



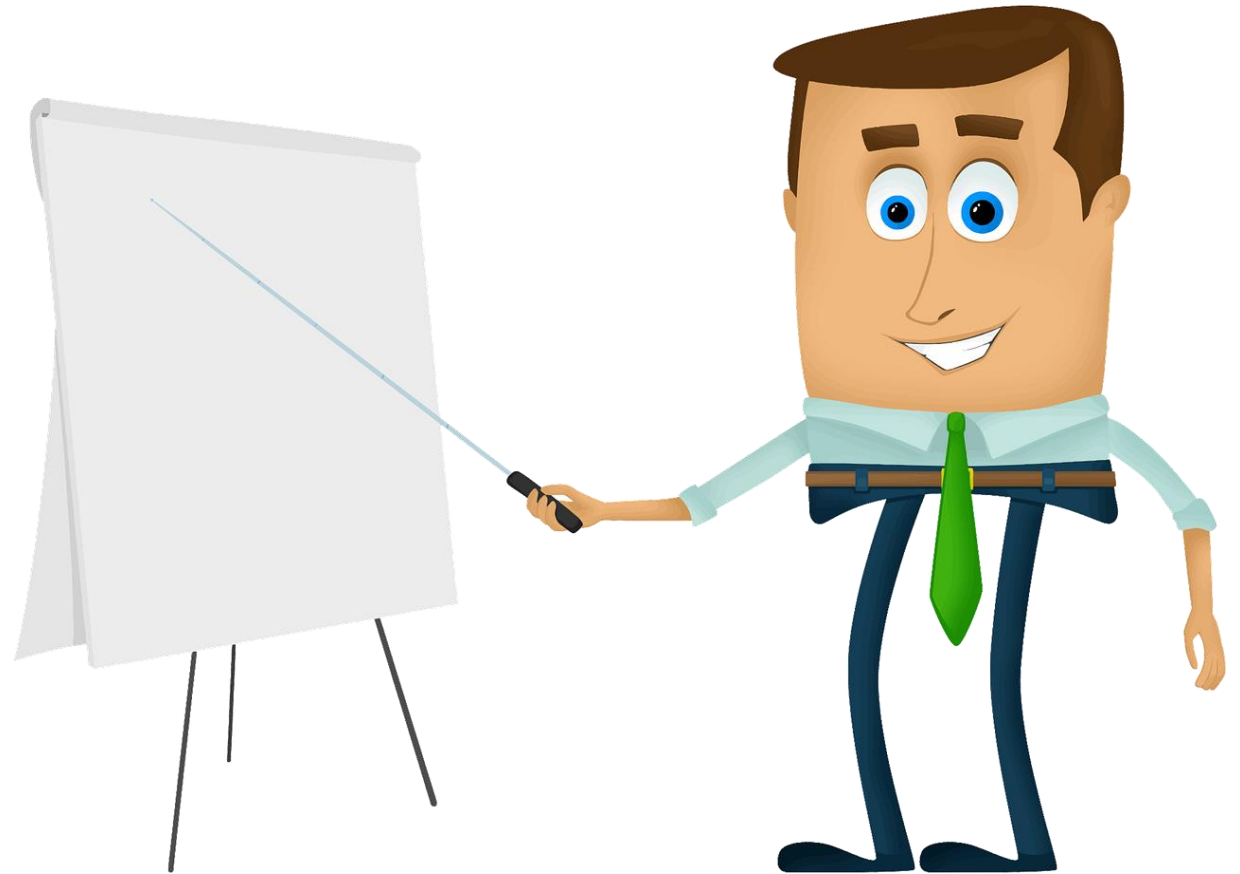
SCE Alchemy: The Return of the QC Process, and Rise of Training via LLM

Eleanor Sparling / Steve Griffiths

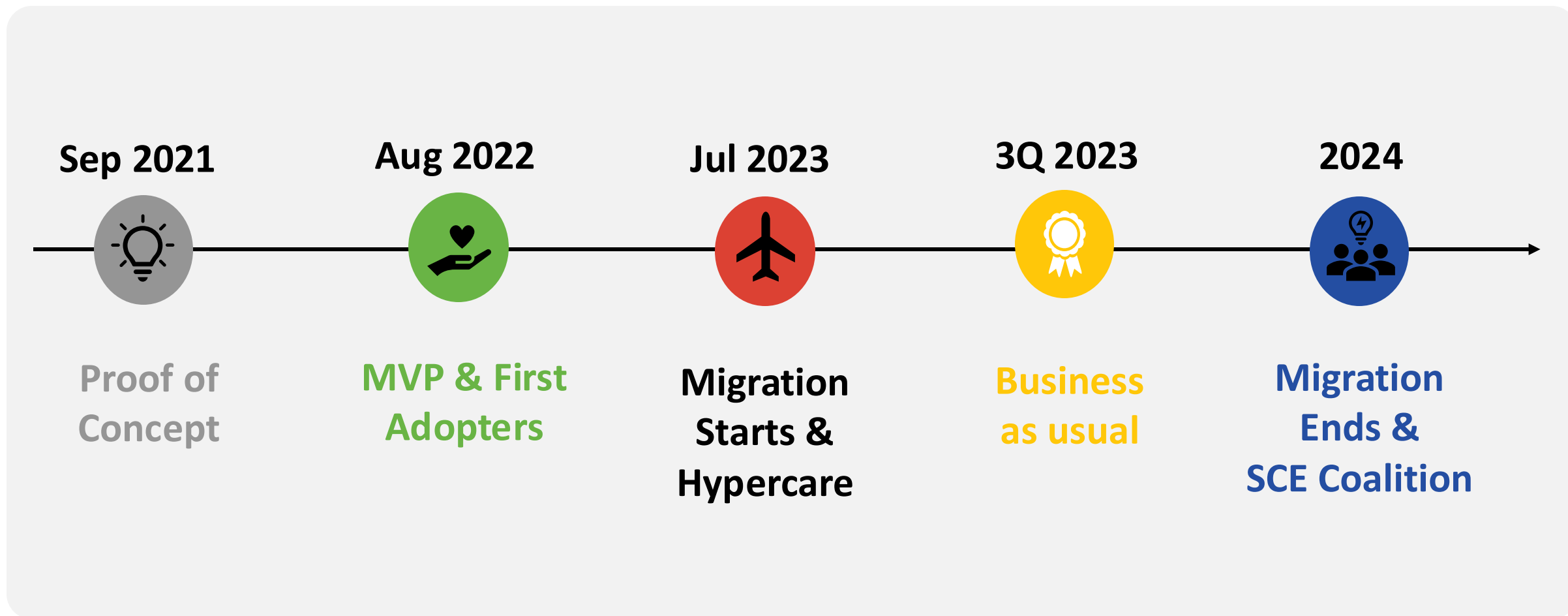
PHUSE EU CONNECT 2024

Agenda

- The Story So Far
- System Retirement
- Key New Features
- User Documentation
- Quality Control



The Story So Far



System Retirement (HARP)

- Legacy studies in HARP
 - Migrated or archived
- HARP linux servers now 'Read Only'
- User support sites decommissioned
- HARP Application decommissioned
- All HARP related trainings removed from learning platform

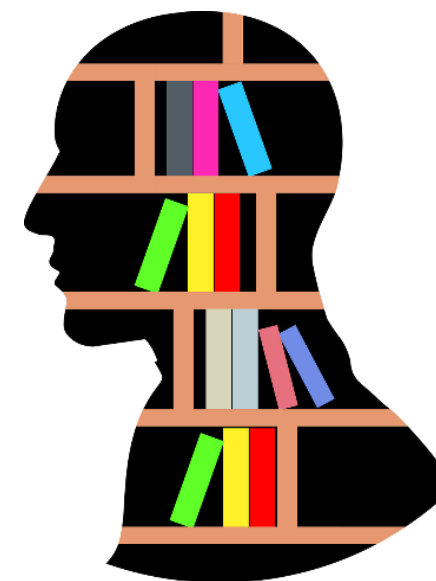


Key New Features

- SDTM in Domino (SiD)
- Import / Export and External Partners
- Push Biostats data 'downstream'
- Myriad improvements to existing functionality to improve user experience
- Performance Improvements

User Documentation

Curricula	Training Item	Training Document	Latest Version	Release Month
Mandatory for Access	METEOR Overview	METEOR Overview Module	v4	Aug 2024
	Intro to GitHub	Intro to GitHub video	v1	Nov 2023
		Getting started with GitHub Enterprise Cloud	v2	Dec 2023
		Clinical Study Reporting GHE User Guide	v1	Nov 2023
	GitHub for Studies	Template repo – Instruction level detail in README	v1	Nov 2023
		Create a study repo video	v1	Nov 2023
		Branching Workflows Video	v1	Nov 2023
	Domino Basics for Analysis & Reporting	Domino Basics for Analysis & Reporting Document	v9	Aug 2024
	METEOR Program Development	METEOR Program Development Document	v9	Mar 2024
Role Based	Training Study Exercise	METEOR Training exercise	v3	Nov 2023
	Self - service PA Creation	Self Service PA creation	v3	Mar 2024
		SDTM Projects creation and data refresh	v1	Nov 2023
		Service Now Form	v1	Nov 2023
		Instructions to fill Copy SDTM	v3	Mar 2024
	Running Multi-Program Jobs	METEOR Running Multi-Program Jobs	v12	Aug 2024
	QC process in METEOR	QC Report	v1	Nov 2023
		QC Report Explanation	v1	Jan 2024
		CX_RUN_Checklist	v1	Oct 2023
	ADaM/ OPS Metadata	ADaM Metadata Management for METEOR	v1	Jan 2024
		ADaM Specification Template	v1	Nov 2023
		ADaM 04 - Working with ADaM specifications	v2	May 2022
	How to Specify legacy programs in METEOR	SPACIFY Legacy Programs for use within METEOR	v6	Mar 2024
	Metadata, Centralised Data and File Storage	Metadata, Centralised Data and File Storage Document	v4	Mar 2024
	Exchanging data with External parties	Exchanging Data with External Parties Guide	v2	Feb 2024
		Exchanging Data with GSK Teams	v1	Feb 2024
	Generation of P21E Report and Define.xml and ADaM SDP content	Generation of P21E Report and Define.xml and ADaM SDP content Document	v1	Nov 2023



User Documentation – Gen AI

Gen AI @ GSK

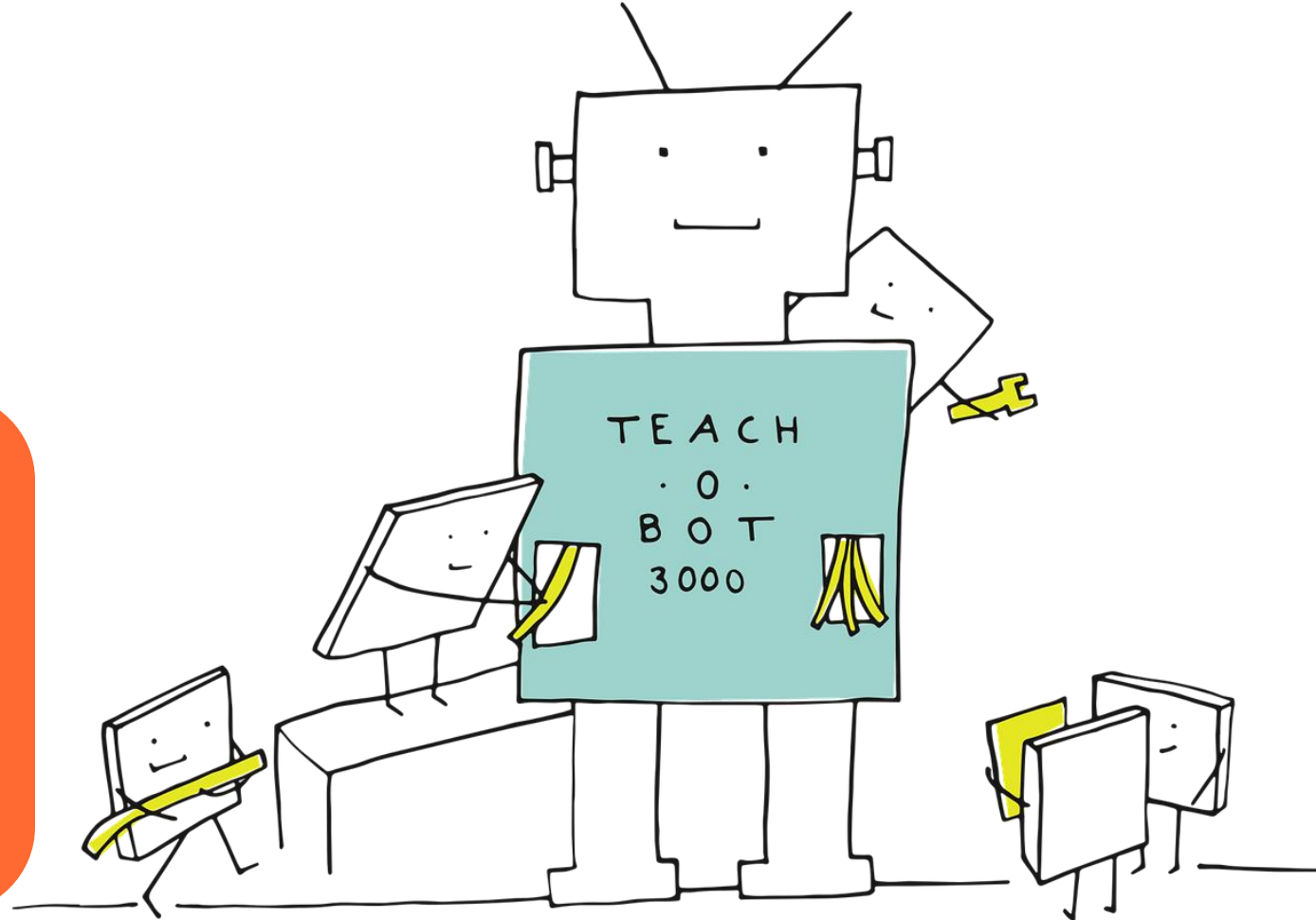
- Jules



- GiGi



- Not a copy and dump into a KB article
- Each current document may form several KB articles
- Goal to convert all current documentation by EOY 2024.



User Documentation – Gen AI Example

Parameter	Required / Optional	Description
[JOBID]	Required	this is the job name and is reference elsewhere without the brackets. A valid name can be any string that does not contain ']', ',' or '\n'
Command	Required	This must be a valid path to a SAS / R program or a .sh script starting from /mnt/code/
tier	Optional	Valid values are the name of any hardware tier that the executing user has access to. If not specified, the job will use the project's default hardware tier
depends	Optional	If present, the job will not start until the specified jobs have completed. Valid values include any other defined JOBID in the configuration file. Multiple jobs dependencies can be included by separating each job dependency with a comma (without spaces). If no dependencies are listed, jobs will run in parallel. Additional validation is performed to ensure no circular dependencies exist.
environment	Optional	Valid values are the IDs of any compute environment that the executing user has access to. Template provides correct Environment ID for SAS, R and QulT script. If not specified, jobs will run in the default environment for that project.
project_repo_git_ref	Optional	An alternative Git repo can be specified for the project repo. This is provided in the form reference type, reference value.
imported_repo_git_refs	Optional	Alternative Git repos can be specified for each imported repo. Each imported repo should be listed in the form repo name, reference name, reference value. Multiple repos should be separated by a single space, e.g. repo1, ref1, value1 repo2, ref2, value2.

what is the jobid parameter?

As documented in *METEOR Running Multi-Program Jobs V12.pdf*, the [JOBID] parameter is required and represents the job name. It is referenced elsewhere without the brackets. A valid name can be any string that does not contain ']', ',' or '\n'.

⚠ Double check the citations and outputs prior to using them.

How do I identify the job within multijobs?

As documented in *METEOR Running Multi-Program Jobs V13.pdf*, each job in the configuration file has a unique JOBID parameter, which serves as the job name. This JOBID is referenced elsewhere in the configuration file without the brackets. A valid JOBID can be any string that does not contain ']', ',', or '\n'.

To identify a job within multijobs, you can look at the JOBID parameter in the configuration file. Here is an example format:

```
[job1]
environment: 6297c79c84e697145c857132
command: /mnt/code/prod/datasets/job1.sas
```

In this example, job1 is the JOBID for the job.

The Future of Quality Control



Governance features

- Integrated Audit trail
- Integrated workflows



AI's role in QC

- Reduced overhead
- Reduced timelines



Agile and Project Management

- Transparent metrics
- Resource management

The Future of Quality Control

1

Statistical programmers are not software developers

We produce data not software

2

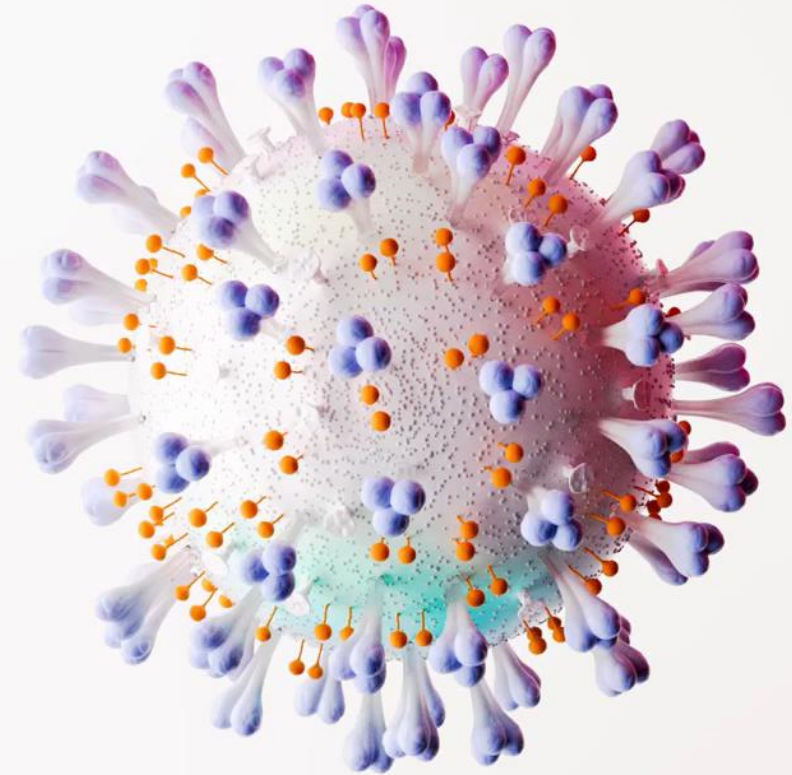
We produce hundreds of individual outputs

For hundreds of studies for hundreds of compounds

3

New to agile

Mindset and Methodology



Our Key Learning

- Technology should not be limited by process
- Multiple feedback channels
- Building a community is essential
- It's a marathon not a sprint



Next Steps

- Completion of training material migration into KB articles
- Adoption of QC process
- Adoption of Agile
- Explore open source and collaboration



GSK

Previously at PHUSE

- Belfast (2022)
 - Introduced SPACE, METEOR (SCE powered by Domino)
 - Mission – unite Pharma / Vaccines reporting practices
 - AGILE framework
 - GitHub
 - Development of training materials and user support model
- Birmingham (2023)
 - Move from Minimal Viable Product (MVP) to ‘Business as Usual’ (BAU)
 - Users can create projects and manage teams without tech support
 - Role based unblinding
 - UAT for new features / regression testing
 - Migration from legacy systems
 - Increased user support

