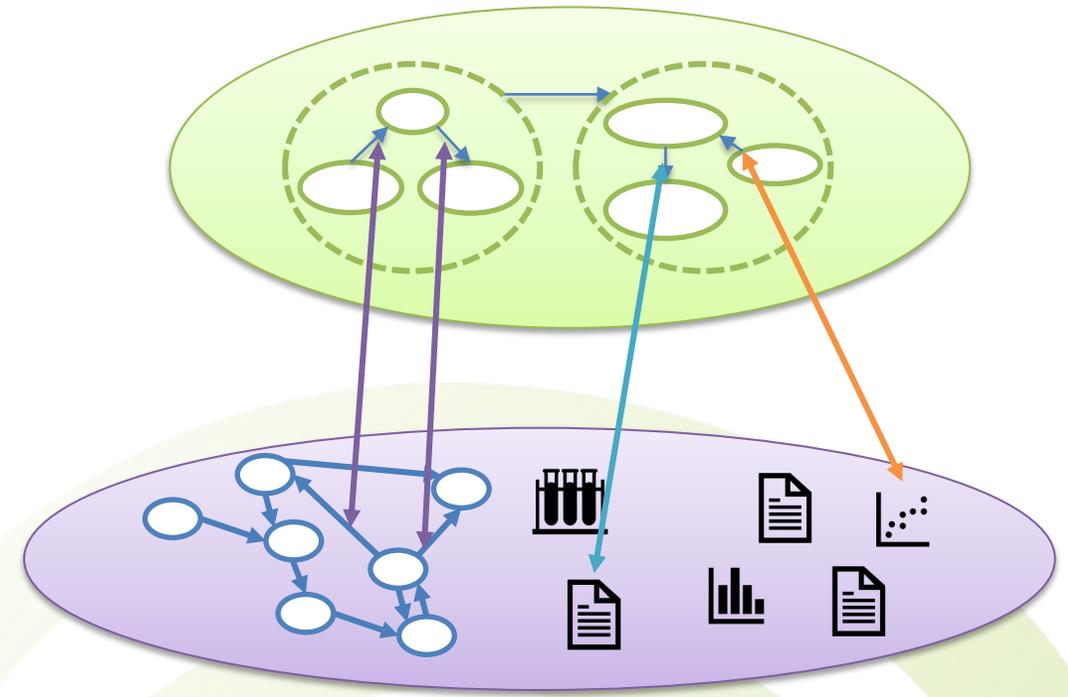




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Institut für Informationssysteme  
Technische Universität Braunschweig



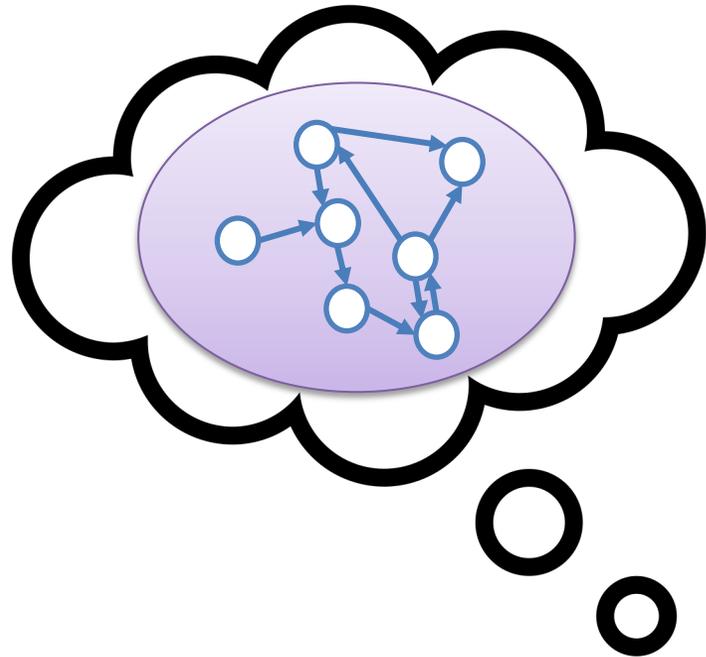
## **On Dimensions of Plausibility for Narrative Information Access to Digital Libraries**

**Hermann Kroll, Niklas Mainzer and Wolf-Tilo Balke**

Institute for Information Systems  
TU Braunschweig, Germany



# Motivation

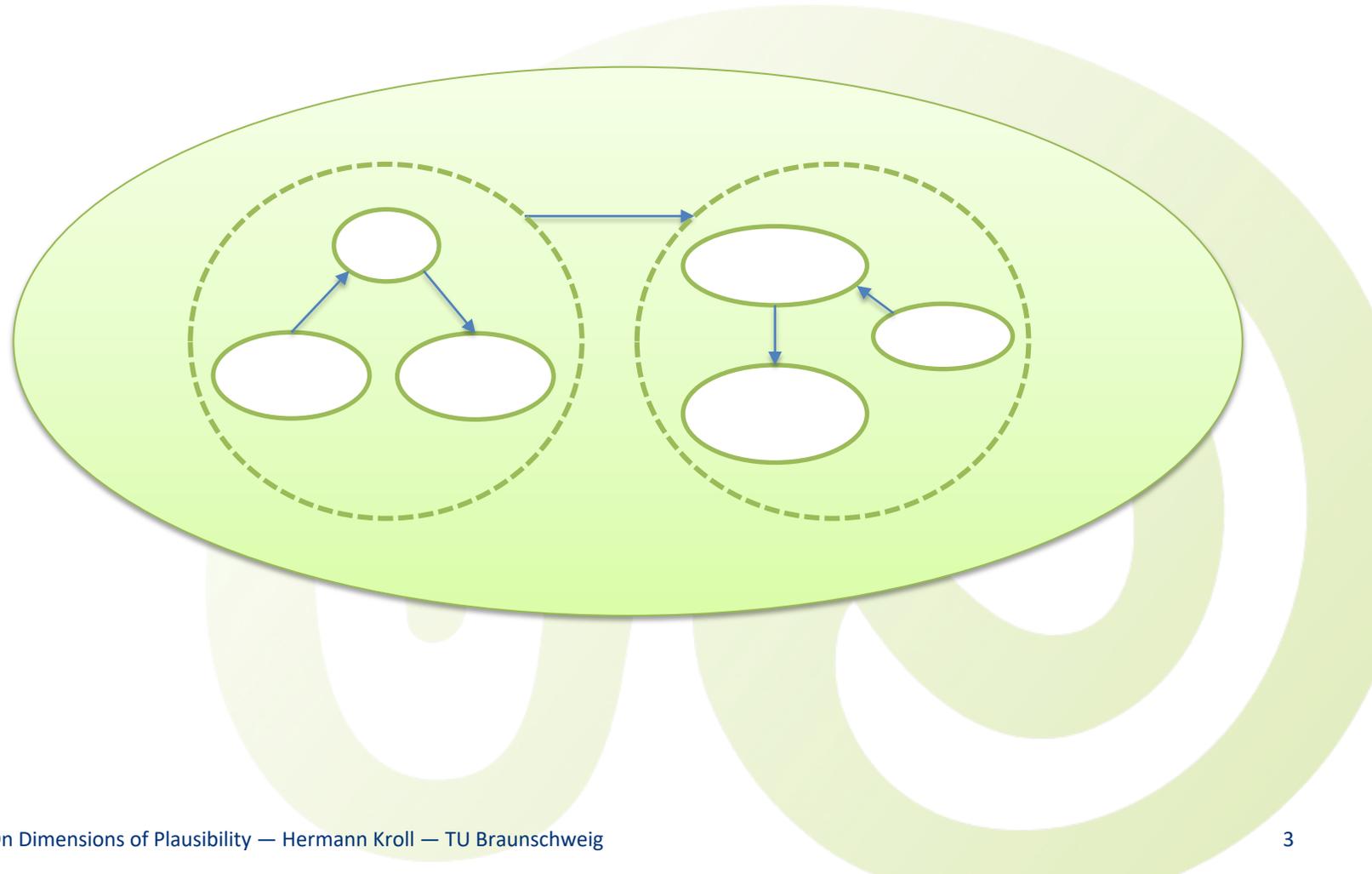
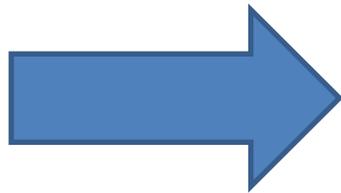
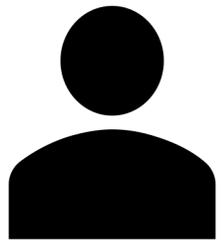


Did you know?



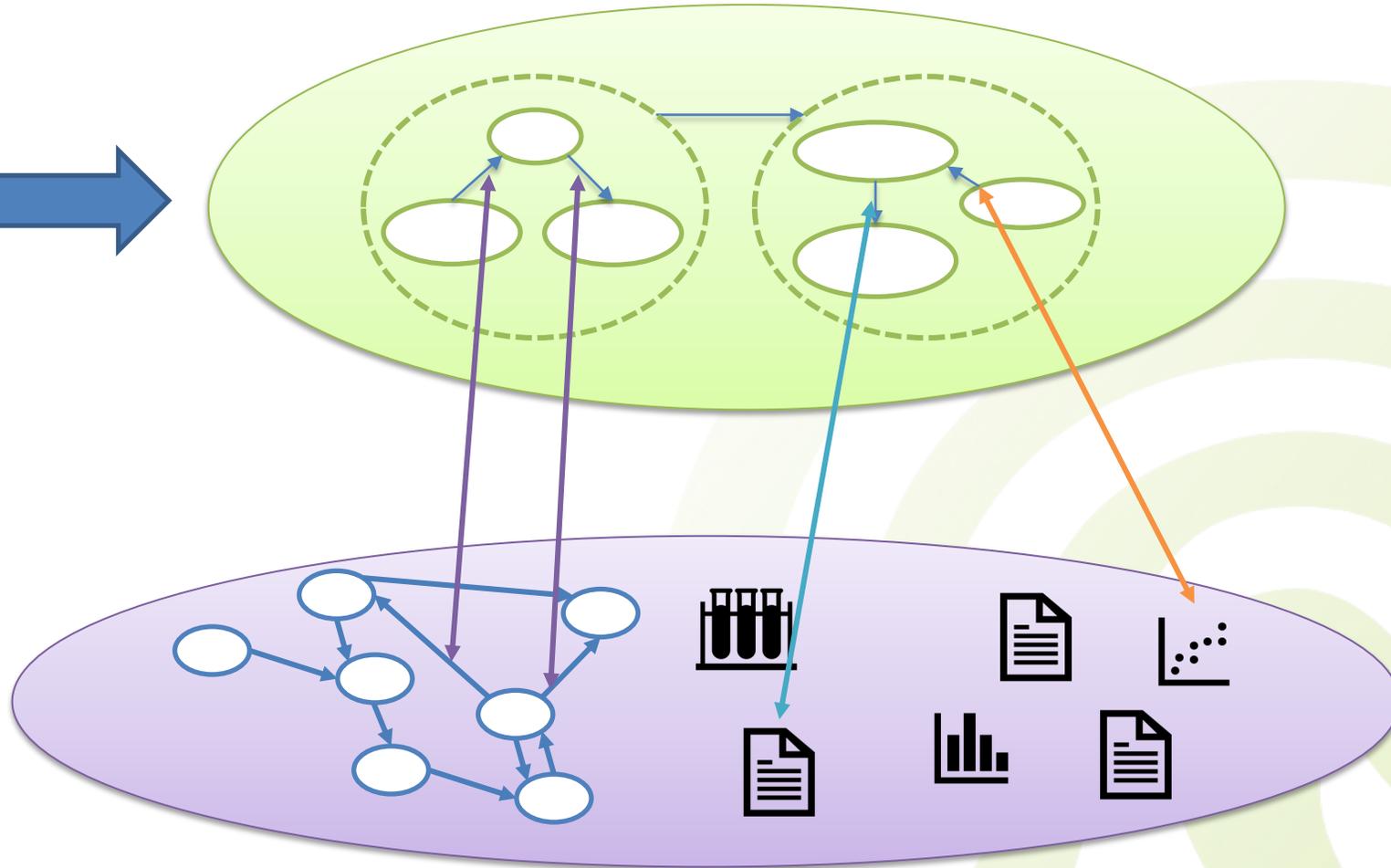
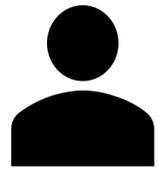


# Narrative Information Access





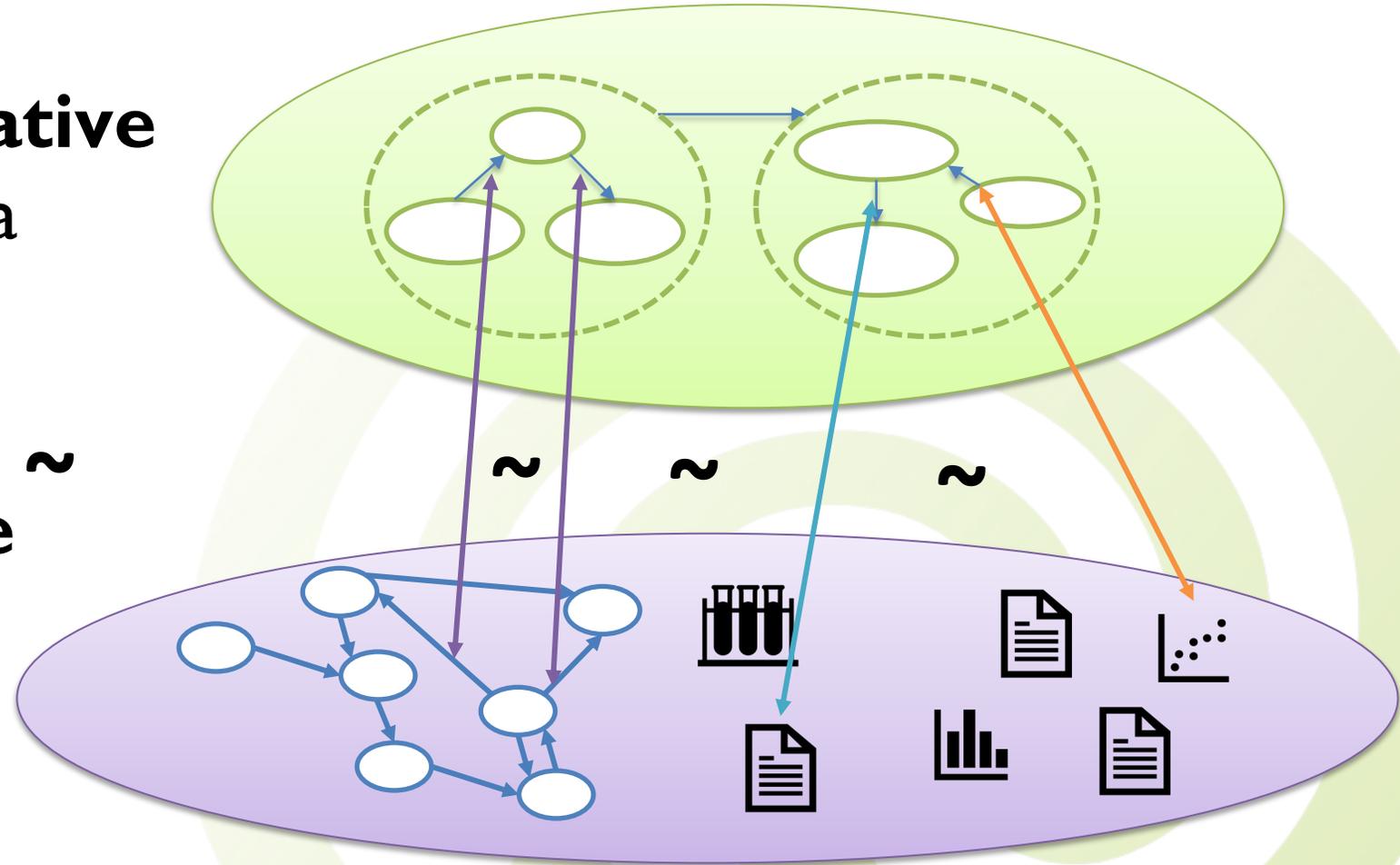
# Narrative Information Access





# Narrative Information Access

1. Bind the **whole narrative** against real-world data
2. All bindings must be **context-compatible**  $\sim$





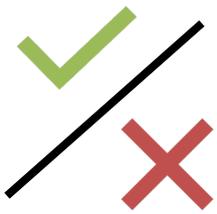
# On Narrative Plausibility

## Textual Narrative

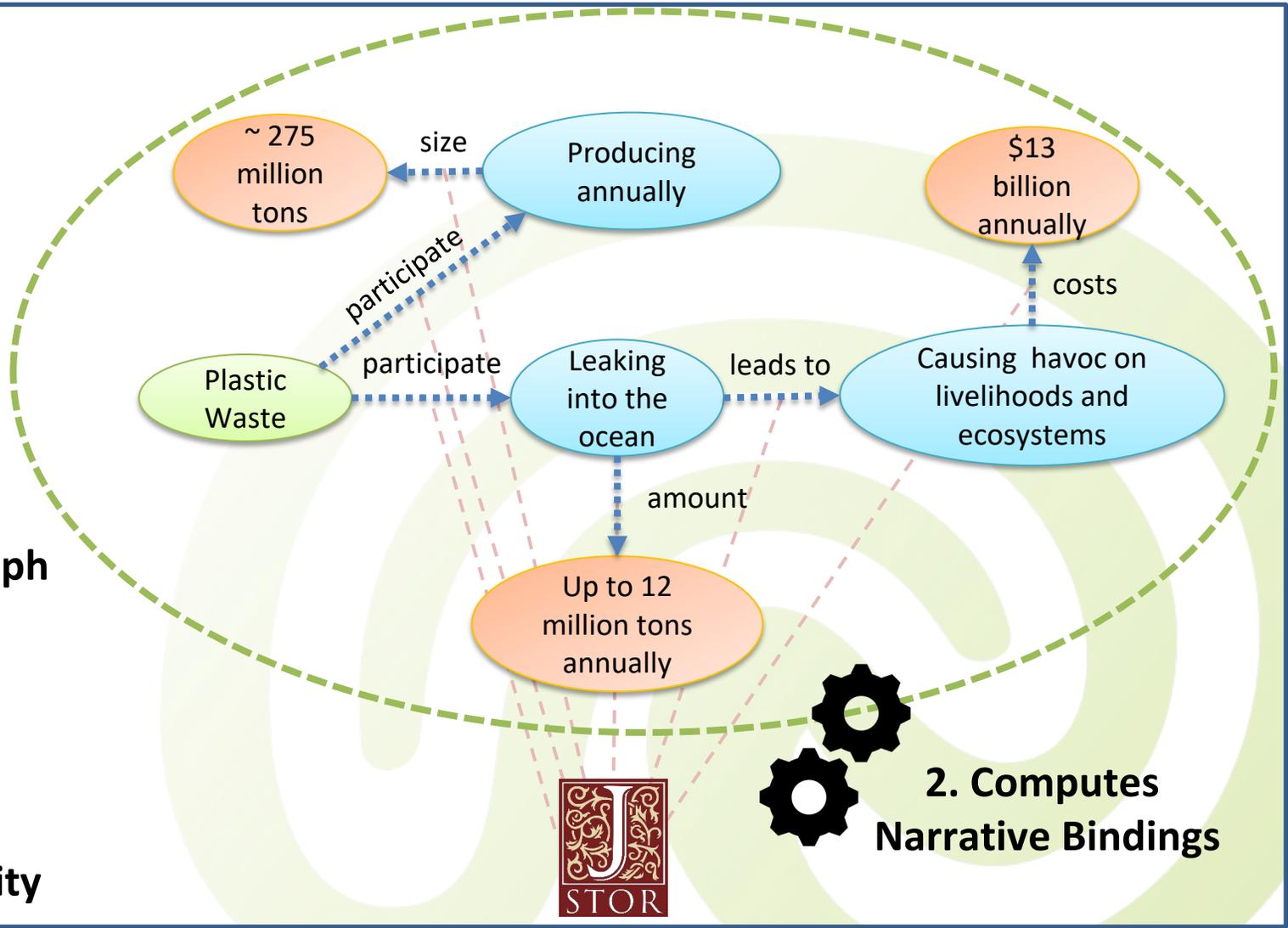


User

1. Formulates Narrative as a Graph



3. States Narrative Plausibility





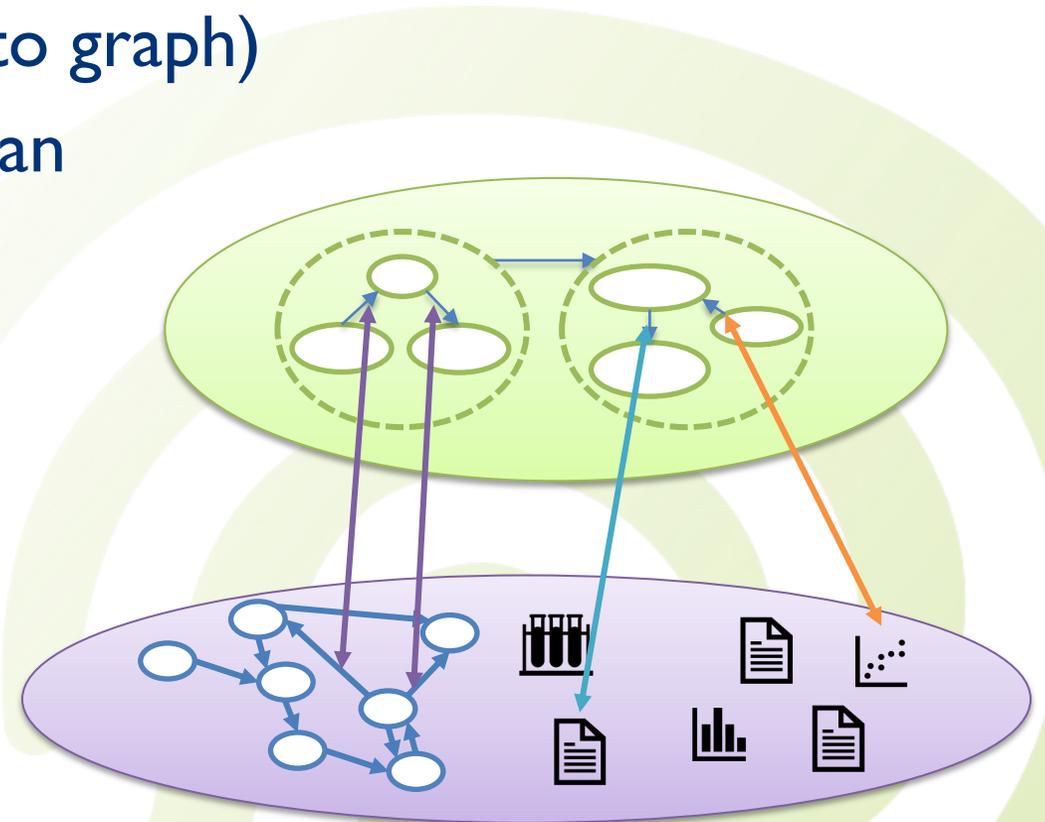
# Dimensions of Narrative Plausibility

- **Narrative Structure**

- Transformation ambiguity (from text to graph)
- What happens if one representation can be validated and another not?

- **Validation Approach**

- Which repositories are considered?
- Which methods are applied?
- What do these methods guarantee?





# Dimensions of Narrative Plausibility

- **Types of Evidence**

- How can we handle **indirect evidence**?
- Are we searching for **counter-evidence**?
- What about the **absence of evidence**?

- **Confidence of Bindings**

- **Trustworthiness** of sources (fact-checked vs. website)
- **Quality** of bindings (e.g., score of a retrieval method)



# Conclusion

- Narratives allow us to connect *things* in a story
  - But is that story **plausible** – in the sense of evidence?
  - How can we get a **suitable** notion of plausibility?
- We proposed **dimensions** and **questions**
  - But where is the **sweet spot** between formalism & application?



# Thank You!



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