

Description of methodologies. Uschold & King

1. Identify Purpose and Scope

2. Building the ontology

• **Ontology Capture**

• **Ontology Coding**

• **Integrating existing ontologies** →

- **Identify key concepts and relationships**
- **Produce unambiguous text definitions**
- **Identify terms to refer to such concepts and relations**

- **Commit to a meta-ontology**
- **Choose a representation language**
- **Write the code**

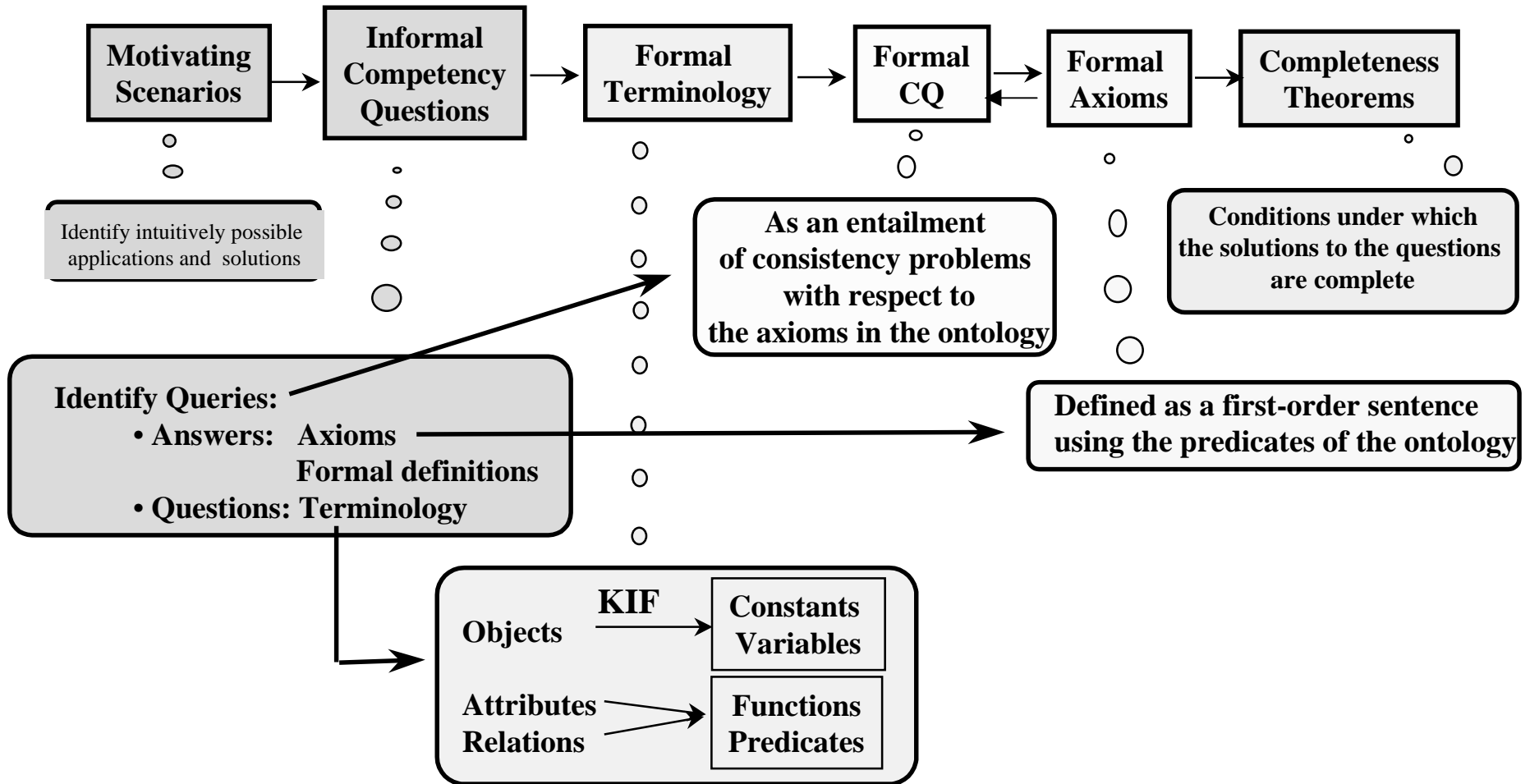
How and whether to reuse ontologies that already exist

3. Evaluation

4. Documentation

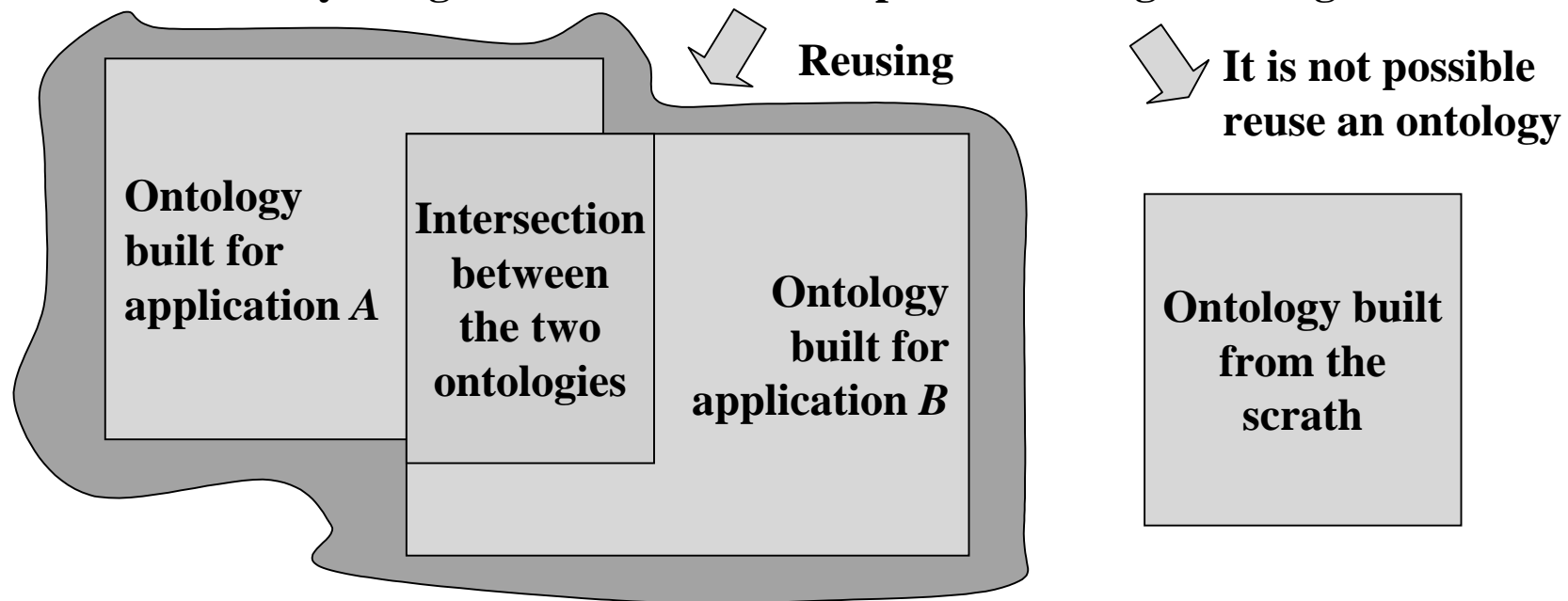
5. Guideliness for each phase

Description of methodologies. Grüninger & Fox

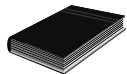


Description of methodologies. Bernaras et alia

1. Specification of the application $C \simeq A \cup B$
2. Preliminary design based on relevant top-level ontological categories

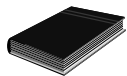
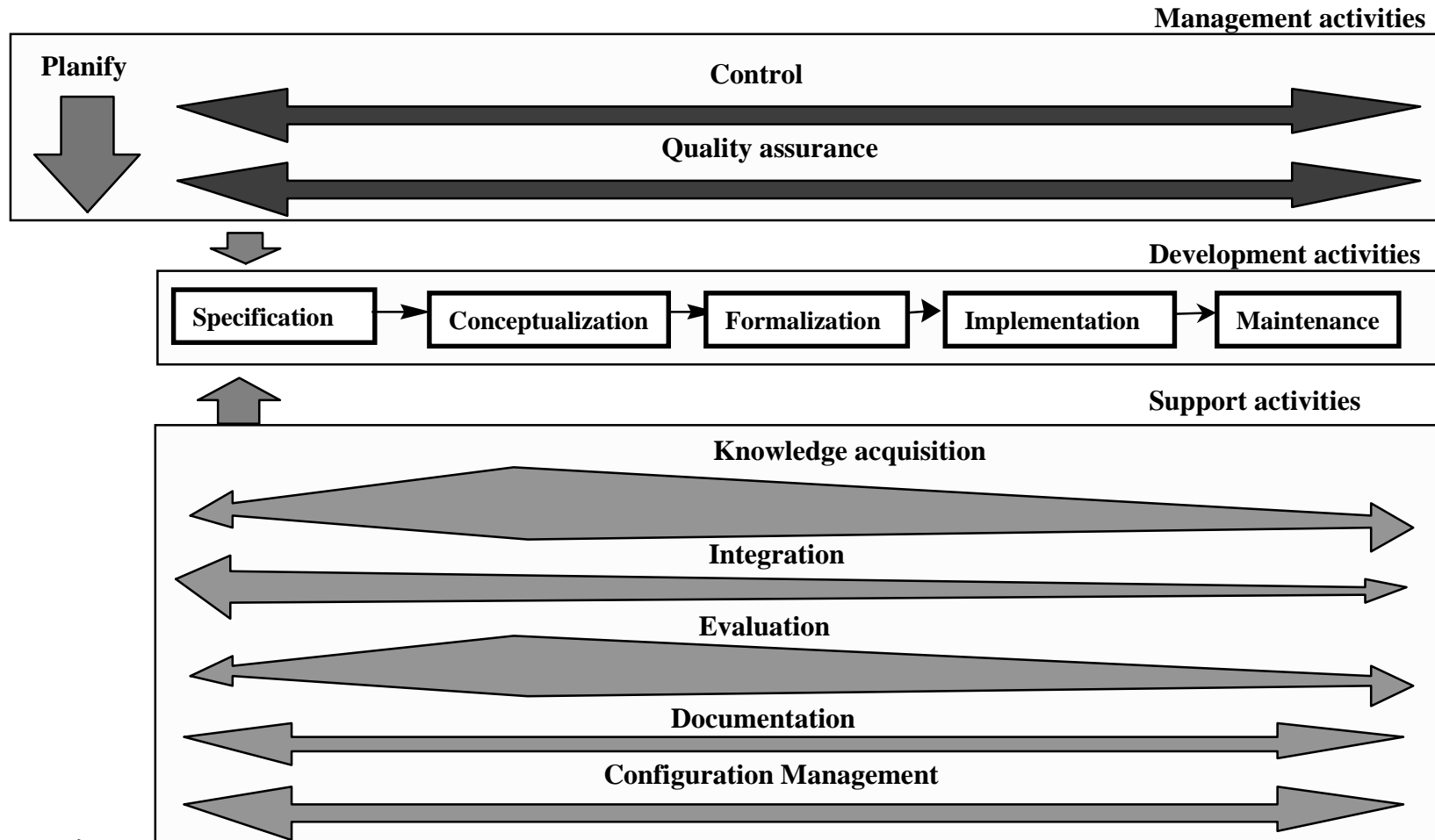


3. Ontology refinement and structuring



Bernaras, A.; Laresgoiti, I.; Corera, J. *Building and reusing ontologies for electrical network applications*. Ecai'96. 12th European Conference on Artificial Intelligence. 1996. 298-302.

Description of methodologies. METHONTOLOGY



Gómez-Pérez, A. *Knowledge Sharing and Reuse*. In the *Handbook of Applied Expert Systems*. CRC Press. 1998.

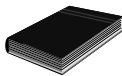
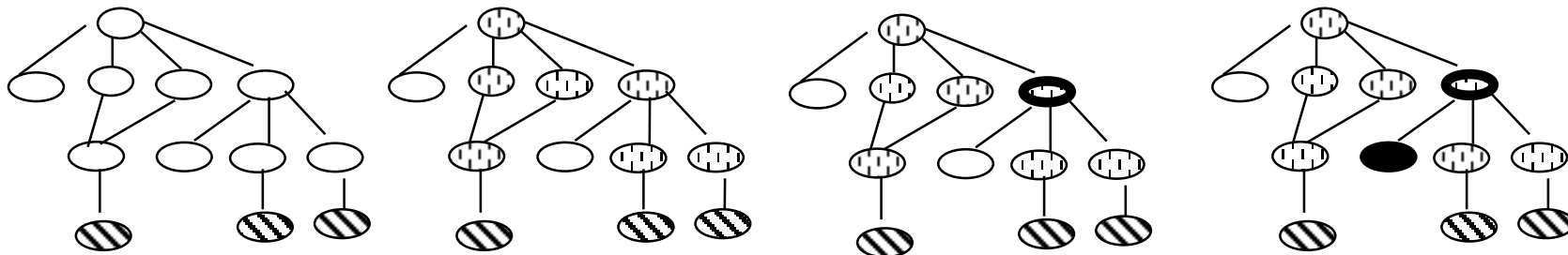
Description of methodologies. SENSUS

METHOD

1. Identify “seed” terms
2. Link seed terms to SENSUS by hand
3. Include nodes on the path to root
4. Add entire subtrees using the heuristic:

If many nodes in a subtree are relevant,
the other nodes in the subtree are relevant

- Sensus Term
- ▨ Seed
- ⊞ Path to root
- ◐ Frequent Parent
- Subtree Term



B. Swartout; R. Patil; k. Knight; T. Russ. *Toward Distributed Use of Large-Scale Ontologies*
Ontological Engineering. AAAI-97 Spring Symposium Series. 1997. 138-148.