



## TOK Title: *Is theory-led or data-led modelling more valid?*

**Theory-led Modeling:** Theory-led modeling starts with established theories or hypotheses about how a system works. It uses existing knowledge and principles to build models. This approach can provide a deeper understanding of underlying mechanisms and relationships. Theory-led models may oversimplify complex realities or miss unexpected patterns that emerge from data. It can also be biased by the assumptions inherent in the underlying theories. Theory-led modeling is often preferred when trying to understand fundamental principles or when the goal is to test specific theoretical predictions.

**Data-led Modeling:** Data-led modeling relies heavily on empirical data to uncover patterns and relationships. This approach can capture complex interactions and unexpected phenomena that may not be accounted for in existing theories. Data-led models can be prone to overfitting—capturing noise in the data rather than genuine patterns. It may also lack interpretability if the relationships discovered are not grounded in theory. Data-led modeling is valuable when the goal is exploratory—discovering patterns or relationships that may not be captured by existing theories—or when the underlying mechanisms are poorly understood.

**Which is More Valid?** The validity of a modeling approach depends on the context and purpose. In some cases, theory-led models are more appropriate because they provide a conceptual framework and can make predictions based on established principles. In other cases, especially in complex, rapidly changing environments, data-led models might be more valid as they can adapt to new patterns and insights. Often, the most robust approach is an integration of both theory-led and data-led modeling. Theory can guide the selection of variables and the formulation of relationships, while data can refine and validate the model, leading to a more comprehensive understanding.

In conclusion, neither theory-led nor data-led modeling is inherently more valid. The choice between them should be guided by the specific goals, available data, complexity of the system, and the stage of scientific understanding in

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