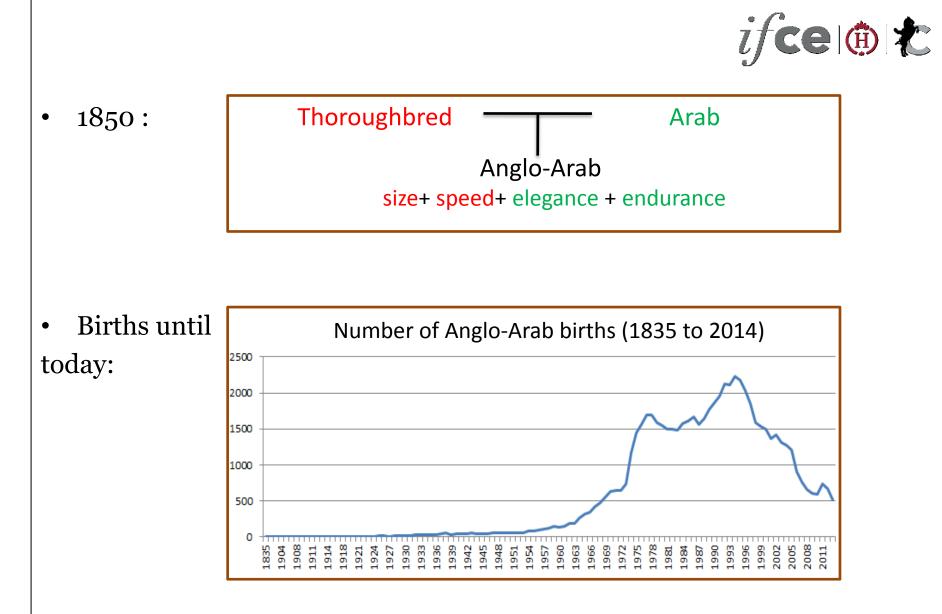


Anglo-Arab linear profiling

an objective tool to maintain a breed standard

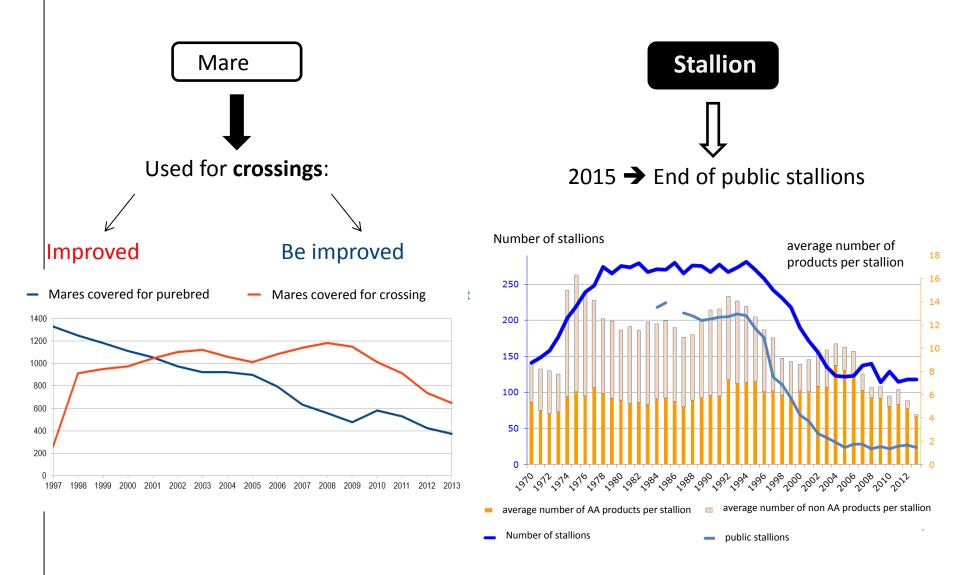
Margot Sabbagh 11/02/2016



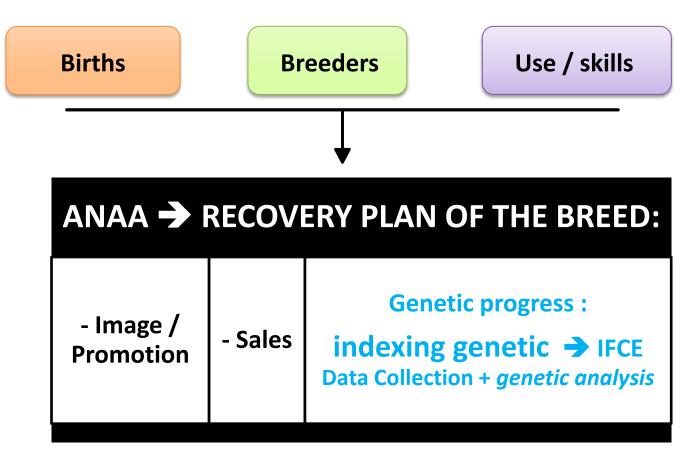
Why the **drop** ? How to revive the **births**?



Origins of declining births Anglo - Arabs





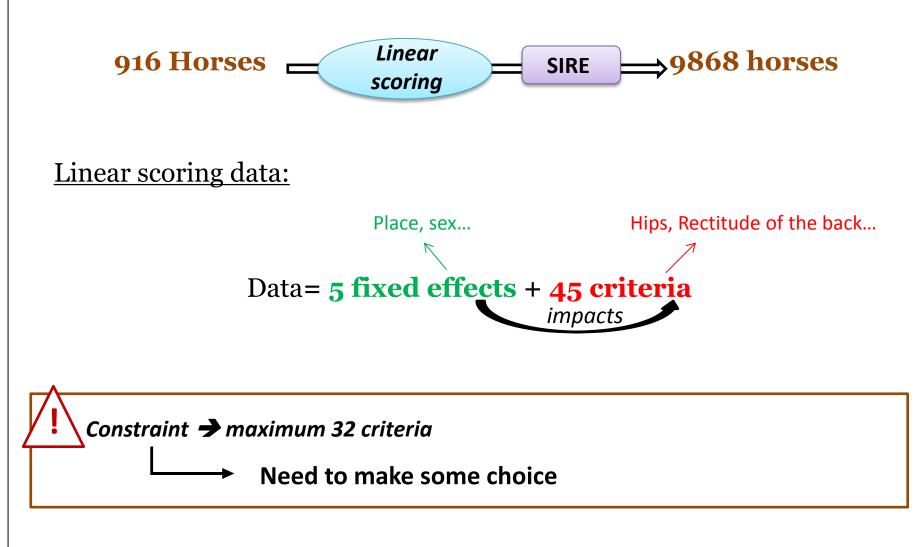


Are criteria used for linear scoring during "model and gaits " heritable ? Is indexation available with those data pointing ?

II. Material

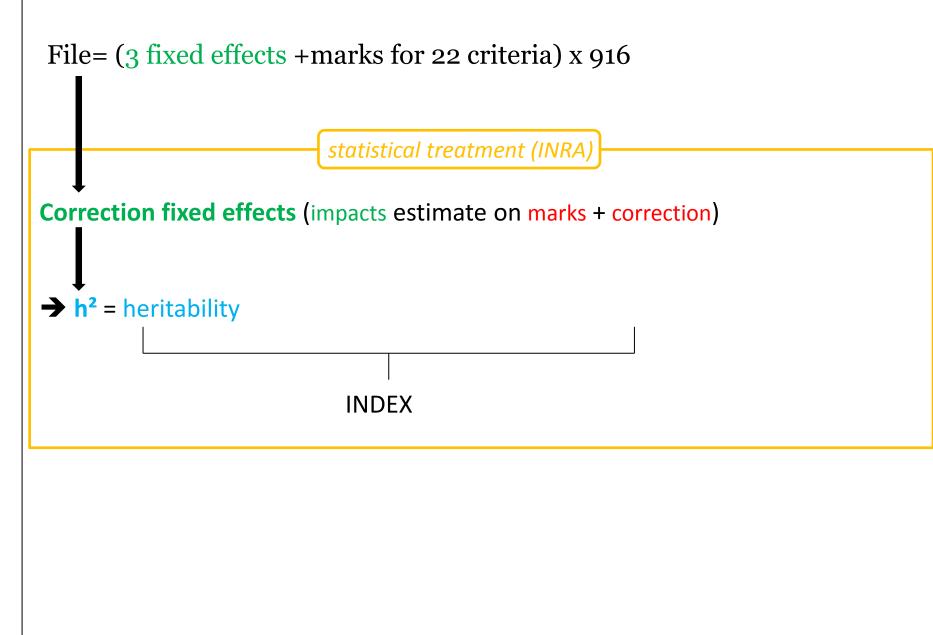


Characterization of the AA population in France:



<u>Data processing :</u>





III. Results :



1 - Assigned corrections

Pointer: largest **fixed effect →** significant impact on all criteria

2-Heritabilities

- 🛨 : Joint / skeletal development : h² = 0,41
- \bigcirc : Forelimb aplomb : $h^2 = 0,000$

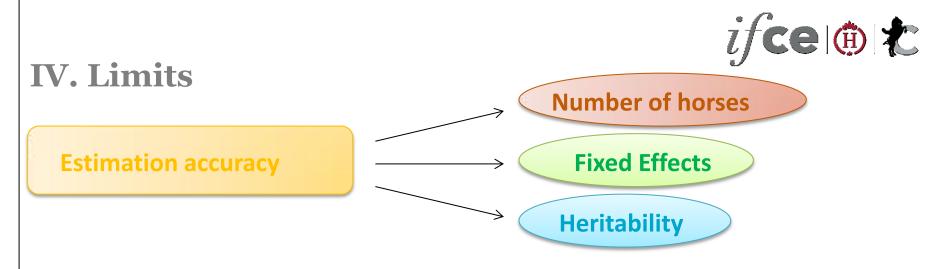
3- INDEX : estimation for the 22 criteria x 9868 horses Without Coefficient of **D**etermination (CD)



Index are presented in graphical form.

 \rightarrow quick and simple view of the criteria to improve for a horse

Tissus	Grossiers		-	Nets et fin
Tête	Commune			Très expressiv
Longueur de l'encolure	Courte			Longu
Orientation de l'encolure	Horizontale			Vertical
Garrot	Court Noyé			Long et bien dessin
Inclinaison de l'épaule	Droite			Obliqu
Rectitude du dos	Ensellé		-	Tendu et for
Attache de reins	Relâchée			Carpé
Longueur de Croupe	Courte			Longu
Cuisses	Coupées	I		Longue
Ouverture de poitrine	Etroite	⊢		Ouverte
Articulations	Faibles			Forte
Genoux	Renvoyés			Brassicourt
Orientation des jarrets	Droits			Coudé
Ouverture des jarrets	Clos			Ouvert
Développement squelettique	Faible			- Importan
Ecartement des pistes au pas	Sérré - 1 piste			sur 4 piste
Engagement au pas	Se déjuge			Se méjug
Aplombs postérieurs	Cagneux +			Panard
Aplombs antérieurs	Cagneux			Panard
Rectitude au trot	Billarde	8		Droit
Souplesse du trot	Raide	6		Rebon



→ We can move towards the fair values , but it is impossible to reach them !

Rate of genetic progress:

Publication time + 10-15 years

→ visible progress in the medium term!



V. Perspectives of the study

