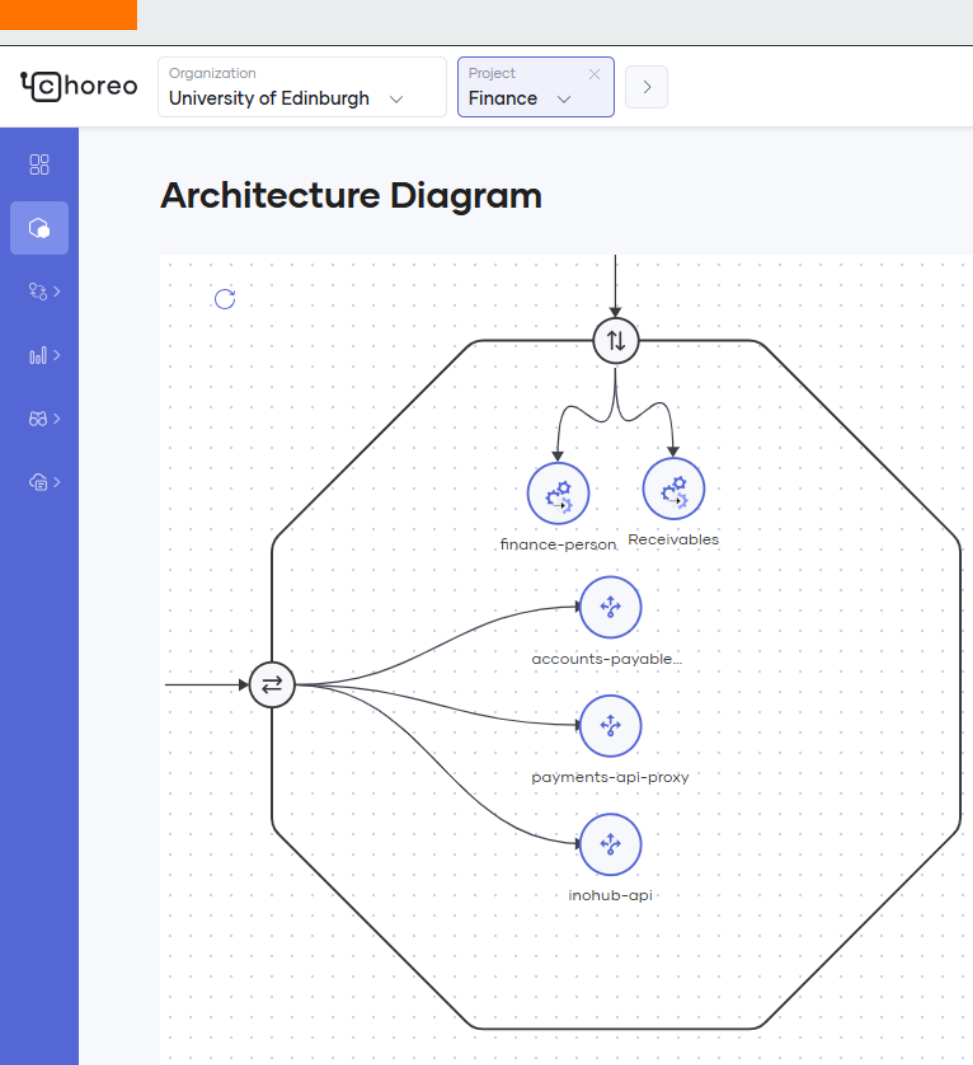
Domain Driven Design and Cell Based
Architecture

[https://github.com/wso2/reference-
architecture/blob/master/reference-
architecture-cell-based.md](https://github.com/wso2/reference-architecture/blob/master/reference-architecture-cell-based.md)

How can we implement that at UoE?

Architecture Diagram





Detail view, using Finance as an example

- Receivables
- Payables
- Personal Finance Service
- Vendor Interfaces
- Logging and stats per business container/component
- Internal connectors for better performance and security
- New services can run in parallel using versioning.
- Switchover is as simple as updating the version number.
- Accommodation, Personal Finance Service and Estates are perfect examples.

What about our budget holders?



Working with WSO2 to save money

AWS PAYG over 3 years: c5d.4xlarge Linux instance with 16 vCPUs,
32 GB memory, and up to 10 Gb network

\$ 25,228.80

The same service paid up front for 3 years

\$9,224.28

>63% saving

Speak to your WSO2 account manager





AI

It's amazing

AI is fantastic but...

- It can't gather business requirements
- It doesn't know what our users/customers/colleagues need
- Its knowledge is based on the "internet" ... which is not always right
- ChatGPT's knowledge only goes as far as September 2021
- It has no idea about your value as a team member.
- It's not here to replace developers. It is a very useful tool.



Identity Management

- Included, out of the box. OAuth, JWT, scopes and more.
- Asgardeo / Identity and Access management.

This is a hot topic right now, especially with interoperability, the user experience and the pull of vendor tie in!

Forrester review last year showed WSO2 as a leader in this space,



What sort of usage?



5,265,100

Requests per month

Summary. Focusing on the Business and not the Platform

- People drive our business. Collaborating in person yields the clearest requirements.
- The clearer the requirements, the clearer the solution.
- Choreo provides the infrastructure to deliver and manage our integration layer. Reducing the effort needed to deploy to production.
- Building reusable integrations is key to our architecture. [Abstraction] Removes point to point, makes migrations simpler and can even run in parallel in the same platform.
- Security and authentication out of the box
- Logs and Analytics give us feedback and identifies improvements

Thanks!



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Question Time!

