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Human and Machine Collaboration – The Future of Medical and Commercial Engagement in Life Sciences

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- Reimagining Medical Engagement
- Putting the Human in Human and Machine Collaboration

Executive Summary

The future of work involves human and machine collaboration. Companies such as Facebook, Netflix, Spotify, Google, Amazon, TikTok, etc. are leveraging AI to enable new modes of engagement, create new experiences, and change the way content is consumed. Life Sciences companies need to account for this new norm and reimagine how they engage with key constituents maintaining ethical standards. Three factors are driving the need to reimagine Medical and Commercial engagement.



REIMAGINING ENGAGEMENT FOR THE LIFE SCIENCES



Al-enabled capabilities that create a personalized set of recommended content which is tailored to the expectations, needs, habits, and interests of the user



The platform not only **algorithmically anticipates** the information Patients, HCPs, KOLs, and DOLs* desire, but it also **nudges users to explore options and content** that might never have crossed their minds

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*Digital Opinion Leader

Why Now? The Life Sciences is an Industry in Transition

Innovation in both digital technology and the biological sciences is advancing at a rapid pace further accelerated by the pandemic. Life Sciences companies need to explain and contextualize the ever-increasingly complex medical science to a diverse range of stakeholders – physicians, patients, and payers. The Medical and Commercial groups are at the leading edge of this transformation.



Why Now?

Customer Engagement is Ripe For Transformation



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Why Now?

AI-Enabled Engagement

What happens in a world where the digital device in your hand instantly and reliably provides better advice than your most trusted and esteemed colleagues?

DEEP LEARNING MODELS AID PEOPLE ALONG FOUR KEY DIMENSIONS



DECISION

They help users *decide* what they could or should do next



EXPLORATION

They help users *explore* a variety of contextually relevant options



COMPARISON

They help users *compare* those relevant options



DISCOVERY

They help users *discover* options and opportunities they might not have imagined themselves



Why Now? User Experience

Expectations associated with digital engagement have been shaped by our daily interactions with technologies such as Facebook, TikTok, Instagram, Twitter, Google, Amazon, Netflix, and Spotify.

Life Sciences companies need to adopt more personalized and tailored modes of engagement to meet the expectations of patients and medical professionals.

These new modes of engagement will become the de-facto standard in the not-too-distant future.





Why Now? Human-Like Format

Whether using voice assistants, chatbots, virtual agents, or smart speakers, bots are becoming an integral part of our daily lives.

The next wave of experience-oriented artificial intelligence such as augmented and virtual reality, computer vision, and autonomous edge devices will enable new capabilities and modes of engagement.

Embedded into these new user interfaces are the analytics, insights, and intelligence to create more individualized, contextual, and valuable interactions.





Reimagining Medical and Commercial Engagement

INTERNAL AND EXTERNAL DATA

Product Ex: RWD, RWE, Clinical Trials, Therapeutic info **Programs** Ex: Patient Services, KOL & HCP Engagement **Social Media** Ex: Twitter, Facebook, Blogs, LinkedIn **Events and Publications** Ex: Ad Boards, Conferences. medRxiv, bioRxiv

AI + HUMAN COLLABORATION



Targeted Content Improved overall engagement effectiveness



Novel Insights

Newer information with collaborated output from internal and external data integration

Quicker and easier to access

Faster access anywhere, to relevant information such as Product details, clinical trial updates, patient services enhancements.

Avoid Data overload

Curated data reducing information overload



Continuous Improvement

Backed by AI algorithms, it will keep on improving and adapting based on more source data and consumption.



Customizable

Potential to customize with integration of additional data sources specific to clients.



The AI platform has multi-dimensional capabilities that can be deployed to augment existing capabilities and transform external engagement

REIMAGINE MEDICAL ENGAGEMENT

Leverage the Al's capabilities to fundamentally transform how the external Medical and Commercial communities' access and consume content

AUGMENT EXISTING CAPABILITIES

The AI enables the Medical Affairs and Commercial teams to extract meaningful insights from ever-increasing disparate data sources. These insights are key to more effective engagement and interactions across the ecosystem

EXTEND ACROSS THE ECOSYSTEM

Extend the platform to include the patient community. The focus of this engagement model is less scientific in nature and more around the attributes which are meaningful to the patient community



Managing the Human Aspect of Human and Machine Collaboration

Critical Success Factors to Transform How People Work with Machines 92% Know What's Expected **Clear Expectations** Factors Skills & Tools Effectively Do Their Job Outcomes Of failed **Critical Success** transformations are due to "people **Rewards & Consequences** Incentives/Disincentives problems" Motivation and Persistence Supportive Environment

FACTORS TO TRANSFORM THAT ENABLE EVOLUTION

Culture

Changing the mindset, priorities, and ways of working in support of AI automation



Organization

Modeling your future workforce structure, processes and people in support of the AI automation strategy



Skills

Identify the skills required to transition the workforce



Knowledge Graphs are a Key Component



Able to handle huge volumes of data easily **Flexibility** to support different formats such as Pictures, Videos, etc. Extremely fast connections resulting into speedy performance



Future proof to work with advances in Analytics, AI, IoT, etc. ÷

Proven track record as successfully used by reputed solutions such as Facebook, Twitter, NASA and more





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