

# TASK COMPLETION ENGINES

## A VISION WITH A PLAN

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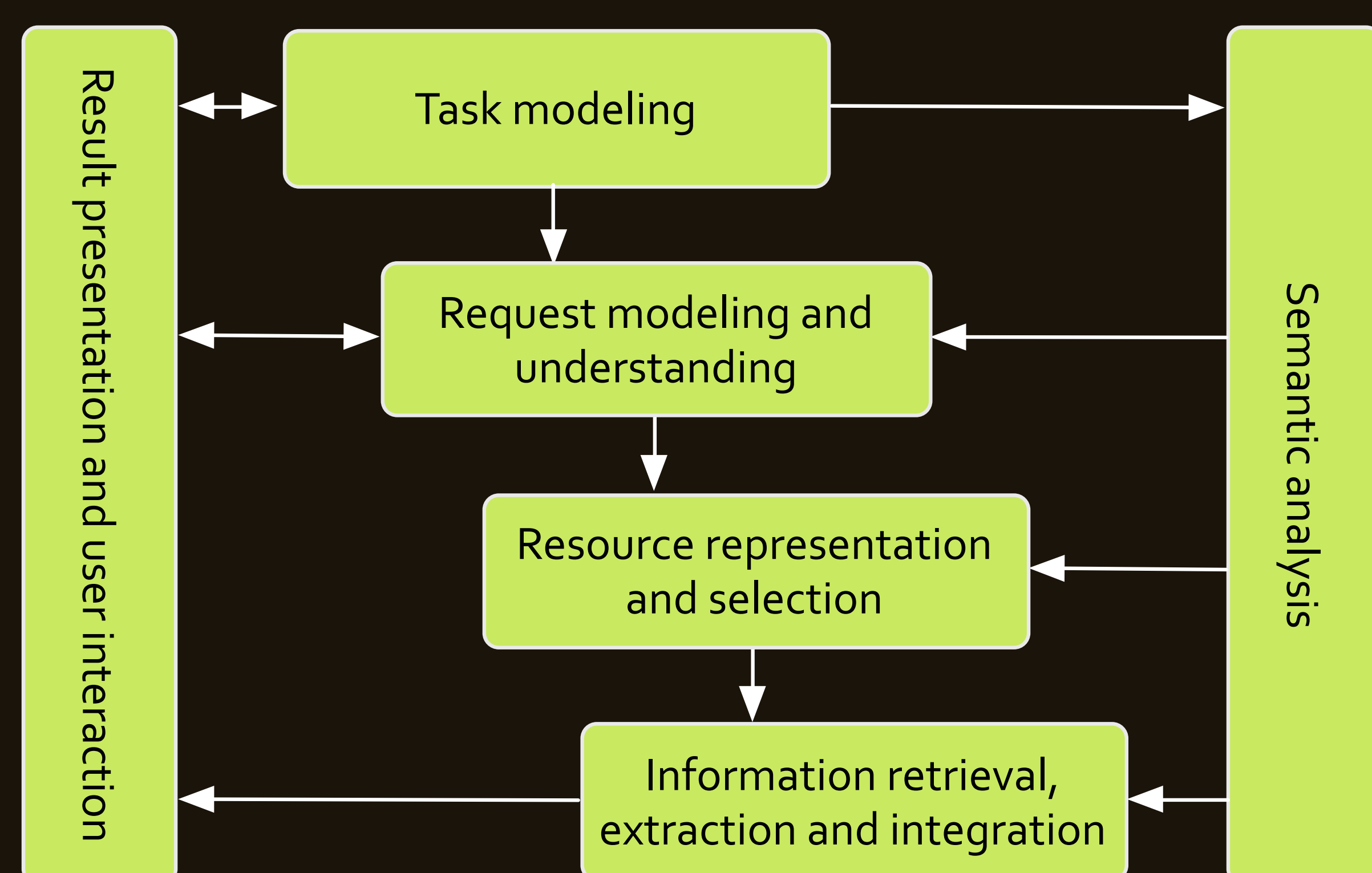
### GOAL: Google-meets-Excel-meets-SIRI

An integrated environment to support humans in solving complex, knowledge-intensive tasks

#### High-level requirements

- Can provide intelligent support and assistance, both for routine procedures and new tasks
- Can offer systematic production of data that is verifiably attributable to its source
- Can perform logical reasoning over knowledge (as opposed to mere statistical operations on words)
- Able to learn from user interactions and ultimately generalize to arbitrary tasks
- Intuitive, easy-to-use, and shields the user from the complexities of the underlying processes

### COMPONENTS



### EVALUATION

#### End-to-end evaluation

- Ability to help users accomplish a task from start to finish
- Implement the system as a public demonstrator that operates as a living labs platform

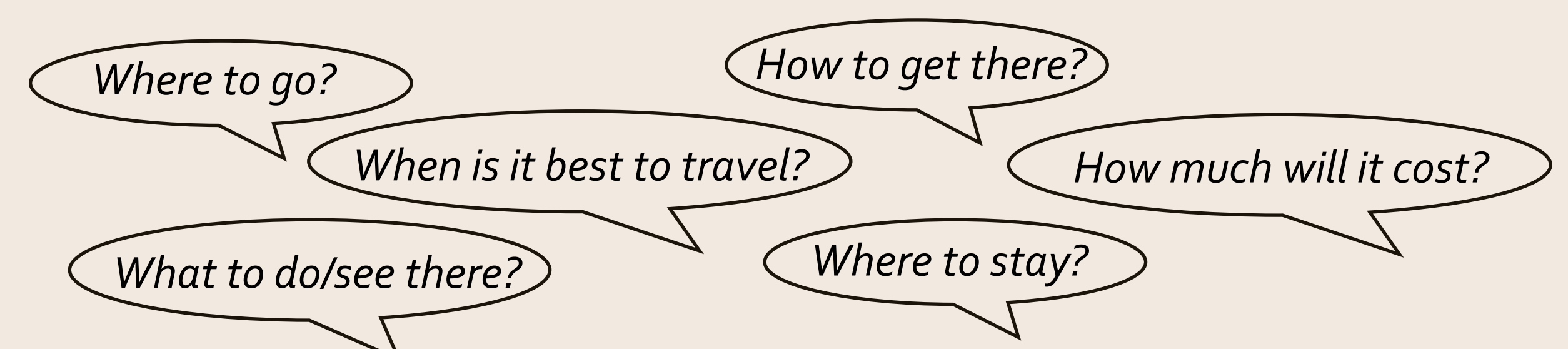
#### Component-level evaluation

- Purpose-built resources
- Community-based benchmarking campaigns

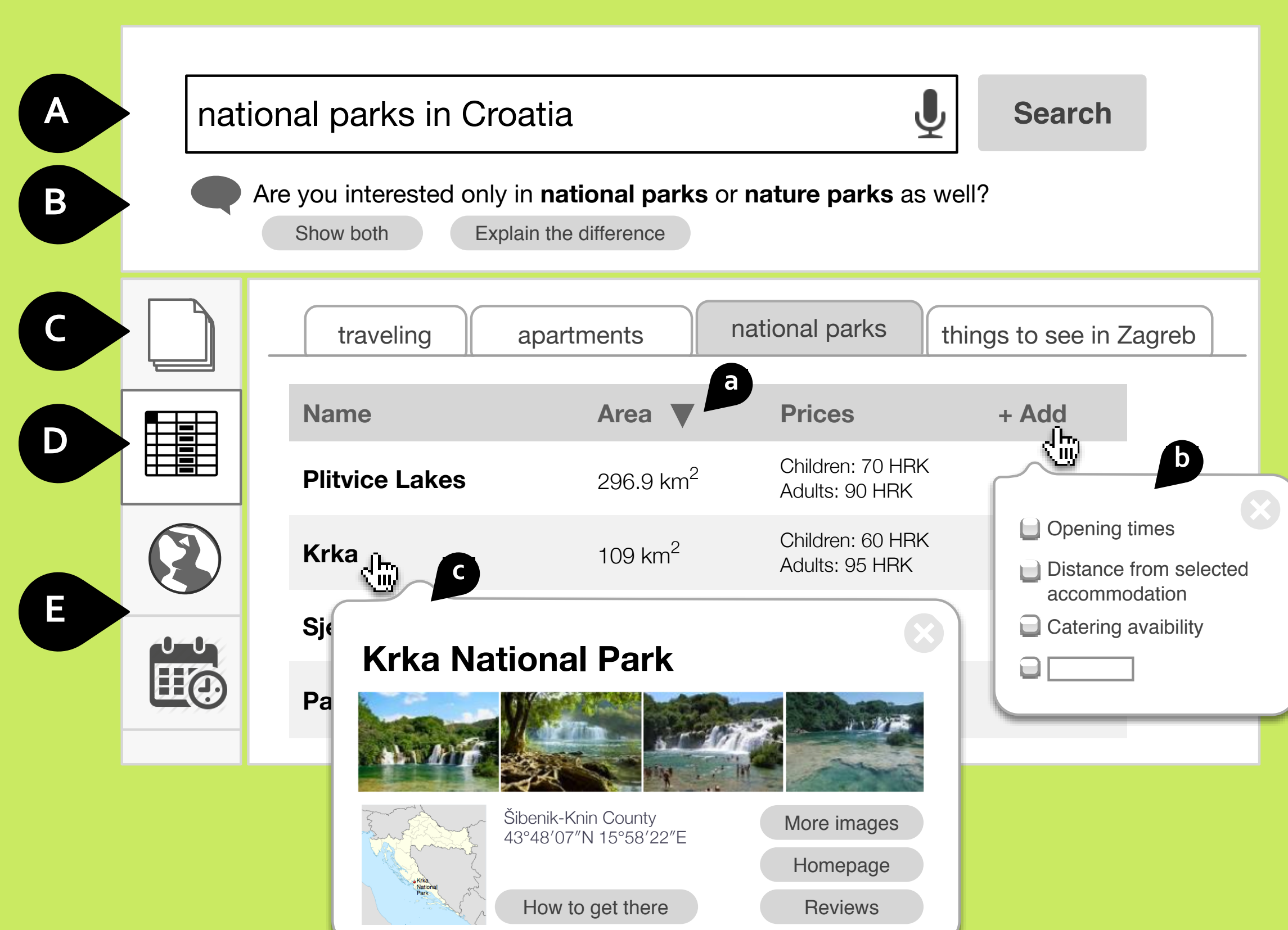
### USE-CASES

- Travel planning
- Shopping
- Setting up a work force

### INFORMATION NEEDS



### ENVISAGED USER INTERFACE



### UI ELEMENTS

- (A) Single search box (possibly with voice input)
- (B) Conversational interface
- (C) Source documents
- (D) Spreadsheets
  - (a) sorting, filtering
  - (b) adding columns
  - (c) further details and task-specific actions
- (E) Additional custom, task-specific views