WHIRDEC Meeting

OnLine - 16th November 2023



AGENDA

1 – IMPLEMENTATION OF ANIMAL HEALTH LAW

- Issuance of identification documents for horses registered in a studbook with cross border activity.
- License and validation mark
- Registration of the place where horses are habitually kept.

2 – DATA EXCHANGES

Presentation of Horselink

3 – USE OF SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS) panel for DNA testing and filiation analysis



Introduction : EU REGULATION

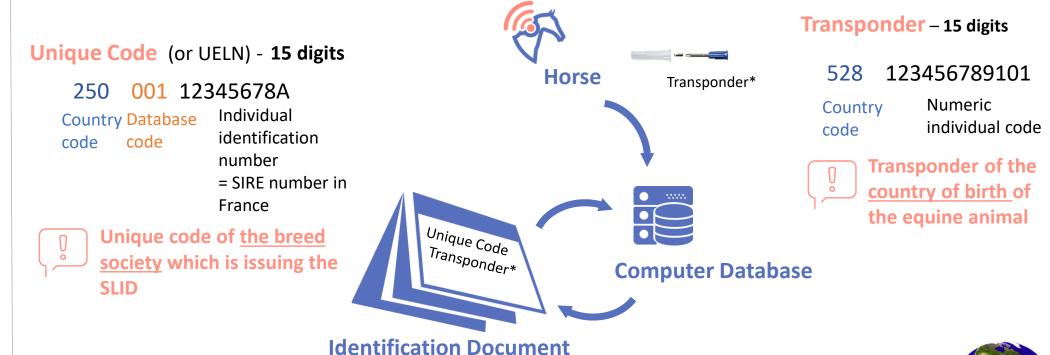
DR on Germinal products DR on establishments and **DR** on entry into EU **DR on Movements** DR on list of animal disease **DR** on disease control **DR** on surveillance animal ID 2019/2035 2020/686 2020/688 2020/692 2020/687 2020/689 2018/1629 IR related to the model forms of health **IR on Germinal products** IR on identification of equines IR on Disease reporting **IR on Categories of diseases** certificates 2020/999 2020/2002 2021/963 2018/1882 2021/403 **IR on** registration and approval of establishments **Regulation (EU)** 2022/1345 2016/429 (AHL) 04/2021 Horse Delegated Regulation 2021 /577 on ID information to be included in SLID Regulation (EU) **Regulation (EU) Updated by Delegated Regulation** Delegated Regulation (EU) 2017/1940 2016/1012(ABR) 2022/524 2019/6 (VMP) (Zootechnical certificate) IA laying down a list of substances 11/2018 01/2022 IA (EU) 2020/602 IA (EU) 2017/716 essential) – at the latest the 29th (Recognised breed (Zootechnical January 2025 Today IR 2006/1950 certificate) societies) Others DA & IA

1 – IMPLEMENTATION OF ANIMAL HEALTH LAW

Issuance of identification documents for horses registered in a studbook with cross border activity

Rules for identification of equine animals, kept in the territory of a Member State to which a breeding program of a breed society located in another Member State has been extended

Example: Horse born in the Netherlands and registered with a French breeding society with extended activity in The Netherlands





STUDBOOK WITH CROSS BORDER ACTIVITY (1/3)

What will the procedure be for horses born in your country but registered in a studbook located in another member state (1/3)?

Horse born in Member State 1

✓ Horse registered in a studbook located in another Member State (MS2), with an approved extension of activity in MS1











Procedure

- Horse identified with a chip from MS1
- SLID issued by the breed society in MS2 and sent to the central database or a specific delegated body in MS1
- SLID checked and data registered in the central database of MS1
- SLID sent by the central database or delegated body to the operator

Country of birth	To whom sent the SLID?
Croatia	Central database
Italy	Italian headquaters or a delegated body
Finland	Delegated body : Suomen Hippos
Netherlands	Central database -> Delegated body in 2024
France	Delegated body: Ifce if no agreement (next sl.)
Belgium	Delegated body: Hose ID if excel file (next sl.)
Denmark	UCL) Cov
	Pedioree Colour

STUDBOOK WITH CROSS BORDER ACTIVITY (2/3)

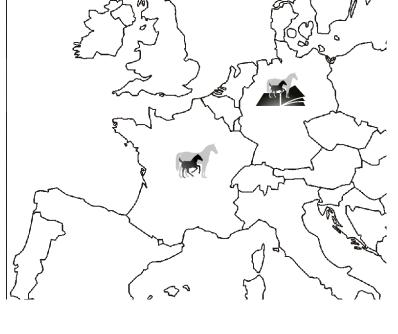
What will the procedure be for horses born in your country but registered in a studbook located in another member state (2/3)?

Horse born in Member State 1

✓ Horse registered in a studbook located in another Member State (MS2), with an approved extension of activity in MS1

Procedure

- Specific agreement between the breed society and the central database or Ministry of Agriculture
- Horse identified with a chip from MS1
- SLID issued by the breed society in MS2 and data transferred by a file or webservices to the central database
- SLID is sent by the breed society to the operator
- Data registered in the central database of MS1



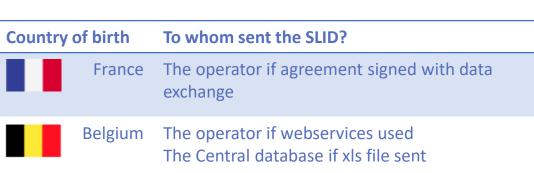












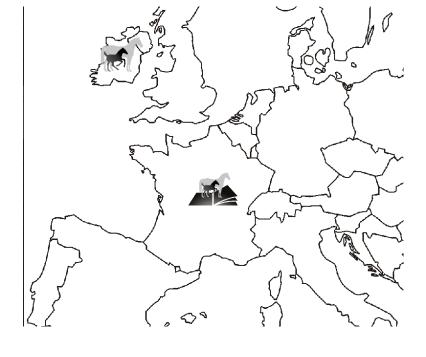


STUDBOOK WITH CROSS BORDER ACTIVITY (3/3)

What will the procedure be for horses born in your country but registered in a studbook located in another member state (3/3)?

Horse born in Member State 1

✓ Horse registered in a studbook located in another Member State (MS2), with an approved extension of activity in MS1











Procedure

- Horse identified with a chip from MS1
- SLID issued by the breed society in MS2
- SLID is sent by the breed society to the operator
- SLID is sent by the operator to the central database or a delegated body and data registered in the central database of MS1

Country of birth		To whom must the operator send the SLID?	
	Ireland	Delegated bodies	
	Latvia	Central database	
	Poland	Polish Horse Breeders Association	
	Romania	Central database	



1 –IMPLEMENTATION OF ANIMAL HEALTH LAW

The license and validation mark

Will you issue a license and a validation mark? And How?

In France, in 2024, the licence will be delivered by





• Licence implementation :





Validation mark implementation :





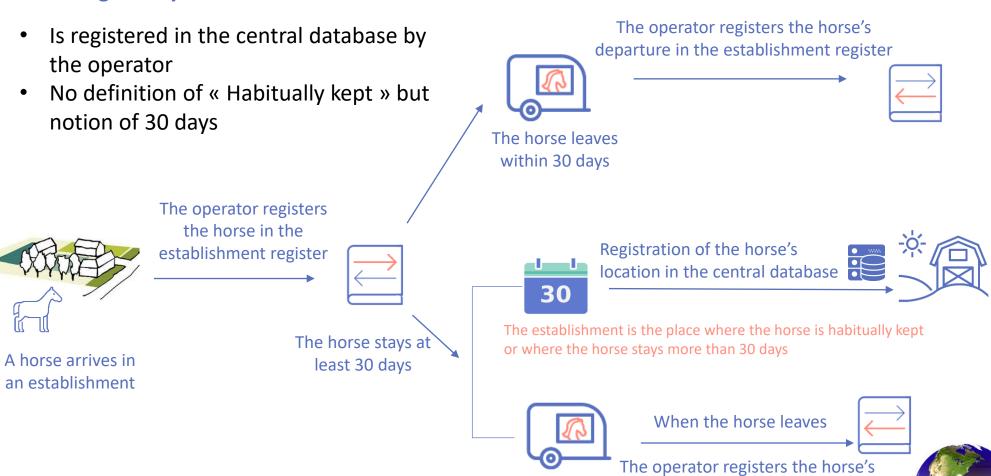






1 - IMPLEMENTATION OF ANIMAL HEALTH LAW

Registration of the place where horses are habitually kept or kept in the establishment for a period exceeding 30 days

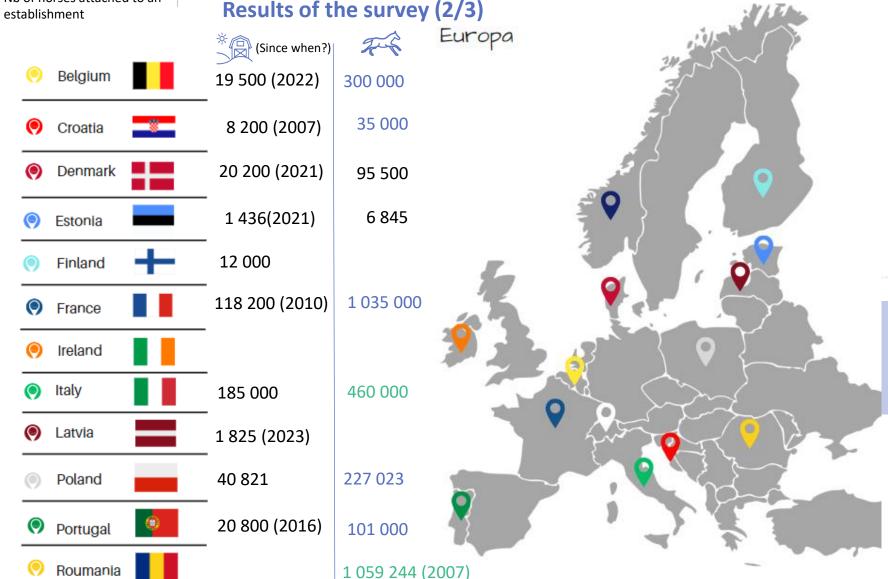


departure in the establishment register

The registration of the place where PLACES WHERE HORSES ARE HABITUALLY KEPT horses are habitually kept Results of the survey (1/3) Australia Europa Belgium Croatia Denmark Estonia Finland 15 participants France 13/15 countries record establishments Ireland 8/15 countries record the place where Italy horses are habitually kept Latvia Poland Portugal Norway (Roumania **Development on progress** Australia (9)



PLACES WHERE HORSES ARE HABITUALLY KEPT Results of the survey (2/3)



Australia

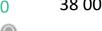
Establishments 'registration

→ Who does the declaration of the establishments?

It depends (see annex 1 for detailed answers)

















PLACES WHERE HORSES ARE HABITUALLY KEPT

Results of the survey (3/3)

Movements' registration

- Will be declared to the central databases for all countries, except for Croatia to the delegated bodies
- For most, declarations have to be done within 7 days after the horse was recorded as resident in the establishment. The minimum period is 3 days for Switzerland.
- Only Italy records the movements less than 30 dayslong
- Use of the TRACES system by Italy, Romania, Estonia, Norway, Croatia and France.
- → Demos from Belgium, the Netherlands and Switzerland



→ Who does the declaration of the movements?

It depends (see annex 2 for detailed answers)

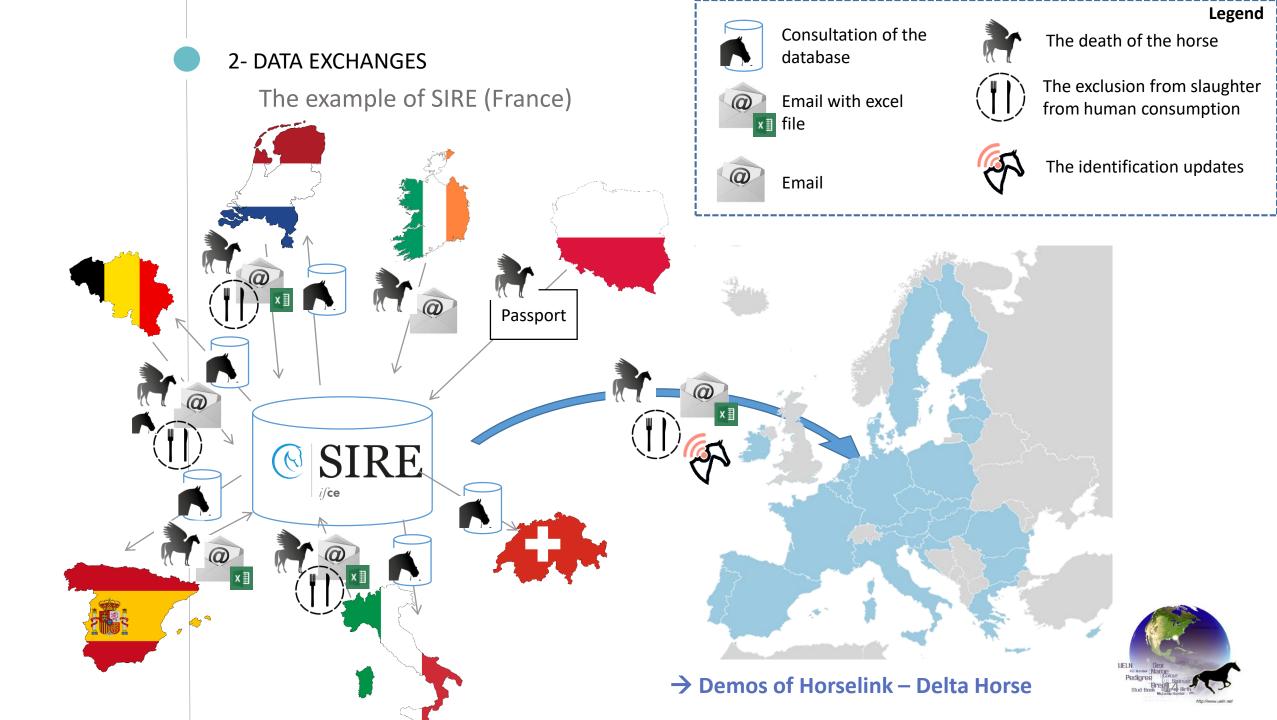


2- DATA EXCHANGES

Key points

- Data exchange format of an XML Schema Definition (XSD)
- An operator of establishments, operators of equine animal and operators of slaughterhouses has a free of charge read-only access to the following information (art 7 (2.), EU 2021/963):
 - the unique code
 - where available, the identification code (code displayed by the physical means of identification)
 - the status of the equine animal, as intended for or excluded from slaughter for human consumption.
- List of the data that could be exchanged between Member States or with the Issuing body
 - The exclusion from the food chain of the horse
 - The death of the horse
 - The identification updates (for example : new chip, description changes, castration...)
 - The assignment of a validation mark or a licence
- The extension of activity of breeding societies might induce a need for data exchanges





Context

- Genetic markers are important resources for individual identification and parentage assessment.
- Short tandem repeats (STRs) have been the traditional DNA marker
- Technological advances have led to single nucleotide polymorphisms (SNPs) becoming an attractive alternative.
- The International Society for Animal Genetics is working on the definition of a SNP panel for horses.





Results of the survey (1/6)

32 participants

EUROPA

Belgium: BWP, Zangersheide

UK: British Spotted Pony Society, Weatherbys, Arab Horse Society,

Sports Pony, British Hanoverian Horse society, The Coloured Horse &

Pony Society

Ireland: Horse Sport Ireland

Germany: Oldenburg, Holsteiner, Trakehner

Spain: ANCCE, Ancades

Hungary: Federation of Hungarian Horse Breeders

The Netherlands: KWPN

Bulgaria: Bulgarian Sport Horse Association

Italy: Unirelab SRL,

Portugal: Sobreiro Velho,

Romania: AGENŢIA NAŢIONALĂ PENTRU ZOOTEHNIE

Norway: Norsk Hestesenter

Sweden: ST and SWB

Switzerland: Zuchtverband CH-Sportpferde ZVCH

Luxembourg: Stud-Book du Cheval de Selle Luxembourgeois

France: IFCE.



US: ANSF, Warmblood

Mexico: Studbook La Silla

Canada: Canadian Warmblood

Horse Breeders Association

AFRICA

South Africa:

The South African

Warmblood Horse Society

PACIFIC

NZ: New Zealand

Warmblood Association

Incorporated

Australia: ACE Group Inc



Results of the survey (2/6)

Mandatory information to register a horse in a studbook

Compatible Parentage Verification (PV) & DNA profile for most of the studbooks (90% of participants)

 Some Genes of Interest (GI) for: Trakehner, KWPN, New Zealand Warmblood Association Incorporated, AGENŢIA NAŢIONALĂ PENTRU ZOOTEHNIE, Zuchtverband CH-Sportpferde ZVCH, American Warmblood Registry

How DNA is sample?

- DNA is mainly sampled from Hairs (72%)
- Blood sampling is done in France, UK, Italy, Spain and Hungary.



Results of the survey (3/6)

International Data Exchange of DNA cards

Up to now, most of the studbooks ask for STR DNA markers in PDF format, except for:

Country		Studbook		DNA cards		
				Requested in case of Importation	Sent in case of Exportation	
	Ireland	Horse Sport Ireland	HORSE SPORT IRELAND	Both	Both	
	Hungary	Federation of Hungarian	Horse Breeders 💩	STR unless genotyped in SNP	STR	
	Netherlands	KWPN	KWPN Royal Dutch Sport Horse	SNP	SNP	
	Bulgaria	Sport Horse Association	Association Bulgarian Sport Horse	Both	STR	
	Germany	Holsteiner	HOLSTEINER.	SNP	STR	
劇	Spain	ANCCE	PRE	Both	Both	
	USA	ANSF	SE	Both	Both	



Results of the survey (4/6)

Studbooks using the SNP technology for horse genotyping

Countries	Studbooks/ countries current analyses with the SNP techno		Since	SNP profiles for who?
療	ANCCE	PRE ANCCE	2023	Dams & Sires
	Horse Sport Ireland	HORSE SPORT IRELAND	2022	'reference library' of 10,000 active breeding animals, prevalent and deceased stallions, other animals of interest
	Oldenburg horse breeding ass	~~~	unknown	Dams, Sires, Foals
	Holsteiner Verband	_HOLSTEINER_ _CUMMANTER_CHANGSUM. RELSSE)	2021	Dams, Sires, Foals
	Trakehner Verband	TRAKEHNER VERBAND	2021	Foals
	KWPN	KWPN Royal Dutch Sport Horse	2016 2019	Stallions Foals



Results of the survey (5/6)

The USE of the SNP technology for horse genotyping

PV = Parentage Verification

Studbook	PV by SNP since	markers for PV	SNP to STR conversion	Double sampling	Chip - nb of markers	Chip - supplier - type
ANCCE	2025		No	Yes for 5 years		
Horse Sport Ireland	2023		No (only for cattle)	Yes	80 000	Illumina - commercial
Oldenburg horse breeding association	Yes		Yes	unknown	unknown	unknown - commercial
Holsteiner Verband	2021		Yes			other - commercial
Trakehner Verband	2022		Yes	Yes, very few	80 000	depends on International Association of Future Horse Breeding
KWPN	2019	200	Yes	Yes	70 000	illumina - customized











Results of the survey (6/6)

Studbooks working on the transition

Countries	Studbooks preparing the transition to the SNP technology		
	Weatherbys	EWEATHERBYS GENERAL STUD BOOK	
	ANSF	SF	
	UNIRELAB	UNIRELAB	
	Ifce – All French Studbooks		



THANK YOU FOR YOUR ATTENTION!



ANNEXES



ANNEX 1: ESTABLISHMENT OPERATORS

Operators who declares the establishments	
the owner of the establishment	
the manager of the establishment	
owner/renter/manager of the establishment	
the owner / manager of the establishment	
the owner/renter/manager of the establishment	
The local authority on demand on the owner of the establishment	
Application for herd number is made by the land owner who nominates a designated keeper for that holding	
the owner of the establishment & the person in charge of the horses	
the person in charge of the animals kept	
the renter/manager of the establishment & the person in charge of the horses	
the owner/renter/manager of the establishment & the person in charge of the horses	
the owner/renter of the establishment & the person in charge of the horses	
the owner/renter of the establishment & the person in charge of the horses	



ANNEX 2: MOVEMENT OPERATORS

Country	Operator who attaches horses to an establishment	Operator who declares the movements between 2 establishments
Latvia	owner of the animals	the person in charge of the horse kept / the owner of the animals
Portugal	establishment's operator / owner of the animals / person in charge of them	owner of the animals or person in charge of them (if there is a change of ownership)
Irland	keeper of the holding	keeper of the holding
Norway	the person in charge of the animals kept	establishment's operator
Italy		establishment's operator
Estonia	establishment's operator	establishment's operator
Denmark	establishment's operator	establishment's operator
Belgium	establishment's operator	establishment's operator
Romania		establishment's operator / owner of the animals
Croatia		establishment's operator / owner of the animals
Poland	establishment's operator /owner/ person in charge of the animals	establishment's operator /owner/ person in charge of the animals
Swizerland	the owner of the horse	the owner of the horse