



Society for Clinical Data Management
DATA DRIVEN

Theme:
Capabilities | Collaboration |
Change on the way to Clinical Data Science

SCDM **Live**

India conference

2nd - 3rd December 2022
Radisson Blu Hotel, Bengaluru

Topic: **Fundamentals of Clinical Data Science and it's applications in clinical trials**

Presenter:

Priyadharshini Lobow, Senior Director, Data and Analytics
Eli Lilly

Disclaimer

- The opinions expressed in this presentation and on the following slides are solely based on my own and the co-presenter's own capacity and intellect. All the views, data, and opinions does not reflect the view of my organization "Company Name".

What is Clinical Data Science?



What : Data driven clinical research approach to generate insights from data.

Why: Changing landscape of clinical research

How: Emerging technology, competencies and processes

When: Its happening now!!!

Where : Every aspect of clinical research

Application of CDS in clinical trials

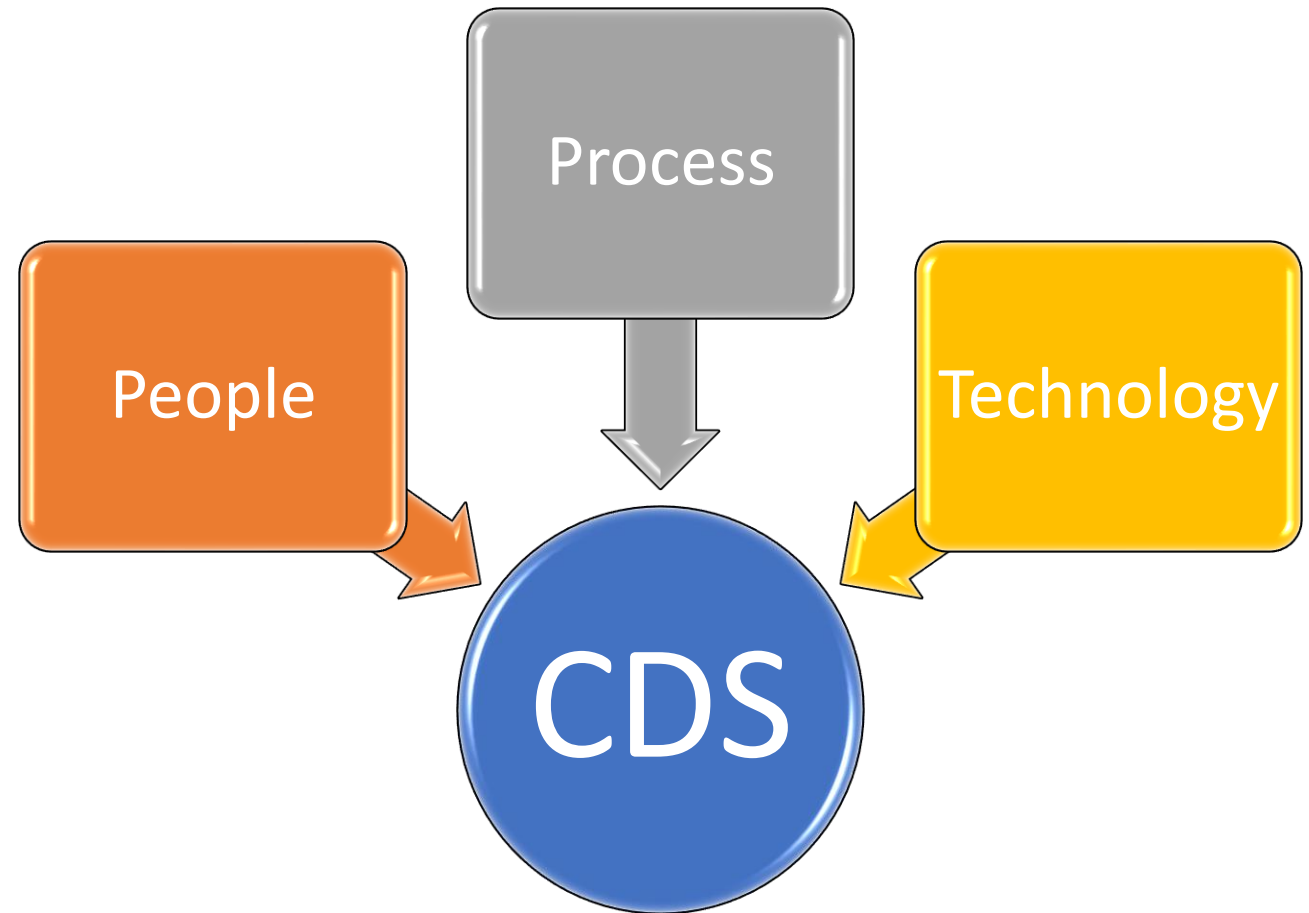
- Increasing complexity of clinical trials (Adaptive design, Master protocols, Synthetic Control Arm®)
- Decentralized clinical trials(DCT) and emergence of direct data capture
- Automation of CDM activities (RPA, ML, AI, NLP)



Reference: SCDM position paper "How to create a Clinical Data Science Organization"

CDS: What does it take?

- People – Critical thinking, Strong CDM foundations, , Collaboration skills, analytical skills
- Process : Cross functional collaboration, Quality by design, Risk based CDM
- Technology : R, Python, AI, ML, NLP, Data visualization





Thank You
Any Questions?



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Introduction to Power BI

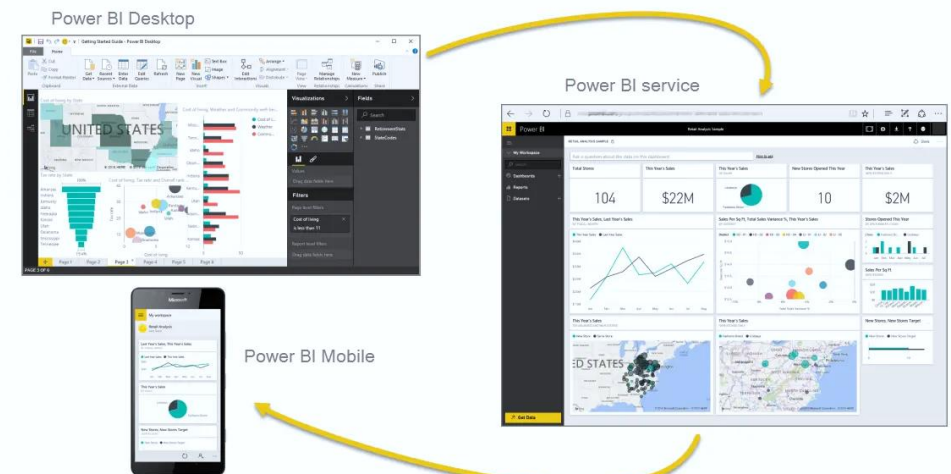
Microsoft Power BI is a collection of software services, applications and connectors that works with data from a variety of data sources to:

Transform data into stunning visuals

Visually explore and analyze data on internal storage and in the cloud, all in one view

Collaborate on and share customized dashboards and interactive reports

Scale across your organization with built-in governance and security



Why Power BI

Power BI is user-friendly data visualization tool that allows its users to easily analyze data and make important business decisions based on it.

The building blocks of Power BI are:

- Visualizations
- Datasets
- Reports
- Dashboards
- Tiles

Advantages of Power BI:

- Connect to data
- Transform and model the data
- Create charts and graphs
- Create reports and dashboards that are collections of visuals
- Share reports with others using the Power BI service

Power BI for the Industry and Users

Power BI helps the internal teams understand:

- What data is needed for analysis
- How to use the existing data effectively
- What kind of pre-requisites for data visualizations are required
- What data sources are needed for each of the tabs (Report, Data and Model)
- What filters are needed to drill down the data
- How often updates are needed
- Who will need access to perform visualizations

With Power BI, the sponsor can easily:

- ✓ View existing and new data
- ✓ Filter data down to patient and cohort levels
- ✓ Reduced time spent generating reports
- ✓ Increase the quality and accuracy of the reports
- ✓ Reduce the operational cost
- ✓ Make decisions based on the results

Thank You.....
.....Questions?





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Topic: Overview of Data for Building Visualizations using Power BI

Presenter: C.S. Mujeebuddin
Founder and CEO
ClinoSol Research Private Limited

Overview of Data for Building Visualizations



Learning Outcome

By the end of this workshop, we expect you to gain an insight about

1. Understanding what data will be captured during the clinical trials
2. What tools we use for data visualization
3. How data can be modelled into visuals
4. Proof of your ability to analyze, summaries, visualize, and report on insights extracted from a dataset.
5. A certificate from SCDM as a validation of your data analysis skills and knowledge gained during the live workshop.

Vote of Thanks

- SCDM India Annual Conference Chairs
- SCDM Steering Committee
- MCI
- Student Delegates and Supporting Institutions
- Corporate Sponsors
- All the Facilitators of Academic Workshop



Thank You.....
.....Questions?

