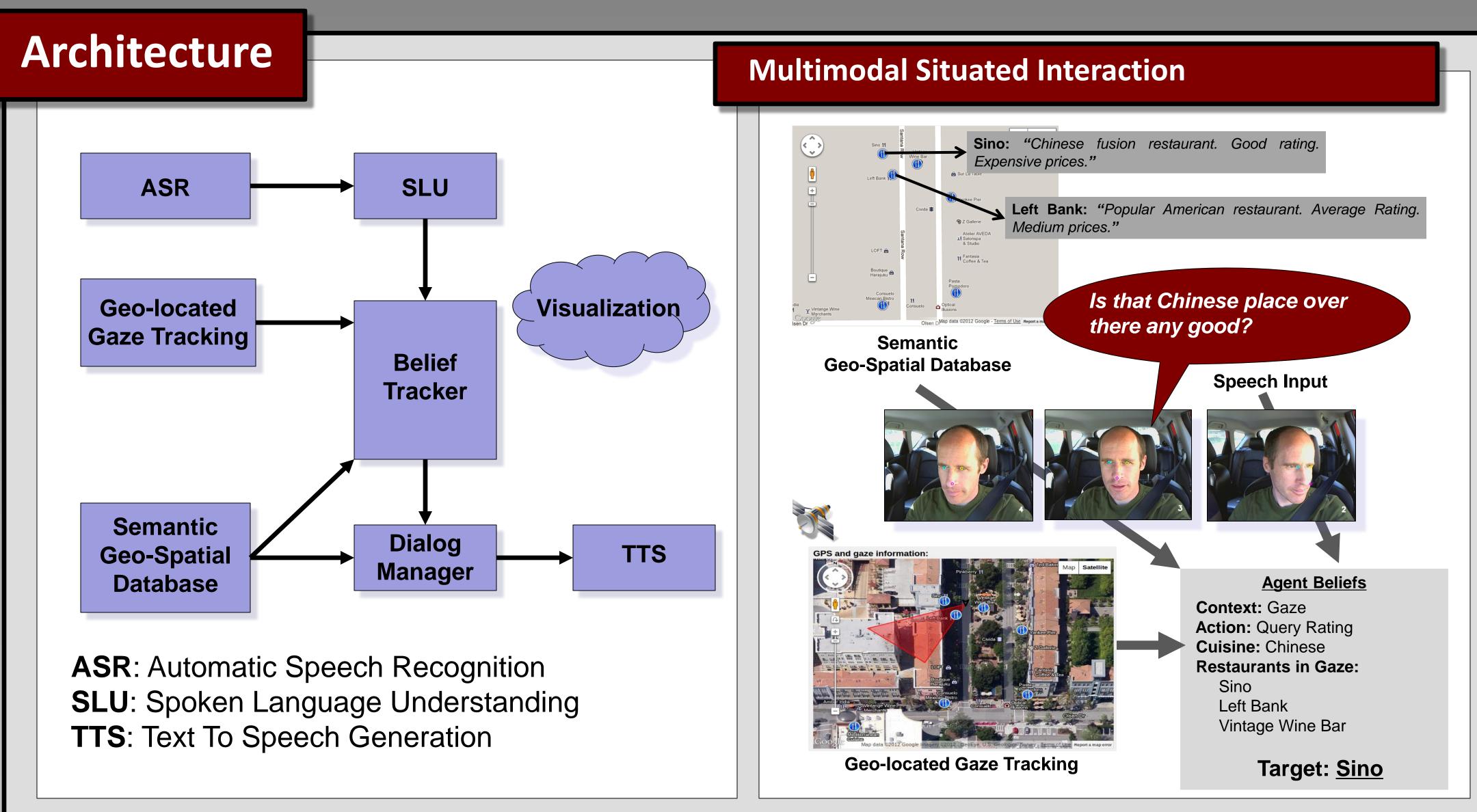
AIDAS: Immersive Interaction within Vehicles

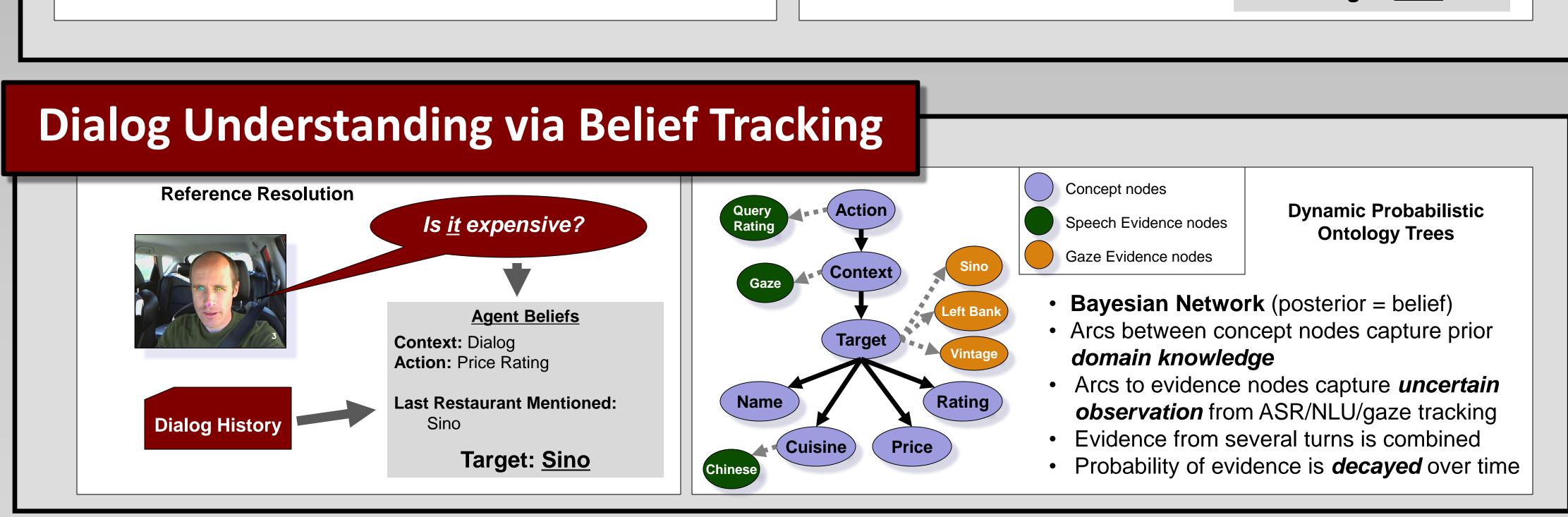
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Background

Current driver support systems are unable to leverage **situational context** during interaction: i.e.. location, visible landmarks, status of driver, status of vehicle, external environment

Context key to support situated interaction within vehicles (i.e. context-aware navigation or situated information search). Robust belief-tracking critical to enable immersive interaction





Challenges and Future Work

- Situated understanding of speech
 - Is the target within driver's field of view?
- Semantic grounding in the real world
 - "What's that place with the yellow umbrellas?"
 - "You mean right after that red brick building?"
- Multimodal interaction that is always "ON"
 - Is the driver speaking to AIDAS?
 - When should AIDAS interrupt?
 - What is the driver doing?