

# Why AI Can't Replace Humans In Environmental Compliance

By

(June 8, 2021)

All eyes are on the European Union's recently proposed rules for regulating artificial intelligence. On April 21, the EU took a bold step to establish its leadership position in setting strict new global norms to regulate AI. Governmental authorities in the U.S. are also considering the need to regulate the risks posed by AI.

Notwithstanding future regulatory constraints on AI, it is certainly a transformative force that is only growing in scale. Indeed, there is a spirited and growing debate within the environmental and safety community over whether the further advancement of AI and other technologies will eventually usurp the role of individuals in compliance assurance.

In other words, will the logical extension of AI in the environmental and safety area lead to the eventual extinction of human involvement in organizations' compliance assurance programs? This question is particularly important now, given the growing emphasis on environmental, social and governance factors and performance at the highest levels of organizations.

Compelling arguments suggest that the answer to this question is, resoundingly, no — humans are here to stay when it comes to sound environmental and safety compliance.

Like it or not, h

A classic example of where AI tools can be used in the environmental area is in data compilation and analysis in meeting Clean Air Act Title V operating permits, or satisfying complex air emission limits and other requirements under Clean Air Act consent decrees. AI systems have the ability to analyze massive datasets, discovering patterns, finding anomalies and presenting this information for various uses and applications.

Another example is in the area of governmental enforcement or private party litigation regarding environmental compliance or safety matters. AI can be invaluable in searching and organizing troves of relevant documents that are critical to a case, which otherwise would take endless hours for in-house counsel and outside lawyers.

Based upon advancements such as these in the environmental area, some believe that the opportunity to replace human individuals altogether is the logical culmination of further progress in this area. Some have stated that this is indeed one of the goals of further AI development — that humans will no longer be needed as part of an organization's environmental and compliance assurance program.

Behind this notion is presumably the belief that replacing humans will lead to impressive efficiencies and cost savings. But this is where the praise for AI and other technology improvements arguably begins to lose credibility.

Yes, recent technology improvements are noteworthy, and hopefully will continue to advance. But this is all a far cry from a demonstration that human experience, expertise and accountability will be replaced altogether in the environmental compliance field.

There are significant limitations when it comes to application of these tools in the compliance arena. Sometimes data can be misleading, or just plain wrong. The human eye may be the necessary gauge to assess whether there is some indication that data is not correct. Such scenarios are not unusual.

And many situations in the compliance field that touch on ethical questions — indeed, some of the toughest ones — involve gray areas, and the need to evaluate numerous factors and criteria, not just a limited dataset. Often, the available information and data points in complex compliance matters can be inconsistent, and even conflicting.

Another important limitation of AI applications is that the algorithms themselves behind the AI can reflect the inherent biases of the individuals who create them. The results, therefore, may also reflect those biases, and humans are needed to assess and ensure those results are sound and defensible. Not surprisingly, under the EU's recently proposed rules, companies must guarantee human oversight in how AI systems are created and used.

Compliance is not just about solving a numeric equation. A corporate culture that expects, if not demands, full compliance with law and ethical standards of behavior is much more than this.

Cultural aspects of compliance, including the "tone from the top" and modeling of right behavior, are critical components of any effective compliance program. Compliance assurance is not just about finding and implementing an engineering fix. The human factors are not only unavoidable, but more importantly, are critical to successful compliance programs.



complementary to other tools for enhanced compliance — not a replacement for the more traditional components of a successful program.

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