



Software engineering research lab



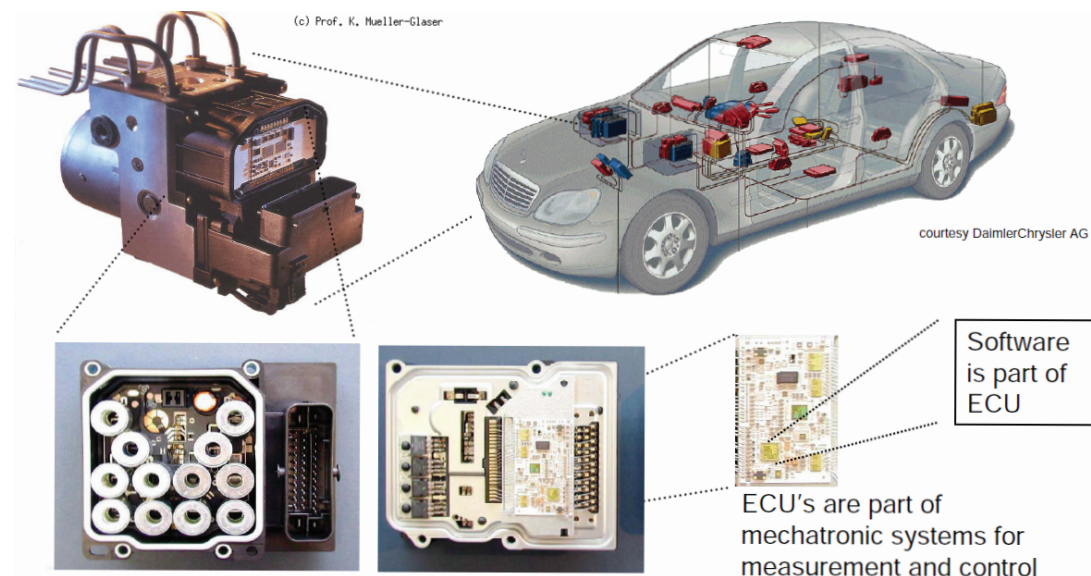
Models

The screenshot displays the MAMMOTH software interface, which is used for simulating wastewater treatment plants. The interface is divided into several windows:

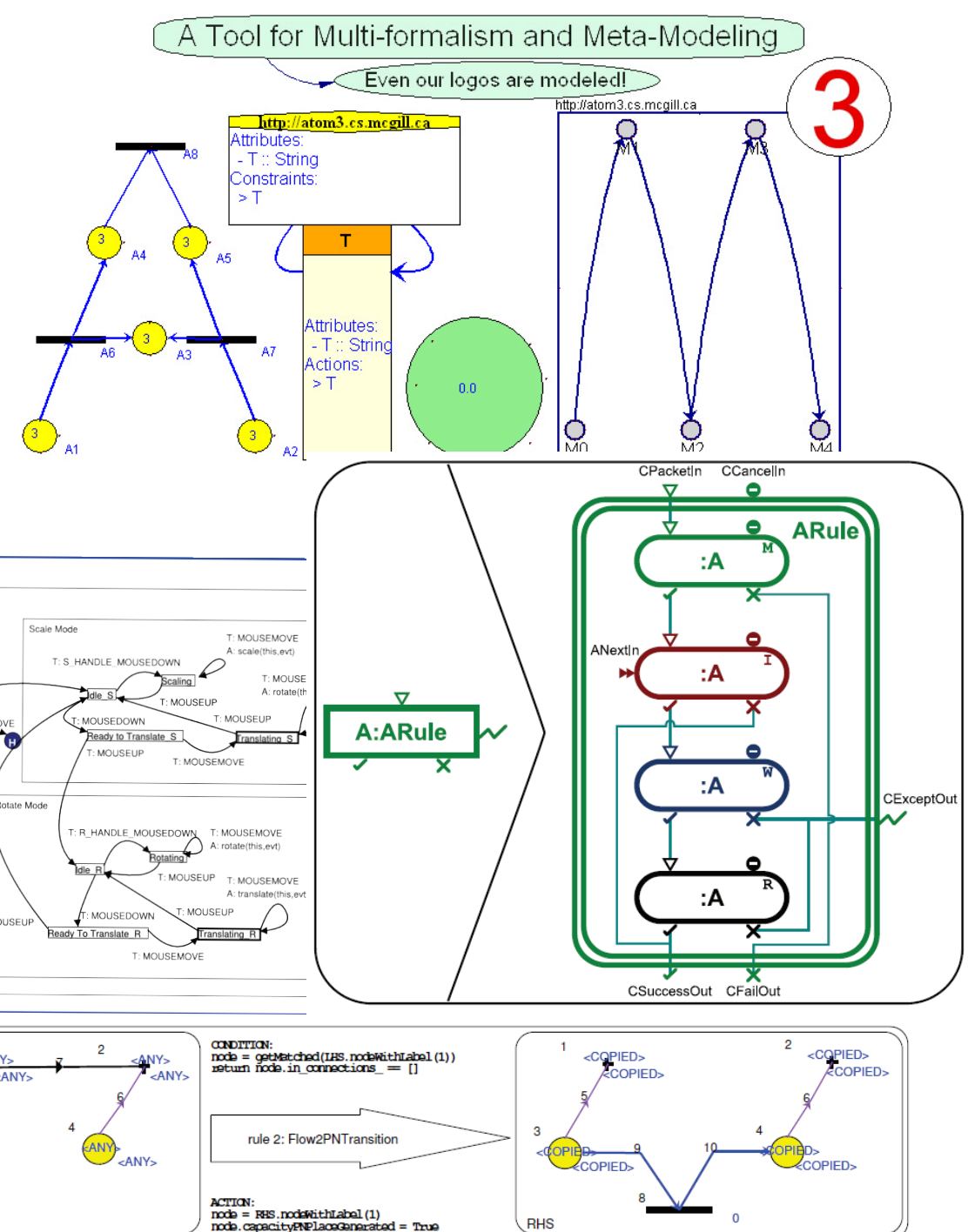
- Model Properties:** A window showing the list of components in the model. It includes columns for Name, Value, Unit, Description, Lower bound, Upper bound, and File. The components listed are:

Name	Value	Unit	Description	Lower bound	Upper bound	File
LP	2.00		Fractor: CD-Dissas Converted T...	0	1	
Q Pump	37,000	m ³ /d	Extracit. in Recult. Flowrate	0	1,797,8313+8623E303	
b H	0.7	/d	D-Exay Coefficient For Heteroph...	0	25	
b A	2.01	/d	D-Exay Coefficient For Heteroph...	0	25	
- Simulation:** A window showing a graph of temperature (°C) over time (h). The graph displays three data series:
 - Temperature (°C) (blue line)
 - Temperature (°C) (red line)
 - Substrate COD (g) (green line)
- Main Workspace:** A window showing a process flow diagram of the wastewater treatment plant. It includes components like 'Inlet', 'Pump', 'Reactor', 'Settler', and 'Effluent'. The diagram shows the flow of wastewater through the plant, with various parameters and units indicated.

The word **MAMMOTH** is overlaid in large red letters at the bottom of the image.



Meta-modelling and model transformation



Theory and foundations of multi-formalism modelling, formalism weaving, formalism transformation, ...

