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# **Proposed Topic: Logic-based Formalisms For Diagrammatic Models**

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## *Success Criteria For Mini Series*

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- **Very different from the summit, which is aimed at a very broad audience**
- **Does not attempt to be too broad or inclusive, as it is primarily aimed at individuals with experience and background on the issues**
- **Attempts to establish dialog between diverse experts on different aspects of the miniseries topic**
- **Produces concrete deliverables useful to practitioners in the field**

## *Topic (Bounding the Scope)*

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- **Given the pervasiveness of engineering and science models which depend heavily on diagrams and the need for automated reasoning to determine model consequences**
- **Logic-based formalizations suitable for models which employ diagrams**
- **Include: representation of what we experience as part of the physical world (engineering models)**
- **Exclude: graphics for motivation & emotion arousal**

- **Establish requirements for logic-based representation of models**
- **Determine major formalism approaches**
- **Establish prognosis for effective automated reasoning for the model use cases**

- **Primarily individuals attempting to sell some particular solution independently of the topic of the mini series**
- **Primarily monologues by experts, punctuated by uninformed user comments and questions**
- **Attempts to solve ontological world hunger**