Next Steps and Future Challenges
Panel Discussion
High-Level Knowledge Engineering
COMMONKADS MODEL

Organization Model
Task Model
Agent Model

Knowledge Model
Communication Model
Design Model

(Context)
(Concept)
(Design)

Some Knowledge Representation Evaluation Criteria

(1) requirements evaluation
   ( ‘Are requirements fully specified, complete, and attainable? ’ );

(2) system validation and verification
   ( ‘Does the system drive its function via appropriate well-constructed arguments? ’ ;
     ‘Is the system well-constructed technically? ’ );

(3) usability evaluation
   ( ‘Is the system easy to learn and to use? ’ );

(4) performance evaluation
   ( ‘How well does the system fulfill its requirements specification? ’ ).

Some thoughts from the day’s discussions.

- Are there high impact use cases that we should chase?
- Who are the target user-groups?
- What are the fundamental ontologies?
  - For Vaccines?
  - For Adverse Events?
- What are the supporting ontologies?
Shall we tailor our approach to target communities?

- Example from Luca: experiments performed in-clinic to test causality has a certain logical structure. Our representation should reflect the formulation used by the experts.

- Scoping of ontologies based on ‘paradigms of use’
  - E.g., Vaccines vs. Chemotherapy.
Secondary questions

- Role of data within the formulation of statements
- Role of capturing provenance underlying assertions
- Use of ontologies in text mining / Use of text mining in developing ontologies
- What reasoning technology is best for what purpose
What shall we do?

- Any ideas for collaborative projects?
  - Vaccine Ontology ideas?
  - Adverse Event ideas?

- Shall we do this again next year?