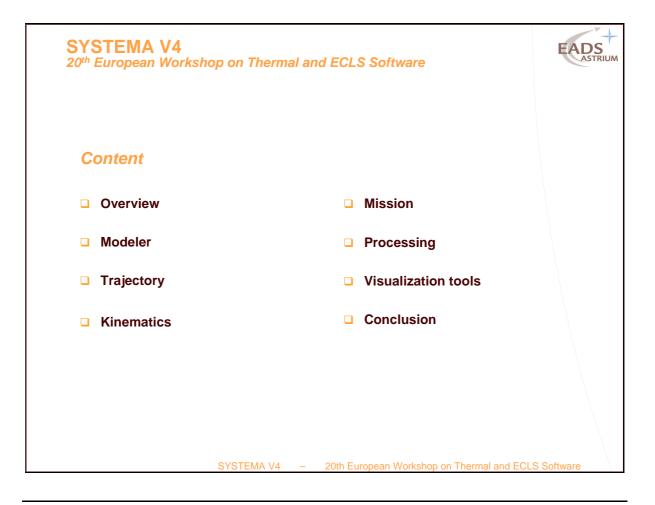
## **Appendix D**

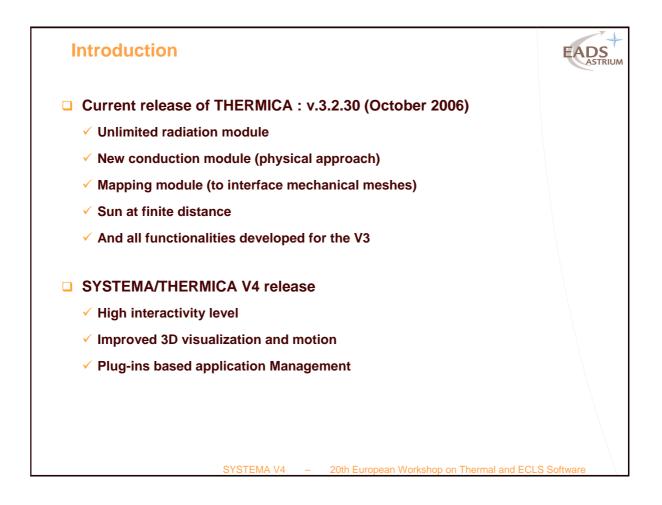
## SYSTEMA/Thermica V4

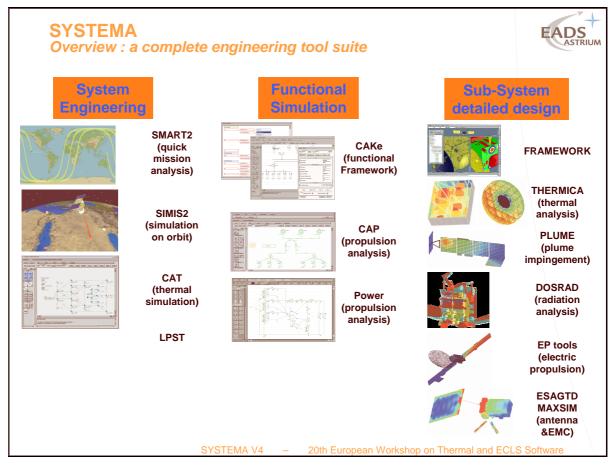
Timothée Soriano (Astrium, France)



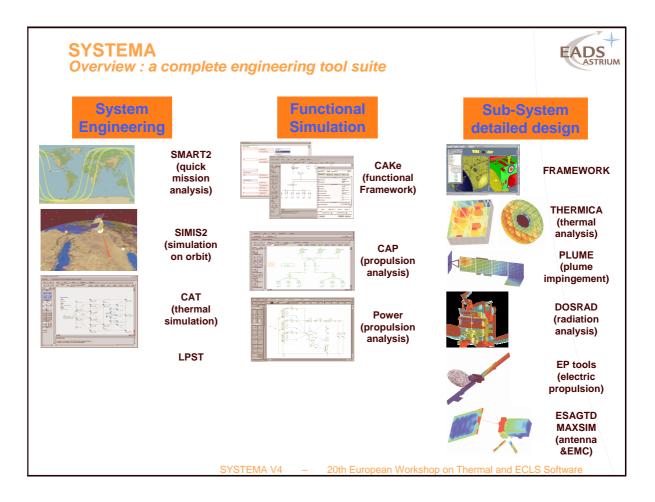


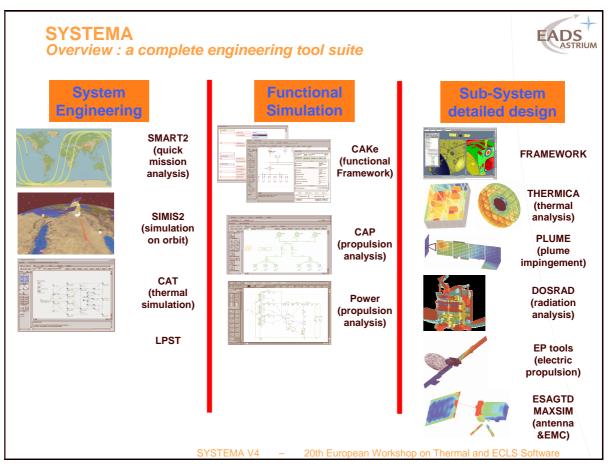
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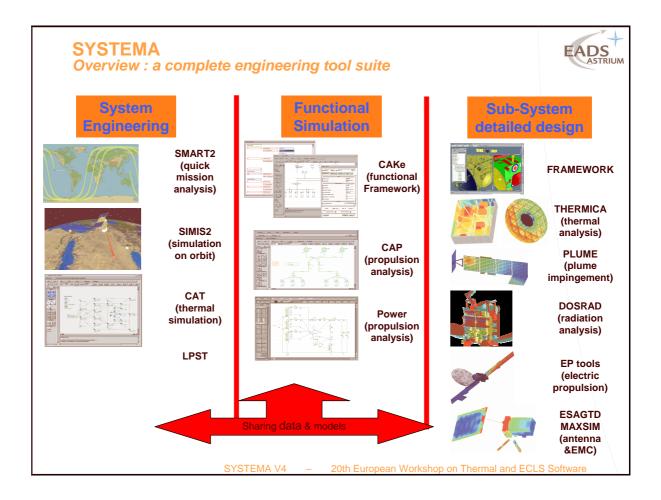


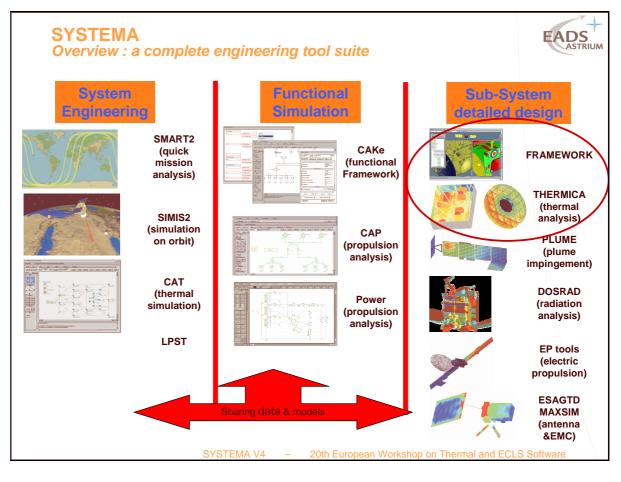


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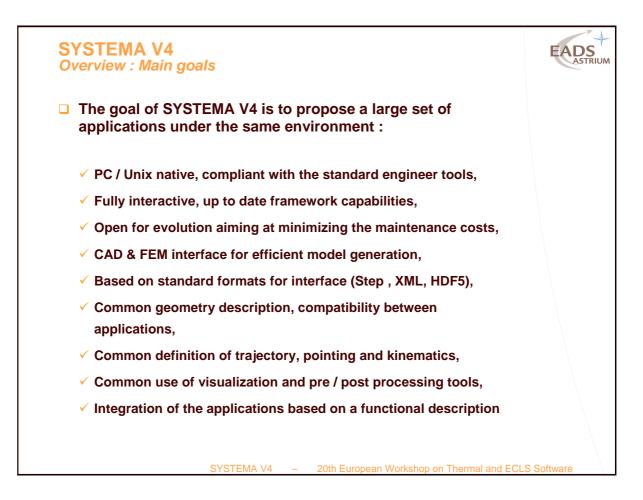


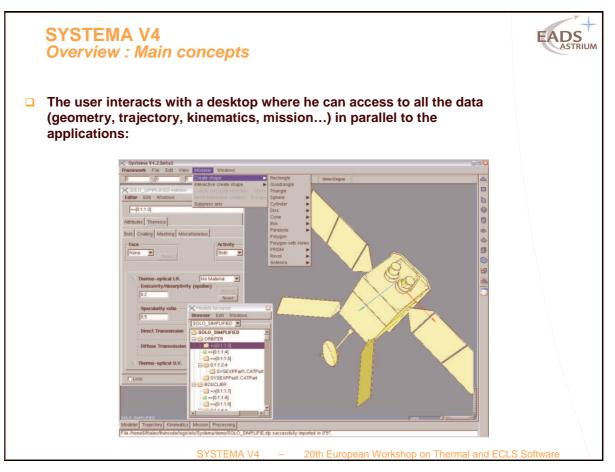


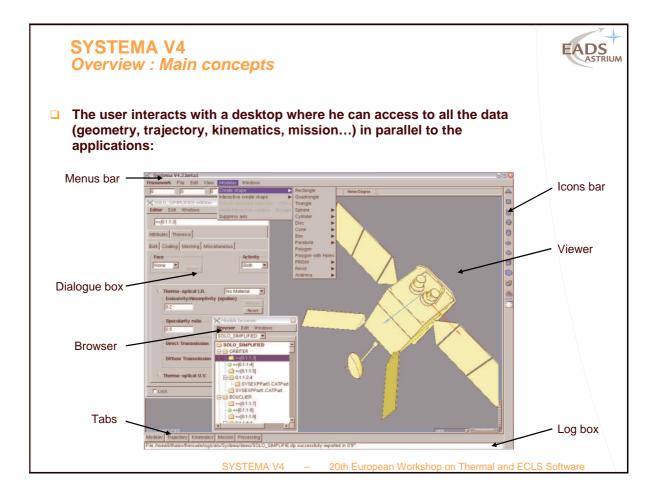


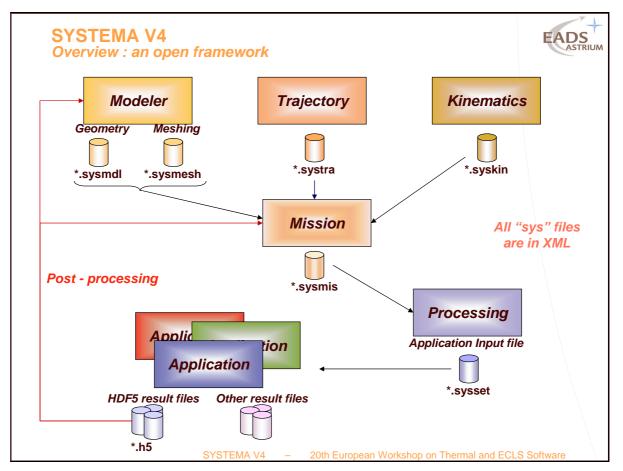


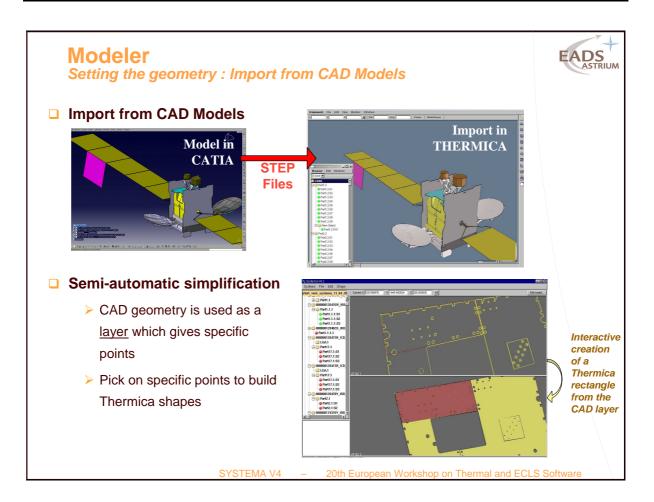
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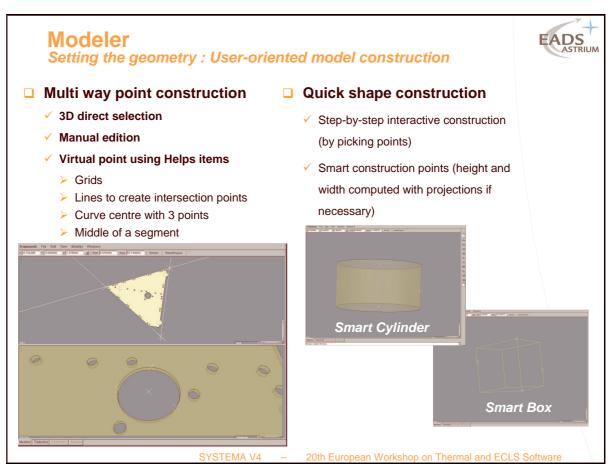


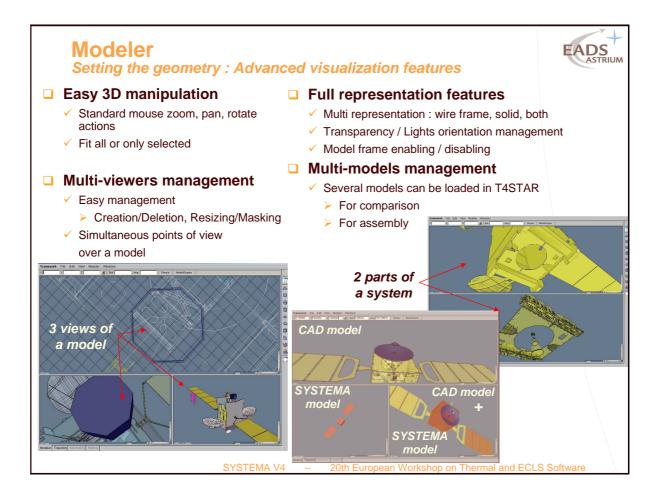


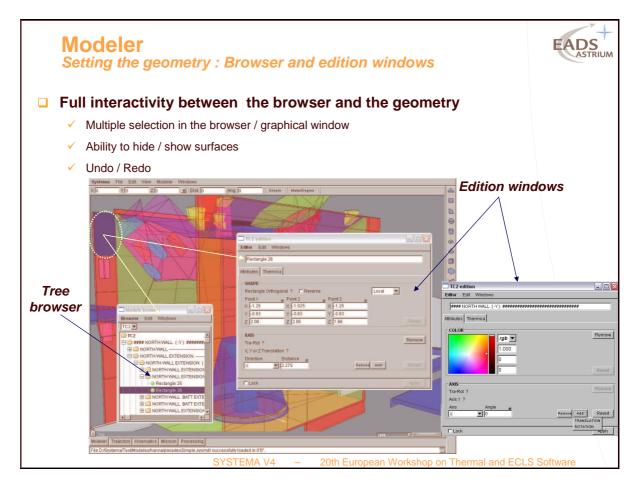


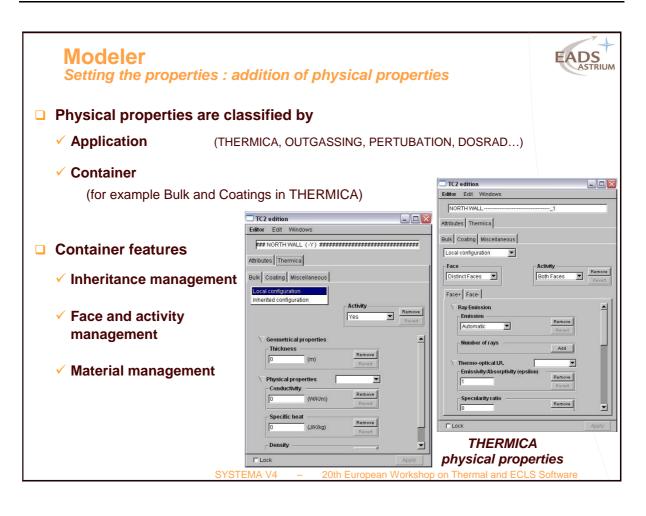


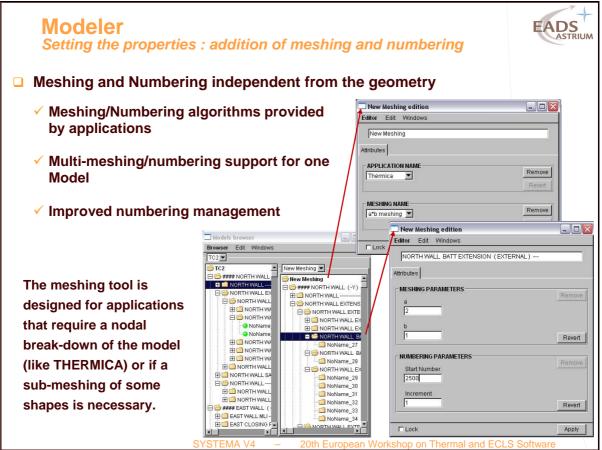


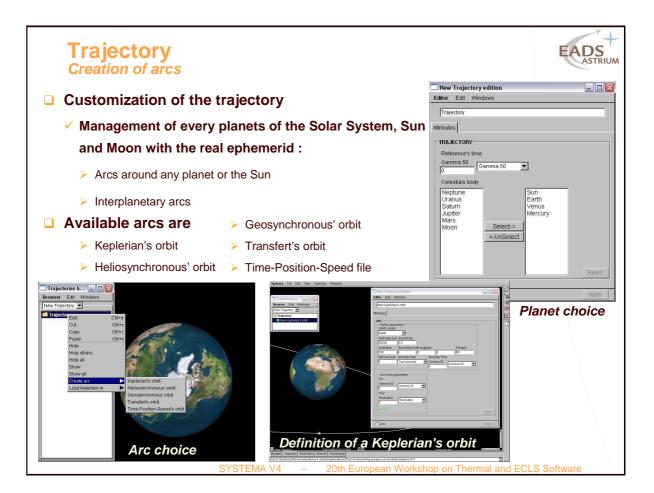


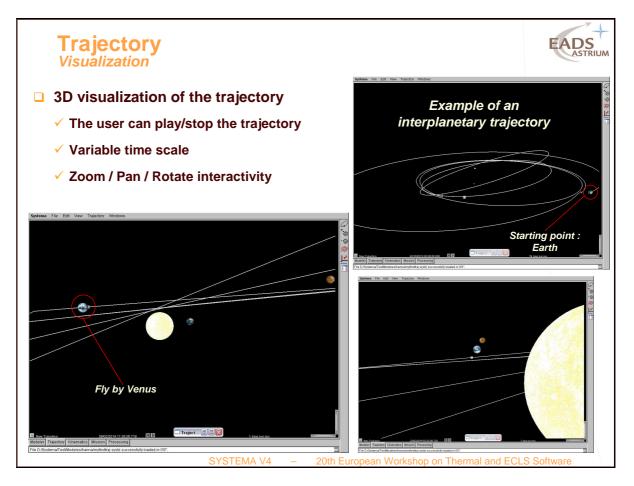


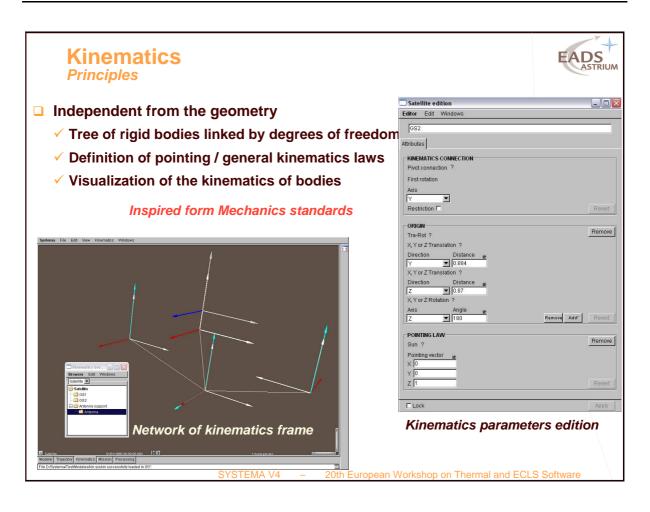




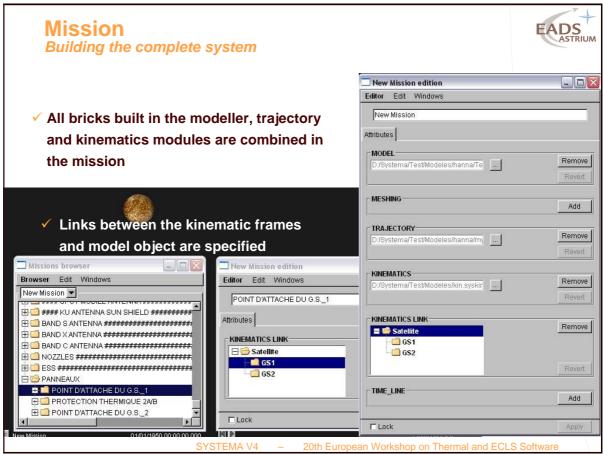


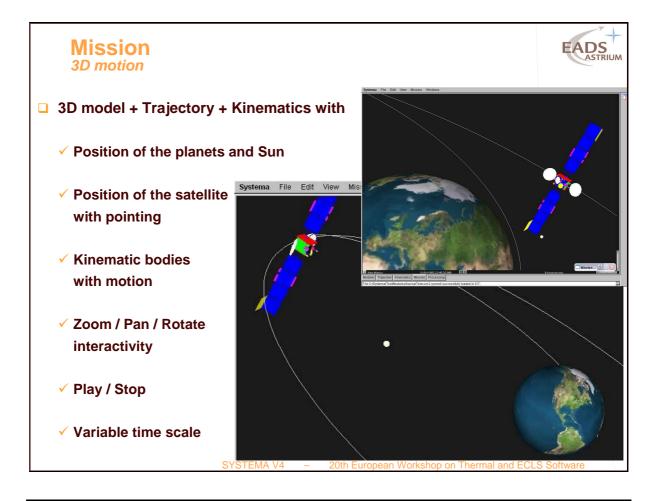


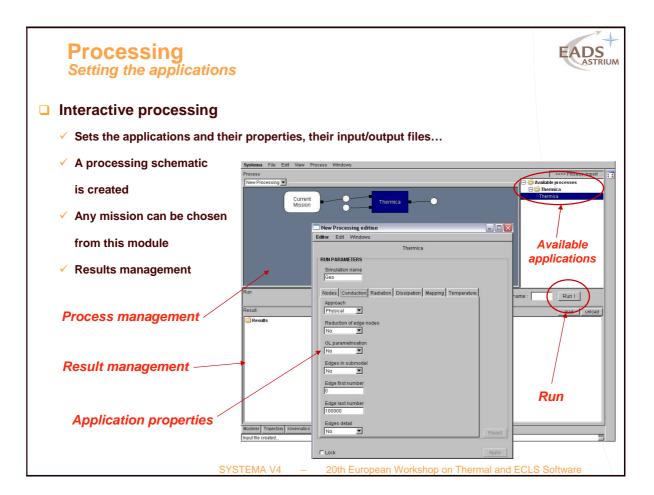


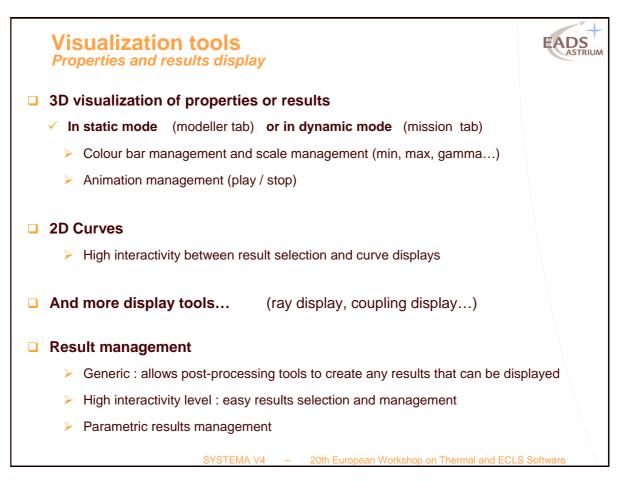


Kinematic bodies : t	ypes o	f link	
Pivot connection	1 rotation of freedom		
Ball pivot	2 rotations of freedom		
Ball joint	3 rotations of freedom		
Free connection	3 rotations + 3 translations of freedom		
<ul> <li>Possibility of constr</li> </ul>	aints o	n any degree of freedom	
Pointing and Attitud	le laws		
Orbit regular momentum		Equatorial projection of Sun	
Orbit velocity vector		≻ Sun	
Orbit center		Ecliptic north pole	
Planet		Regular spin around vector	
Planet north pole		Transformation defined in a file	
Planet vernal point			
Possibility of combi	nina tw	o laws on the same kinematic body	









Conclusion Roadmap		EADS
<ul> <li>SYSTEMA / THERMICA V4 beta release :</li> <li>For evaluation</li> </ul>	Q1 2007	
<ul> <li>SYSTEMA / THERMICA V4 full release</li> <li>Full THERMICA with all modules</li> </ul>	Q2 2007	
Future evolutions (2007-2009) :		
<ul> <li>Increase the capacity in terms of visualization</li> </ul>	on / animation	
<ul> <li>Management of model assembly</li> </ul>		
Management of Timeline, events		
<ul> <li>Improved conduction module (edge and resimanagement)</li> </ul>	istance contact	
✓ Schematic		
✓		
SYSTEMA V4 – 20th Europe	an Workshop on Thermal and E	CLS Software