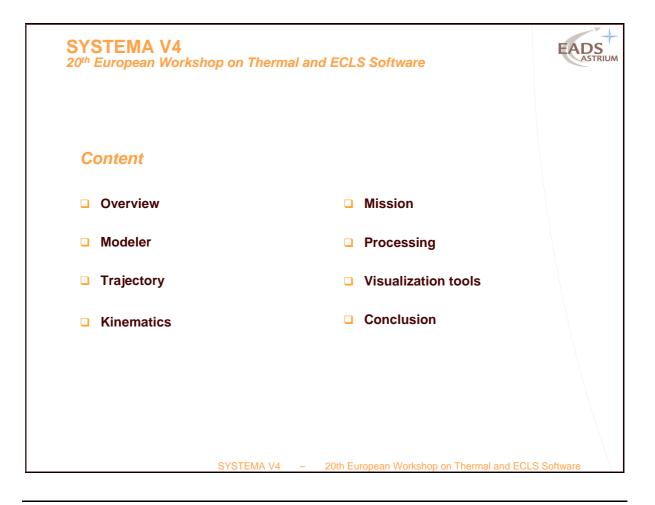
Appendix D

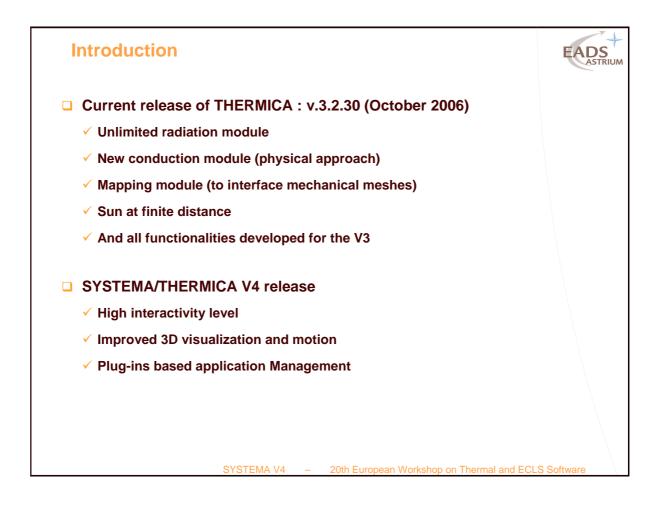
SYSTEMA/Thermica V4

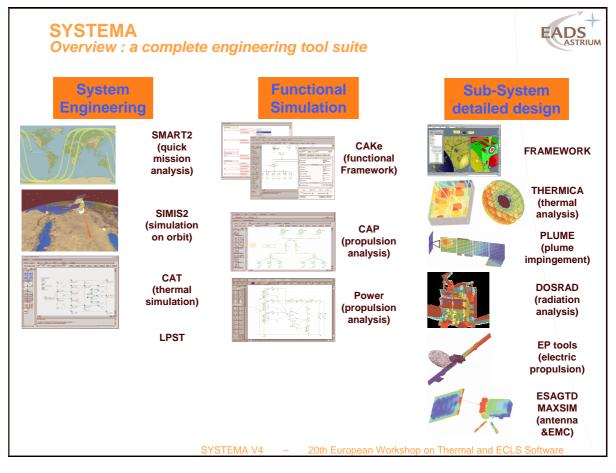
Timothée Soriano (Astrium, France)



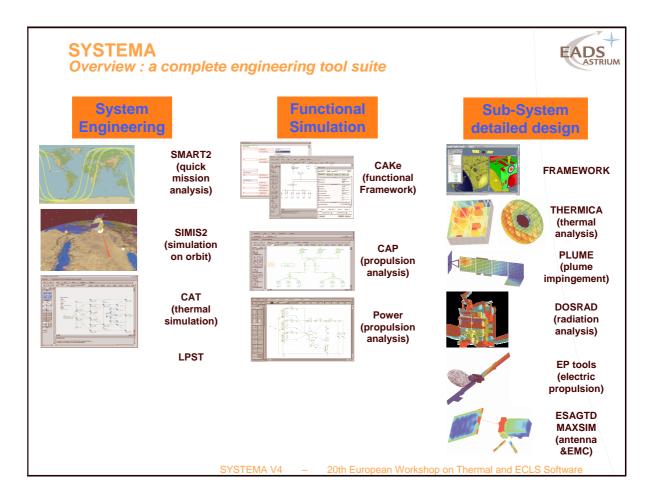


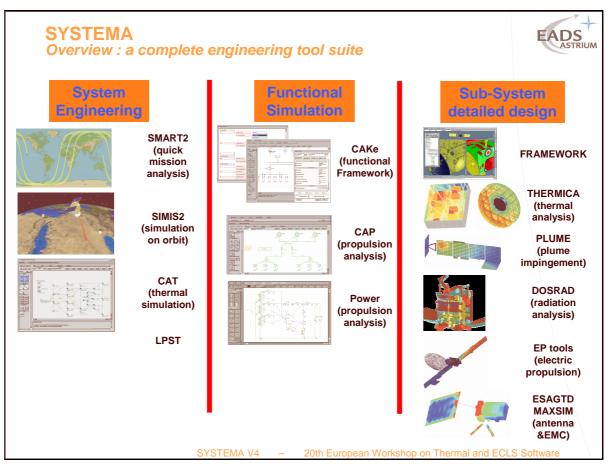
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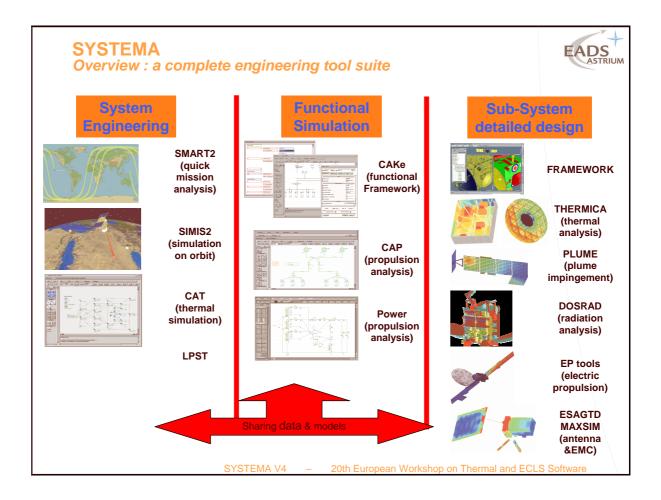


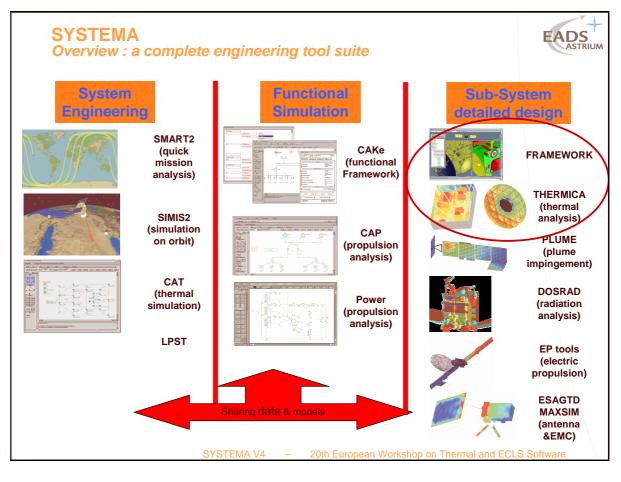


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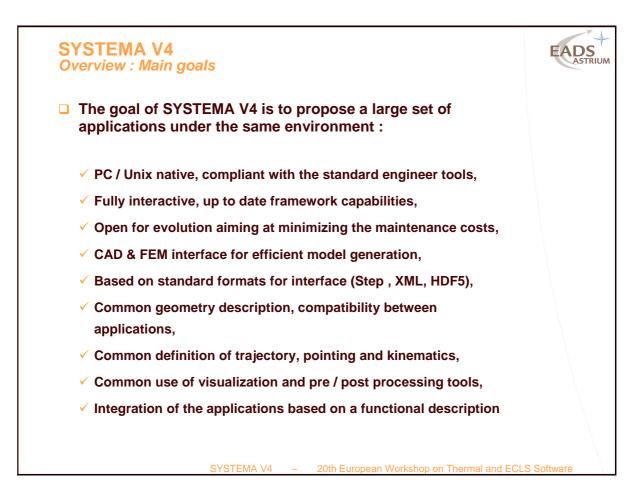


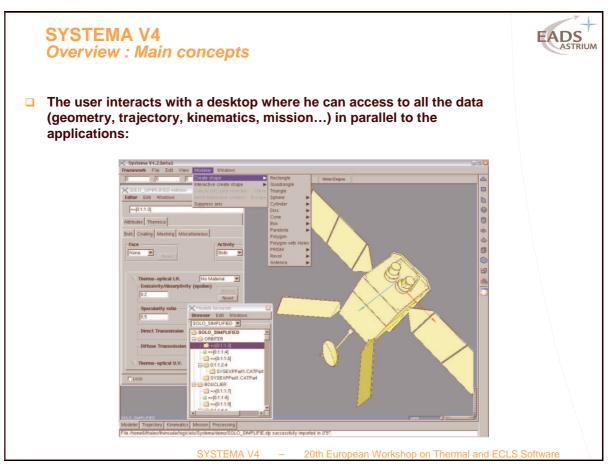


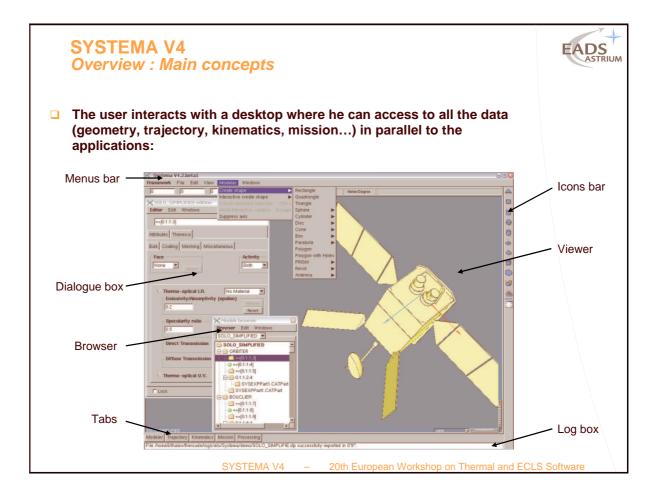


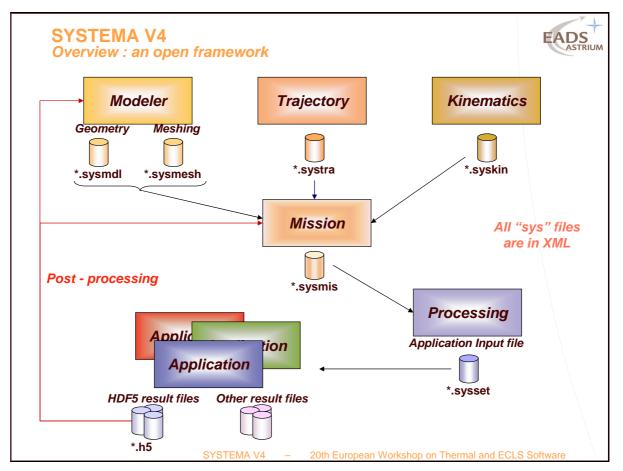


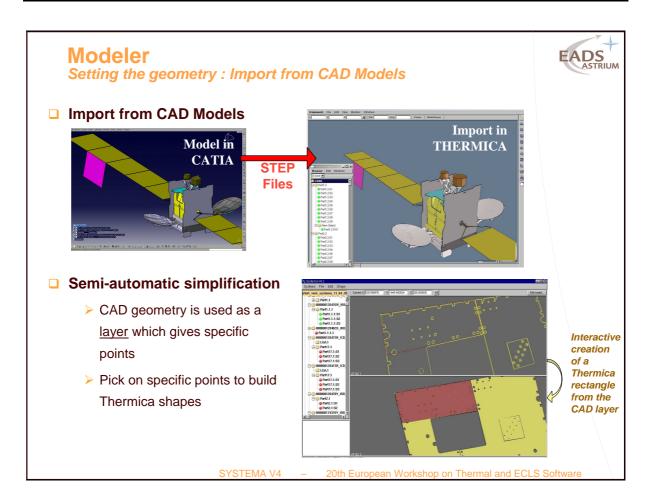
20th European Workshop on Thermal and ECLS Software

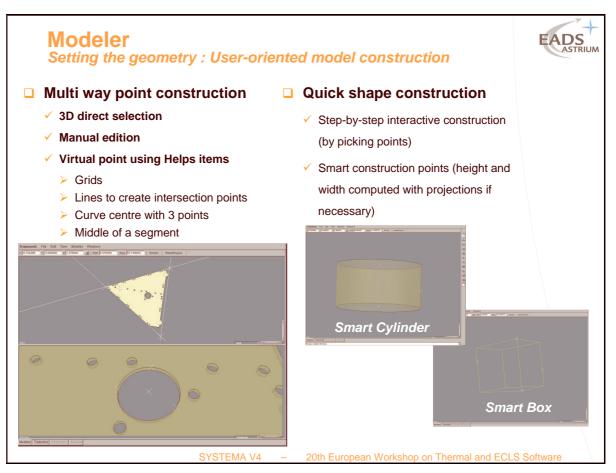


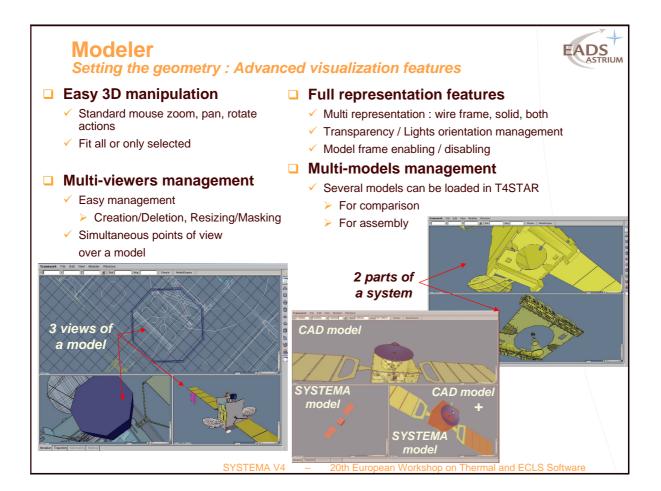


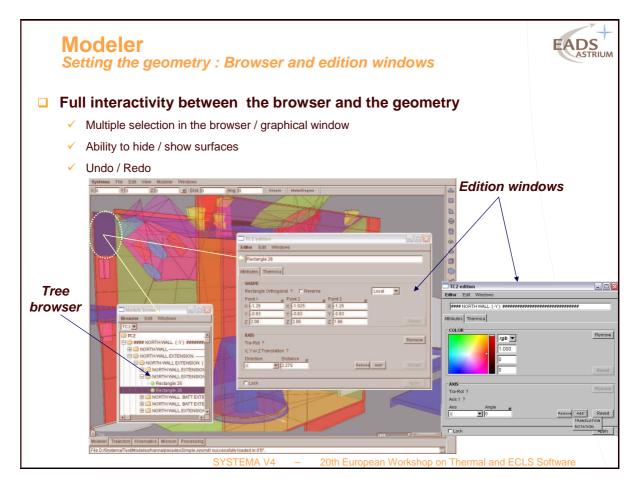


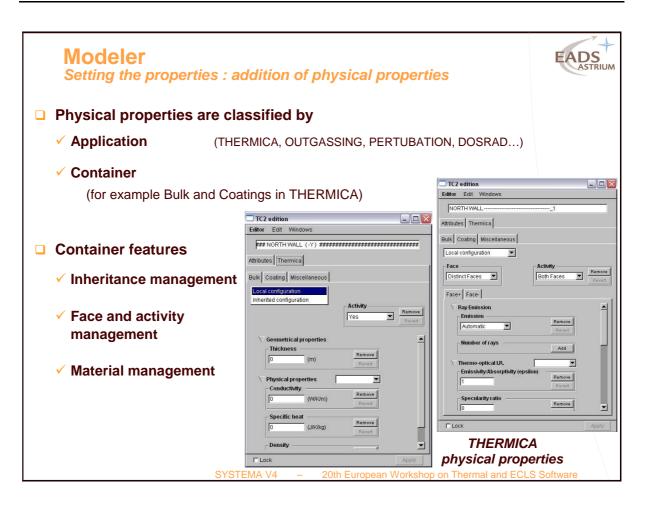


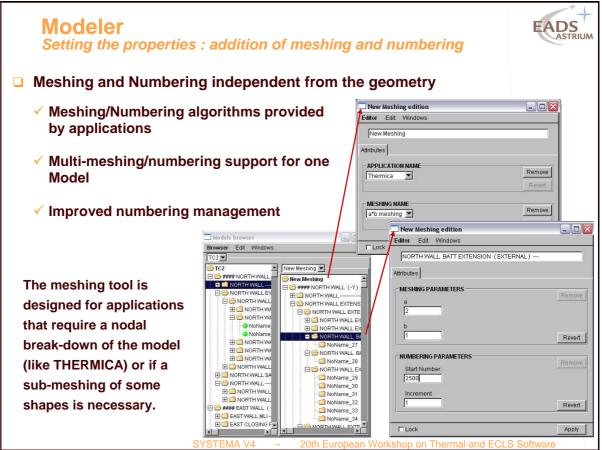


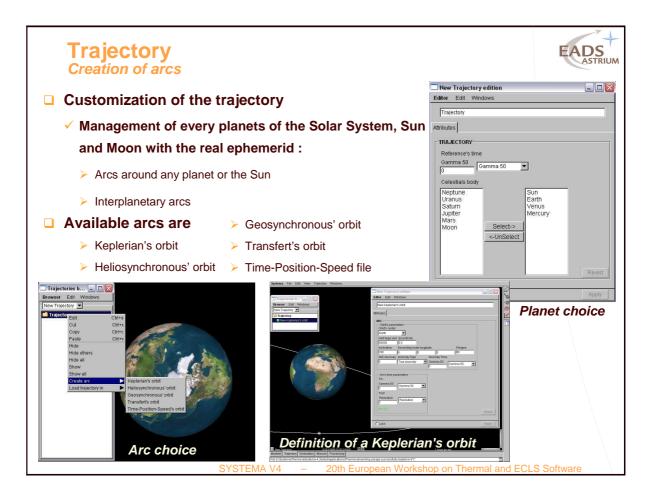


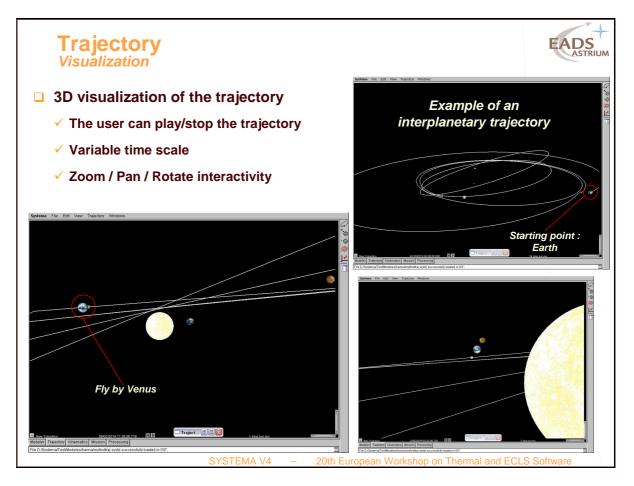


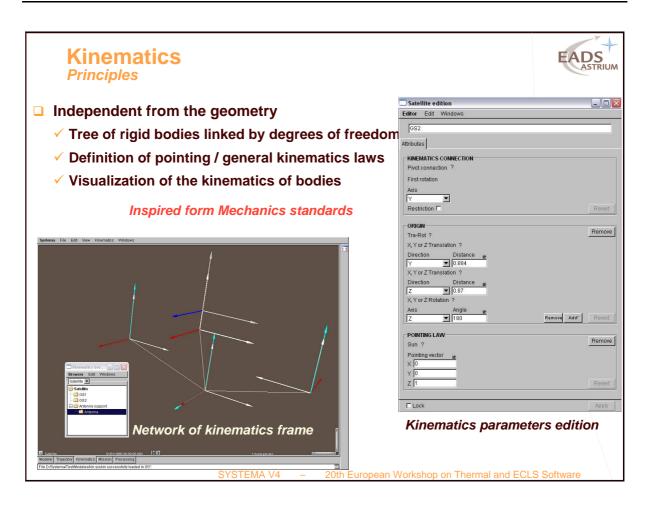




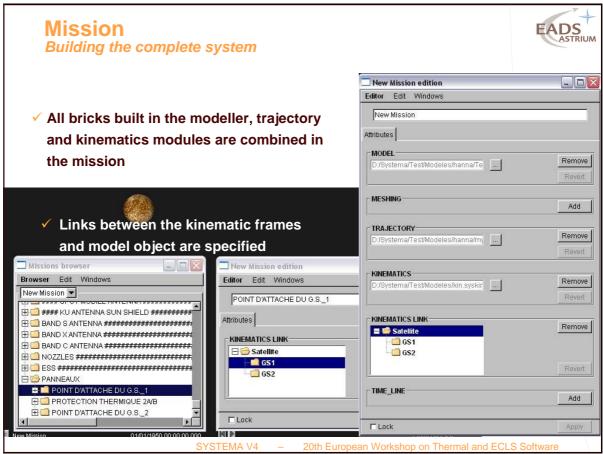


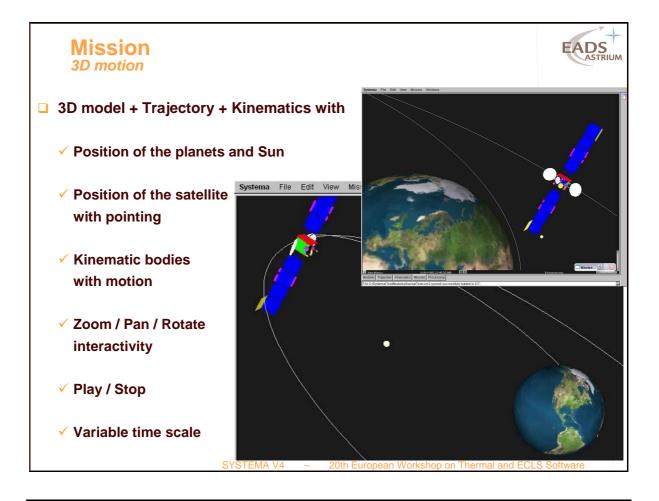


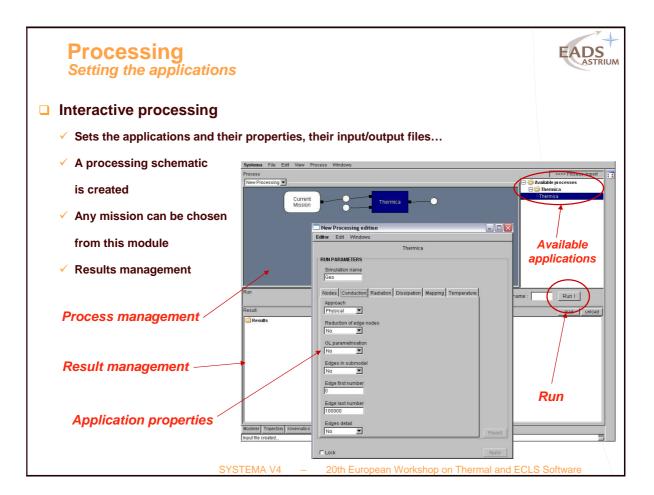


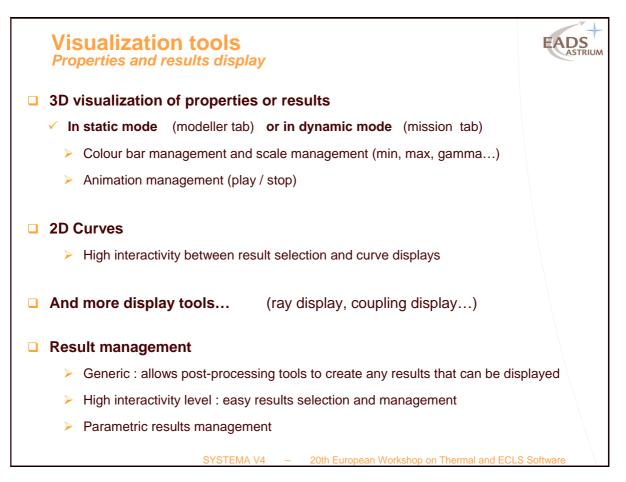


Kinematic bodies : t	ypes o	f link	
Pivot connection	1 rotation of freedom		
Ball pivot	2 rotations of freedom		
Ball joint	3 rotations of freedom		
Free connection	3 rotations + 3 translations of freedom		
 Possibility of constr 	aints o	n any degree of freedom	
Pointing and Attitud	le laws		
Orbit 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
 SYSTEMA / THERMICA V4 beta release : For evaluation 	Q1 2007	
 SYSTEMA / THERMICA V4 full release Full THERMICA with all modules 	Q2 2007	
Future evolutions (2007-2009) :		
 Increase the capacity in terms of visualization 	on / animation	
 Management of model assembly 		
Management of Timeline, events		
 Improved conduction module (edge and resimanagement) 	istance contact	
✓ Schematic		
✓		
SYSTEMA V4 – 20th Europe	an Workshop on Thermal and E	CLS Software