

# SBGN – Issues

- SBO annotations: introduces a hierarchy for the glyphs
- Differentiating physical entities and processes from virtual abstractions:
  - complexes and compartments vs. submaps
  - Nodes defining biological entities vs. tags
  - Nodes defining biological processes vs. equivalence processes (may be omitted processes)
  - Logical operators and logical arcs may also be treated as virtual abstractions(?)

# SBGN – Issues

- Confusing glyphs:

- Association and dissociation – which one would you use when it is reversible. I suggest one glyph for this. In my understanding these reactions are generally reversible.

- Connection points in process glyphs are part of the glyph-this was not clear

- Complexes without subunits – valid or invalid?

# SBGN – Issues

- Confusing rules

- “A complex may contain subunits that belong to different compartments (however, the complex itself belongs to only one)” How does this work?

- “Compartments cannot be nested.” Why not?

- “A PN should correspond to only one process or series of connected process. If the same set of EPNs are consumed and produced by alternative processes, they should be connected by different PNs.” How does this work?

# SBGN – Issues

- Using SBGN to visualise CellML models
  - I can use SBGN to visualise CellML models
  - Exchange format?