phuse·virtual

Single Day Event

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Becoming A “Lazy” Programmer with New Tech – Innovation Cases Sharing

Agenda

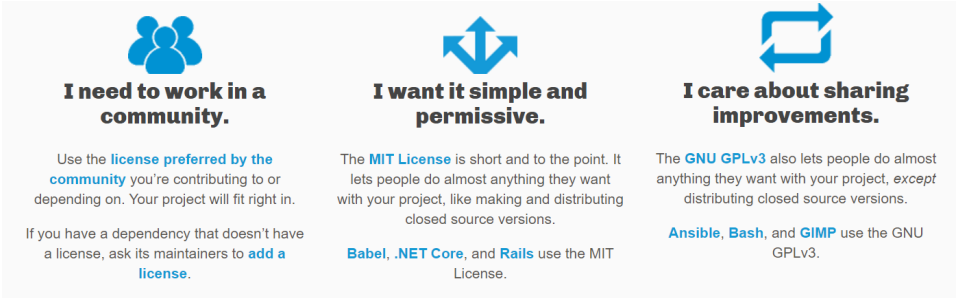
- Why new tech?
- Innovation cases sharing
- Future application

Why new tech?

- Turn the laziness into efficiency

“Progress isn't made by early risers. It's made by lazy men trying to find easier ways to do something.”
— Robert Heinlein

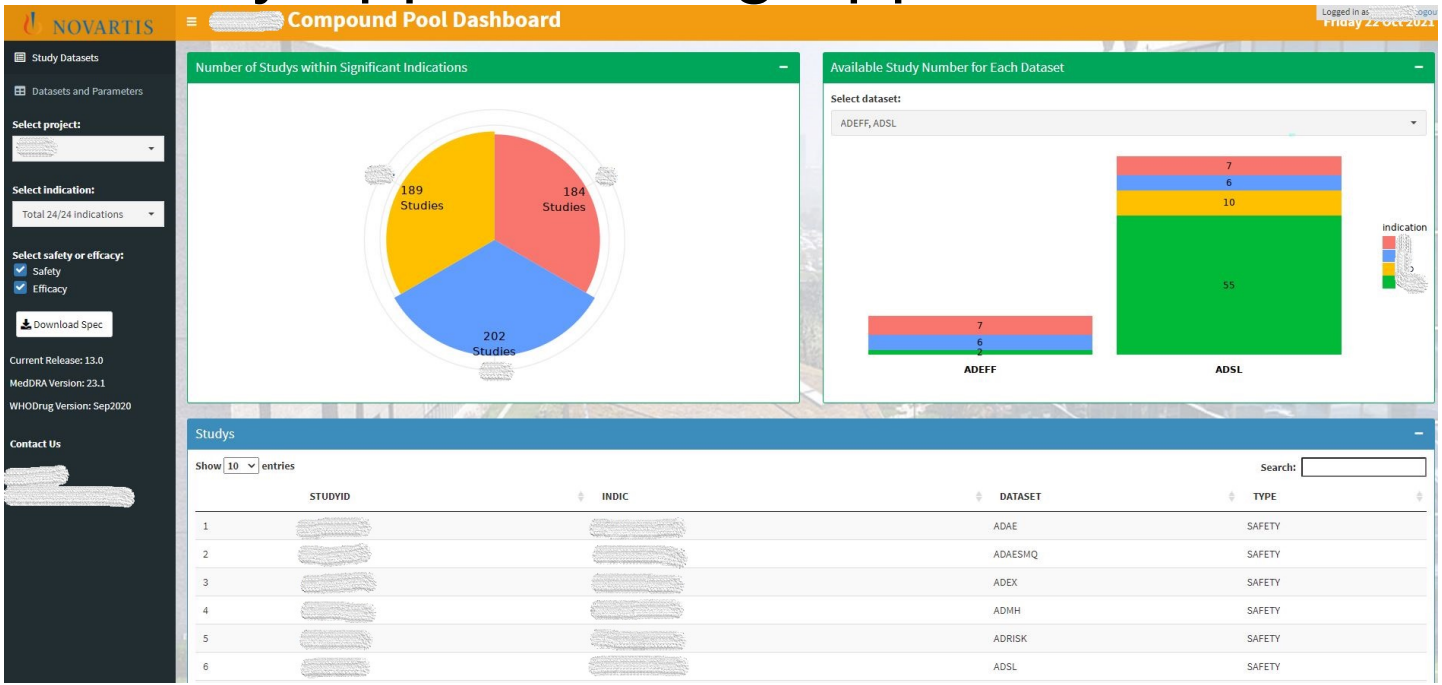
- Open source technologies are developing rapidly
  - Growing user communities
  - Rich resources
  - License



- Trends in the pharma industry

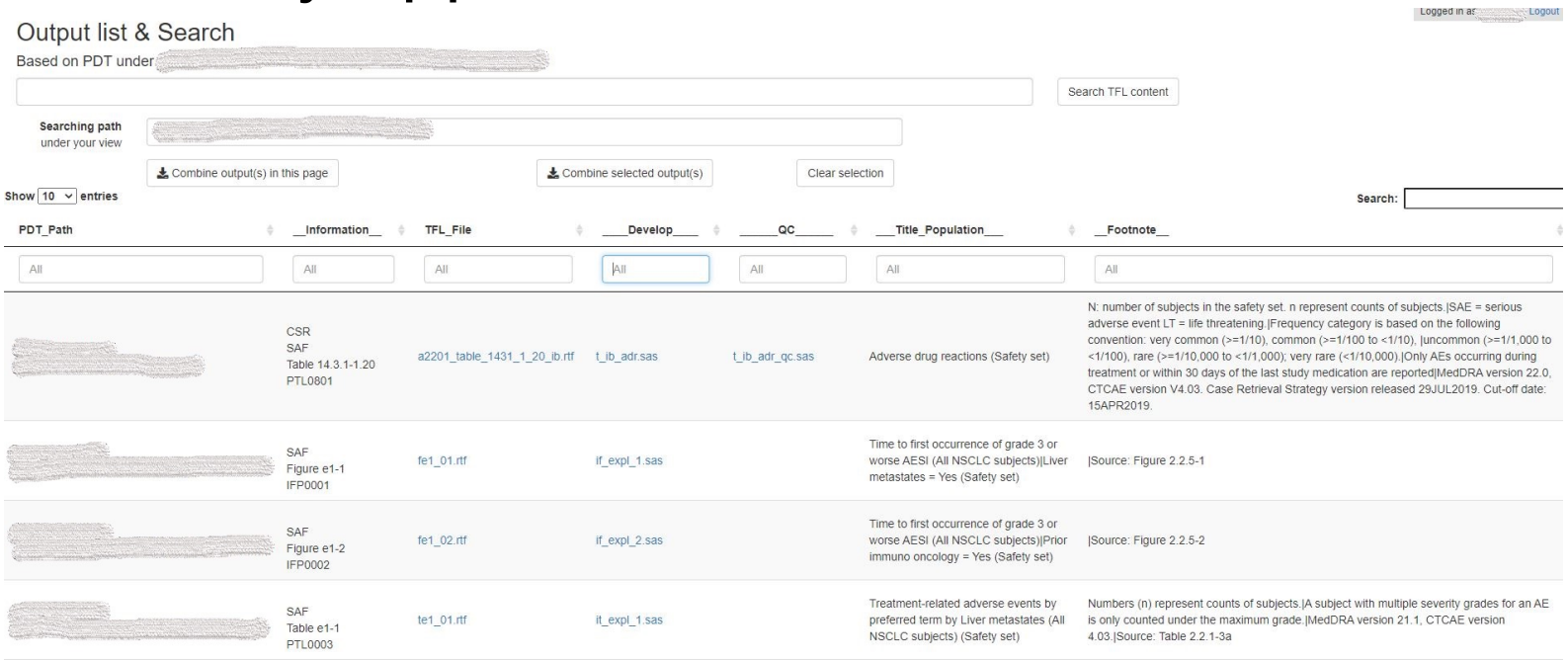
Innovation cases sharing

- R shiny Apps: Pooling App



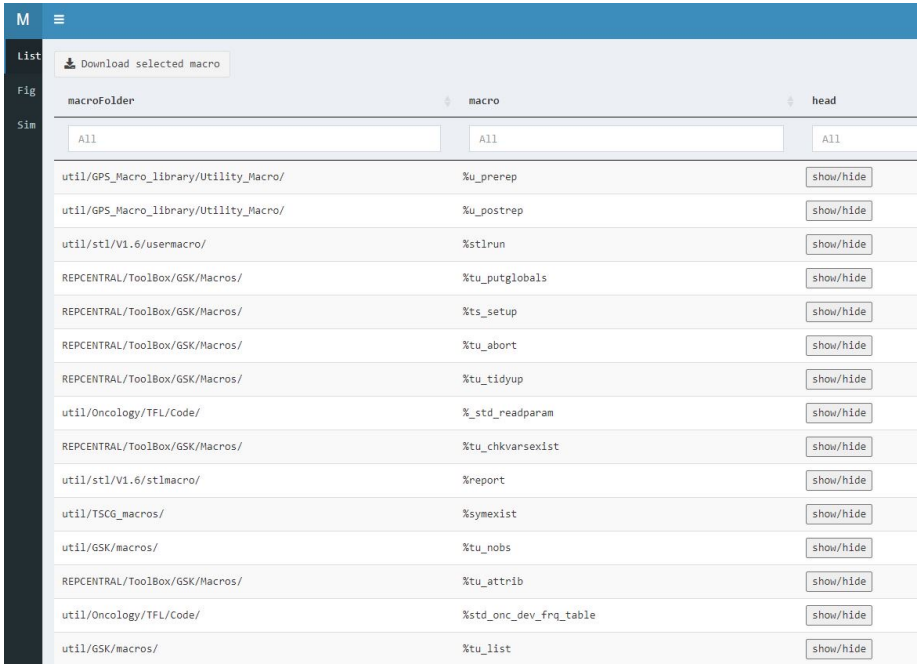
Innovation cases sharing

- R shiny Apps: Deliverables tracker



Innovation cases sharing

- R shiny Apps: SAS macro database

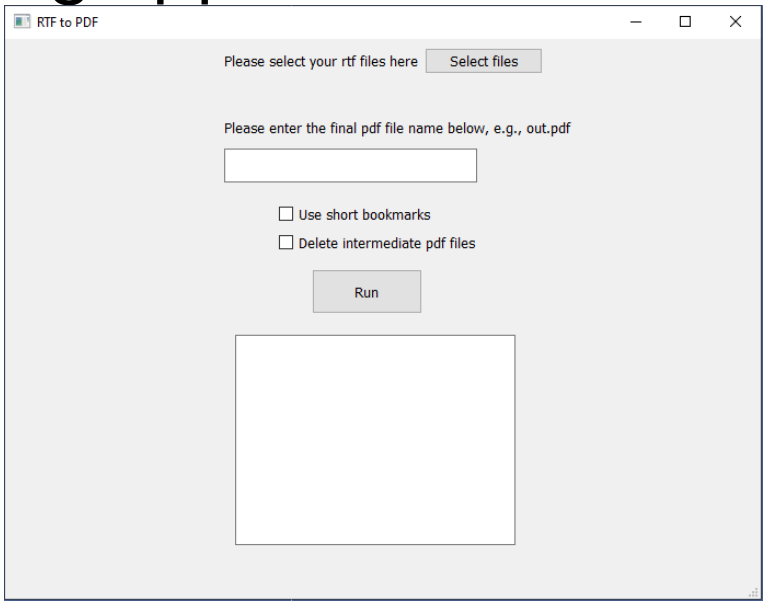


Innovation cases sharing

- Multi-system RTF packaging app
  - Windows: Python

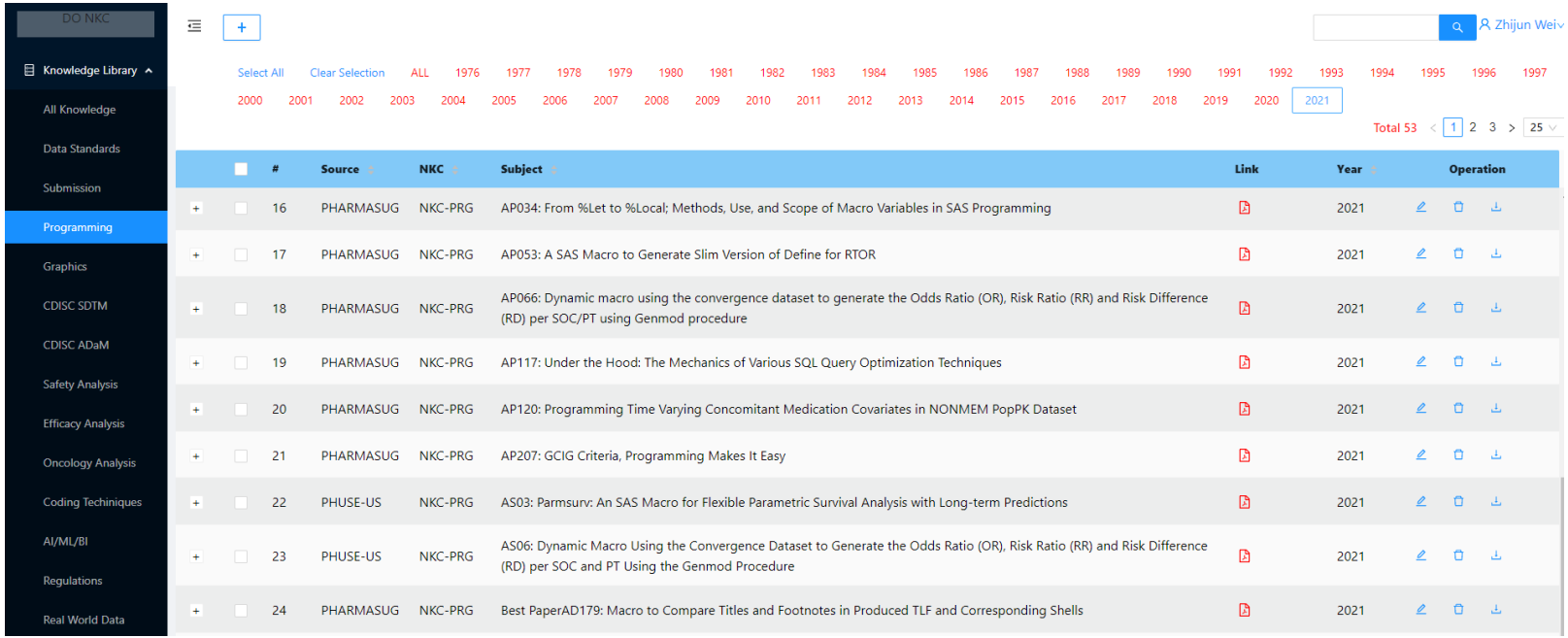
  - Linux: Shell

```
[wangch5s@GLCHBS-SP200209 ~]$ echo Hello, PhUSE SDE Shanghai!
Hello, PhUSE SDE Shanghai!
```



Innovation cases sharing

- Paper database



#	Source	NKC	Subject	Link	Year	Operation
16	PHARMASUG	NKC-PRG	AP034: From %Let to %Local; Methods, Use, and Scope of Macro Variables in SAS Programming		2021	
17	PHARMASUG	NKC-PRG	AP053: A SAS Macro to Generate Slim Version of Define for RTOR		2021	
18	PHARMASUG	NKC-PRG	AP066: Dynamic macro using the convergence dataset to generate the Odds Ratio (OR), Risk Ratio (RR) and Risk Difference (RD) per SOC/PT using Genmod procedure		2021	
19	PHARMASUG	NKC-PRG	AP117: Under the Hood: The Mechanics of Various SQL Query Optimization Techniques		2021	
20	PHARMASUG	NKC-PRG	AP120: Programming Time Varying Concomitant Medication Covariates in NONMEM PopPK Dataset		2021	
21	PHARMASUG	NKC-PRG	AP207: GCIG Criteria, Programming Makes It Easy		2021	
22	PHUSE-US	NKC-PRG	AS03: Parmsurv: An SAS Macro for Flexible Parametric Survival Analysis with Long-term Predictions		2021	
23	PHUSE-US	NKC-PRG	AS06: Dynamic Macro Using the Convergence Dataset to Generate the Odds Ratio (OR), Risk Ratio (RR) and Risk Difference (RD) per SOC and PT Using the Genmod Procedure		2021	
24	PHARMASUG	NKC-PRG	Best PaperAD179: Macro to Compare Titles and Footnotes in Produced TLF and Corresponding Shells		2021	

Innovation cases sharing

- Apps for NMPA submission: Define translator

Innovation cases sharing

- Apps for NMPA submission: NMPA toolkits

#	名称	英文	中文	状态	添加时间
1	FAAE	Findings About Adverse Events	不良事件相关发现	LOCKED	2021-08-10T14-15-53
2	FAZT	Findings About Antineoplastic Therapies	抗肿瘤治疗相关发现	LOCKED	2021-08-10T14-15-53
3	FACE	Findings About Clinical Events	临床事件相关发现	LOCKED	2021-08-10T14-15-53
4	FACM	Findings About Concomitant Medications	既往与合并用药相关发现	LOCKED	2021-08-10T14-15-53
5	FACM	Findings About Concomitant Meds	既往与合并用药相关发现	LOCKED	2021-08-10T14-15-53
6	FAZD	Findings About Death	死亡相关发现	LOCKED	2021-08-10T14-15-53
7	FAZH	Findings About Hospitalization	住院相关发现	LOCKED	2021-08-10T14-15-53
8	ADFAMH	Findings About Medical History	病史相关发现分析数据集	LOCKED	2021-08-10T14-15-53
9	FAMH	Findings About Medical History	病史相关发现	LOCKED	2021-08-10T14-15-53
10	FAZU	Findings About Procedures	诊疗操作相关发现	LOCKED	2021-08-10T14-15-53

Future Application

- Everyone has pain points
- Everyone can develop
- Everyone can benefit

Future Application

- Applications
  - aCRF annotations and toc automation
  - sdrg/adrg automation
  - SDTM automation
  - Everything to enhance efficiency

Thank you!

Q & A

The Global Healthcare Data Science Community

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