



Real-time Clinical Trial Data Analysis

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Real-time Clinical Trial Data Analysis

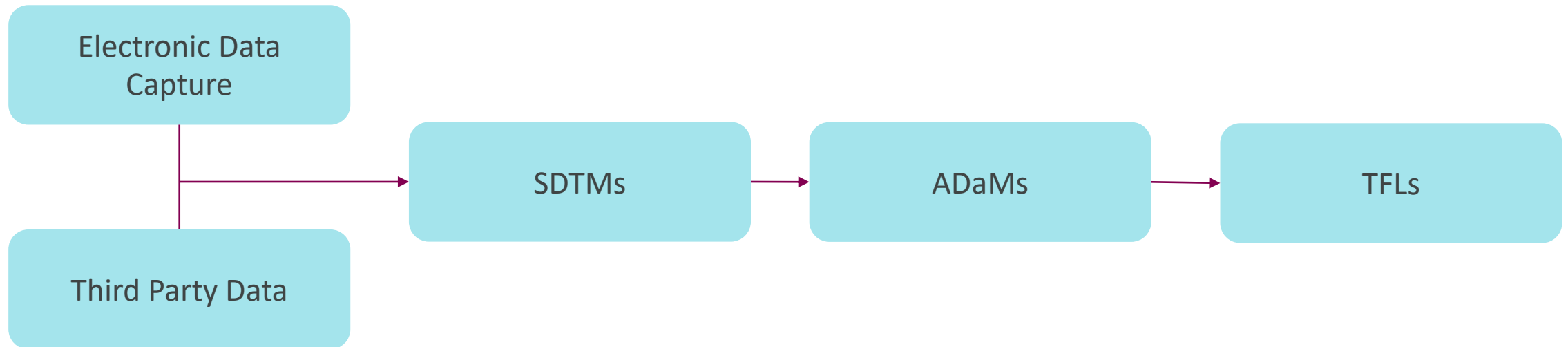
Agenda

- Current state
- Evolving needs
- Future State
- Application Demo



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Current State



- Time intensive and staggered process
- Can take weeks to months of preparation time to deliver outputs
- Manual verification of dependencies
- Batch processing



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Evolving Needs

- Accelerated drug development
- Quicker and deeper insights on trial data
- New data sources:
 - Wearables
 - Telemedicine
 - Mobile Health
- Stream processing



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Future State

- Data pipeline to consume different sources of data
- Real-time analysis of clinical trial data
- Proactive information exchange to enable quick decision making
- Be submission ready all the time



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Application Details

- Clinical trial data simulator
- Mimics digital device data streaming functionality
- Includes enrollment, exposure, vitals, labs and AE data
- Instantaneous conversion on streaming data to SDTM, ADaM and TFLs
- Downloaded reports
- Tools used – R/Shiny



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Demo



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Thank you!



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