

Modeling Astronaut Decision-Making and Judgment during Lunar Landing

Zarrin Chua

Georgia Institute of Technology

31th Soar Workshop

June 2011



Committee

Dr. Karen M. Feigh

Dr. Robert D. Braun

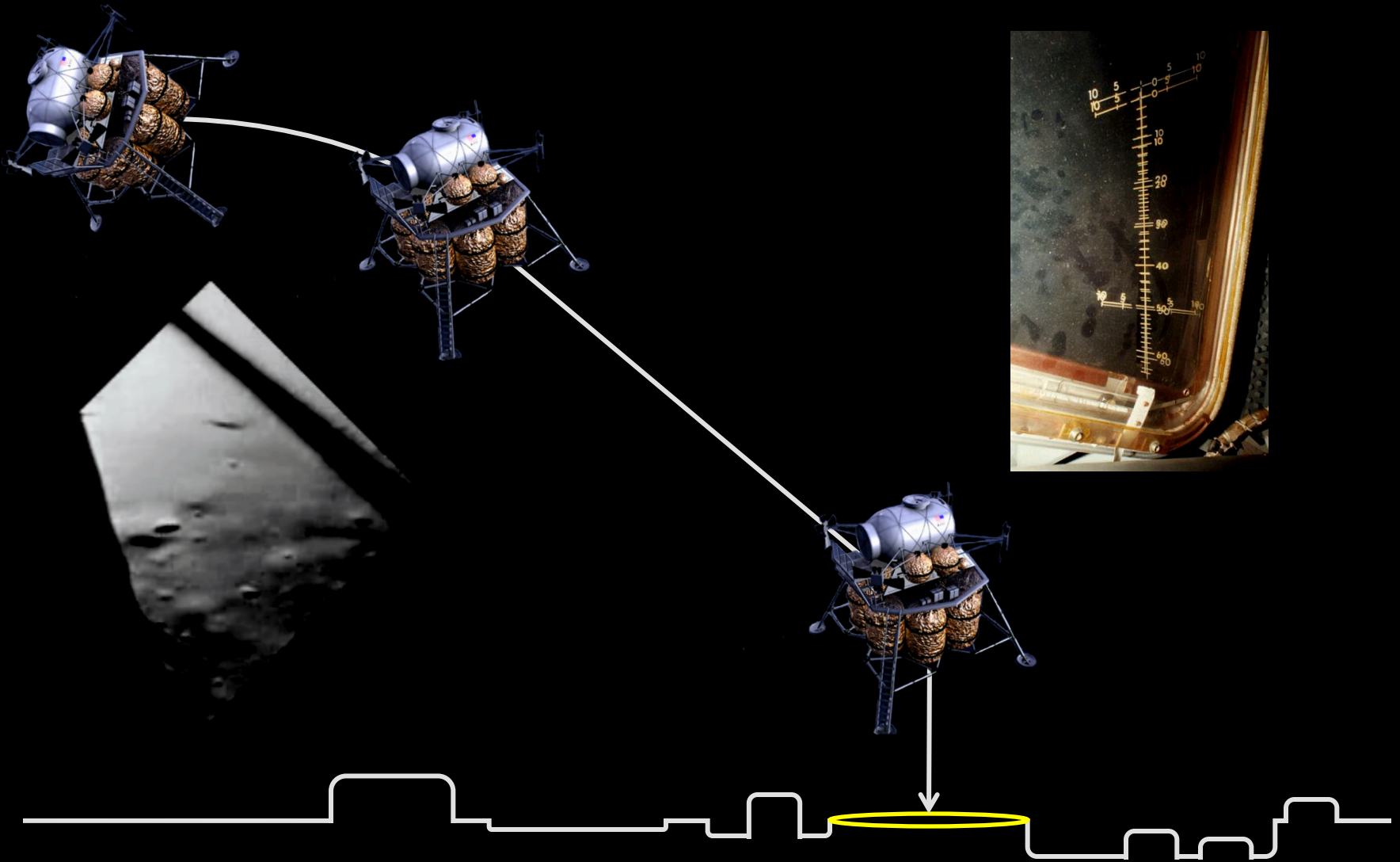
Dr. Amy R. Pritchett



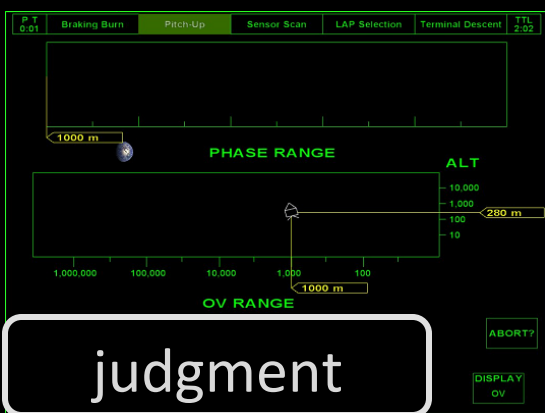
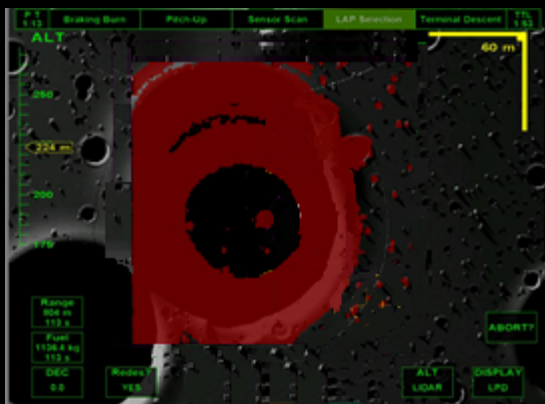
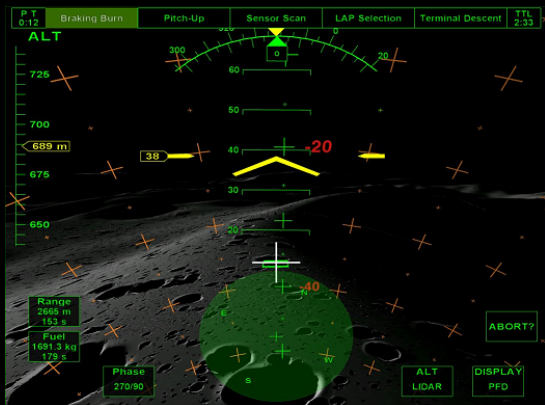


“ In manned vehicles, the same performance goals come easier in a system not handicapped by idiosyncrasies of the human being...”
NASA Assoc. Admin. Richard Horner

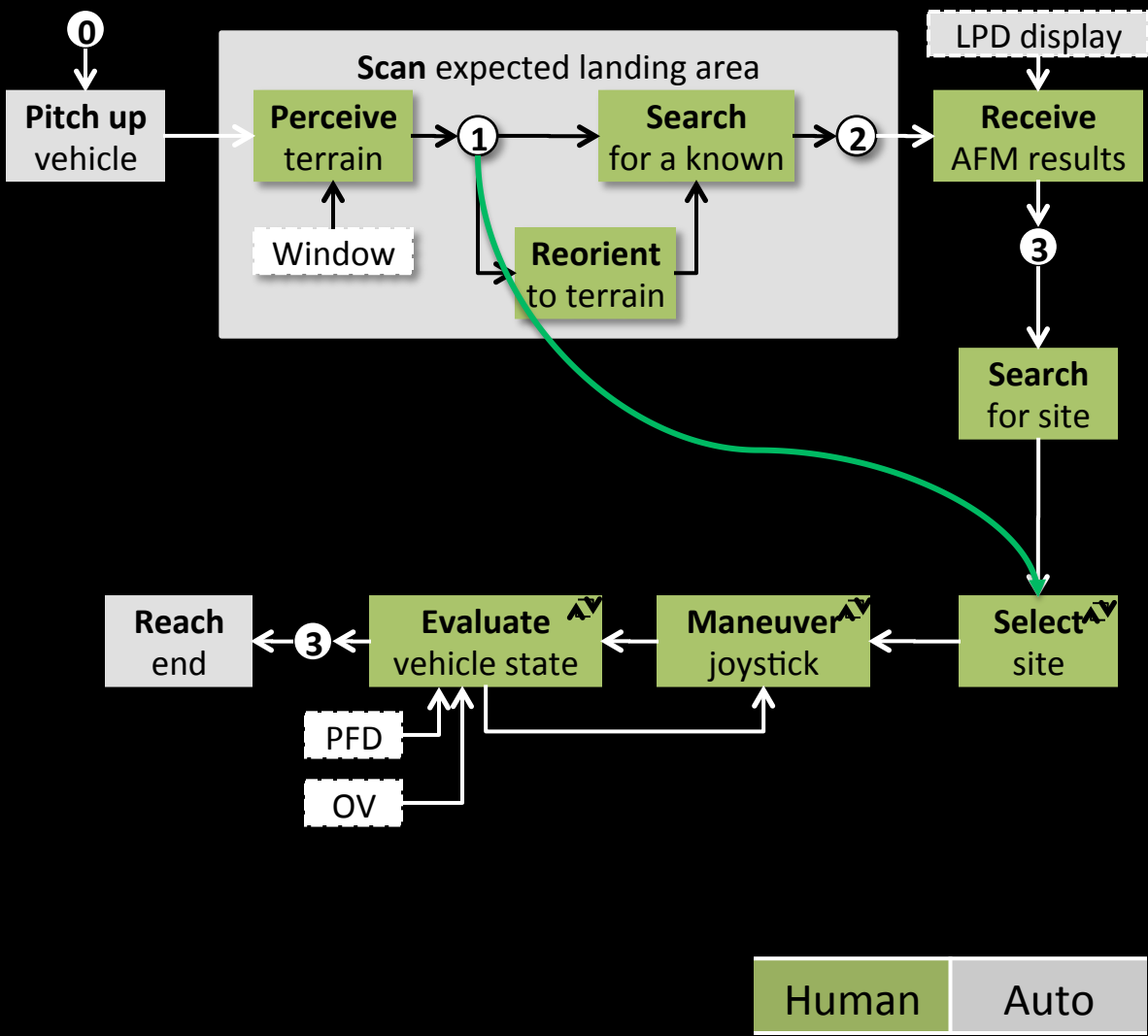
“I was just absolutely adamant about my God-given right to be wishy-washy about where I was going to land.”
Cdr Neil Armstrong



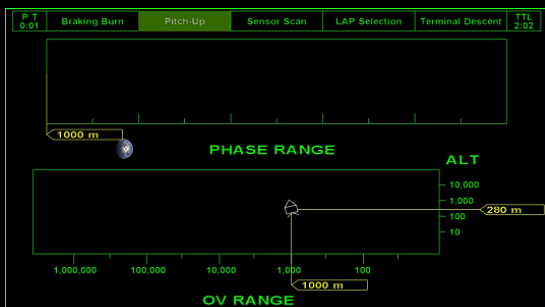
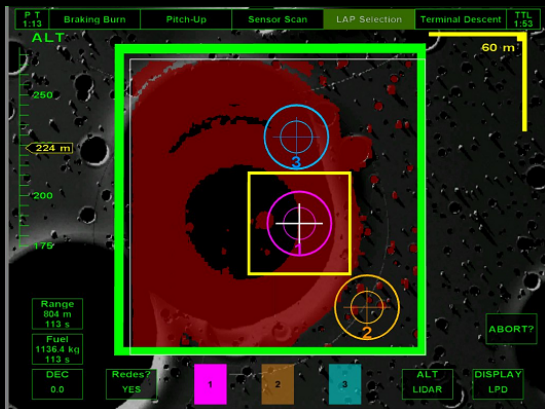
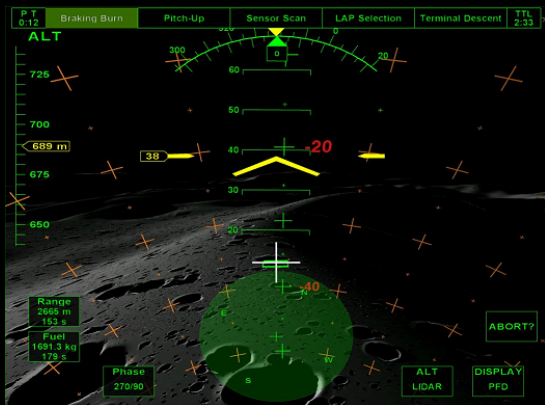
Landing Point Designation (LPD)



apollo-like

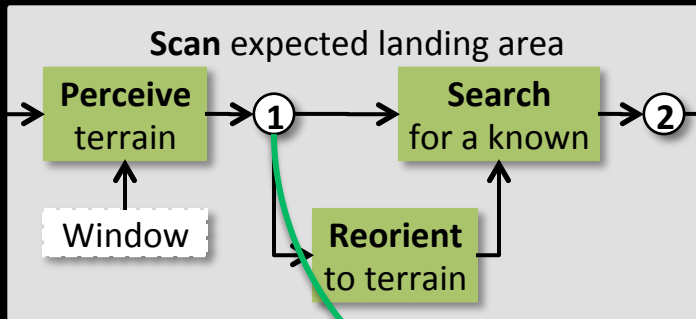


judgment



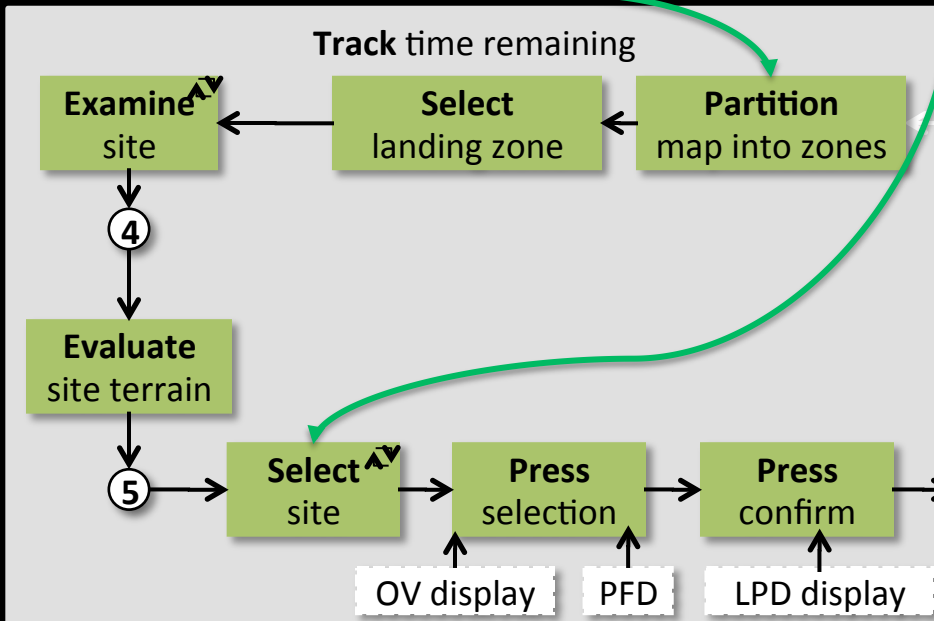
decision-making

0
Pitch up vehicle



moderate

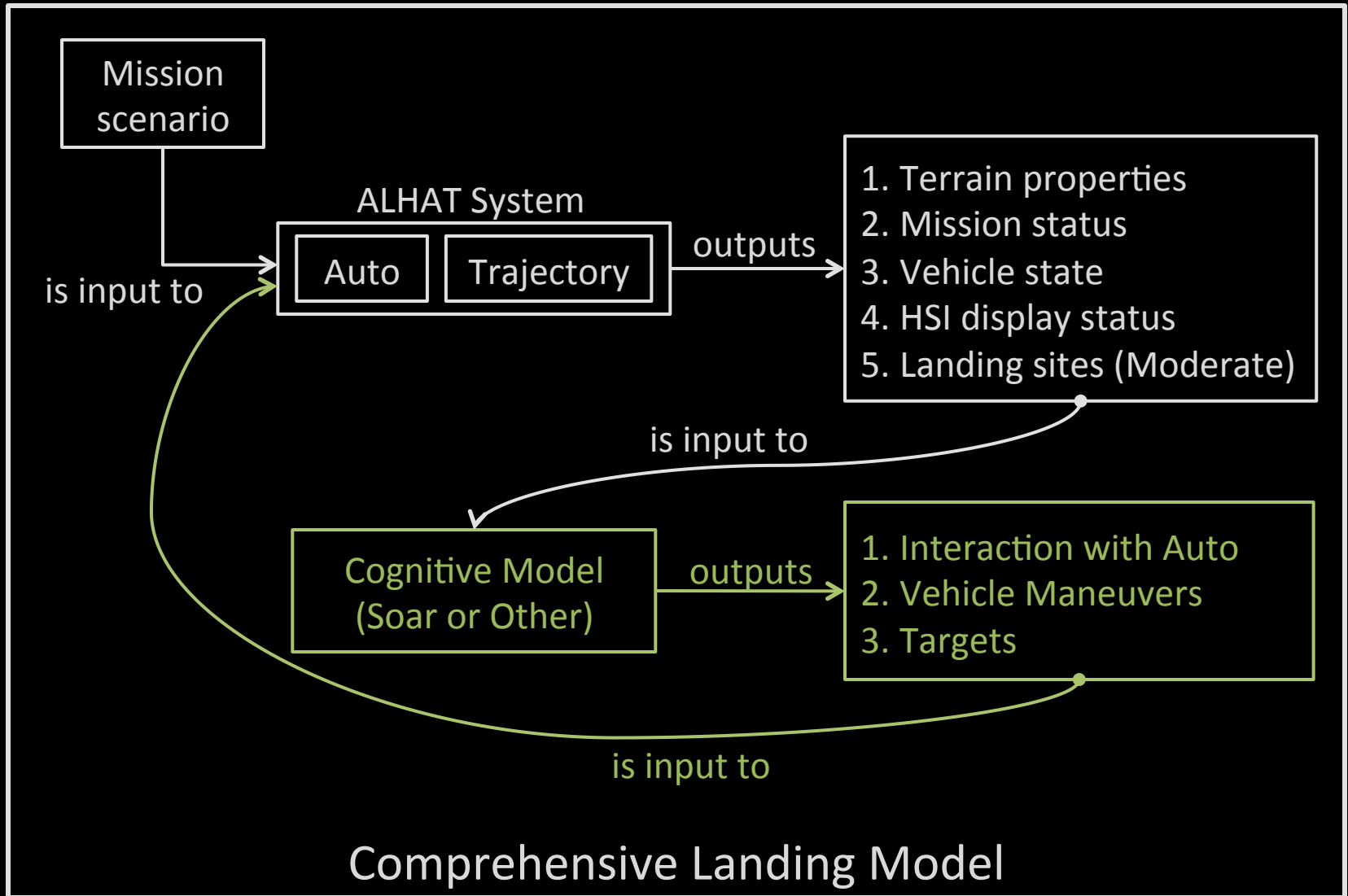
LPD display



3

Reach end

Human Auto



Is Soar the appropriate tool?

What development is needed to model the
apollo-like and moderate cases?

Can Soar communicate well with other
software?