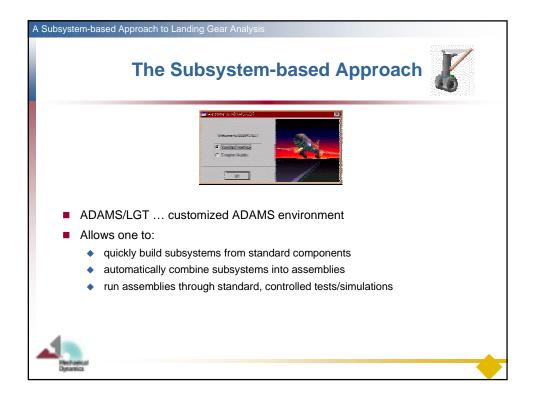
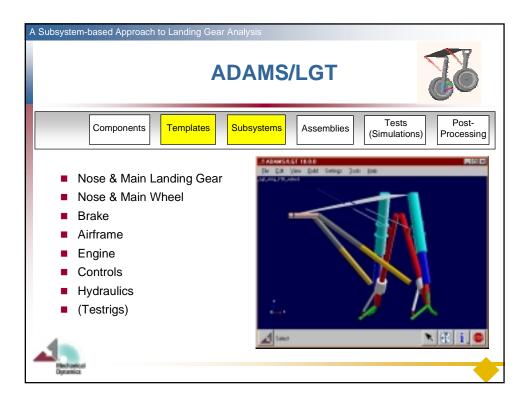


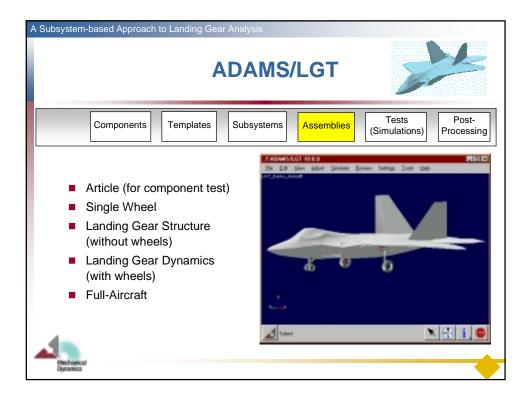
¥	Test & Analysis					
	Component Tests	Subsystem Tests	Actual Event Tests (Full Aircraft)			
Actual Hardware & Software	\$	\$	\$			
Hybrid (Hardware In The Loop)	\$	\$	\$			
Complete Digital Hardware & Software	√ 🛵	√ <u>75</u>	Functional Digital Aircraft			
Simplified Digital Hardware & Software	х	Legacy Fortran Code	Legacy Fortran Code			



	Components	Templates		Subsystems		Assemblies		Tests (Simulations)	Post- Processing
	CO	T		T		<u>مجبہ</u>			
Standard Mode		Existing	►	Existing or New	•	Existing or New	•	Existing	Existing or New
Template Builder Mode	Existing	► New							
Customizer Mode	New Types	New Types		New Types		New Types		New Types	New Types

A Subsystem-based Approach to Landing Gear Analysis
ADAMS/LGT
Components         Templates         Subsystems         Assemblies         Tests (Simulations)         Post- Processing
<ul> <li>Flexible or rigid parts &amp; attachments</li> <li>Oleo - gas spring, metered oil damper, stoppers, flex bearing forces, fric/stiction</li> </ul>
<ul> <li>Steering and Retract Actuators - single/double hydraulic, constant force, or motion-based</li> </ul>
Aerodynamics - aircraft, landing gear, door aero
Tire/ground forces - general-purpose or specific aircraft tire models
<ul> <li>Simple or complex engine forces</li> </ul>
<ul> <li>Simple or complex brakes</li> </ul>
User-defined forces - for oleo, tires, aero, etc.
Hed Vericel Dynamics





A Subsystem-based Approach to Landing Gear Analysis	
ADAMS/L	GT
Components Templates Subsystems A	ssemblies Tests Post- (Simulations) Processing
<ul> <li>Article (for component test) <ul> <li>Article test (dyno)</li> </ul> </li> <li>Single Wheel <ul> <li>Tire tests</li> </ul> </li> <li>Landing Gear Structure (without wheels) <ul> <li>Steady Axle Loads</li> </ul> </li> <li>Landing Gear Dynamics (with wheels) <ul> <li>Retract/Extend, Drop</li> </ul> </li> </ul>	I Landing Gase Analysis: Stade Landa       Landing Base Analysis: Stade Landa       Output Parls       Mode of Sinulation       Landing Base Analysis: State       Landing Base Analysis: State       Case Number       Case Number       To       Case Number       Data       To       Case Number       Update Case Number       Update Case Number       Datase Landing Gase Inste Loadcase Flee       F <sup>2</sup> Datase Landing Gase Inste Loadcase Flee       F <sup>2</sup>
Methoda at Dynamics	DK Appb Canod

ADAMS	6/LGT	1	
Components Templates Subsystems	Assemblies	Tests (Simulations)	Post- Processing
Full-Aircraft	Aircraft Analyzis: Dynamic Landing     Fub/acraft Assembly     LGT_Demo_Airce     Dulput Piels		sache V
<ul> <li>Ground</li> </ul>	Balance Duration Time Balance Number of Steps	Simulation Duration Time Simulation Number of Steps	
<ul> <li>Ground Attitude, Carrier Launch, Dynamic Tipback, Tiedown, Towing</li> </ul>	Road Data File Alcoaft Loading Alcoaft Loading Alcoaft Loading	Aircraft Loading Configurations Econogunation Number al D	Vew
<ul> <li>Taxi</li> </ul>	Aircraft Loading Configuration	ul Aincreit Weight Zog Zog	
<ul> <li>Dynamic Taxi, Turning, Braking, General Pilot Maneuvering</li> </ul>	Field Input Xrg Lex ThisLootX	lyy lzz ThilocY ThilocZ	Cendian M
<ul> <li>Landing</li> </ul>		Landing Load Cam	the second s
<ul> <li>General Landing, General Pilot Maneuvering</li> </ul>	Londing Cares Displacement Field Input	Landing Case Name	of 0 View
<ul> <li>In-Flight</li> </ul>	Acceleration	Spin Wheek? 0/1 Initial Spin 1	
4		Add Care Update Current Care	and the second second
	Create Analysis Log File		OK Apply Cance
Herbonical			

