

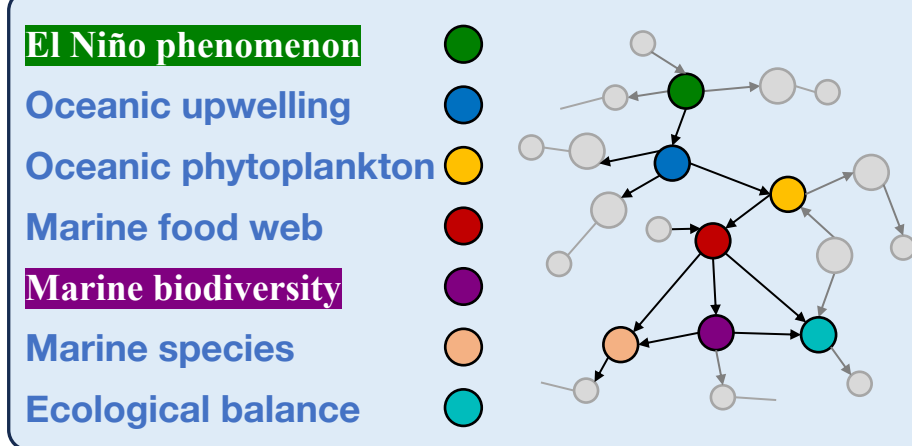
Query:

"How does the **El Niño phenomenon** potentially impact **marine biodiversity**?"

Related entities:

El Niño phenomenon **Marine biodiversity**
Oceanic upwelling **Marine food web**
Oceanic phytoplankton
Marine species **Ecological balance**

Multi-hop relationships:



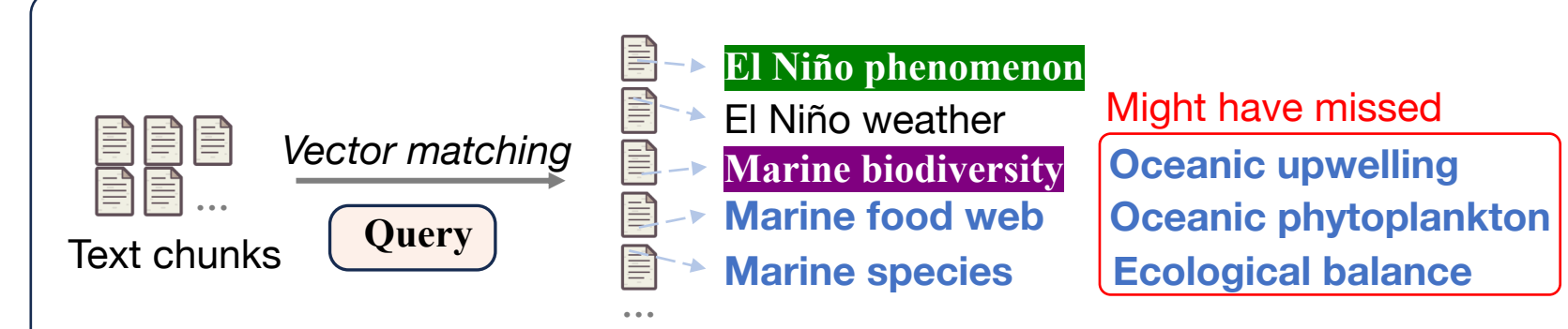
Multi-hop reasoning:

- **El Niño phenomenon** impacts **oceanic upwelling**.
- Changes in **upwelling** affect the levels of **oceanic phytoplankton**.
- **Oceanic phytoplankton** levels influence **marine biodiversity**.

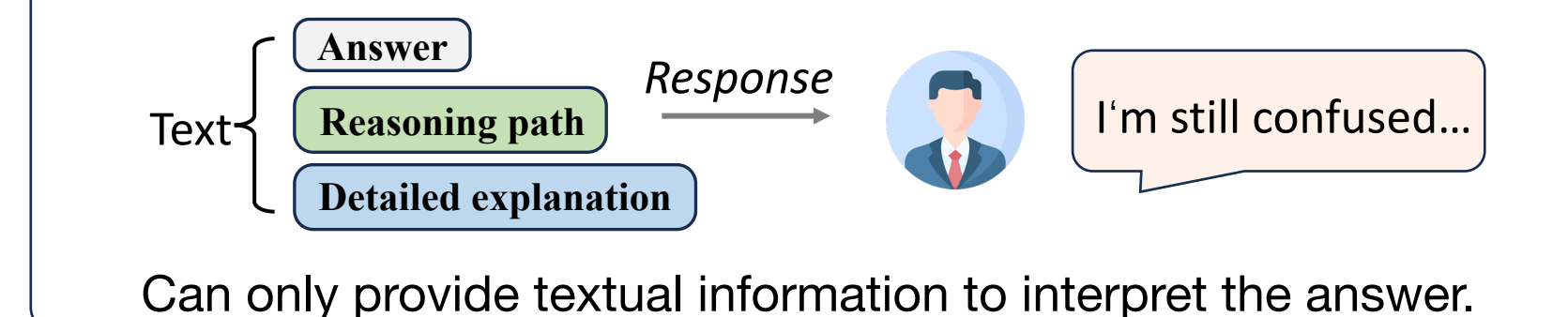
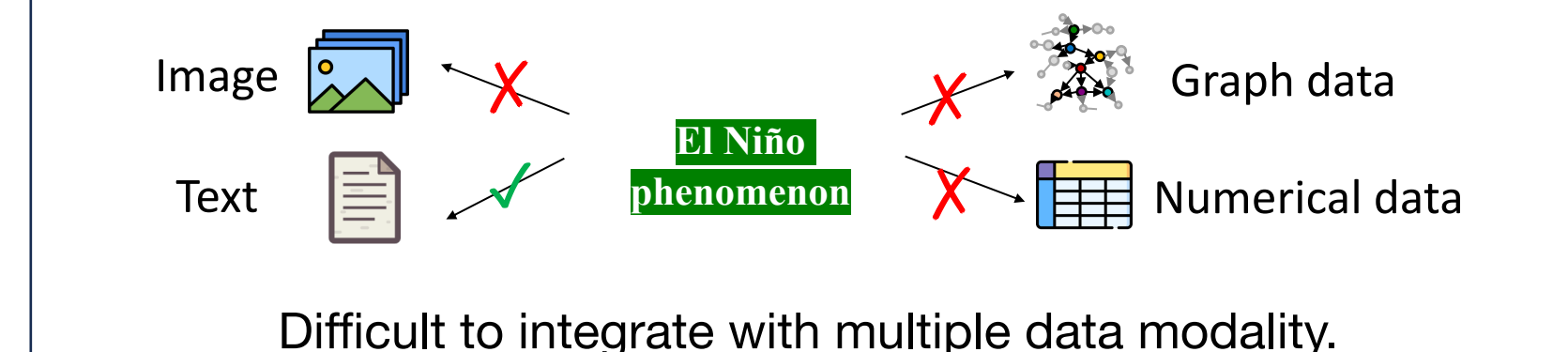
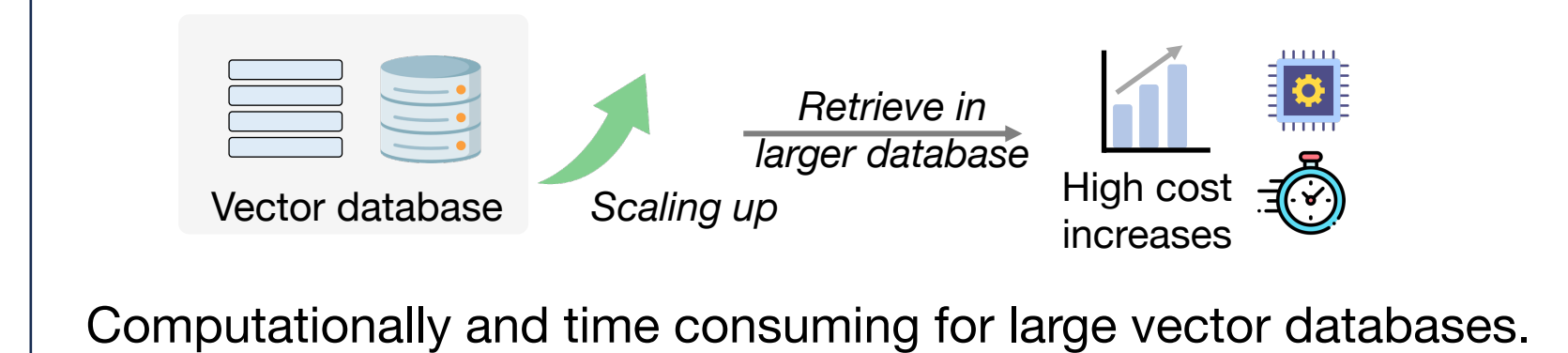
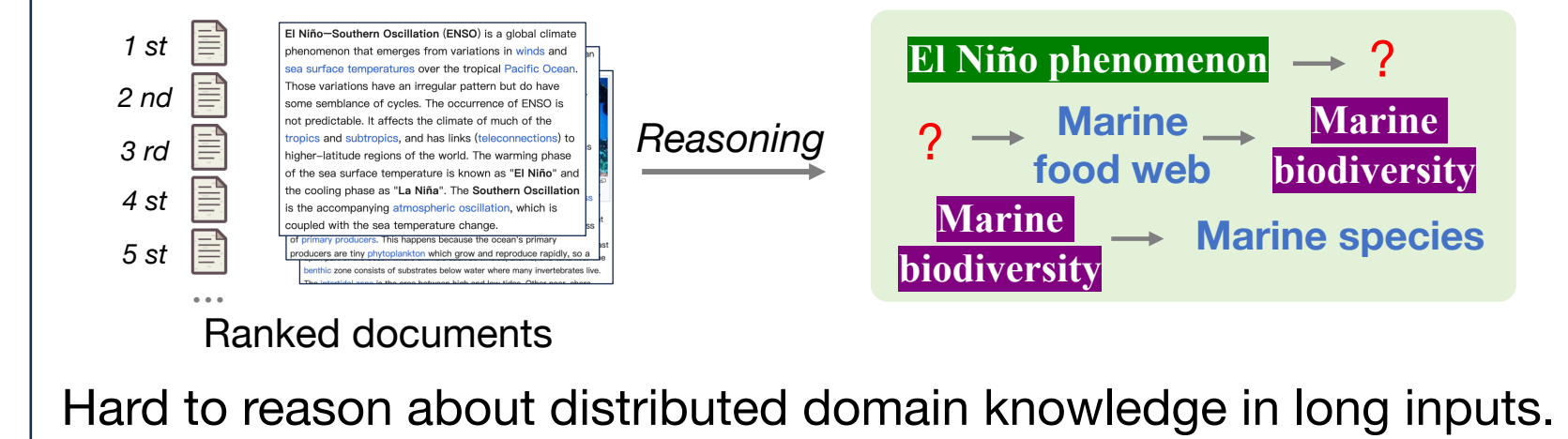
Answer:

"The **El Niño phenomenon** reduces nutrient-rich **upwelling**, leading to a decline in **oceanic phytoplankton** populations. As phytoplankton form the base of the **marine food web**, their reduction can significantly affect the entire **marine biodiversity**, leading to decreased population sizes in **marine species** and potential disruptions in **ecological balance**."

Traditional RAG:



Unstructured information retrieval may lead to missing.



GraphRAG:

