

2023
CHINA
INTERCHANGE
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It's easy peasy submitting data to the NMPA, really?



Meet the Speaker

Chenkai Lv

Title: Data Scientist

Organization: Roche

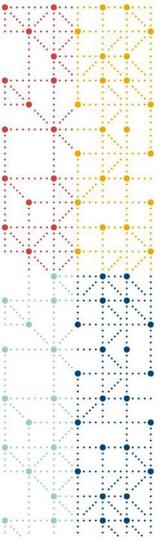
Chenkai Lv is a data scientist in Roche PD Data Sciences function and has been working in Pharmaceutical Industry for over four years. He mainly works in oncology and contributes to several studies in solid tumor and hematology areas. He has experience in both global filing and China filing and is also a member of the eSub global team acting as the China Filing point of contact at Roche. Besides, he also contributes to some next-generation tools projects like R End-to-End packages development and eSub package translation pipeline set-up.

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Agenda

- 1. China Filing evolution and preparation
- 2. China Filing new topic: Translation
- 3. Early planning and smooth delivery
- 4. Discussion: eSub For Future in China
- 5. Key Takeaways



China Filing evolution and preparation

Old China (e)Sub Requirement

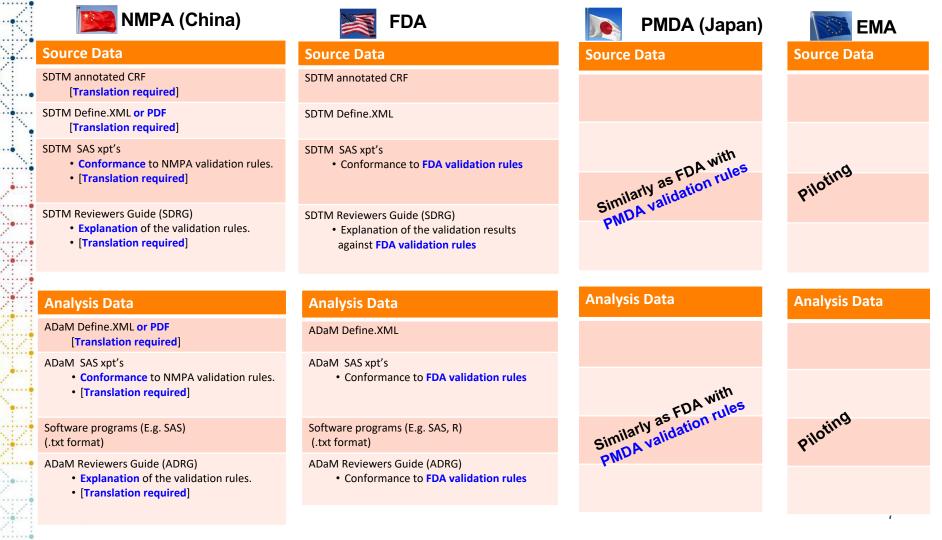
New guidance, Effective 1-Oct,2020

- Rawdata Spec X
- No Translation Requirement
 - Rawdata SAS xpt's X
- No Translation Requirement
 - Analysis data Spec X
- No Translation Requirement
 - Analysis data SAS xpt's X
- No Translation Requirement
 - SAS programs X
- (occasionally requested by CDE reviewers)
- No Translation Requirement

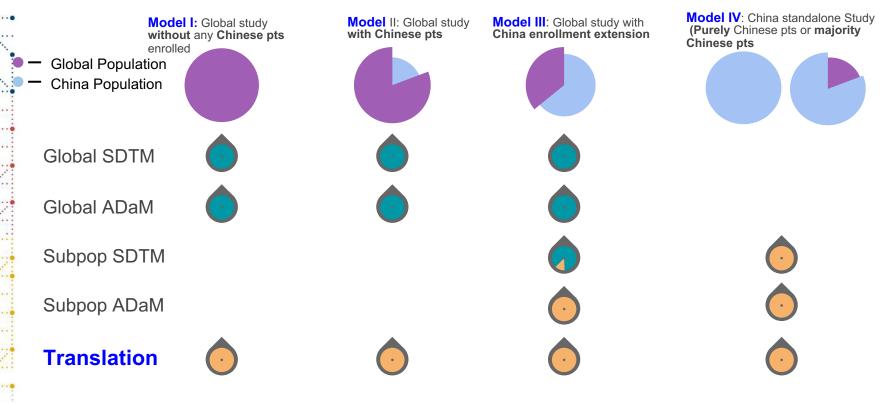
- ✓ Protocol
- ✓ eSub annotated CRF
 - Translate all except for Var name
- ✓ SDTM Define
 - Translate all except for Var name
- ✓ SDTM SAS xpt's
 - Translate Var & dataset label & MedDRA + WHODrug/GNE coding
- ✓ SDTM Reviewers Guide pdf (SDRG)
 - Translate all except for Var name
- ✓ ADaM Define
 - Translate all except for Var name
- ✓ ADaM SAS xpt's
 - Translate Var & dataset label & MedDRA + WHODrug/Legacy GNE or Roche coding List
- ✓ SAS programs
 - No explicit requirement for translating SAS or R programming comments
- √ ADaM Reviewers Guide pdf (ADRG)
 - Translate all except for Var name

NOTE: CDISC is not mandatory but recommended





Global & Local Teams Support for China Filings eSub Package preparation and Translation process

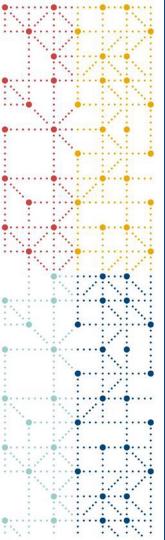




Responsibility

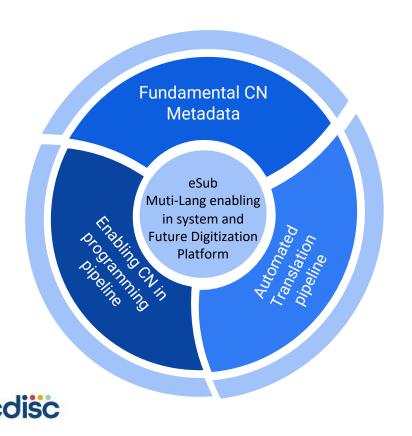






China Filing new topic: Translation

eSub Data package Translation Solution

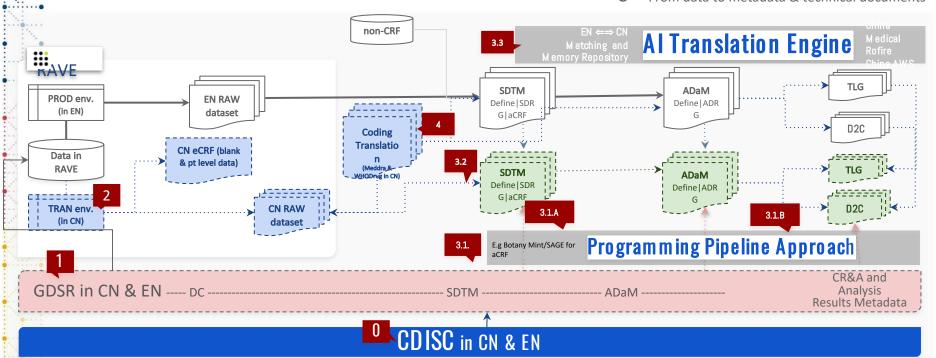


Fundamental metadata available

- Tools support
- Platform availability

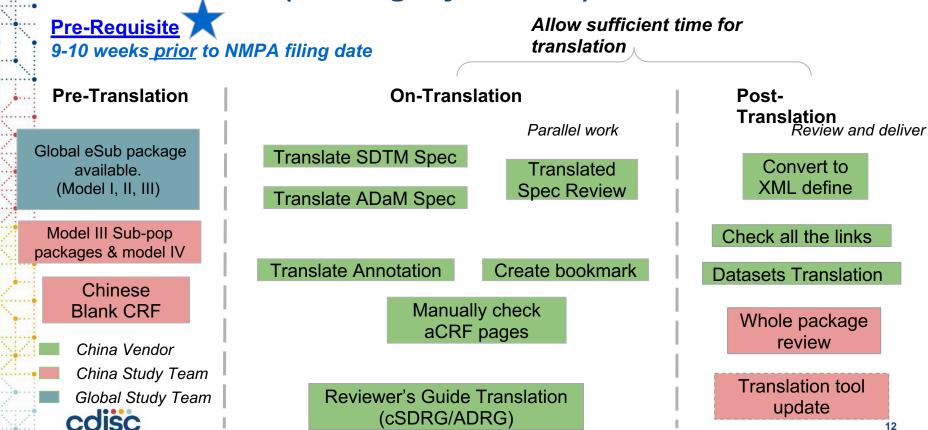
E2E Implementation

From data collection to analysis resultsFrom data to metadata & technical documents





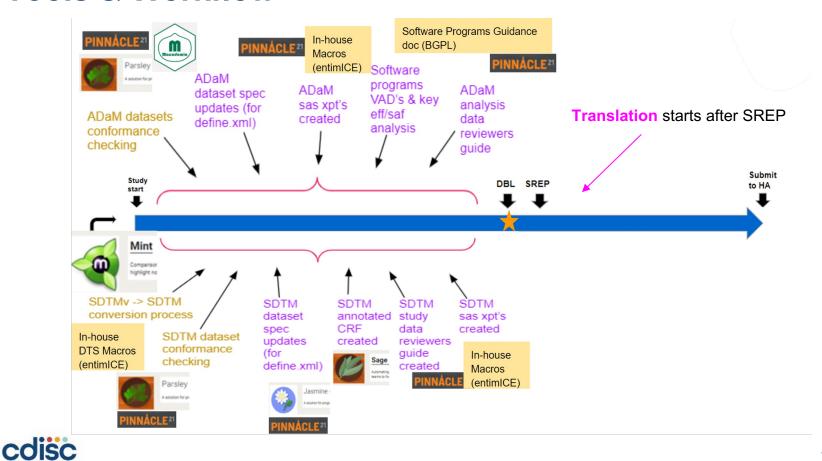
Detailed Preparation & Responsibilities for translation of CDISC studies (not Legacy studies)





Early planning and smooth delivery

Tools & Workflow



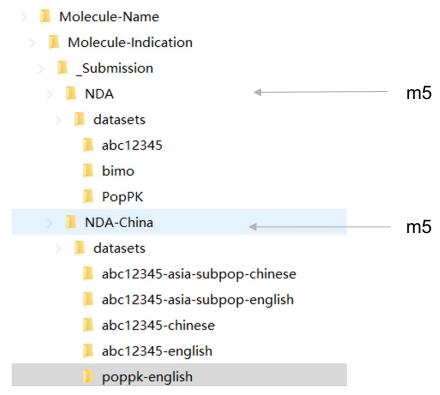
China Filing Data Collection Sheet (DCS) template





eSub package delivery Closely collaborate with Regulatory team

- Paper submission
 - Data scientist prepare data package and upload to shared server
 - Regulatory burn disc and submit to HA
- eCTD submission
 - Data scientist prepare data package
 - Work with Regulatory to pass checks
 - Upload to server and share the path with Regulatory
 - Regulatory package all the things and submit to HA







Discussion: eSub For Future in China

eCTD & One size fits all

eCTD: Different requirements from FDA

- File types: only accept pdf/txt/xpt/xml/xsl, Not .csv (PopPK has csv files)
- Folder structure:
 - No folders for bilingual submissions
 - No "misc" folder in current eCTD folder structure (not official solutions)
- Datasets no larger than 4GB (Different from FDA)
- PDF settings (ADRG, cSDRG, Programtoc, aCRF) in translated packages different to FDA requirements

One Size fits all

Align requirements across HAs



R submission

Current status - what can / cannot be submitted

Submission of:	FDA	PMDA	NMPA	Comment
Readable R code accepted ?	Y	Y	Y?	Upon prior agreement with the HA. Follow R consortium's (link) "Pilot R submission to the FDA" approach and influence other HA's to align if needed
Interactive displays accepted ?	Unknown	Unknown	Unknown	NOTE: Pilots are ongoing with the FDA and the R consortium (see pilot 2 from above link)

Submission of:	Can Roche currently submit these ?	Comment
Readable R code for TLG's	Y	Developed in validated programming environment
Readable R code for Datasets	Υ	Developed in validated programming environment
Interactive displays	N	Awaiting outcome from R consortium pilot and a validated solution

Key takeaways

- CDISC data standards is mandated by the FDA and PMDA. For CDE the draft guidances also follow the CDISC standards.
- Four different China filing study models with different preparation work
- Important to start early interactions between China and global team
- Chinese metadata and E2E translation engine accelerates delivery
- Closely collaborate with Regulatory when delivering eSub package
- Be careful about the differences of eCTD filing requirements
- Collaborate in industry and CDE on R (program) submission for future





Thank You!



Open Source Clinical Reporting summeR



The main focus of this workshop is: open-source & collaboration in Pharma, sharing experience in using open-sourced R packages (such as Admiral and NEST packages) for

- SDTM mapping
- ADAM data creation
- TLG creation

https://insightsengineering.github.io/nest-2023-summeR/reg.html

