



A challenge on large-scale
biomedical semantic indexing
and question answering

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WHAT IS BioASQ?

Task A: Hierarchical text classification

- Organizers distribute new unclassified PubMed articles.
- Participants assign MeSH terms to the articles.
- Evaluation based on annotations of PubMed curators.

Task B: IR, QA, summarization, ...

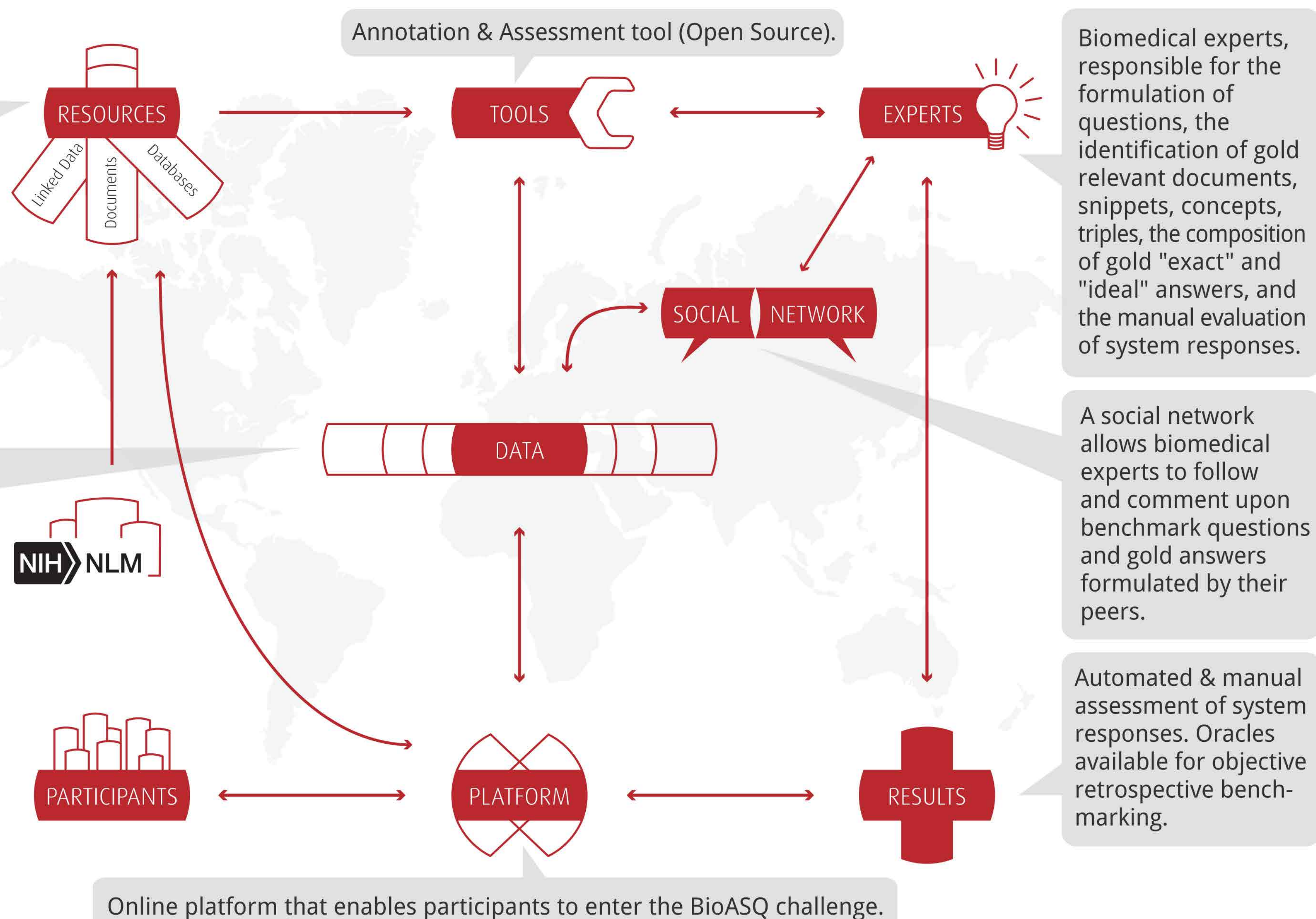
- Organizers distribute English biomedical questions produced by a team of biomedical experts.
- Participants provide: relevant articles, snippets, concepts, triples, "exact" answers (e.g., named entities), "ideal" answers (paragraph-sized summaries).
- Evaluation: both automatic (GMAP, MRR, ROUGE etc.) and manual (by biomedical experts).

Data sources include both **text** and **structured** info.

- PubMed articles.
- MeSH, Gene Ontology, UniProt, Jochem, Disease Ontology.

Task A: 12,000,000 articles with MeSH headings available for training. New test batches available every week.

Task B: 1300 English questions, plus gold relevant documents, snippets, concepts, triples, "exact", and "ideal" answers.



Biomedical experts, responsible for the formulation of questions, the identification of gold relevant documents, snippets, concepts, triples, the composition of gold "exact" and "ideal" answers, and the manual evaluation of system responses.

A social network allows biomedical experts to follow and comment upon benchmark questions and gold answers formulated by their peers.

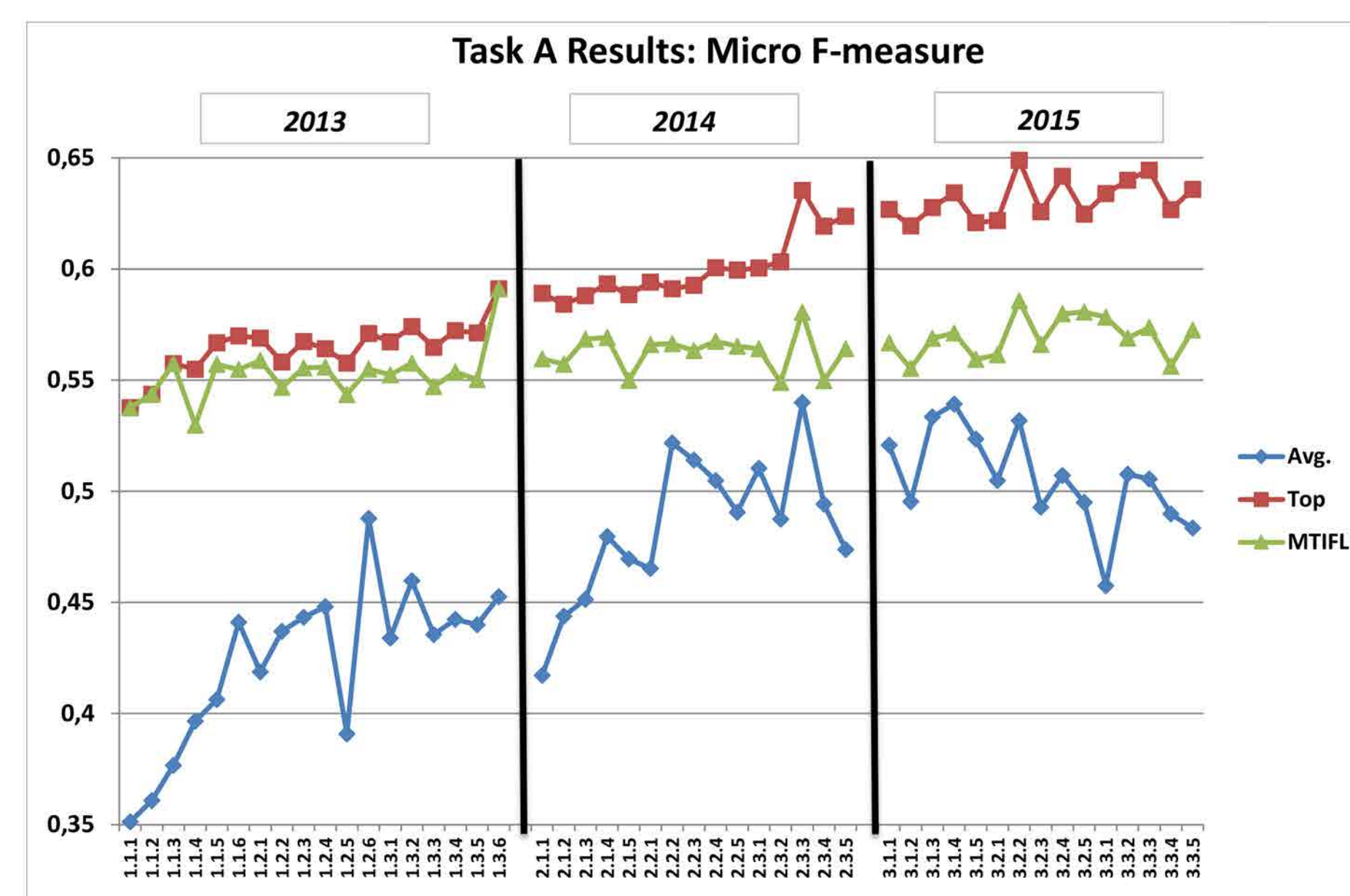
Automated & manual assessment of system responses. Oracles available for objective retrospective benchmarking.

Online platform that enables participants to enter the BioASQ challenge.

PARTICIPANTS



RESULTS



Stay tuned for BioASQ 4!

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