



Definition of an AI system under the AI Act

To be or not to be an AI system



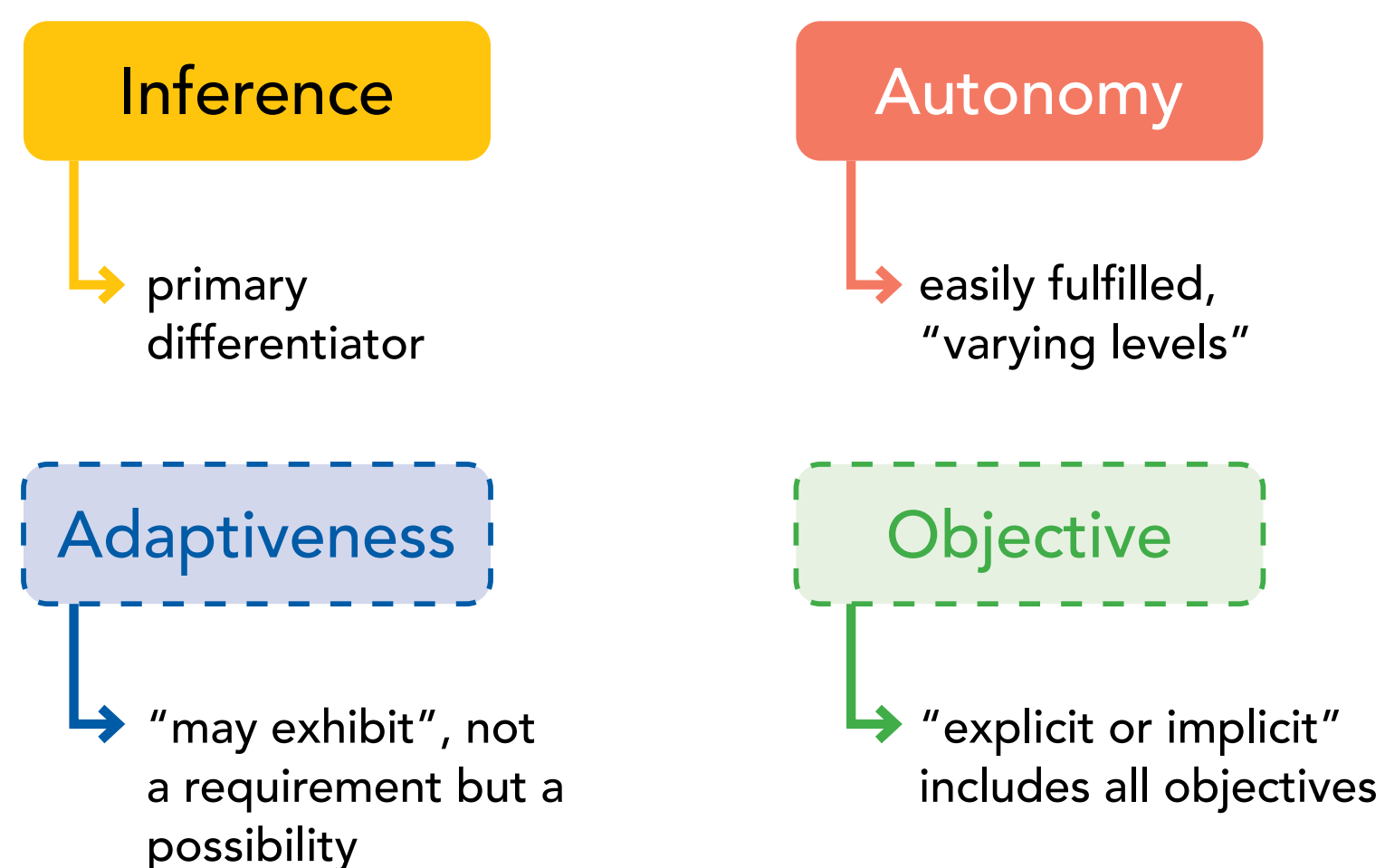
Discover the answer by answering three questions



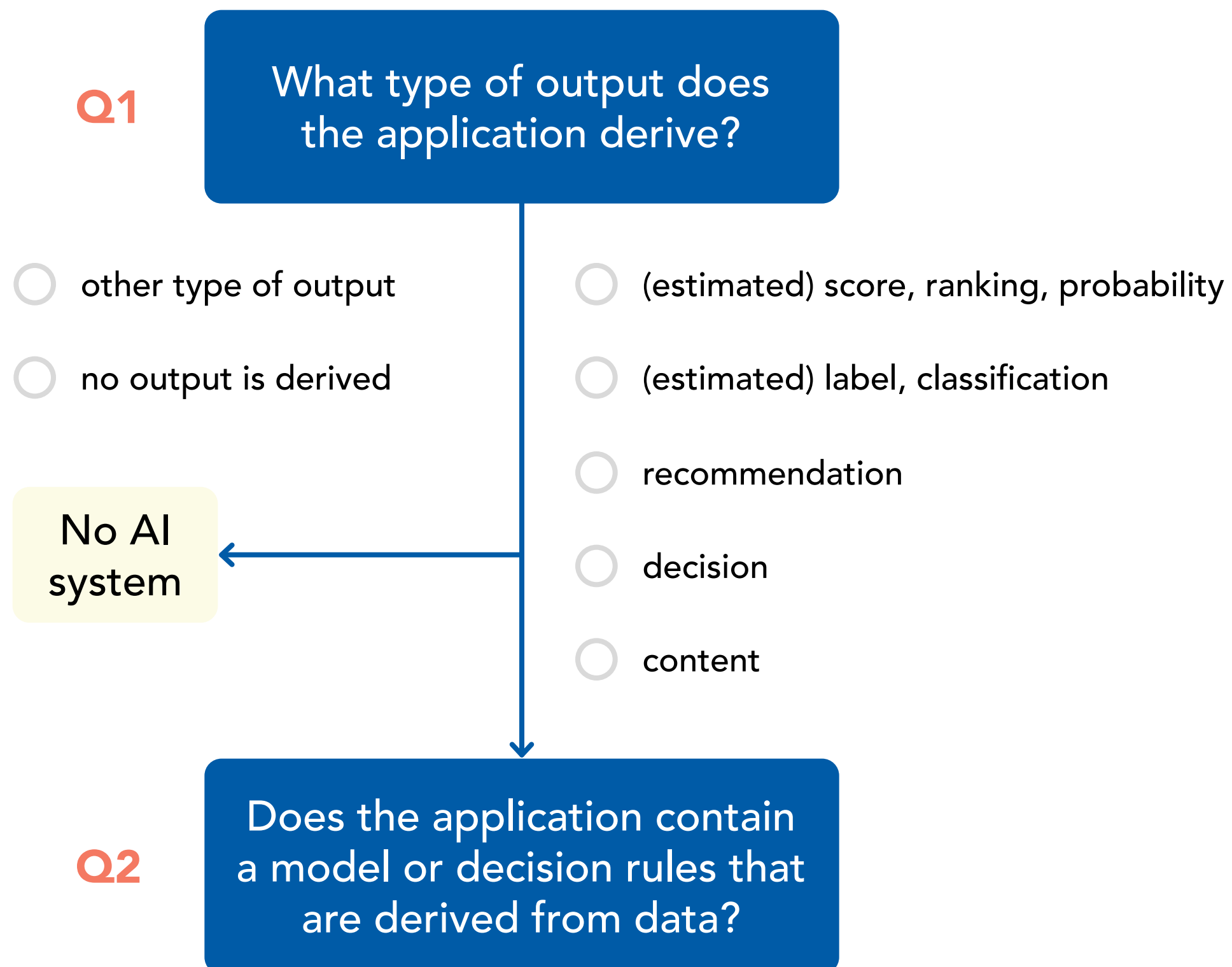
Just two aspects of the AI system definition matter

AI Act Article 3 – AI system definition

(1) 'AI system' means a machine-based system that is designed to operate with varying levels of **autonomy** and that may exhibit **adaptiveness** after deployment, and that, for explicit or implicit **objectives**, **infers**, from the input it receives, how to generate outputs such as predictions, content, recommendations, or decisions that can influence physical or virtual environments.

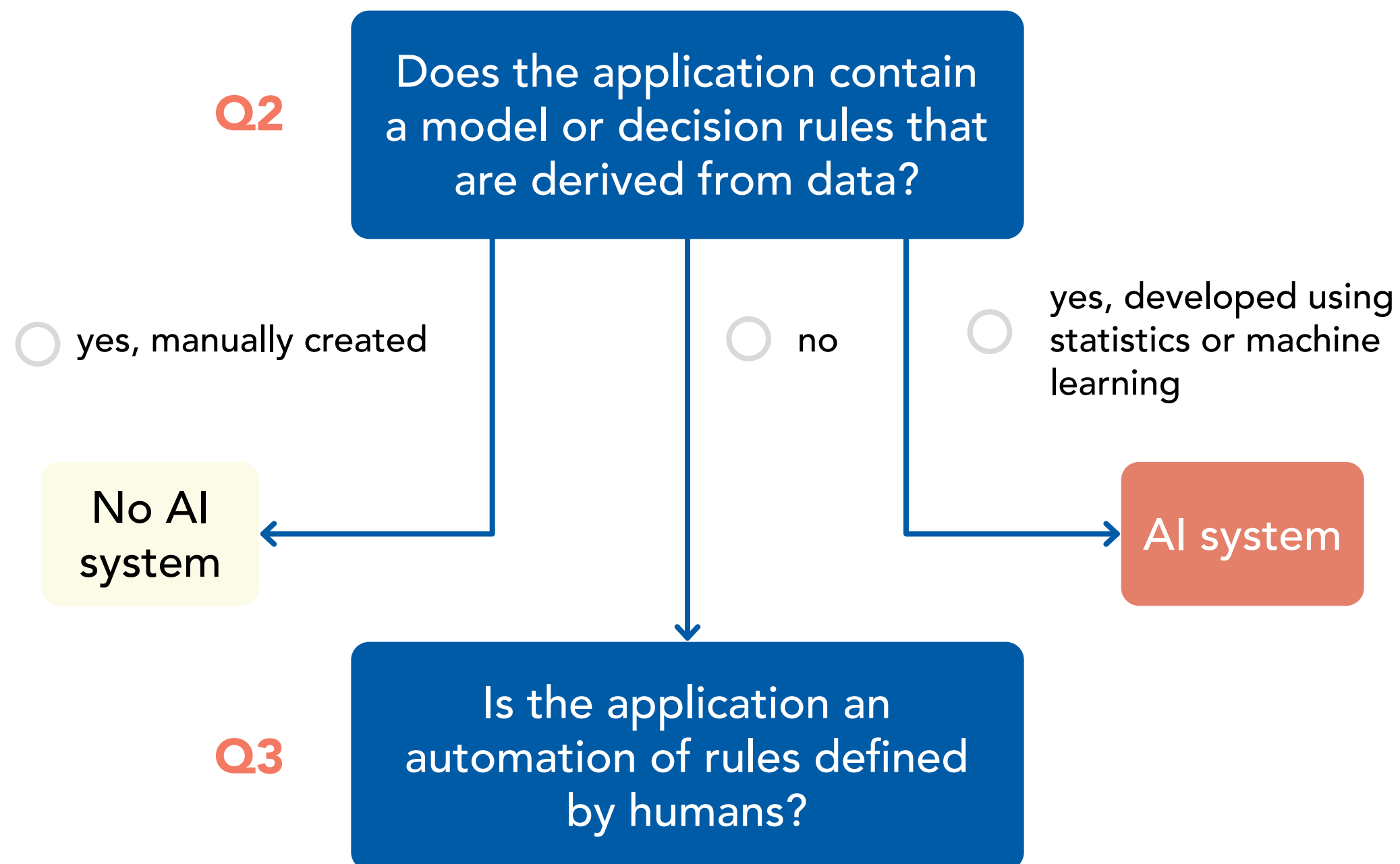


Q1 relates to the outcome of inference



Recital 12 states that inference relates to “the process of obtaining the output such as predictions, content, recommendations, or decisions”. Because ‘prediction’ is a broad term which is not understood by everybody in the same way, we include explanatory terms in the answer options.

Q2 relates to inference of the model or algorithm from data

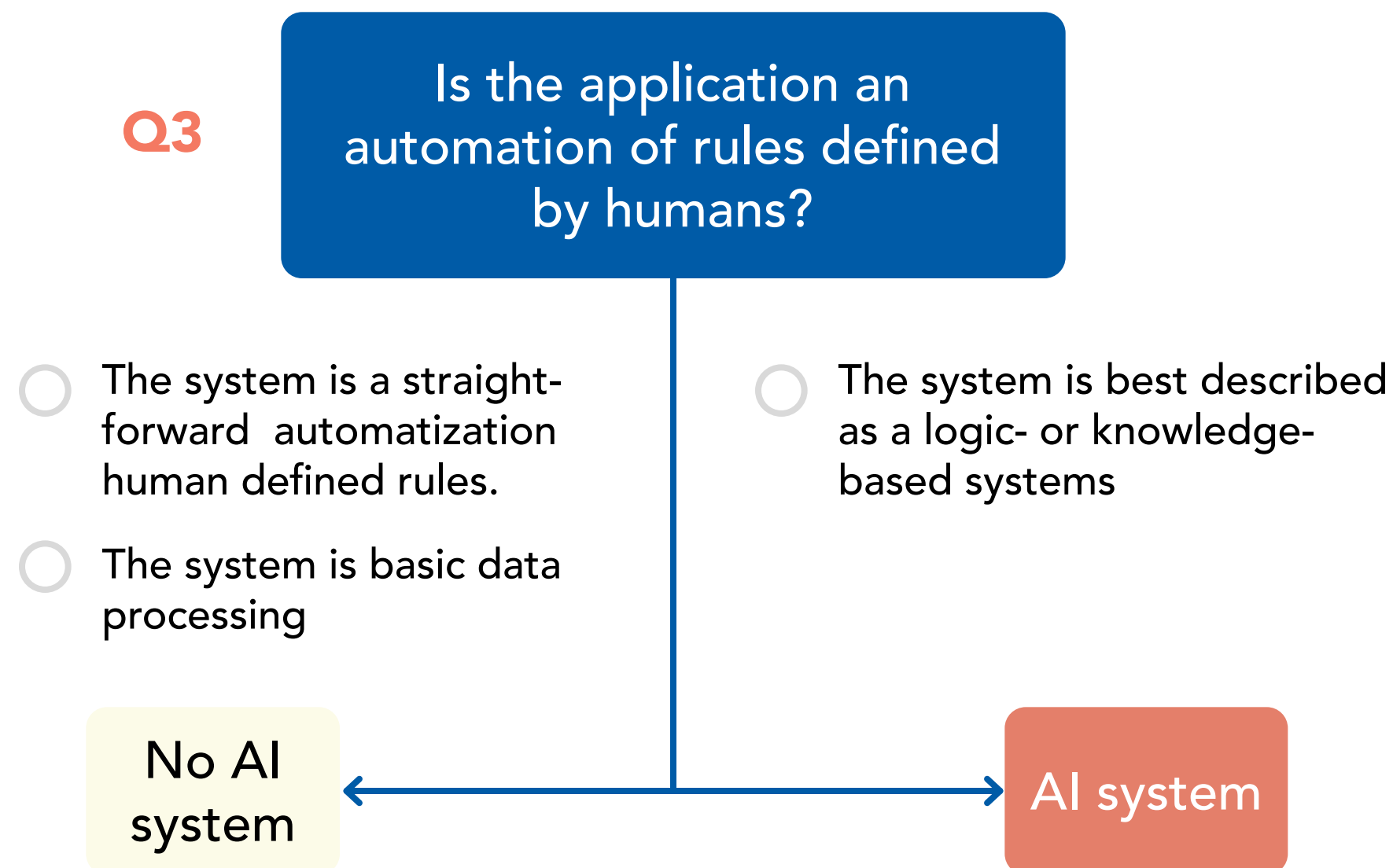


Recital 12 states that inference refers to *"a capability of AI systems to derive models or algorithms, or both, from inputs or data"*. This includes statistical approaches, because in statistical modelling a model is derived from (or: fitted to) data.



In some cases, rule-based algorithms are based on data-analyses, but the rules are selected and defined by humans. This happens for example in financial transaction monitoring. Based on recital 12, Algorithm Audit argues that these systems are not AI systems.

Q3 relates to explicit in- and exclusions in recital 12

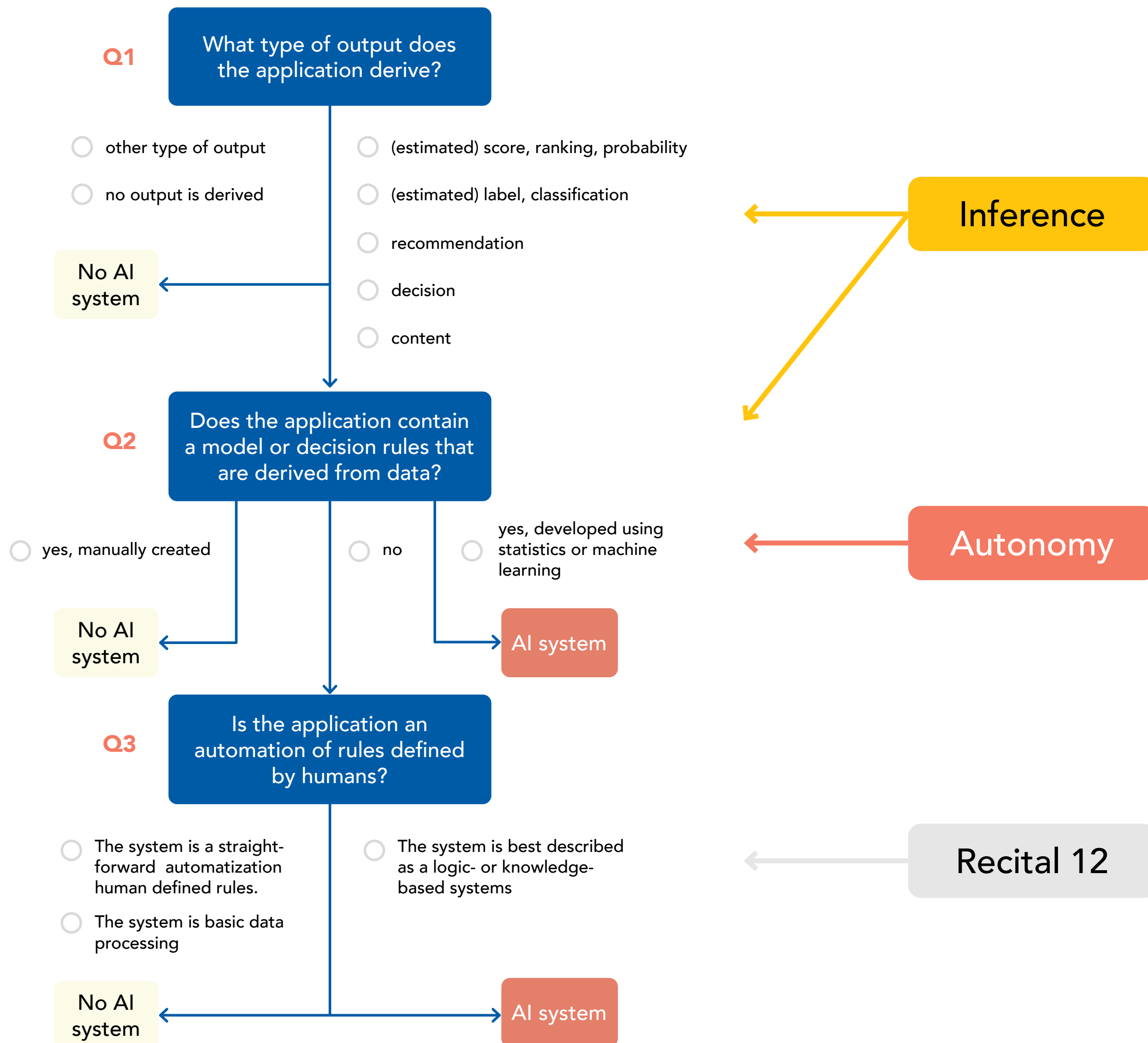


Note that Q1 and Q2 are already answered.



Recital 12 explicitly includes logic- and knowledge-bases systems as AI systems.

In sum: answer 3 questions to identify AI systems



Building *public knowledge*

for *ethical algorithms*

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