

# Dario Di Mauro

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XXX Cycle - II year presentation

## A framework to support multiple levels of Interaction

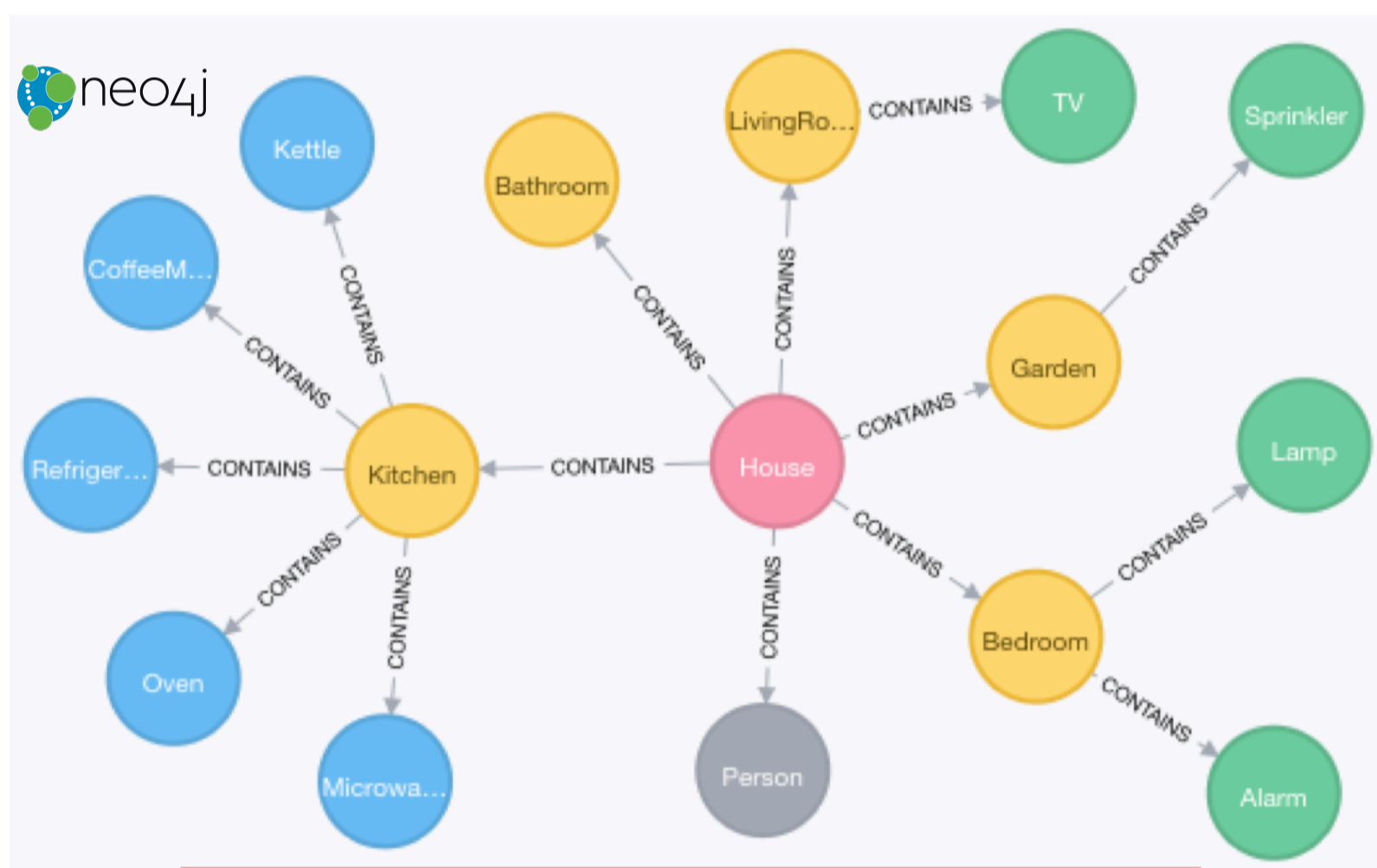
Ubiquitous computing is extending its applications to an increasing number of domains.

Smart systems have to respond to user's needs according to experts of that domain



The interaction is focused on users and systems should support natural interfaces (NUI)

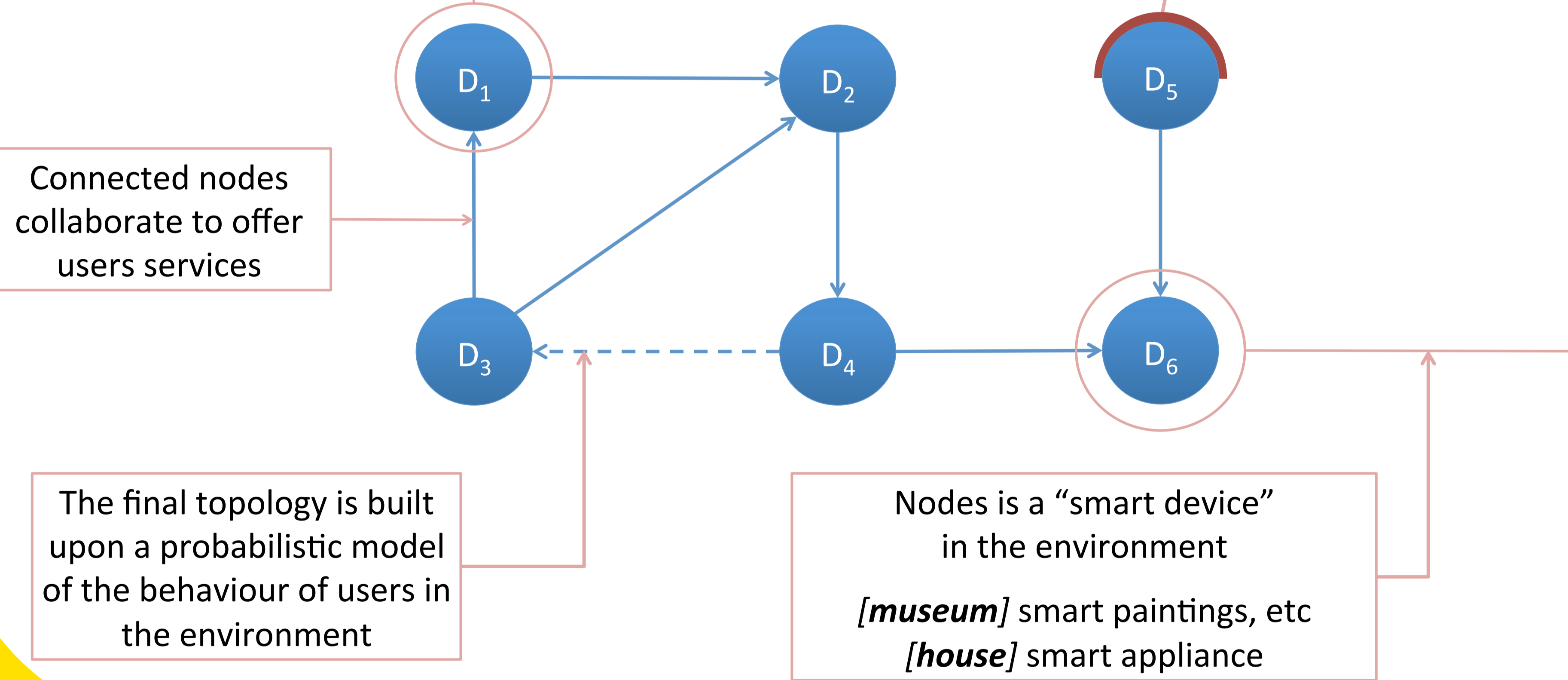
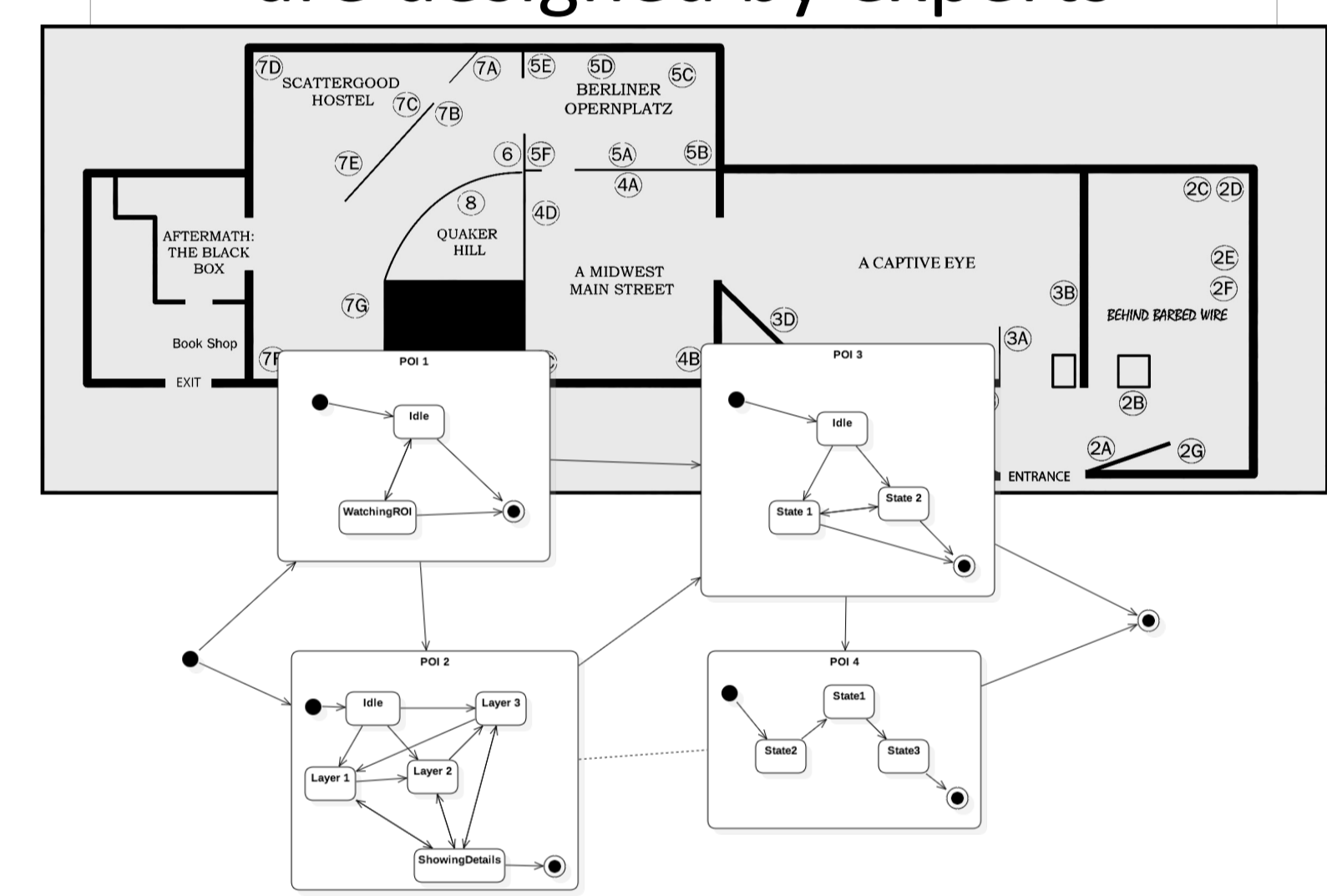
### Context representation



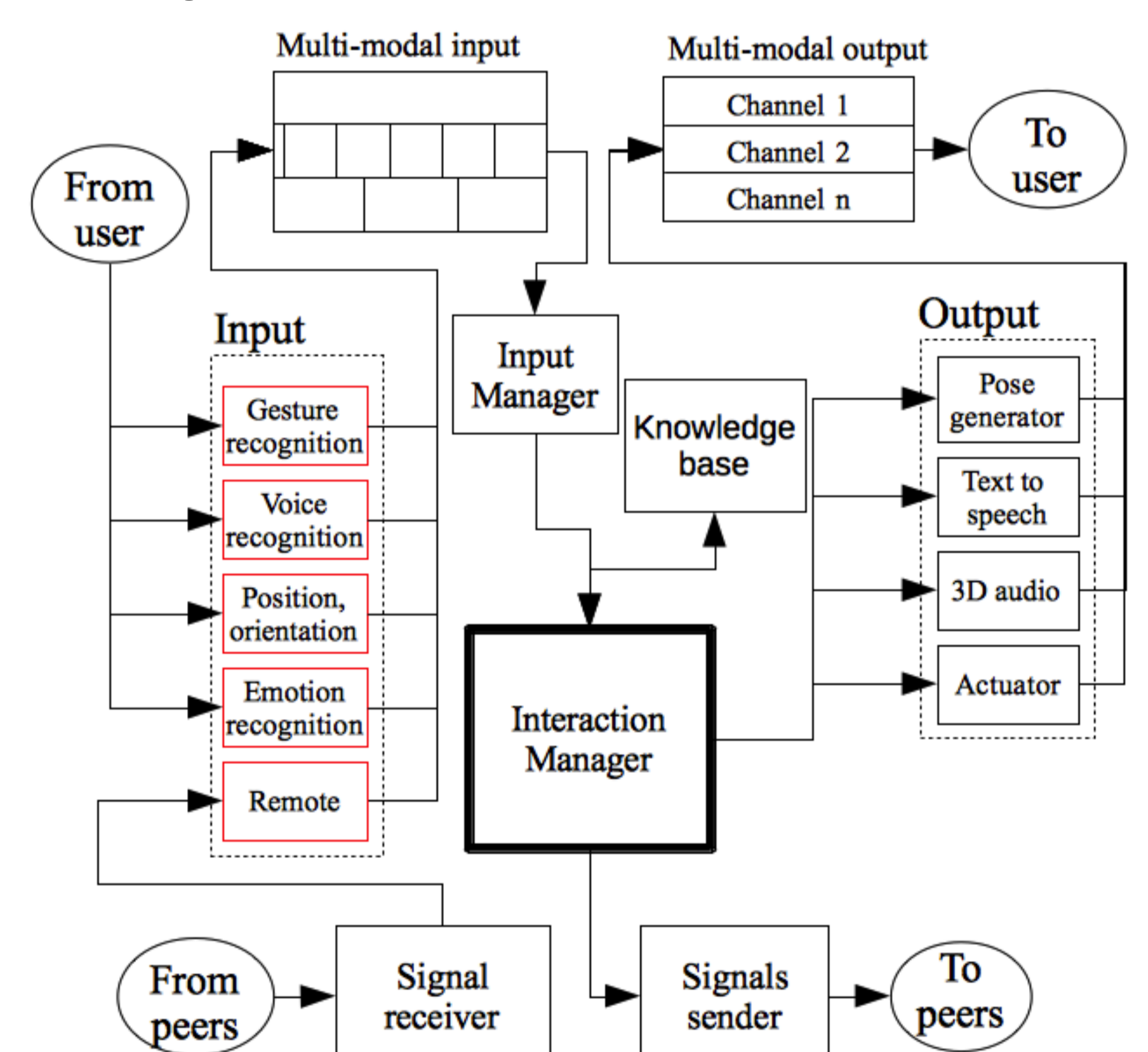
### Users interact through natural interfaces



### Connections and behaviour are designed by experts



### Developed architecture of a smart device



Interaction in smart homes is currently tested in collaboration with Juan Augusto and Carl James-Reynolds, Middlesex University



Collaboration with experts to design interaction in smart-museums

Validation of the system in scenarios where people interact with intelligent devices

Validation of the developed architecture with simulated crowds of users



Integration with high-level graphical tools to design the interaction