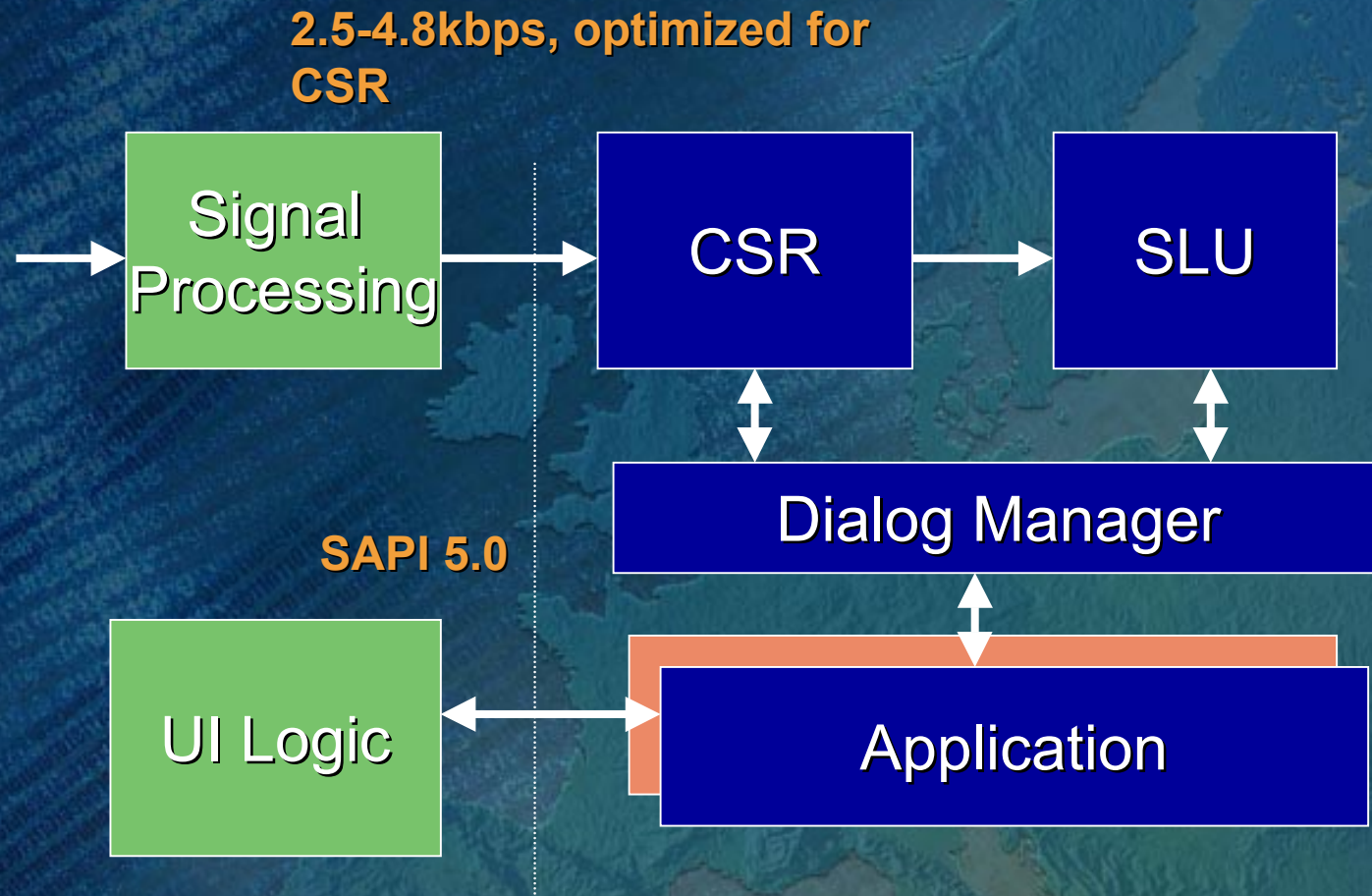


The Microsoft Research “DrWho” program

Derek Jacoby
Program Manager



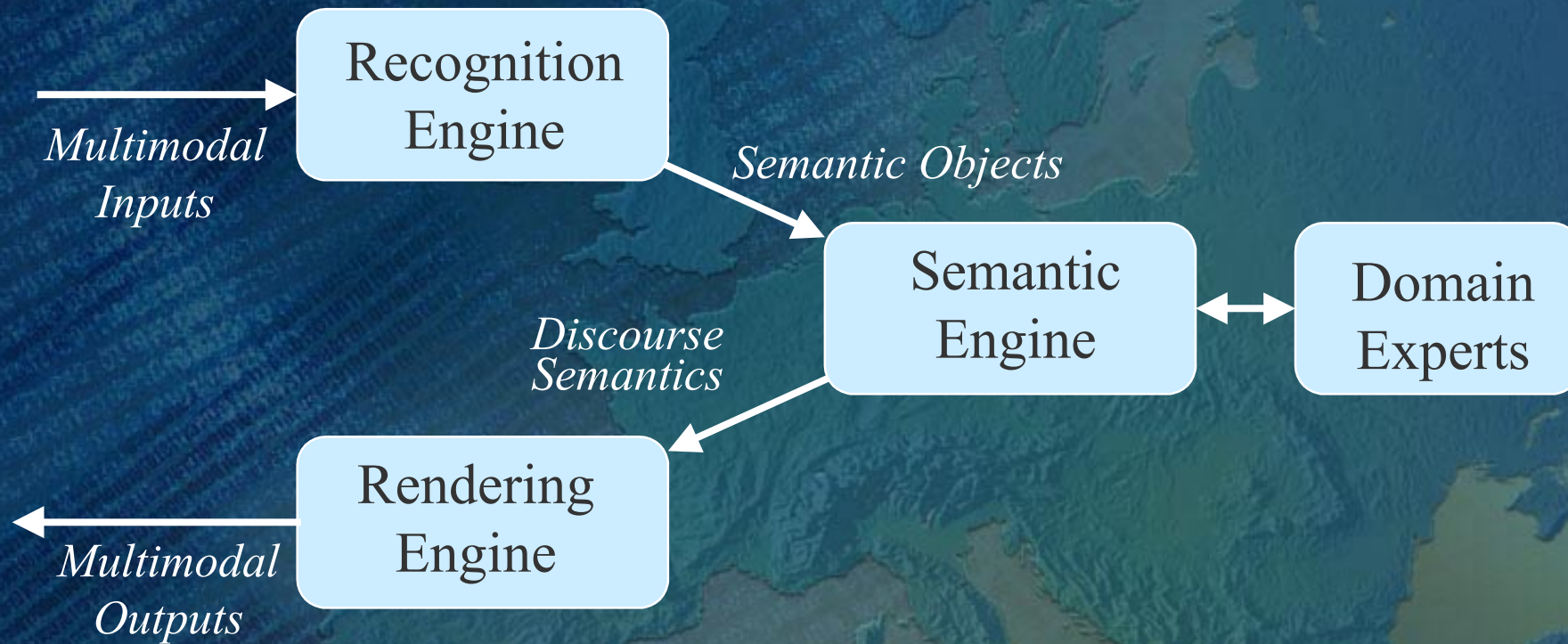
MiPad's Architecture



Mipad Demo



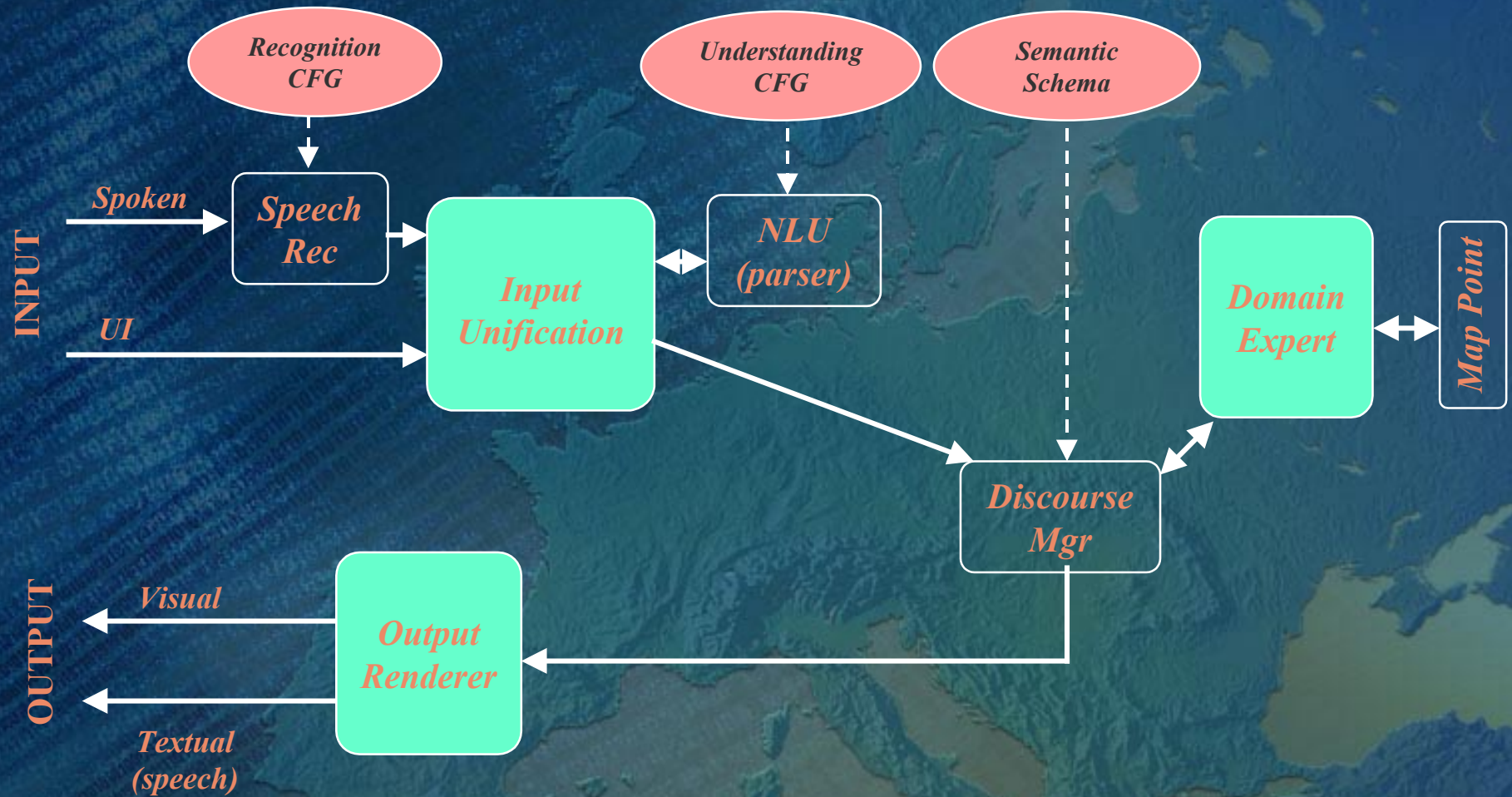
A Typical DrWho App



Mimap Demo

A topographic map of Europe, rendered in shades of blue and green to represent elevation. The map shows the continent of Europe, including the British Isles, Scandinavia, and the Mediterranean region. The text "Mimap Demo" is overlaid in a bold, orange font with a black outline, positioned in the upper left quadrant of the map.

Architecture



Author

Implement

Reuse

The Semantic Schema

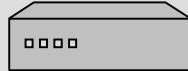
```
<sdl>
  <class type="Location" name="byFreeForm">
    <slot type="FFLoc" />
    <expert clsid="{2B5B783D-5C06-45A7-84A7-369CAC6ABE66}" />
  </class>
  <class type="Location" name="byPoint">
    <slot type="PointLoc" />
  </class>
  <class type="Location" name="byGPS">
    <slot type="GPSLoc" />
  </class>
  <class type="Route" name="RouteByLocations">
    <slot type="Location" name="Start" />
    <slot type="Location" name="End" />
    <slot type="Stops" />
  </class>
  . . .
  . . .
</sdl>
```

The MP Domain Expert

- ◆ Uses automation to communicate with MapPoint
- ◆ A translation layer between semantic objects and MapPoint objects



Web Server



Grammars

```
<rule>
<list>
<p>London</p>
<p>Seattle</p>
</list>
</rule>
```

Prompts

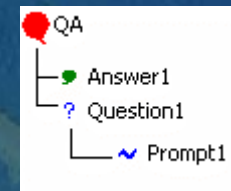
WAV database



ASP.net dialogs

```
<%@Page
language="c#"%>
<html>
<SDN:QA>
<Question ... />
<Answer ... />
</SDN:QA>
</html>
```

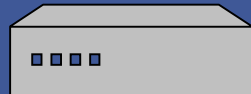
Kokanee SDK



Kokanee Tags Clients



telephony server



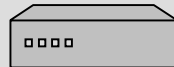
pocket clients



PC clients



Speech Server



Voice Output

SAPI
Speech Core

Speech Rec

SAPI-
SOAP



Kokanee Tags

```
<html>
  <prompt>
    Welcome to SDN
  </prompt>
  <reco>
    <grammar src= .../>
  </reco>
</html>
```

- ◆ **Lightweight addition to visual markup**
 - ❖ complement any markup
 - ❖ future proof
 - ❖ enhances web model
 - ❖ same markup, same authoring
 - ❖ independent of TTS/grammar formats
- ◆ **Multimodal**
 - ❖ reuse UI browser model directly
 - ❖ host markup intact