Ontology Summit 2011: Making the Case for Ontology

Community Input & Brainstorming Session
December 16, 2010

Steve Ray, CMU
Nicola Guarino, ISTC-CNR
Calendar of Events

Launch of the 2011 Ontology Summit

Thursday, 20-Jan-2011
Virtual event, starting 17:30 UTC
(note: this is 1 Hr earlier than our normal Ontolog event slot)

... 3 months of on-line discussion and production of tangible results

March/April, 2011 at NIST, Gaithersburg MD
Ontology Summit Symposium
for final discussions and polishing of a communiqué
The Team

• Organizers:
  – Ontolog, NIST, NCOR, NCBO, IAOA, NCO-NITRD, ...

• Ontology Summit General Co-Chairs
  – Steve Ray, CMU
  – Nicola Guarino, ISTC-CNR

• Ontology Summit Symposium Co-Chairs
  – Ram Sriram, NIST
  – Leo Obrst, MITRE

• Organizing Committee
• Track Champions
• Advisory Committee
• Co-Sponsors
• Community Participants
Today’s Objective

- Introduction of the theme of the 2011 Summit
- Brainstorming of ideas that support this theme
  - Topics / Tracks
  - Speakers
  - Invitees
  - Sponsors
  - Marketing
  - Approaches
  - Volunteers ...
Agenda

• Introduction and ideas
• Open floor for even more ideas
  (Please use the chat room to ensure your ideas are properly recorded)
• Collecting volunteers for the full team
• Summary & wrap-up
2011 Summit: Making the Case for Ontology

Themes

1. Documented domain examples
   – Good examples where using an ontology brings clear benefits to addressing a commercial need

2. Assessing the different needs and the corresponding ontology features
   – According to application domain
   – According to different ontology uses (e.g., information access vs. information integration – lightweight vs. deep ontologies)

3. Challenges going forward
   – Unmet commercial and research needs
More Possible Themes

4. Retrospective analyses of proposed solutions to old problems
5. New applications, new technologies?
6. Identifying a Grand Challenge
   ... (more)
Domains to Draw From

• Healthcare informatics and biomedical
• Cyber-physical systems, embedded systems
• Socio-technical systems
• Software engineering, knowledge engineering, systems engineering
• Traditional engineering applications
  – Civil, mechanical, aerospace...
• Enterprise and system architecture
• Government applications
• Cybersecurity
• Financial services
• Cloud (massively parallel) computing
Open Discussion

• Relevant ideas and approaches
• What tracks should we have?
• Who are the content experts?
• Who are the champions?