Introducing pharmaverse & admiral

CDISC COSA Hackathon Kick-off: 26th Jan 2023
clinical reporting (CRF -> Submission) forms a small part of a large chain in bringing a treatment to patients.

this space can be considered “post-competitive” - as it is our treatments that set us apart.

thanks to CDISC we have industry standards that mean we all face the same challenges.

we have much more to gain (than to lose) through industry collaboration around open source.
pharmaverse

A curated, opinionated, pharma stack of open source R packages to enable clinical reporting (from CRF to eSubmission) backed by a community of passionate individuals and organisations committed to co-creating efficiency in our mission to improve health.

Search our site here...

Search
Our Charter

- End-to-End Clinical Reporting Packages

SDTM
ADaM
TLGs
- eSub
Metadata
Utility
Validation

Get Packages
Contact

eSub

eSubs (eSubmissions) refers to the tools used to help submit electronic Common Technical Documents (eCTD) to regulatory bodies.

xport
Serves as a single tool to create SAS transport files and perform pharma specific dataset level validation checks

pkglite
To represent and exchange R package source code as text files, e.g. readable code

< TLGs
Metadata >
The four packages used with a brief description of their purpose are as follows:

- `metacore`: provides harmonized metadata/specifications object.
- `metatools`: uses the provided metadata to build/enhance and check the dataset.
- `admiral`: provides the ADaM derivations.
- `eport`: delivers the SAS transport file (XPT) and eSub checks.

It is important to understand `metacore` objects by reading through the above linked package site, as these are fundamental to being able to use `metatools` and `eport`. Each company may need to build a specification reader to create these from their source standard specification templates.

### Load Data and Required pharmaverse Packages

The first step is to load our pharmaverse packages and input data.

```r
options(repos = c(  
  pharmaverse = "https://pharmaverse.r-universe.dev",  
  CRAN = "https://cloud.r-project.org")
)
library(metacore)
library(metatools)
library(admiral)
library(admiral.test)
library(eport)
library(eport)
```
# announcements

**Ross Farugia** 2:44 PM

Hey pharmaverse community, we have 2 new links to draw your attention to which we have both pinned up on the pharmiverse website: [https://pharmaverse.org/](https://pharmaverse.org/):

- Our sister site dedicated to showing end-to-end clinical reporting examples showing how pharmaverse packages can compliment each other to solve our challenges. So far we have an ADSL example, a demographic table, and a Skinny app - but more will follow over time! Thanks to @Christina Filmore, @Jane @Jadranka Levardouekic & @Alen for their support here!
- Our YouTube channel as mentioned above - thanks to @Benjamin Strub for posting the latest video! It would be great to see other packages beyond [admiral] platform to share content with the userbase. Contact me if interested.

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**Thomas Neitzman** 5:38 PM

I’m very excited to share another major [admiral] milestone with you today: [admiralconco], the first therapeutic area extension package, has been released! It offers tools designed for a range of use cases and technologies, including [admiral], [admiral], [admiral], and [admiral]. Check out the [admiralconco](https://pharmaverse.org/admiralconco) gallery for more information.
Imagine a world where...

every company (large & small), charity, academic group etc all have access to FREE solutions to support creating a clinical submission.

regulators receive more consistent packages delivered using trusted code, thus speeding up approval times and patient access.

less resource intensive clinical reporting leads to individual data science talents being freed to help generate new scientific insights.

our regulatory pathways are revolutionised opening the doors for less paper-based submissions via interactive tools.

we achieve all of the above TOGETHER!
useful links...

**slack channel:**
https://pharmaverse.slack.com/
(use this link to join our community, if you don’t already have access)

**website:**
https://pharmaverse.org/

**examples:**
http://examples.pharmaverse.org/

**open pharma:**
http://openpharma.pharmaverse.org/

**youtube:**
https://www.youtube.com/channel/UCxQFEv8HNqM01DXzdQLCy6Q

**linkedin:**
https://www.linkedin.com/groups/9126149/