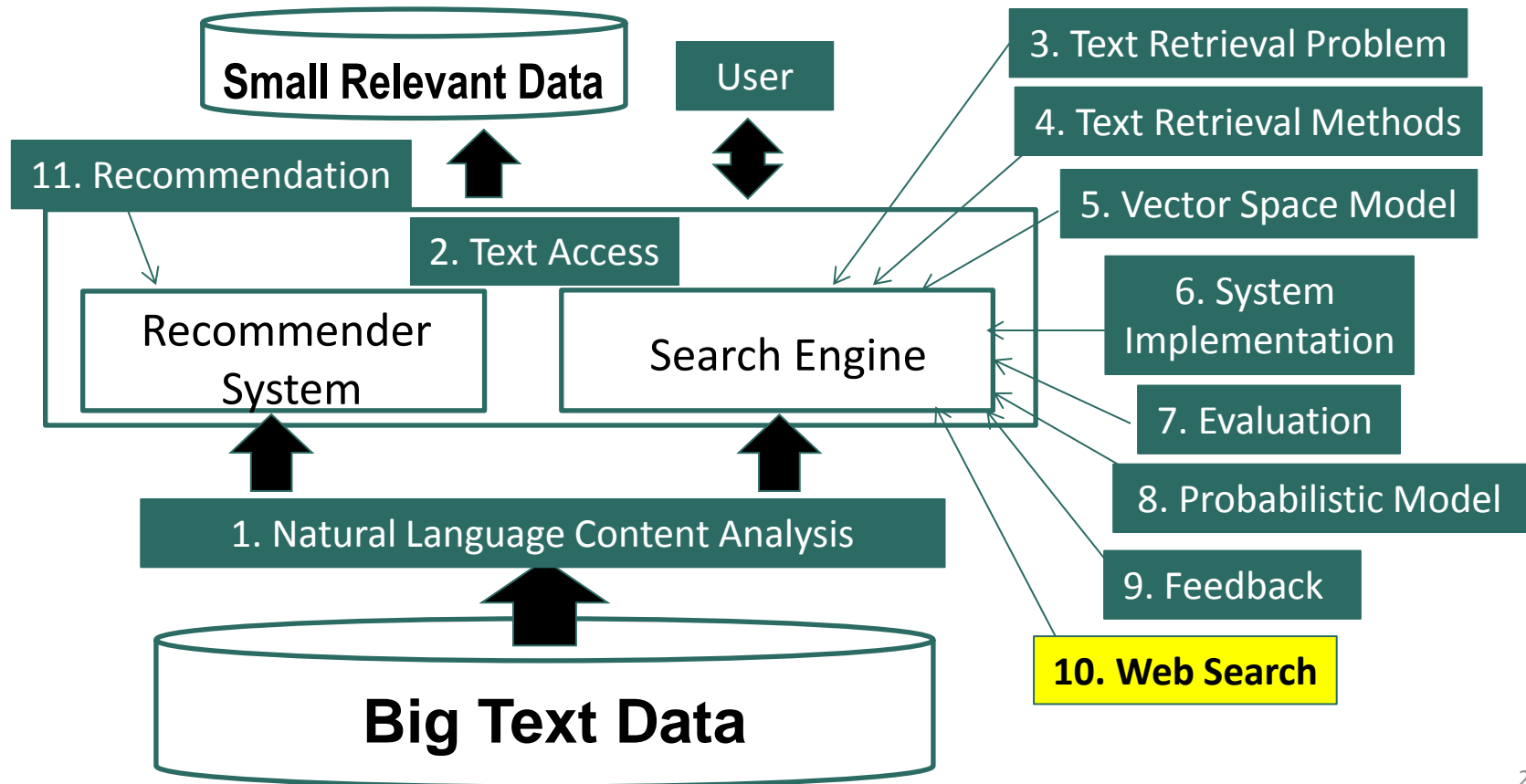


Text Retrieval and Search Engines

Web Search: Future of Web Search

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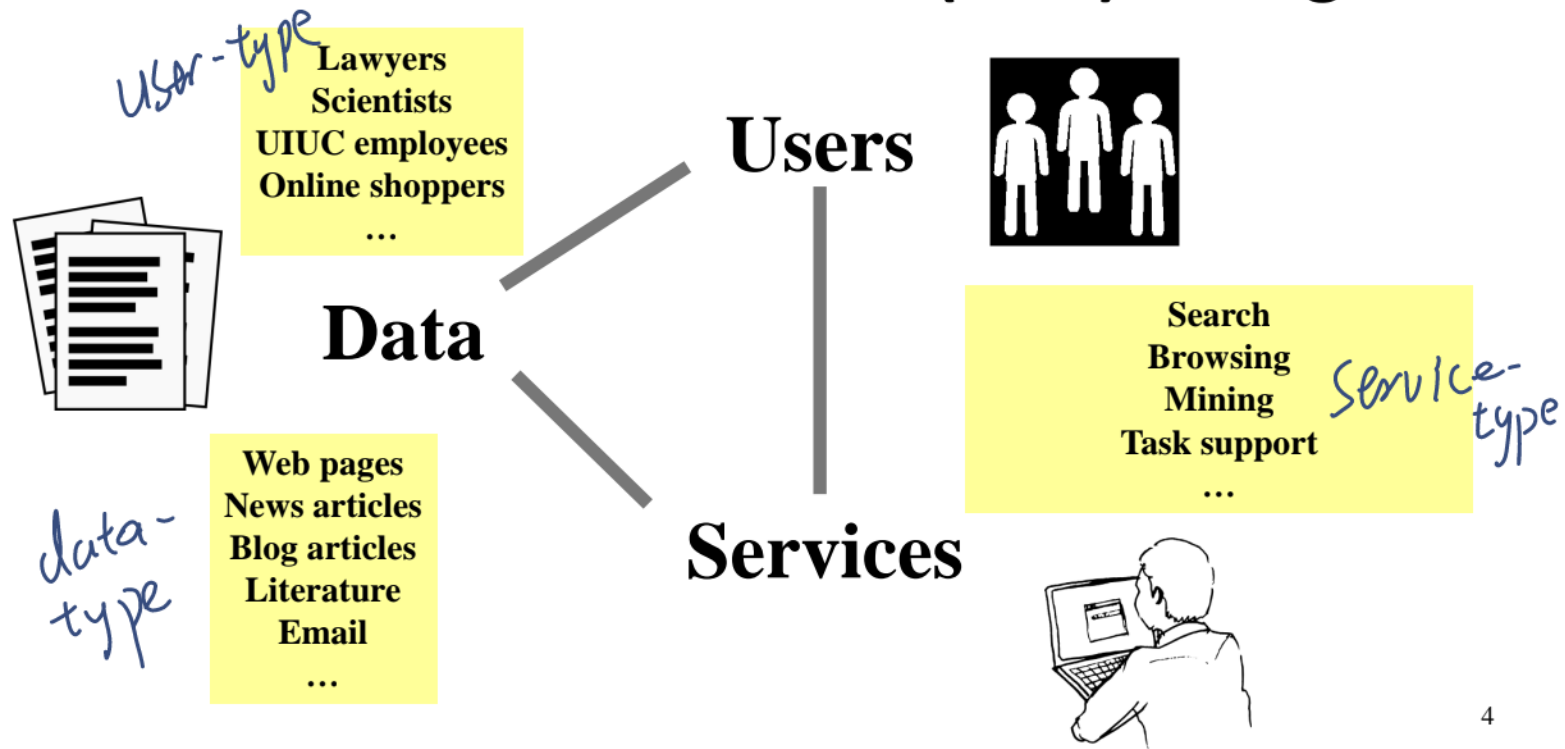
Web Search: Future of Web Search



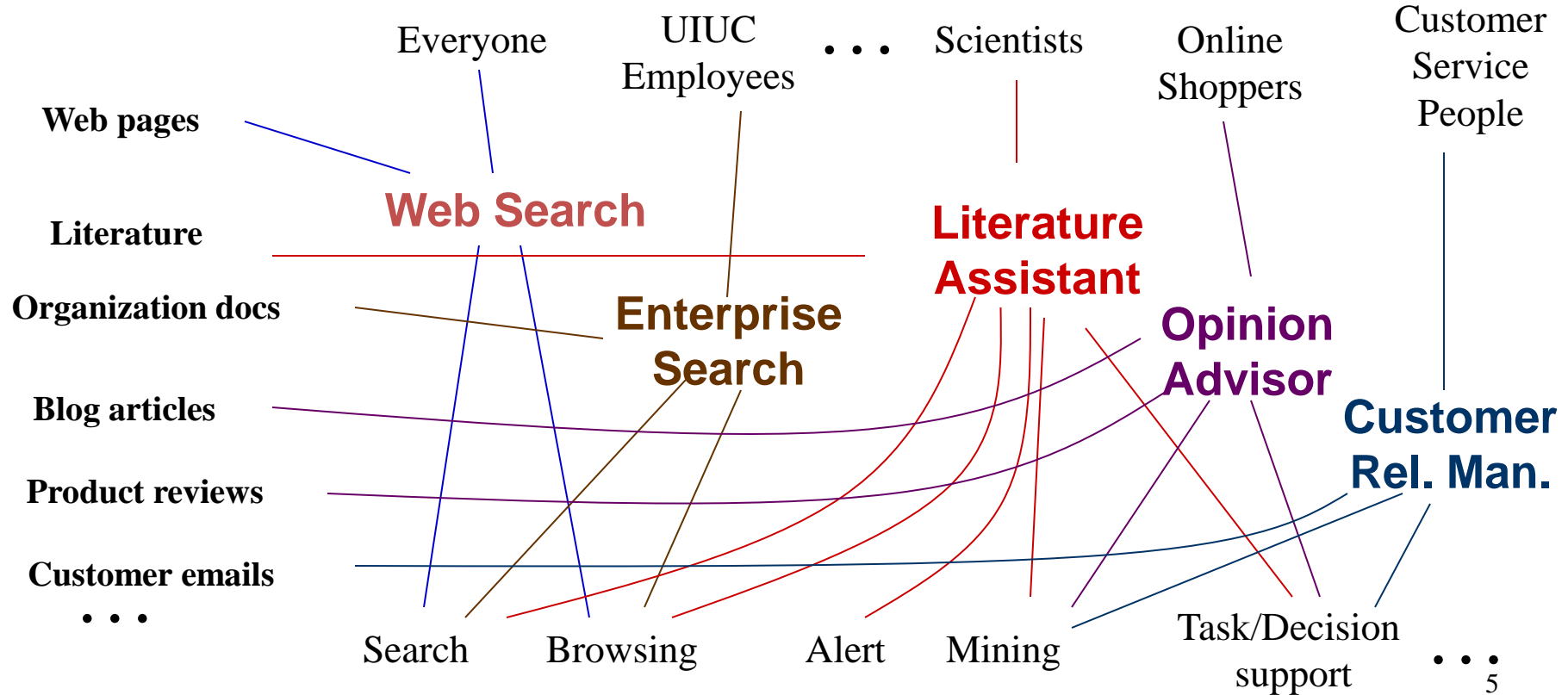
Next Generation Search Engines

- More specialized/customized (vertical search engines)
 - Special group of users (community engines, e.g., Citeseer)
 - Personalized (better understanding of users)
 - Special genre/domain (better understanding of documents)
 - Learning over time (evolving) *from implicit feedback 学习.*
 - Integration of search, navigation, and recommendation/filtering (full-fledged information management)
 - Beyond search to support tasks (e.g., shopping)
 - Many opportunities for innovations!
- pull*
query *browser* *push*
recommand

The Data-User-Service (DUS) Triangle



Millions of Ways to Connect the DUS Triangle



Future Intelligent Information Systems

