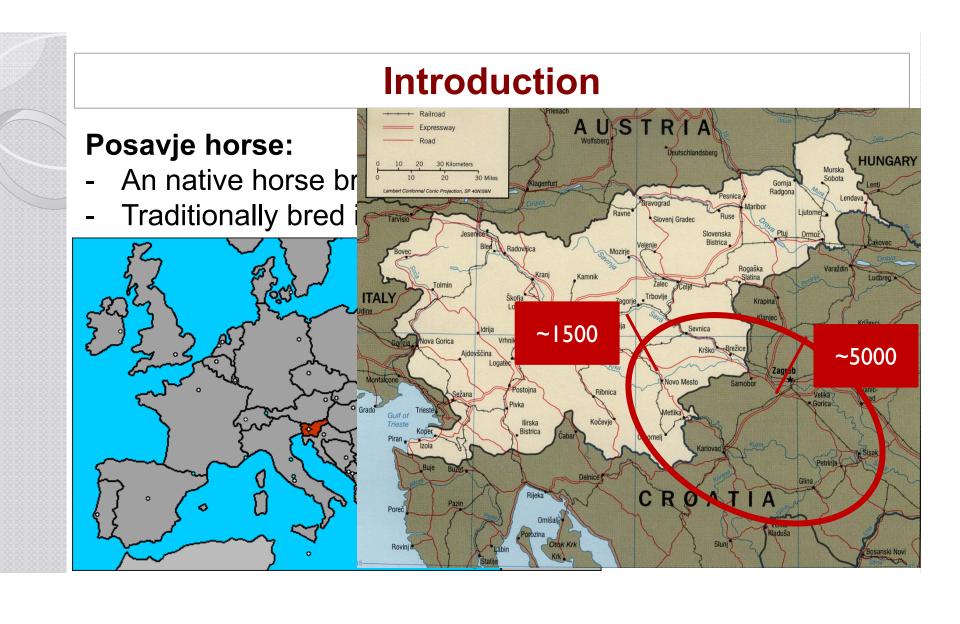


# Estimation of breeding values and genetic changes of Posavje horse in Slovenia

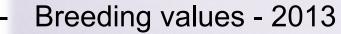
Barbara Bračič, Klemen Potočnik







- Type traits scoring
- Use of the scores as the main selection criteria





# Introduction

# The aim of the study: consider the use of the estimated BV in selection.



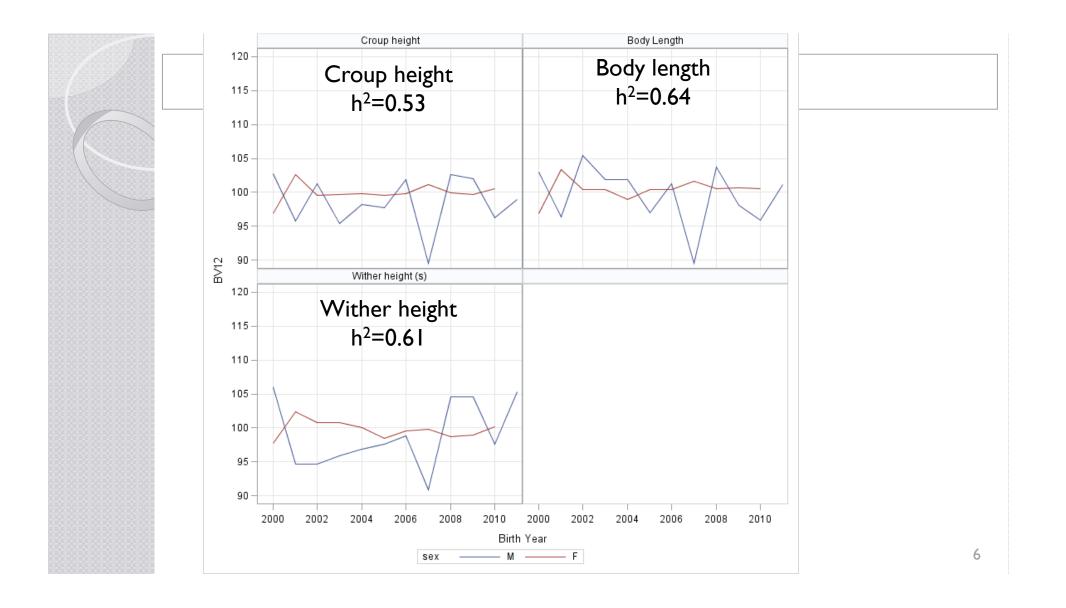
## **Material & Methods**

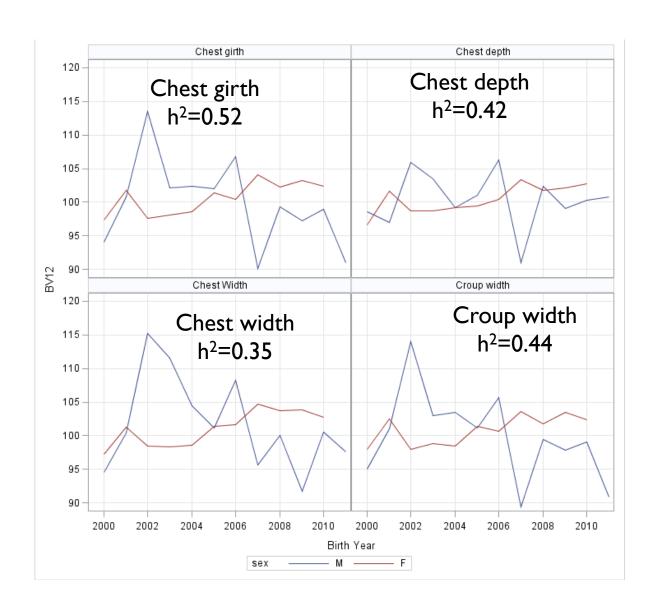
#### **Material:**

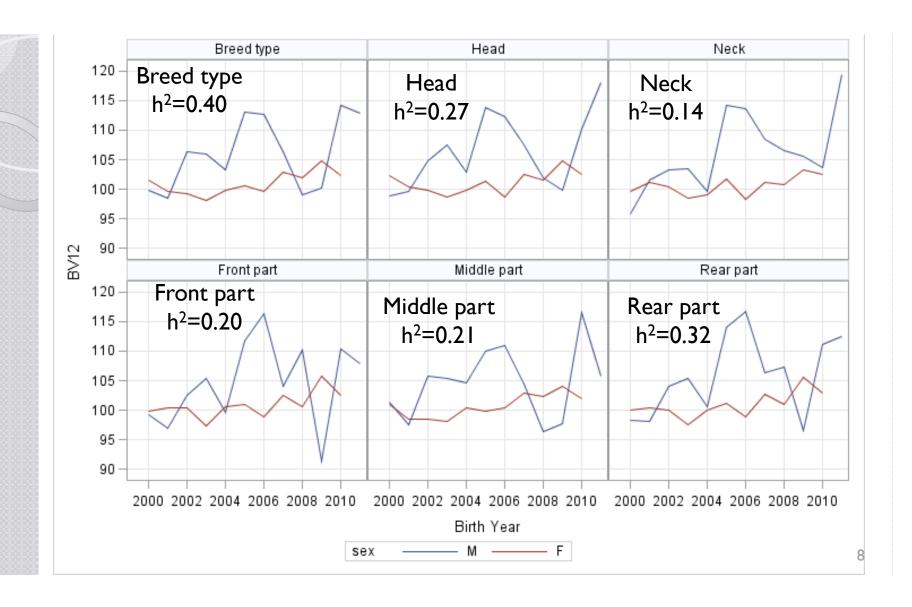
- Scores and measurements of 1550 horses
- Birth year between 1999 and 2010
- Data of 764 horses used for BV (50 stallions, 714 mares)
- Pedigree records counted for 1220 animals

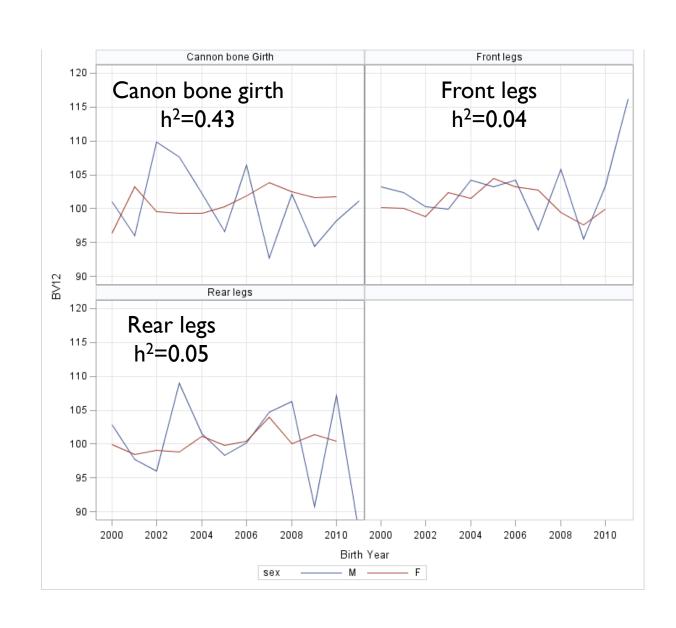
#### Methods:

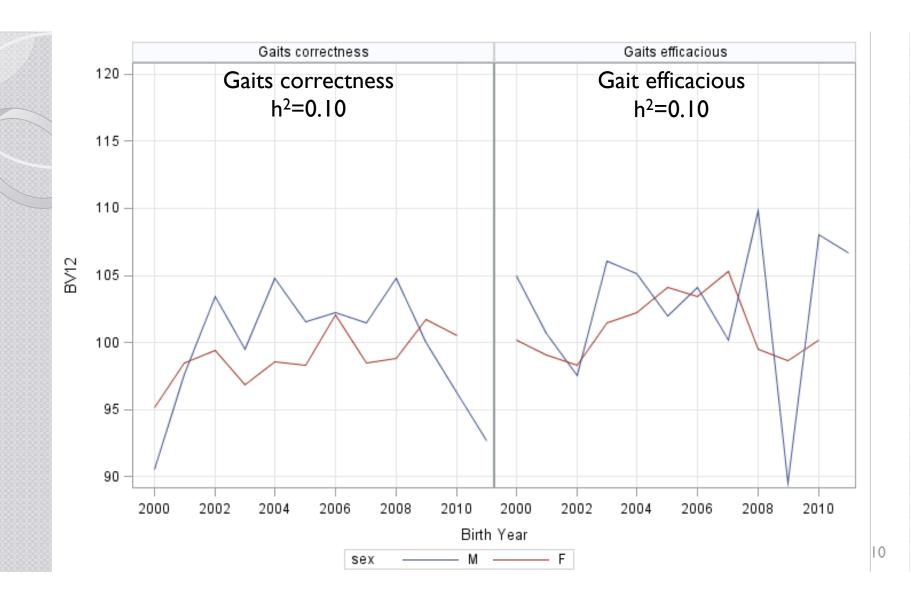
- 23 body traits: 7 measured, 12 scored & 4 indexe's
- Multitrait animal model: gender, age and birth year as fixed effects
- Variance components VCE-5 package

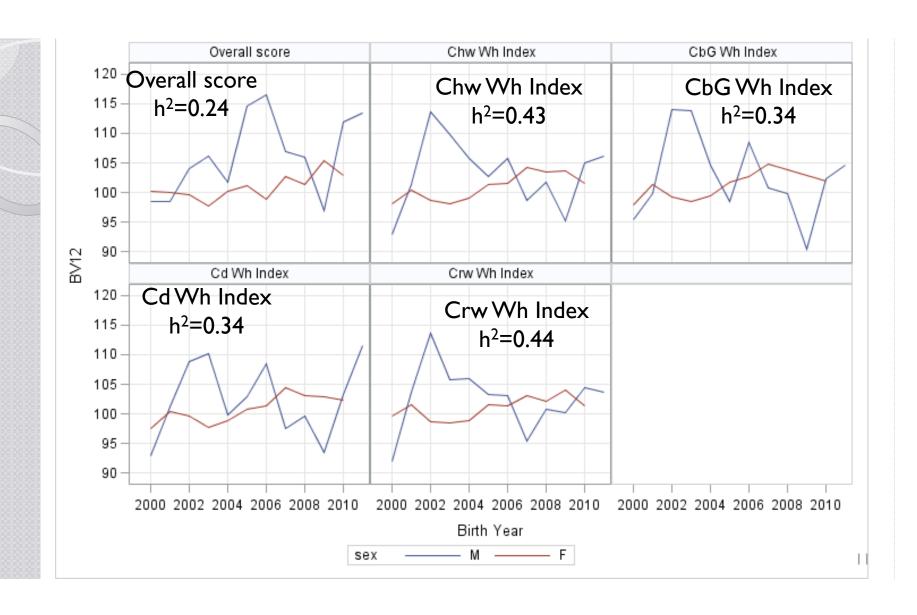












# **Conclusions**

### Despite the:

- non linear scoring system
- small number of horses with scores
- relatively poor relationship data
  Estimated heritabilities are comparable with other populations

Genetic changes suggest that selection based on phenotype was not efficient

For the future, introduction of joint breeding value evaluation for Slovenian and Croatian Posavje horse populations will be implemented.



Thank you for your attention.