



Navigating Technological Advancements and Evolving Roles in the Pharmaceutical Industry

Theme: Emerging Trends & Technologies (ET09)

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Career Journey & Leadership Roles

- Over 20 years of industry experience
- Master's degree in Computer Science
- Experience in both CRO and Pharma/Biotech sectors
- Led filings for complex molecules across various therapeutic areas
- Skilled in technical leadership
- People Manager



People and Product Leader
PD Data Sciences
Roche/Genentech

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Why We Must Evolve



Technologies



Regulations



Competition



Why We Must Evolve

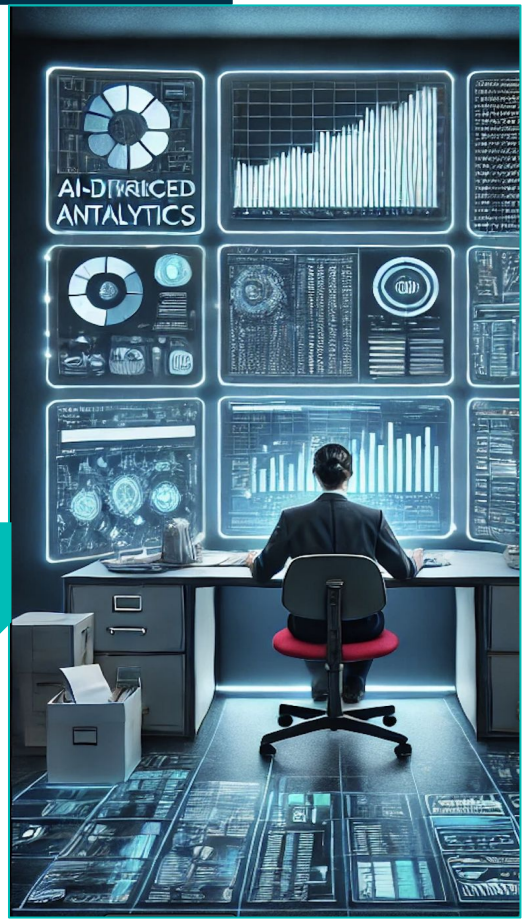


Traditional

SAS-Based Coding & Static
Outputs

Platform-independent, Data
Visualizations, Automated Code
Generation, Open-Source
Solutions, and More...

Future



Why We Must Evolve



Traditional

Manual Data Cleaning, and
Manually Raised Queries

AI-driven data processing will
streamline data wrangling,
minimizing human effort while
enhancing accuracy and
efficiency

Future



Why We Must Evolve



Traditional

Data is gathered and analyzed at predetermined intervals

Cloud computing and real-time analytics will support adaptive trial designs and Real-World Evidence, enabling data-driven decision-making

Future



Why We Must Evolve



Traditional

Statistical models depend on established algorithms and hypotheses formulated by humans for testing

AI will improve model selection, pattern recognition, and predictive analytics, leading to better trial designs and more accurate predictions of patient outcomes

Future



Why We Must Evolve



Traditional

Comprehensive manual documentation and compliance reviews for regulatory submissions, collaborating across different functions

Content writing and management conducted by more efficient teams leveraging automated content capabilities

Future



Why We Must Evolve



Traditional

Data submissions are limited to a select few health authorities

More health authorities, such as the EMA, are showing increased interest in data submissions

Future



Why We Must Evolve



Traditional

Submissions are made six months or later following the Database Lock (DBL)

12 week submissions, along with supporting RTOR, ORBIS etc.

Future



Future-Ready: The Framework for Success



myMINDSET



myBEHAVIORS



myIMPACT



myROLE





Awareness



Adaptable





Alignment



Agility





Advancement



Accord





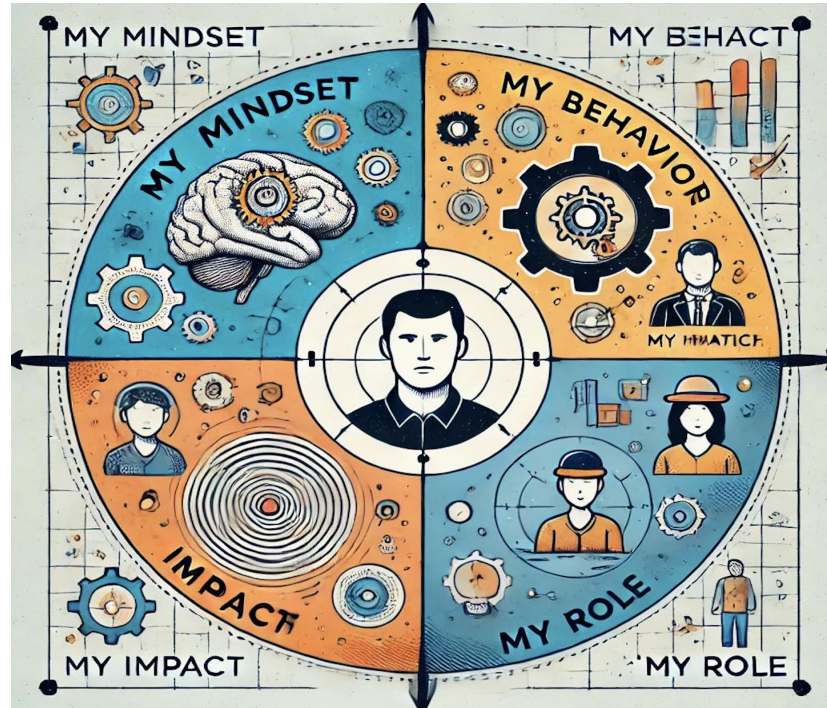
Versatility



Growth



Future-Ready: The Framework for Success



Thank you!

Acknowledgements

- Roche Leadership Framework