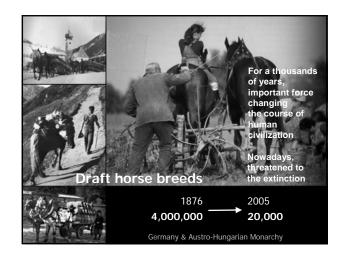
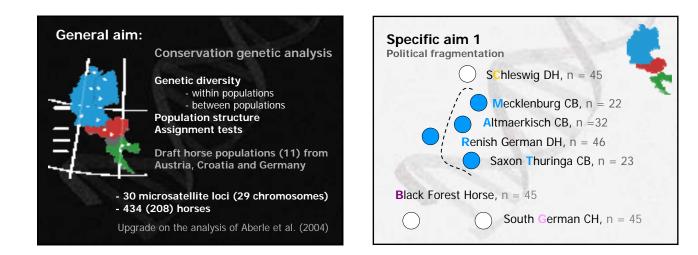
Individual-based assessment of population structure and admixture levels among Austrian, Croatian and German draught horses

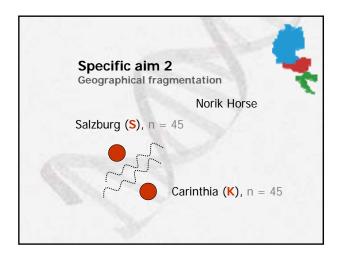
T. Druml, R. Baumung, J. Sölkner

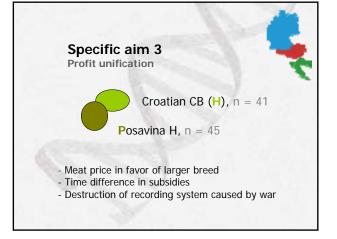
K. Aberle, O. Distl

I. Curik

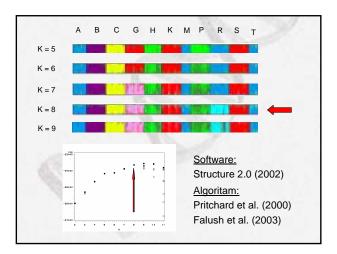


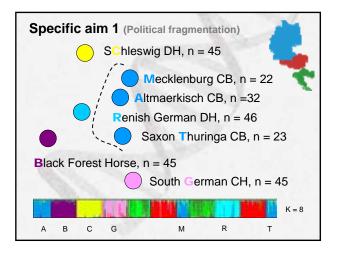


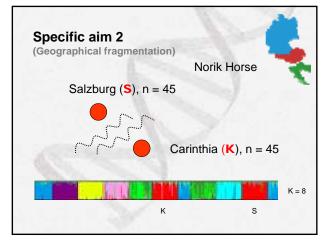


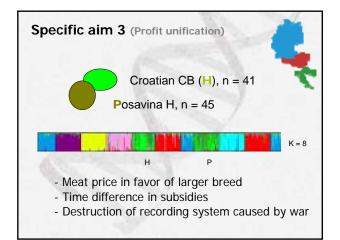


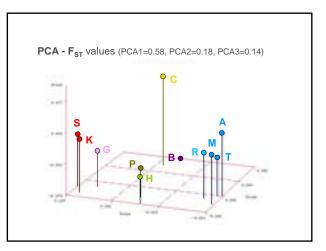
	NA	Но	He
Mean	9	0.68	0.67
Range	6-15	0.29, 0.84	0.28, 0.8
16	F _{IS}	F _{ST}	PIC
Mean	-0.01	0.07	0.57
Range	-0.06, 0.07	0.04, 0.14	0.09, 0.75

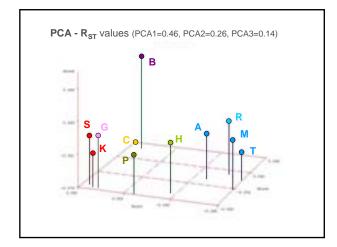


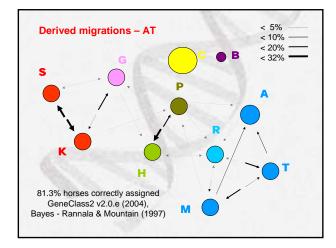












Population	Ν	RMNA	Ne (95% CI)
Altenmaerkish DH	32	5.31	64.0 (53.8, 78.4)
Mecklenburg CB	22	5.64	31.6 (27.5, 36.8)
Saxon Thuringa CB	23	5.45	48.1 (29.7, 60.4)
Rhenish German DH	46	5.75	46.1 (41.9, 51.1)
A + M + T	77	5.92	126.5 (111.6, 145.2)
A + M + T + R	123	6.14	141.6 (129.3, 156.1)
		£	

Population	Ν	RMNA	Ne (95% CI)
South German CB	45	6.04	97.6 (82.9, 117.9)
Noriker – Carinthia (K)	45	6.05	104.7 (87.3, 129.6)
Noriker – <mark>S</mark> alzburg	45	5.72	164.0 (125.5, 232.9)
K + S	90	5.97	259.0 (211.8, 330.2)
G + K + S	135	6.29	233.7 (206.5, 267.9)
0.9			
Black Forest H	45	5.60	58.1 (51.8, 65.9)

Population	Ν	RMNA	Ne (95% CI)
Posavina horse	45	6.46	129.0 (105.2, 165.1
Croatian CB (H)	41	6.68	87.2 (75.0, 103.5)
P + H	86	6.64	176.0 (153.7, 207.2
P _{q>0.70}	31	6.03	74.5 (61.5, 94.5)
H _{q>0.70}	24	6.37	57.5 (47.7, 94.5)
SChleswig DH	45	5.28	61.8 (54.1, 71.6)

Conclusion
The results obtained:
demonstrate the power of microsatellites and new statistical genetic methods in assessing conservation status.
Provide basis for making breeding strategies with respect to genetic variability.