

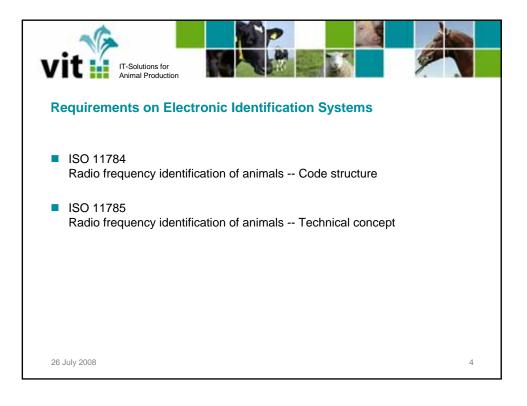
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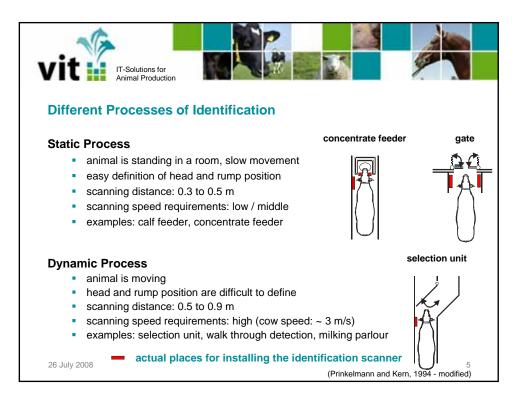
## Experience with Bovine Electronic Identification in Germany

Eggers B., N. Wirtz, D. Albers & R. Reents

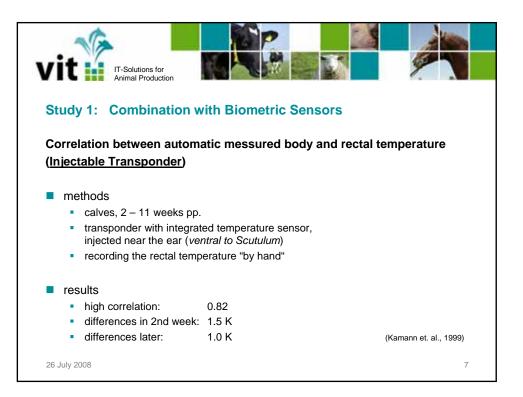


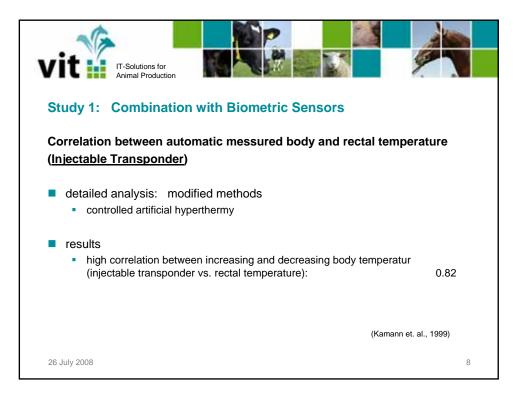


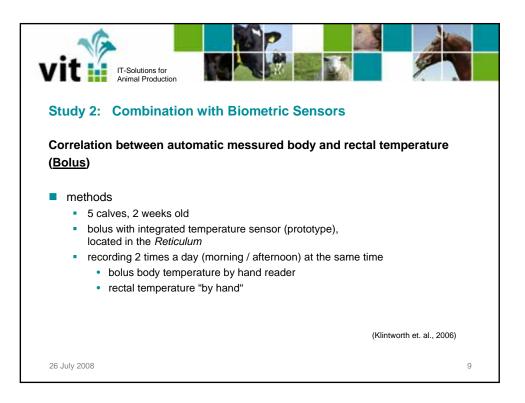


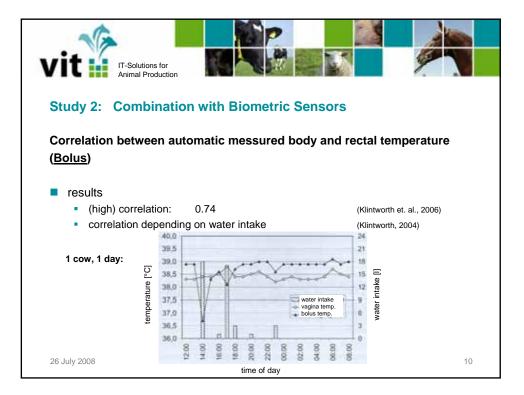


TT-Solutions for Animal Production	Different Ident	ification System	ms		
feature	bolus	injectable	electronic ear tag		
application	+	(+)*	++		
scanning (hand held device)	-	+	++		
scanning process control syst.	+/-	+	++		
withdrawal (abbattoir)	+	-	++		
lost identification systems	++	++	+		
data protection	+	+	+		
assessment	++ very po * only train	•	egative		
26 July 2008		(1	DEA, 2002 - modified) 6		

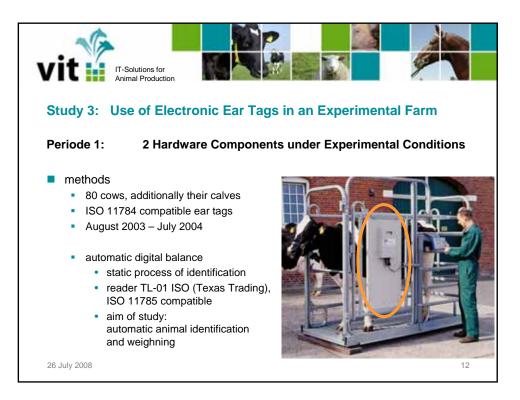




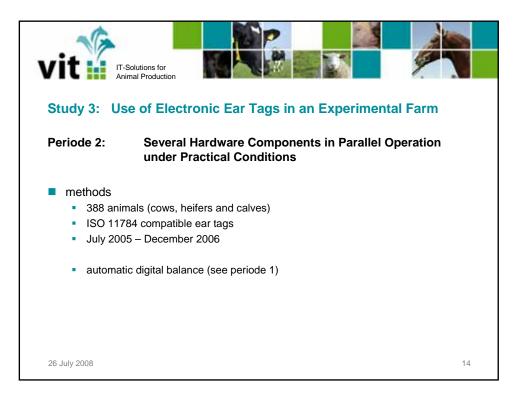










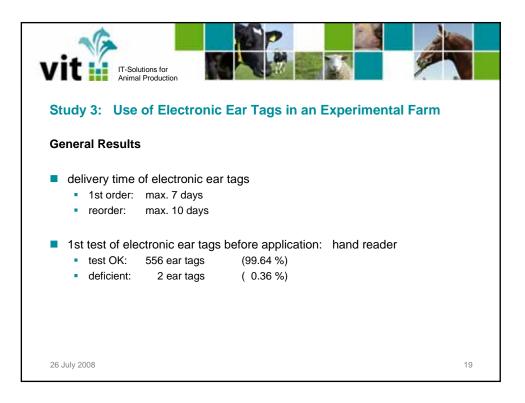




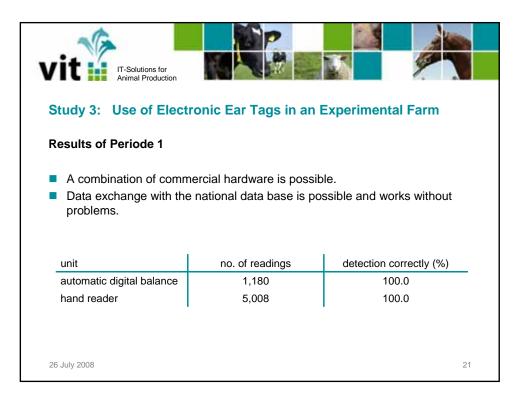


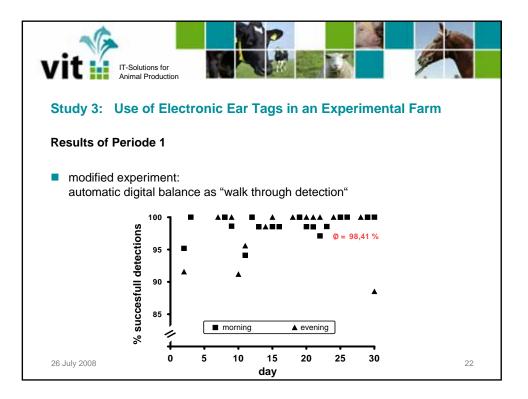




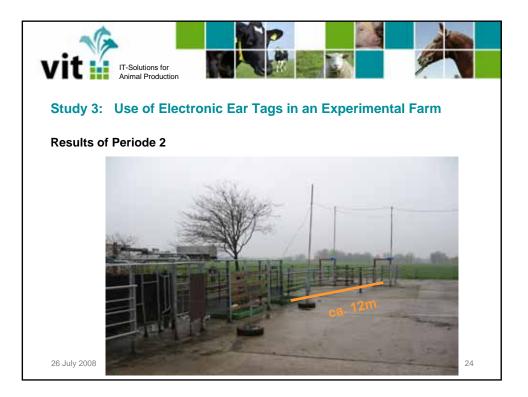


IT-Solutions for Animal Production						
Study 3: Use of Elec	Study 3: Use of Electronic Ear Tags in an Experimental Farm					
General Results	General Results					
no. of lost ear tags						
	electronic ear tag	plastic ear tag				
ear tags applied	558	796				
ear tags lost	5	45				
quota	0.9 %	5.6 %				
26 July 2008		20				





Study 3: Use of Electro			
	onic Ear Ta	ags in an I	Experimental Farm
Results of Periode 2			
	l in a lui		
unit	detection		Notes
	no.	%	
automatic digital balance	16,332	99.8	power supply, humidity
calf feeder	83,808	100.0	only HDX
concentrate feeder	202,498	100.0	
selection unit	3,875	78.0	***)
walk through detection	2,434	49.0	***)



IT-Solutions for Animal Production		Par			
Study 3: Use of Electronic Ear Tags in an Experimental Farm					
Results of Periode 2					
unit	detection		Notes		
	no.	%			
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calf feeder	83,808	100.0	only HDX		
concentrate feeder	202,498	100.0			
	202,498 (3,875)	100.0 (78.0)	***)		
			***)		
selection unit	(3,875)	(78.0)	***)		
concentrate feeder selection unit walk through detection	(3,875) 34,776	(78.0) 100.0	,		



VIT-Solutions for Animal Production	\$				
Economic Aspects of Using Electronic Ear Tags					
Costs of Replacing an Ear Tag					
<ul> <li>costs of replacing an plastic ear tag</li> <li>controlling and booking:</li> <li>fabrication and logistics of an replacement ear tag:</li> <li>time and effort for the farmer (application):</li> </ul>	11.22 0.30 0.92 10.00	Euro Euro Euro Euro			
■ costs in Lower Saxony: 300,000 x 11.22 Euro =	3,366,000	) Euro			
Which reduction of cost can be achieved, if the number of replacement ear tags is decreasing to 150,000 plastic + 24,000 electronic ear tags?					
<ul> <li>not included: - benefits at abbattoirs and other cattle collecting points,</li> <li>benefits because of decreased number of accidents concerning ear tag application</li> <li>26 July 2008</li> </ul>					

