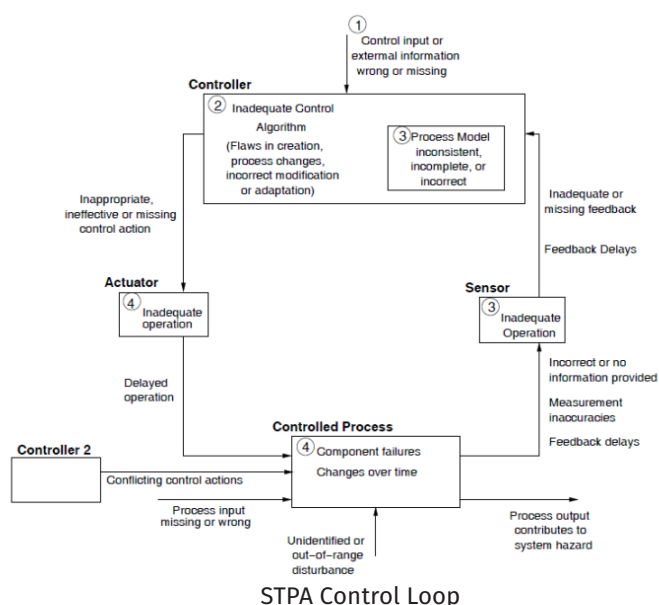
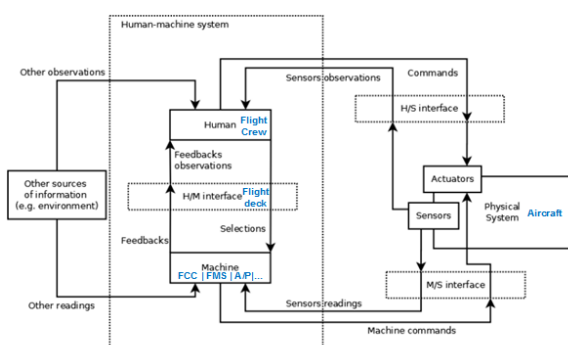
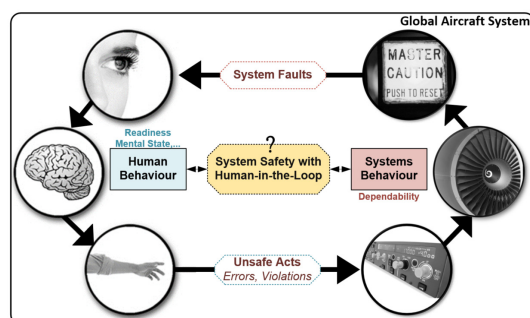











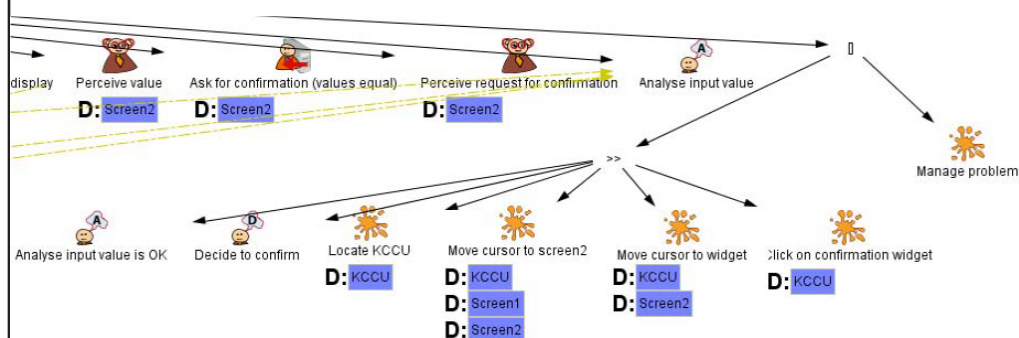
GOAL	Develop a methodology to assess the overall dependability of an aircraft system with the human-in-the-loop
TECH SKILLS	<ul style="list-style-type: none"> <li>• <i>Safety engineering</i> - System-Theoretic Process Analysis (STPA method)</li> <li>• <i>Task Modeling</i> - Human-centered Assessment and Modeling to Support Task Engineering for Resilient Systems (HAMSTERS)</li> <li>• <i>Discrete Event Modeling</i> - Petri Nets</li> <li>• <i>Formal method for system-level modelling and analysis</i> - EVENT-B</li> </ul>

Identify unsafe control actions in aircraft procedures (STPA)



## Model pilot tasks in nominal and abnormal situations (HAMSTERS)

Task type	Icons in HAMSTERS task model
Abstract task	 Abstract task
System task	 System task
User task	    User task      Perceptve task      Cognitive task      Motor task
Interactive task	   Interactive input task      Interactive output task      Interactive input output task



**Figure 9: Detailed set of tasks corresponding to the monitoring activity of the pilot**