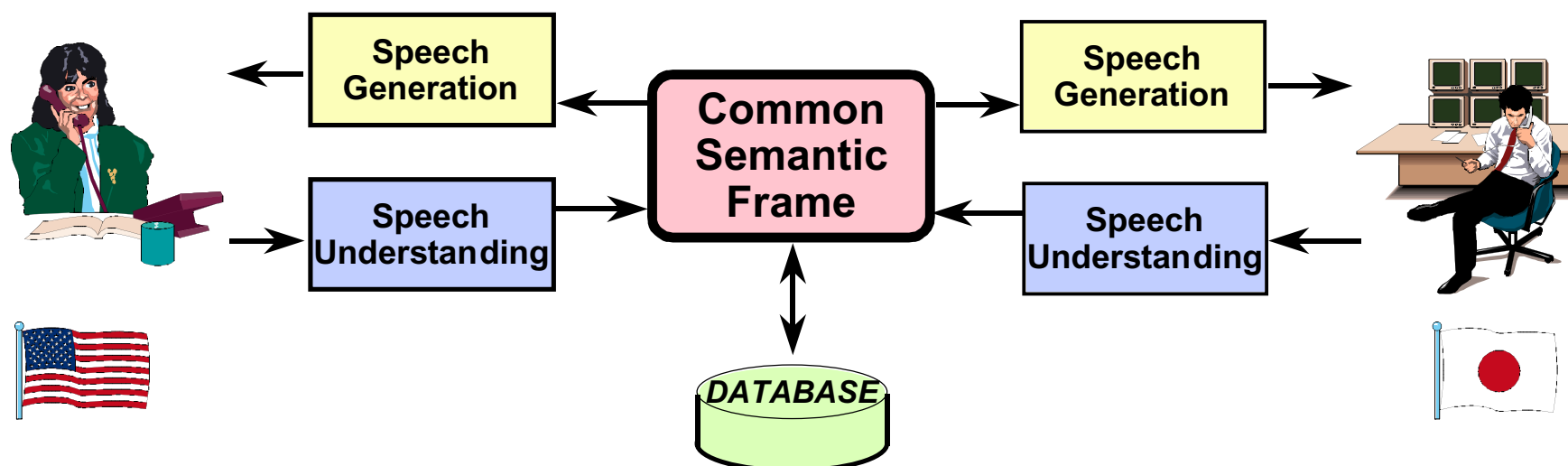




## Project Overview



- Explore language-independent approaches to speech understanding and generation
- Develop necessary human-language technologies to enable porting of conversational interfaces from English to Japanese
- Use existing Jupiter weather-information domain as test case



## Progress Through June 2000

- Developed prototype weather information system (Mokusei) using MIT human language technology
- Initiated data collection from NTT employees
  - Appropriate answers to approximately 60% of queries
- Ongoing system refinement:
  - Upgrade of language generation component for more natural sounding Japanese output
  - Reduce vocabulary inconsistencies among recognizer, parser, database, and generation components



## Research Plan for the Next Six Months

- Collect spontaneous speech data from more speakers interacting with the Mokusei system
- Develop natural sounding corpus-based concatenative synthesis for Mokusei domain
- Refine system component capabilities:
  - More robust acoustic and language models for ASR
  - Improved coverage for language understanding
- Expansion of weather content for Japan