Navigating Programming Language Transitions in Pharma



Community Meeting

12:00 EST

26th Nov, 2024

R Consortium Pragmatic Support with Global Reach

- R Consortium Community **Grants** and Sponsorships Over
 USD \$1.4 Million
- Organize large scale collaborative projects
 - R Validation Hub
 - R-Ladies
 - R Submissions Working Group
- Co-host multidisciplinary data science forums
 - Stanford Data Institute
- Direct support for key R events
 - o useR!, New York R, R/Medicine, R/Pharma, more
- Direct support for R User Groups



















Join the R Consortium!

The R Validation Hub is a Working Group under the R Consortium



- Enhance the R ecosystem
- Help ensure the future of R
- Collaborate with your peers across industry
- Provide leadership in the R
 Community
- Protect your investment in R
- Support open source

Our Membership



















Biogen



























Understanding each other (poll)

- What industry you are in?
- What programming language do you use for most of your work (R, SAS, etc)?
- What does your programming support? (GxP work, Exploratory Data analysis, etc)
- Is there interest in your company in switching over to R for clinical work?



Structure of today's community meeting

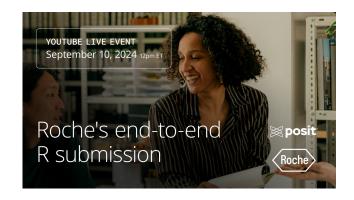
- Overview of industry examples of using R
- Discussion
 - Do you have preferences in using R vs SAS for different kinds of work? For instance, for submissions, general analysis, etc.
 - Are there any obstacles to switching and what are the parts that make it easy?
 - Examples of success/pain points in transitioning to R
 - And more...



Examples of R in the Industry

- Novo Nordisk: Journey to an R-based FDA submission
 (posit.co blog link / YouTube link) September 2023
 - Submitted its first R-driven package to the FDA
 - An in-depth look at Novo Nordisk's computing platform and internal R package suite
 - Risk assessment categorization heavily based on the R Validation Hub {riskmetric} along with an internal app for users to submit packages
- Roche's end-to-end R submission for a new drug application
 (posit.co blog link / YouTube link) September 2024
 - Showcases use of open-source R in regulatory submission process
 - Effective presentation and validation of R-generated data and documentation
 - Broadly followed R Validation Hub's white paper





• These are just a couple of examples! Which others can you think of?

Discussion Questions

- Do you have preferences in using R vs SAS for different kinds of work? For instance, for submissions, general analysis, etc.
- Are there any obstacles to switching and what are the parts that make it easy?
- Examples of success/pain points in transitioning to R
- And discuss anything more under related to our discussion topic (Navigating Programming Language Transitions in Pharma) as you wish!



Thank you for joining!

