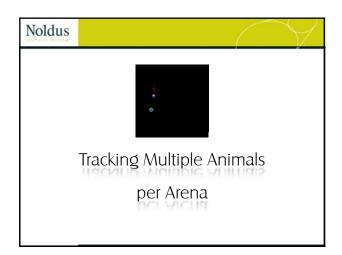
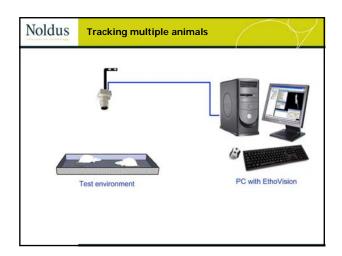
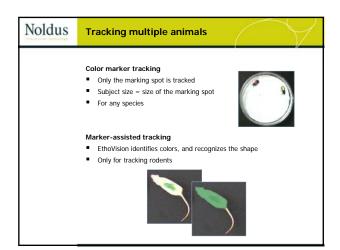
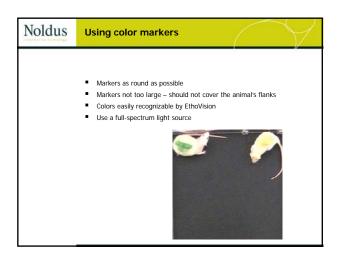


Noldus	$\longrightarrow$
	<u> </u>
	Summary
	■ Tracking multiple animals per arena
	Advanced detection settings
	<ul> <li>Analysis of social interaction tests</li> </ul>
	■ New detection method: Differencing
	Advanced trial control using routines
	<ul> <li>Using routines also to analyze data</li> </ul>
	■ Scoring events manually

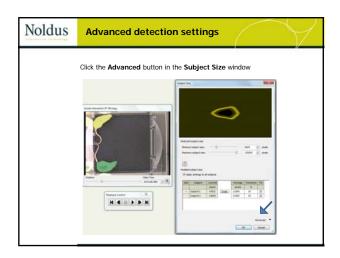


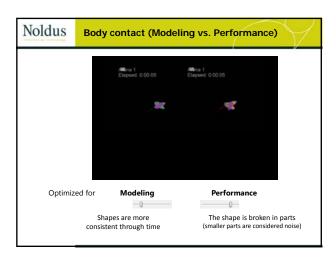


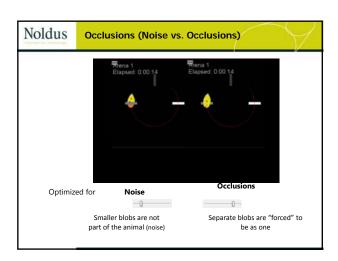




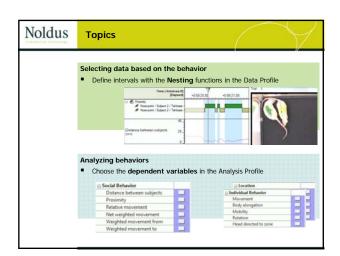
Noldus	Color blob and subject shape
	Two main stone
	Two main steps ■ Color blob → Individual recognition ■ Shape → By the detection method (e.g. Dynamic subtraction)
Noldus	
А	dvanced Detection Settings
Noldus	Advanced detection settings: When needed?
	Body contact:     Subject's contour no longer clear
	Occlusions:  For example cage bars, panels with openings

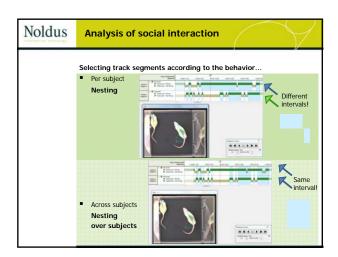


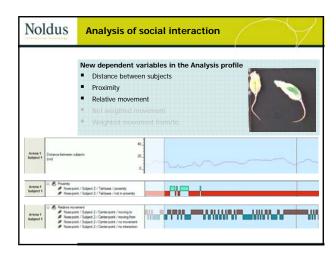


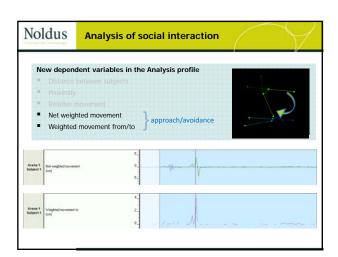


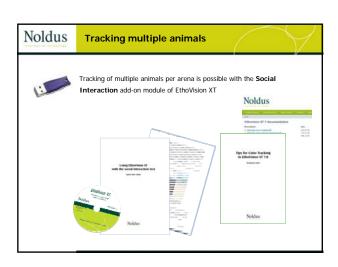
## Analysis Functions for Social Interaction Tests

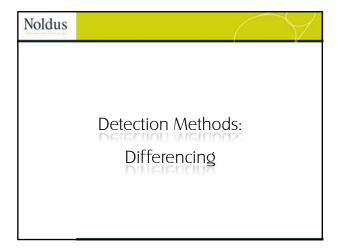


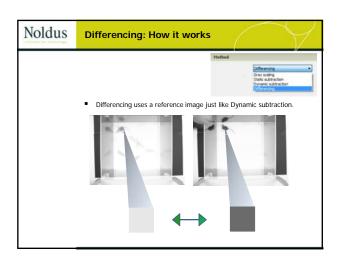


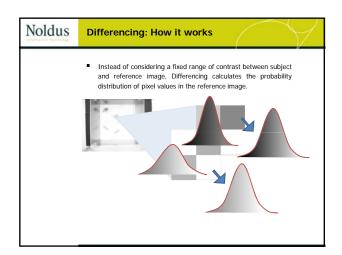


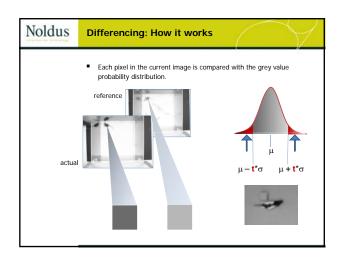


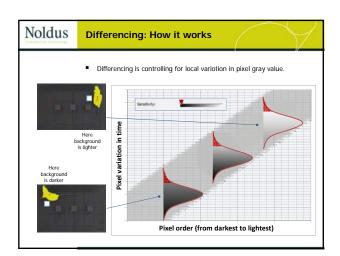


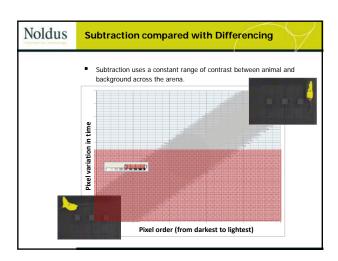




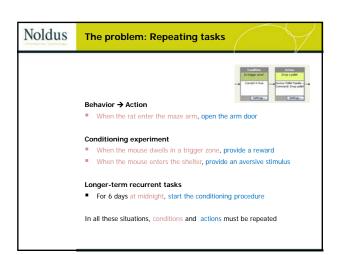


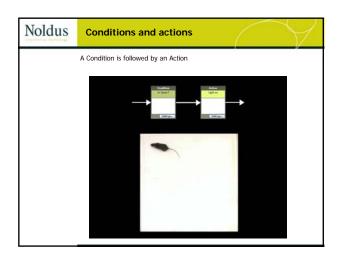


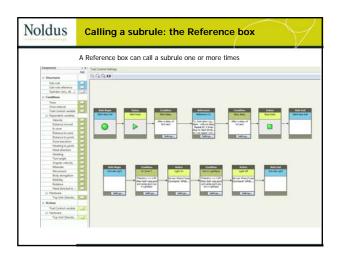


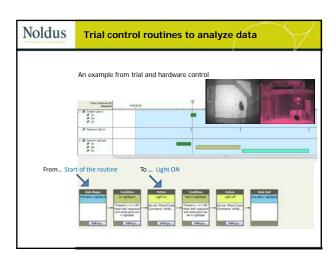


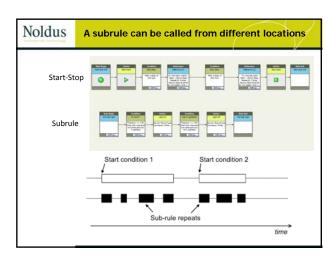
## Advanced Trial Control Using Routines

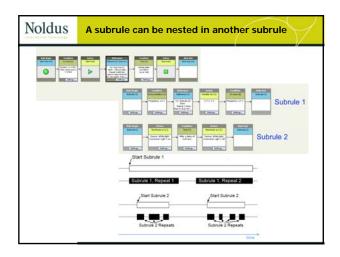


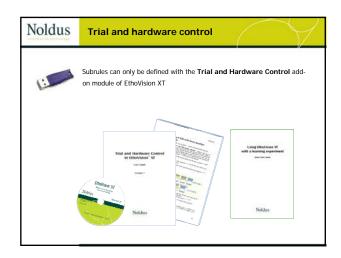




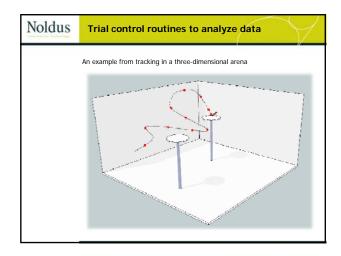


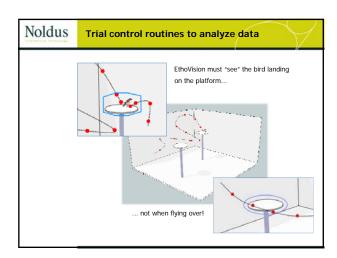


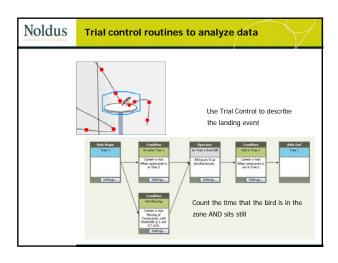




Noldus					$\mathcal{A}$
	Licina	Trial Con	itral Pauti	nec	
			trol Routi		
	AIS	o to Ana	lyze Data		







Noldus		
	Scoring Behaviors Manually	
Noldus	Scoring behaviors manually	
Tiolaus	(	
	Use the Manual Scoring Settings:  To define behaviors that EthoVision cannot detect automatically	
	for example:  • Rearing	
	• Sniffing	
	Grooming	
	Social interactions/ parental care	
	To detect Stretching: use the Elongation variable.	
	To detect <i>Head dips</i> in a plus maze, define zones at the end of the open arms and analyze when the nose points enters the zone.	
	-	
M-1-1		
Noldus	Defining behaviors	
	Click Manual Scoring Settings in the Experiment Explorer.	
	<ul> <li>Define behaviors in a Mutually exclusive group if they are related to one another</li> </ul>	
	Example: Grooming Bilateral, Grooming Unilateral, etc.	
	Behaviors Negr	
	Schonist Name   Type   Description   Initially Active   Subject   Society   Society	
	No gronning Mutually enclaine   0	
	<ul> <li>Define a behavior as Start-Stop if it is independent of the others.</li> <li>Example: Rearing</li> </ul>	
	Rearing Start-Stop	

Noldus	Scoring behaviors manually
	Tips  If you track from video files, clear the Detection Determines Speed option, otherwise the video may play faster than 1x.  Acquisition Control  You cannot rewind the video during a trial, so the behaviors must be scored in one run. Make the coding scheme as simple as possible.  To score behaviors from multiple subjects and/or arenas more easily, or with a complex coding scheme consider using The Observer XT.