



Composing Better Clinical Outputs

Karma Tarap
NJSUG Webinar

Who is this guy?

Innovation Lead, BMS

Background

- 20+ years in **Pharma & Biotech**
- Statistical Programmer at **Novartis, Roche, J&J, and BMS**
- 10+ years as a **SAS programmer**
- Brief moment of fame: nominated **SAS-L Rookie of the Year** in my first year using SAS

What I Do

- Lead innovation initiatives at BMS
- Build smarter workflows, tools, and algorithms
- Passionate about modernizing how we work with data and analytics

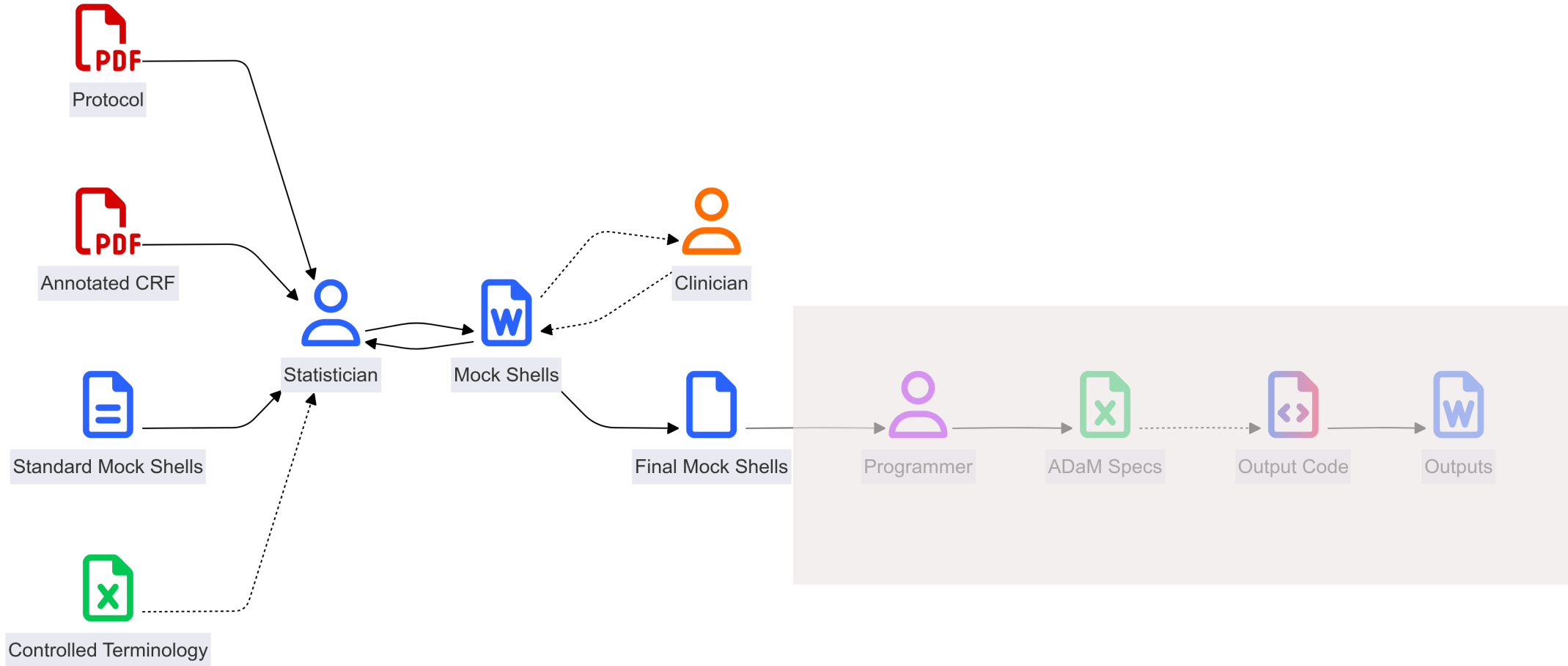
Fun Facts

- Avid **snowboarder, mountain biker, and climber**
- Based in Switzerland – where that's just... Wednesday
- Still loves coding and problem-solving (yes, voluntarily also)



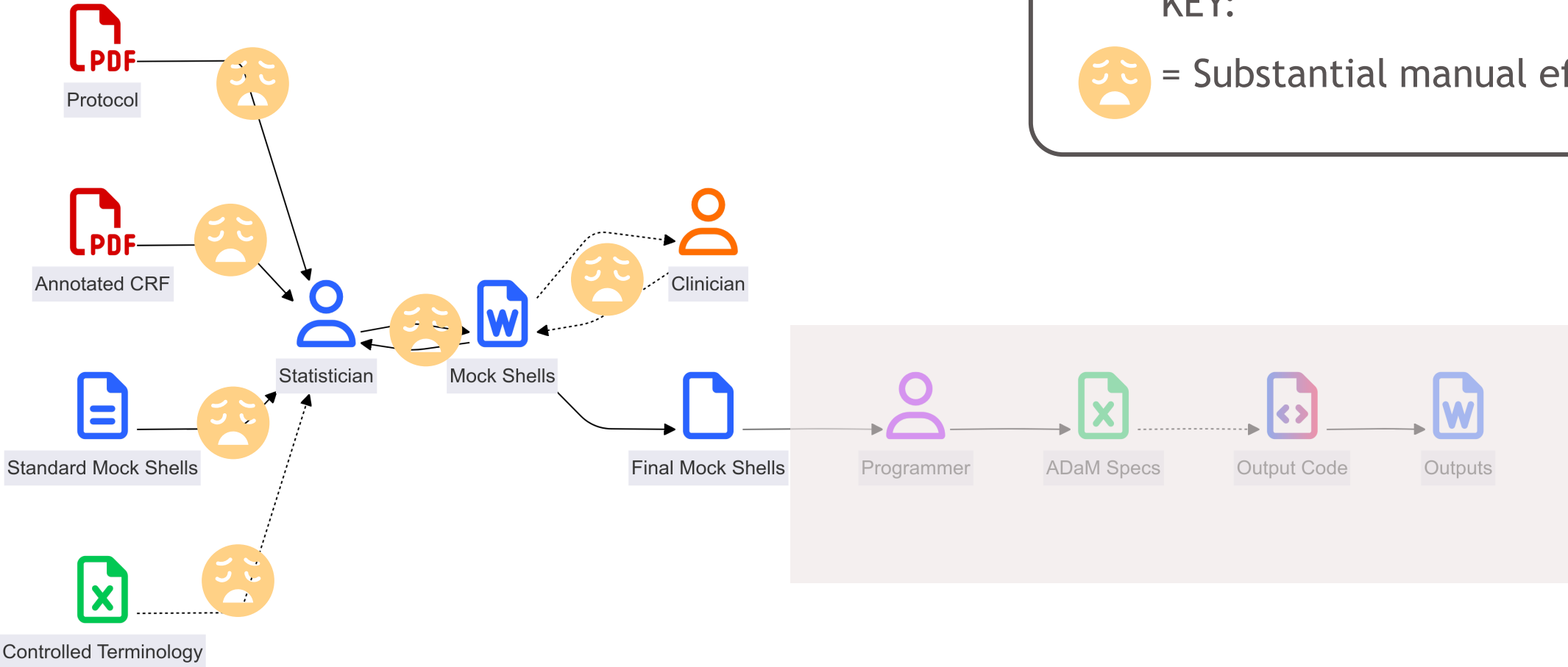
Karma Tarap

A Typical Mock Shell Workflow



A Typical Mock Shell Workflow

KEY:
 = Substantial manual effort

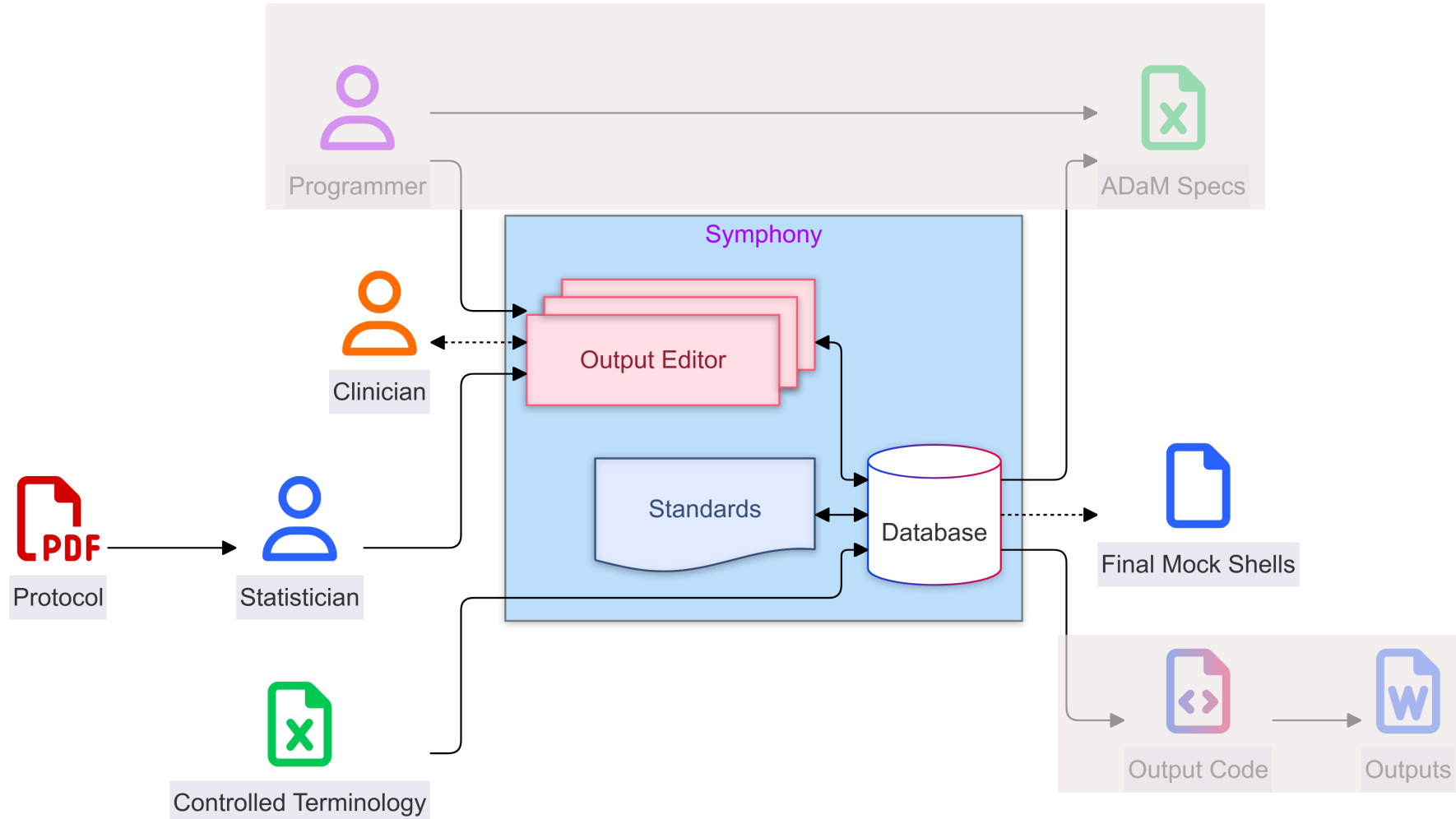


The Problem with Fragmented Workflows

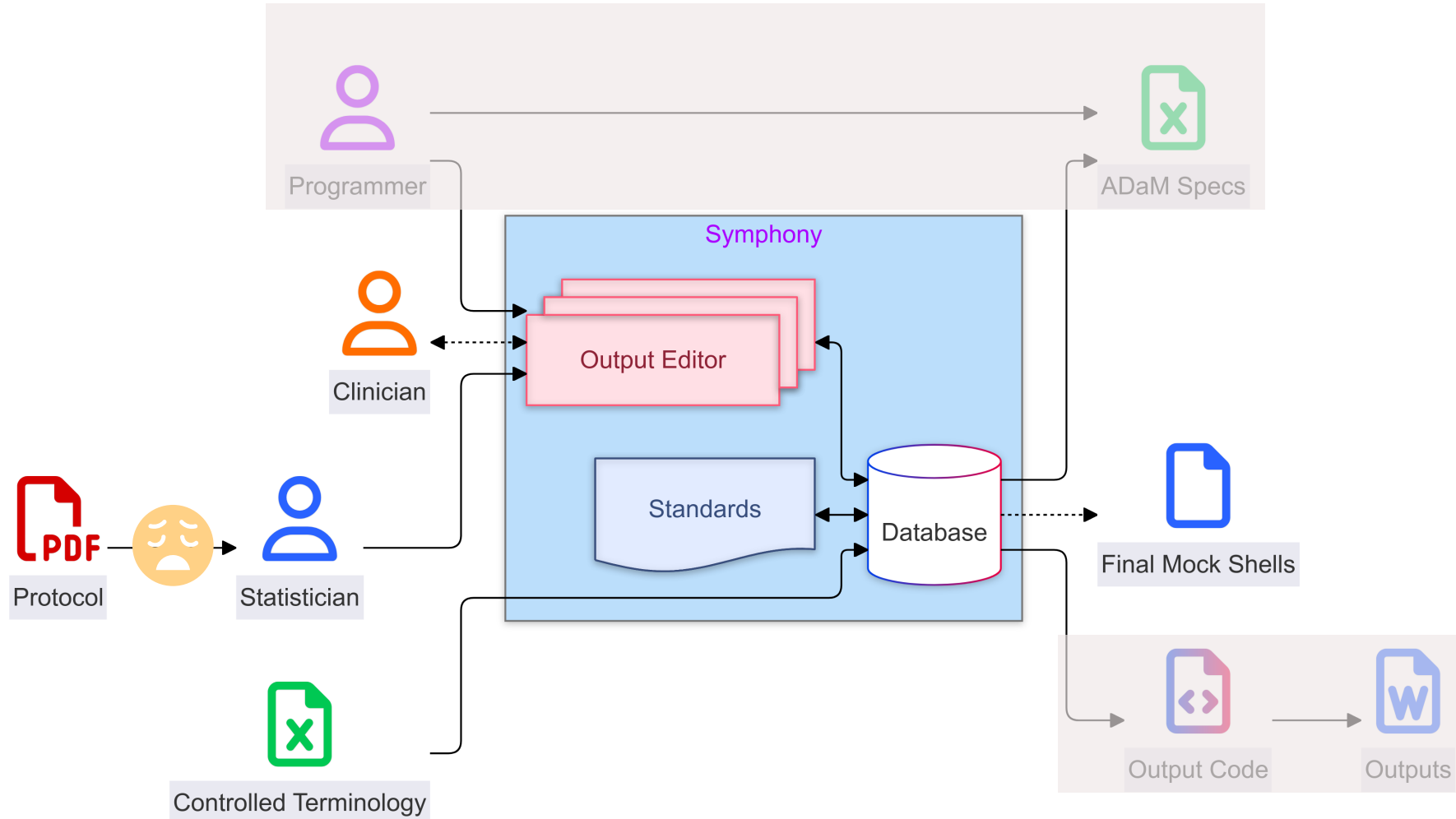
Fragmented workflows lead to isolated teams



Introducing Symphony: A Unified Workflow



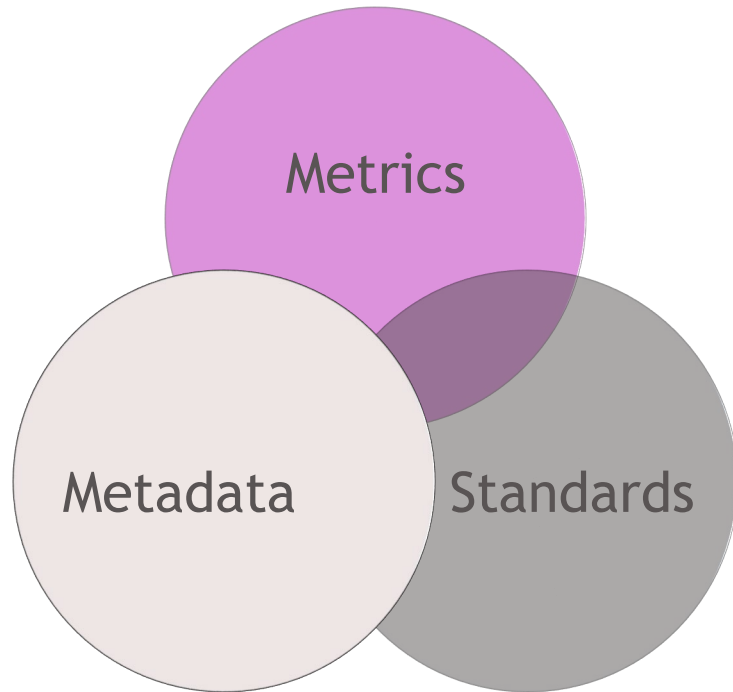
Introducing Symphony: A Unified Workflow





Symphony in Action - Demo

Where Do We Go From Here?



Building Metrics

Track workflow efficiency and identify bottlenecks.
Optimization and standardization.



Extracting Downstream Metadata

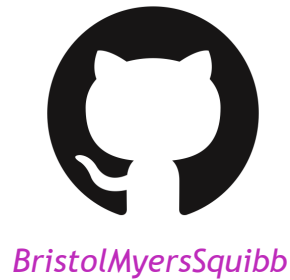
Controlled Terminology
Analysis Results Metadata (ARM)
ADaM Variable Metadata



Strengthening Internal Standards & Coverage

Expand the Standards Catalog
Enhance Output Coverage

Join the **Symphony** - Let's Build Together!



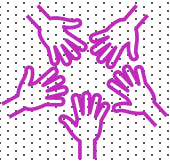
Symphony Web application



Composer TFL package



Dev Team



Y-Company

John Coene
Pierre Saouter

Cynkra

Mike Page

BMS

Karma Tarap
Margaret Wishart

Q&A | Any questions?





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