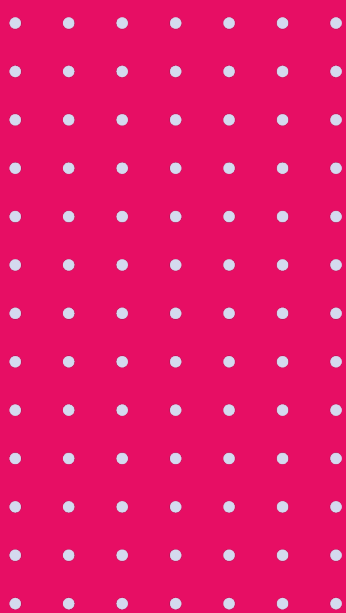




The M Files: I Want to Believe

SM06

PHUSE EU Connect 2022

1. Scenario

2. What is MFILE?

3. Benefits and Risks

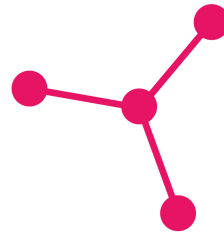
4. Lessons Learnt

1. Scenario

IDMC Workflow



Client



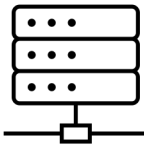
veramed



3rd Party



IDMC



In-house
Macros



DTLF
Codebase

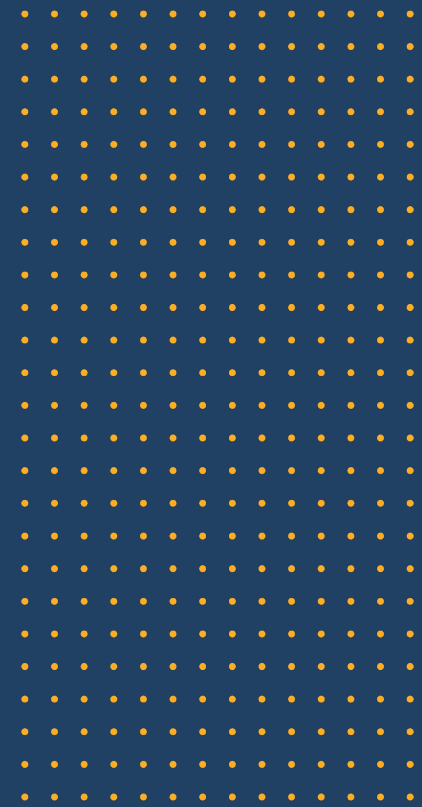


Unblinded
Outputs

Securely Send In-house Macros

Match 3rd Party System and avoid In-house Macros

MFILE

A decorative graphic on the left side of the slide, consisting of a grid of small orange dots arranged in 10 rows and 20 columns.

What is MFILE?

MFILE routes output produced by the MPRINT option to an external file.

Essentially, MFILE converts SAS files into macro-free programs.

```
filename mprint 'output-file-name.sas';  
options MPRINT MFILE;
```

Example Code Change

```
%do i = 1 %to 3;  
    put var&i;  
%end;
```



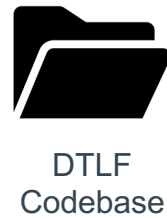
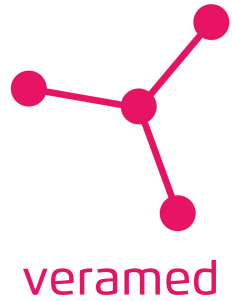
```
put var1;  
put var2;  
put var3;
```

```
proc sql;  
    select count(usubjid) into: tn1-:tn2  
    from adsl group by trt01an;  
quit;
```

```
label trtcol1="&tn1."  
      trtcol2="&tn2.";
```



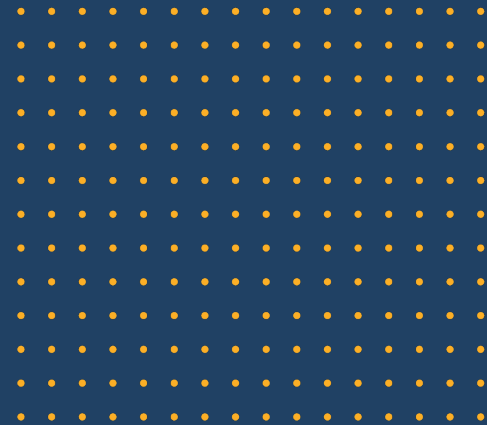
```
label trtcol1 = "110"  
      trtcol2 = "104";
```



MFILE Conversion

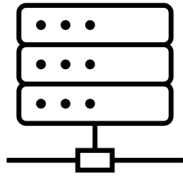
Update all SAS files to include “options MFILE”
Run all programs to create MFILE version
Save MFILE versions and package together

Benefits and Risks

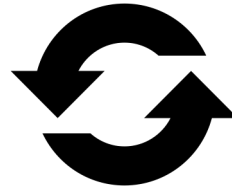


3. Benefits and Risks

Benefits



- Able to use in-house macros securely
- Same code base for all deliverables



- Repeatable across deliverables
- Repeatable across studies
- Script easily adaptable to new issues



- Process is managed internally
- Conversion run on client system

3. Benefits and Risks

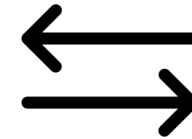
Risks



- Issues at 3rd party end are unpredictable



- MFILE code is effectively a black box
- MFILE code is hard to edit and update

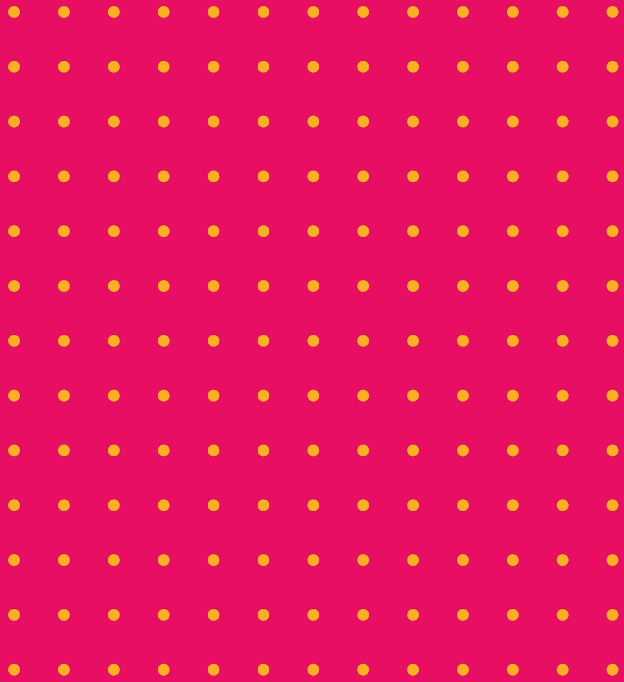


- Leads to a lot of back and forth between relevant parties

Communication is Key

Expect the Unexpected

Proceed with Care



Thank you!

Find us at **BOOTH 26**

Demos:

- Data Visualisation
 - Automation
 - Cloud SCE
 - RWE

Contact me:

gregory.nunn@veramed.co.uk

