

# PharmaDevOps: Development Operations Guidance for Clinical Reporting Codebases



Project Scope
<ul style="list-style-type: none"><li>• Landscape of what CICD is used today across the pharmaverse, and key pre-named reference packages outside the pharmaverse used in clinical reporting (e.g. ggplot2, survminer).</li><li>• Summarise integration deployment and release pain points within these R packages.</li><li>• Connect with the R Validation Hub and vendor tooling (e.g. Atorus openvalidate) to understand what key devops tooling could be applied to packages to accelerate validation.</li><li>• <b>Deliverable 1:</b> Summarise the state of DevOps in the pharmaverse today, with proposals on key tools used already, and where there are gaps.</li><li>• <b>Deliverable 2:</b> Develop the existing CICD library used in some pharmaverse R packages (referenced earlier in this proposal) to:<ul style="list-style-type: none"><li>◦ deliver a recommended suite of CICD tools for R and python packages that improve developer efficiency, and ensure code is well tested and consistent when merged to branch</li><li>◦ provide off-the-shelf configurations to use tools such as docker images managed locally or via Github codespaces to simplify environment management.</li></ul></li></ul>

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Objectives & Deliverables	Timelines
Preparation of deliverable for PHUSE US Connect 2024	Q3 2023
V1.0 of suite/library of CICD tools released	Q4 2023
Support adoption across pharmaverse and biostatistics packages where maintainers are willing to collaborate	Q1 2024
Close V1.0 with hackathon in the lead-up to the PHUSE CSS 2024	Q2/Q3 2024

<b>CURRENT STATUS</b> Q1 2024
<ul style="list-style-type: none"><li>• Hit 1.0 target on <a href="#">GitHub</a></li><li>• v0.9 was presented at the PHUSE US Connect as an oral presentation</li></ul>