National Statistics of Embryo Transfer Activity Reported in Europe for 2023

AETE

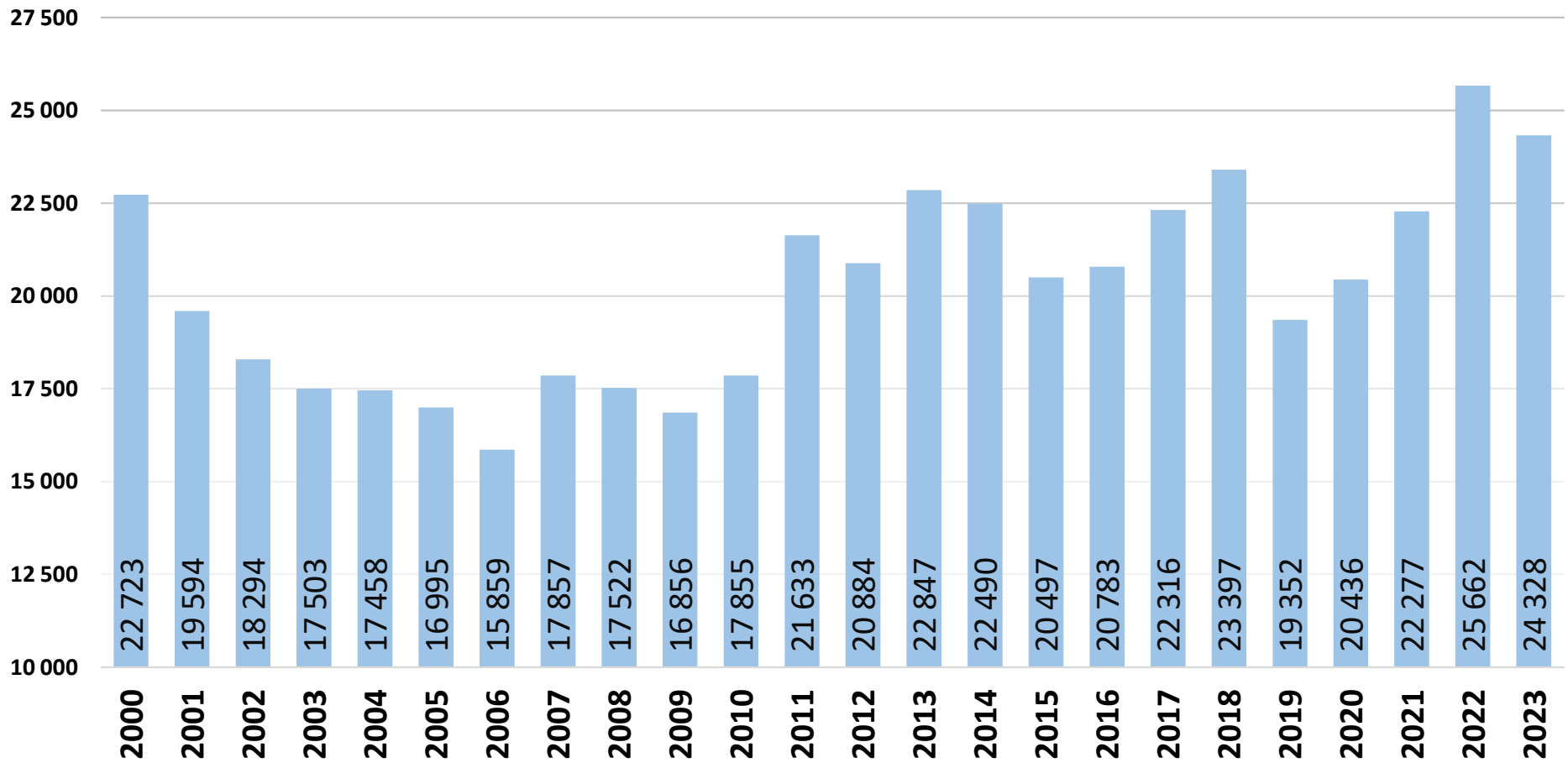
Association Européenne des Technologies de l'Embryon
Association of Embryo Technology in Europe

To Introduce year 2023

- Year of data collection : 2023
- 25 countries have provided data
- No answer or we are looking for data collector from :
  - Bosnia Herzegovina
  - Croatia
  - Greece
  - Ireland
  - Israel
  - Macedonia
- Countries without data available or activity :
  - Belarus
  - Slovakia
  - Ukraine

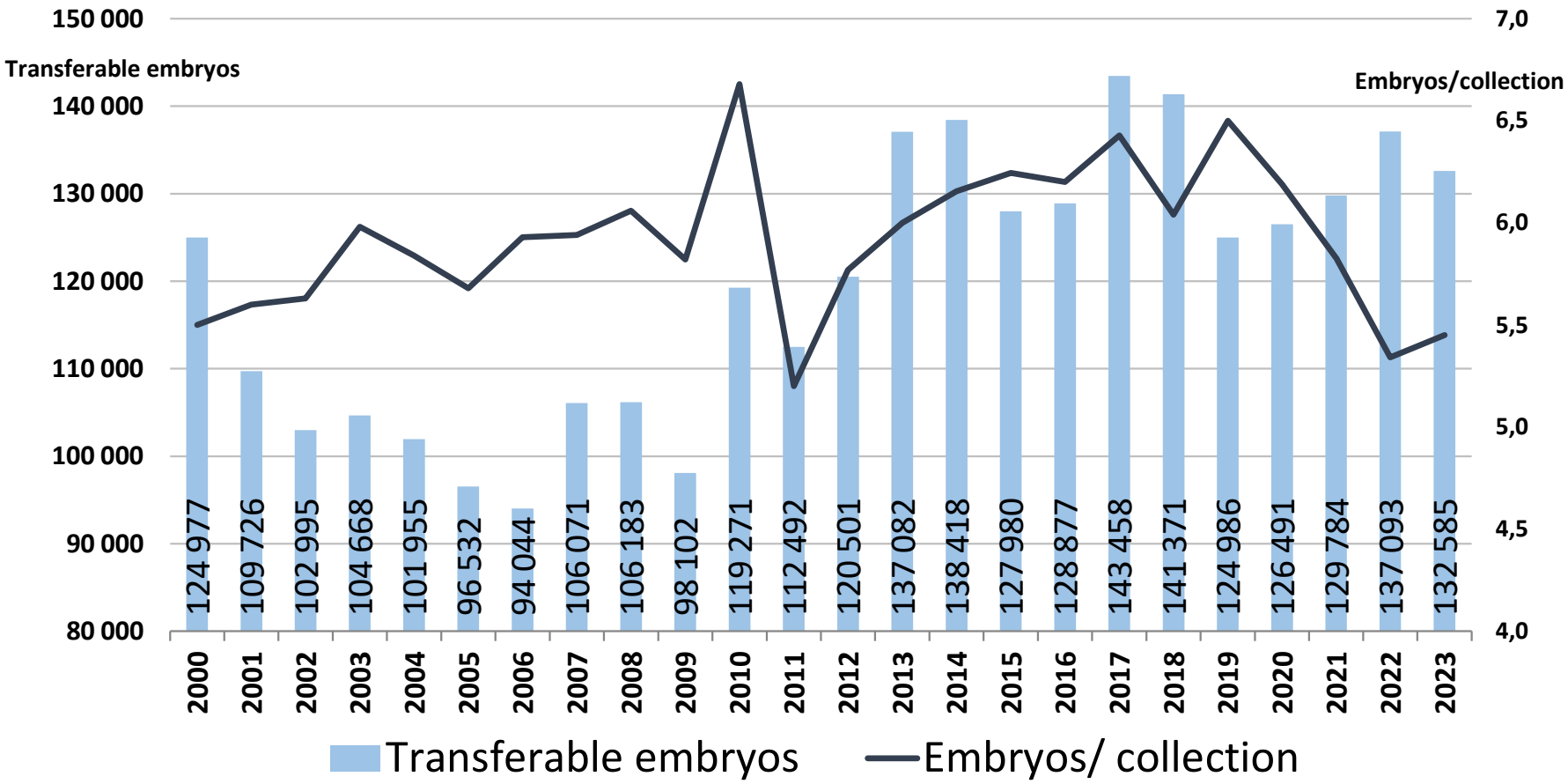
Bovine *In vivo* embryo production

EVOLUTION OF EMBRYO COLLECTIONS



24 328 collections (2022 : 25 662)

EVOLUTION OF IN VIVO EMBRYO PRODUCTION



132 585 embryos produced, 5.4/ collection (2022 : 137 093, 5.3)

Belgium exit (No data about the N° of flushes)

Top 10 countries (sorted by no. of collections reported)

Country	Collect. N°	Diff. to 2022	Part of declarations
France	7 111	12%	29%
Germany	4 305	0%	18%
Netherlands	3 116	**26%**	13%
Italy	2 323	3%	10%
United Kingdom (-2)	1 724	**-57%**	7%
Denmark	1 015	**23%**	4%
Austria	998	**85%**	4%
Hungary	475	11%	2%
Russian Federation(-3)	452	**-59%**	2%
Spain	376	**29%**	2%

Spain come in

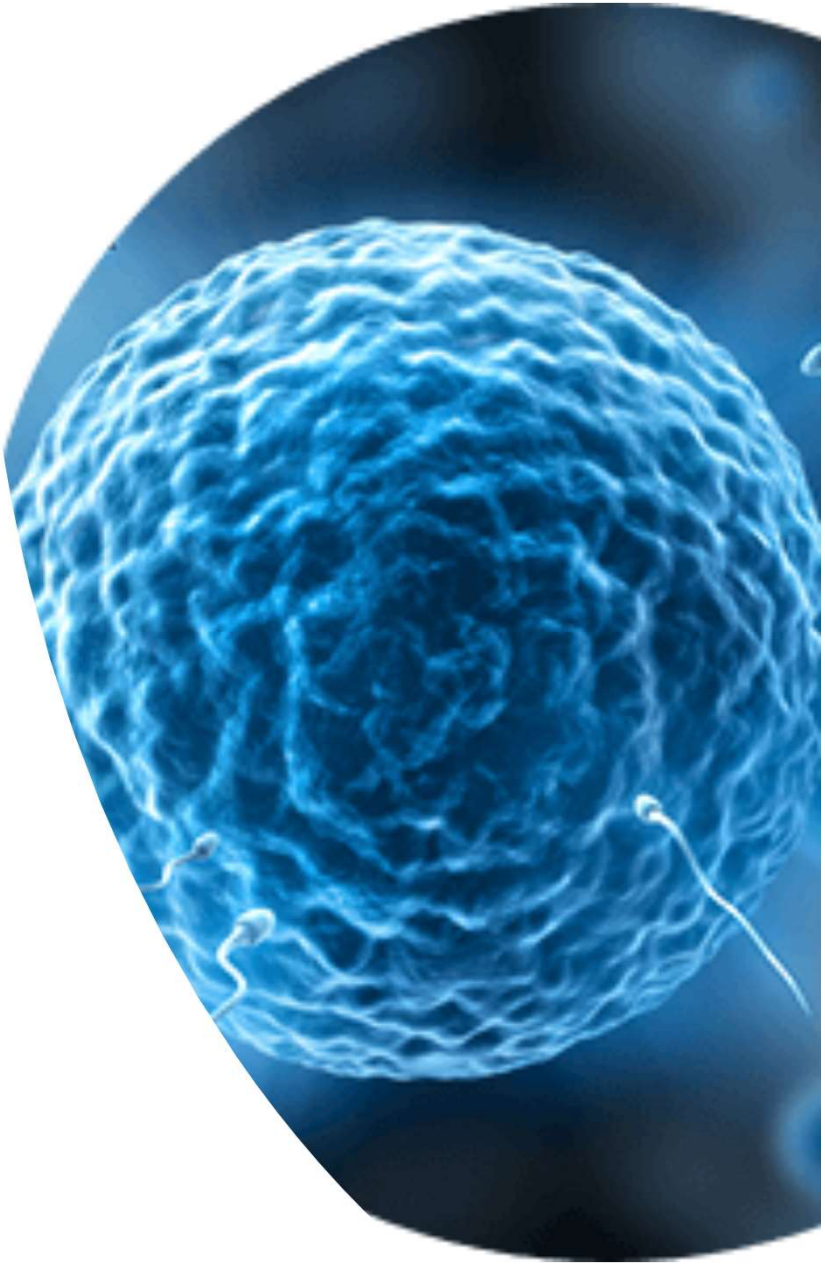
Breed, Semen type

Breed distribution:

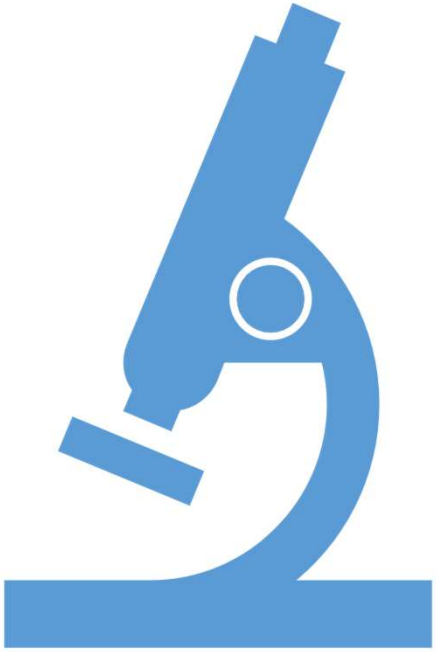
- 85 % of collections on dairy breeds
- 15 % (↓) of collections on beef breeds (France, United Kingdom, Germany, Belgium, Italy, Russia,...)

Sex-sorted semen:

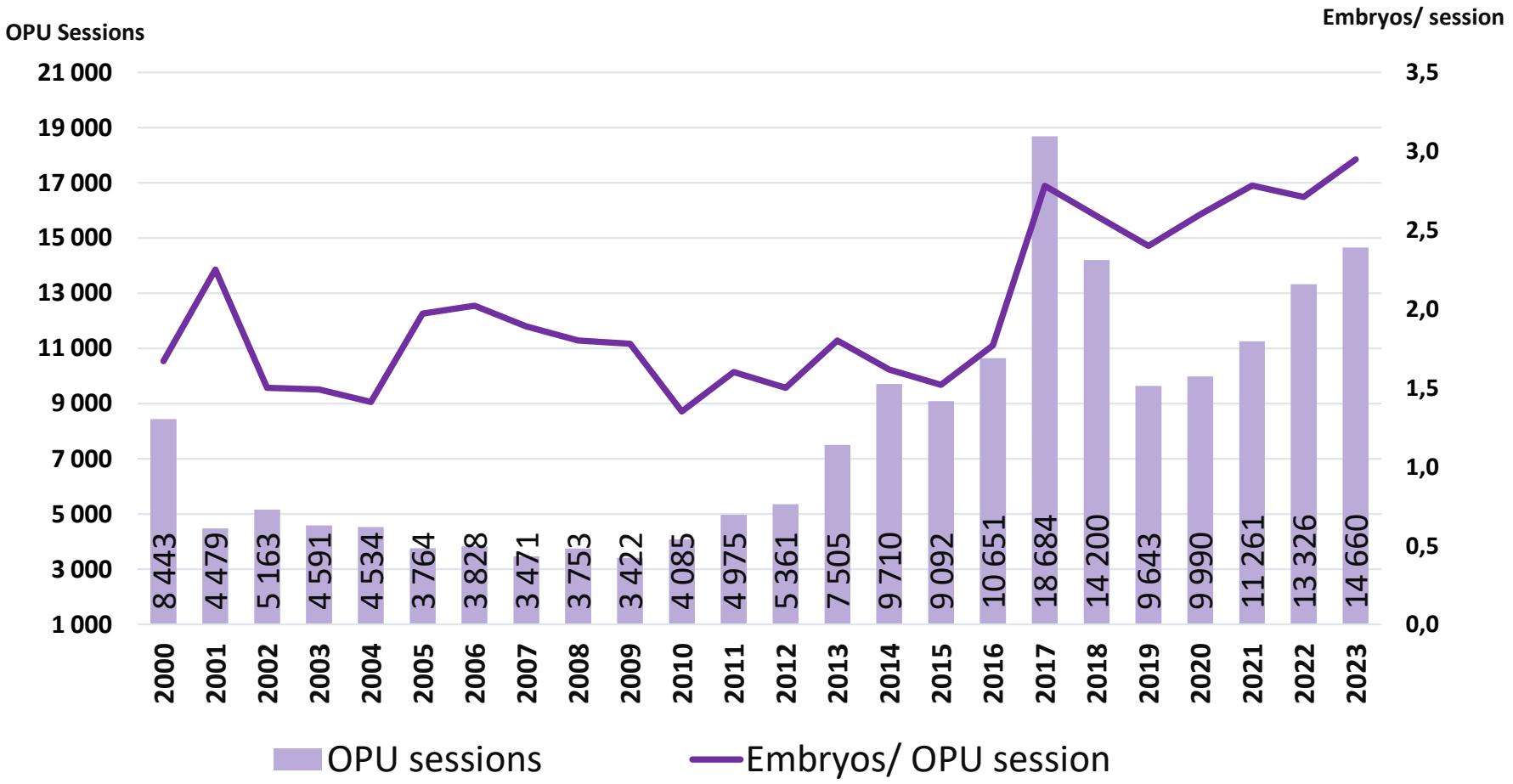
- Reported by 14 (↓) countries
- Reported to be used in **17 %** (↑) of all collections



Bovine *In vitro* *E*mbryo *P*roduction



EVOLUTION OF IN VITRO EMBRYO PRODUCTION



14 660 OPU , 2.9 emb./OPU (2022: 13 326 , 2.7)

Russia and Norway come in

Top 10 countries (sorted by no. of collections reported)

Country	OPU Sessions	Diff. to 2022	Part of declarations
Netherlands	6 402	9%	44%
Germany	1 913	-28%	13%
France	1 824	15%	12%
United Kingdom (+1)	1 531	95%	10%
Spain (-1)	1 227	30%	8%
Finland	554	6%	4%
Italy (+1)	364	78%	2%
Switzerland (-1)	327	43%	2%
Russian Federation	187	93%	1%
Norway	184	372%	1%

Exit of Turkey andPoland

Bovine embryo production 2023

Transferable embryos produced :

In vivo 132 585 (75 %)

- 2022 : 137 093 (79 %)

In vitro 43 227 (25 %)

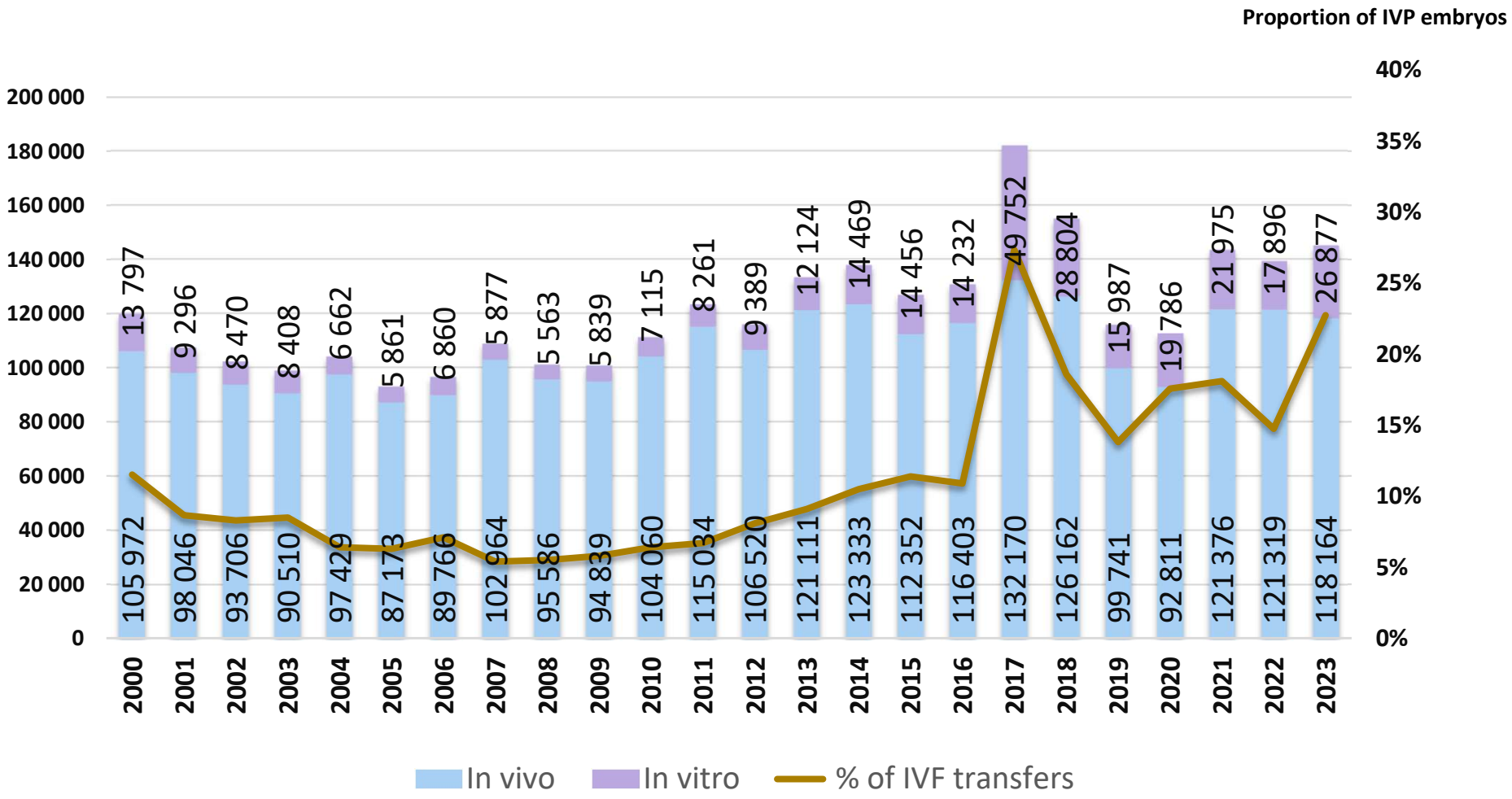
- 2022 : 36 099 (21%)

Total 175 812

- 2022 : 173 192

Bovine embryo transfer
In vivo & In vitro

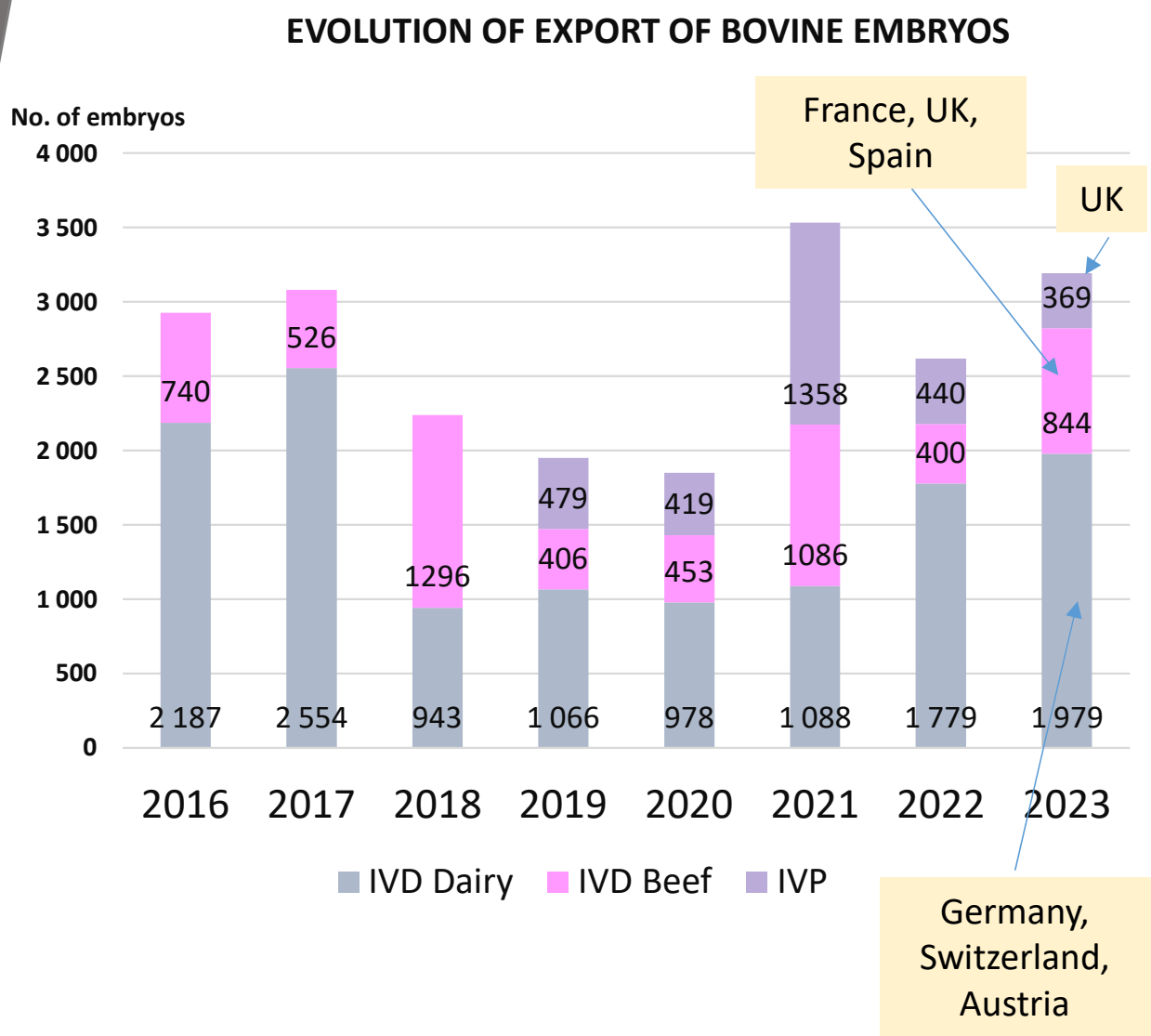
EVOLUTION OF EMBRYO TRANSFERS



145 041 Embryo Transfers (2022: 139 215)

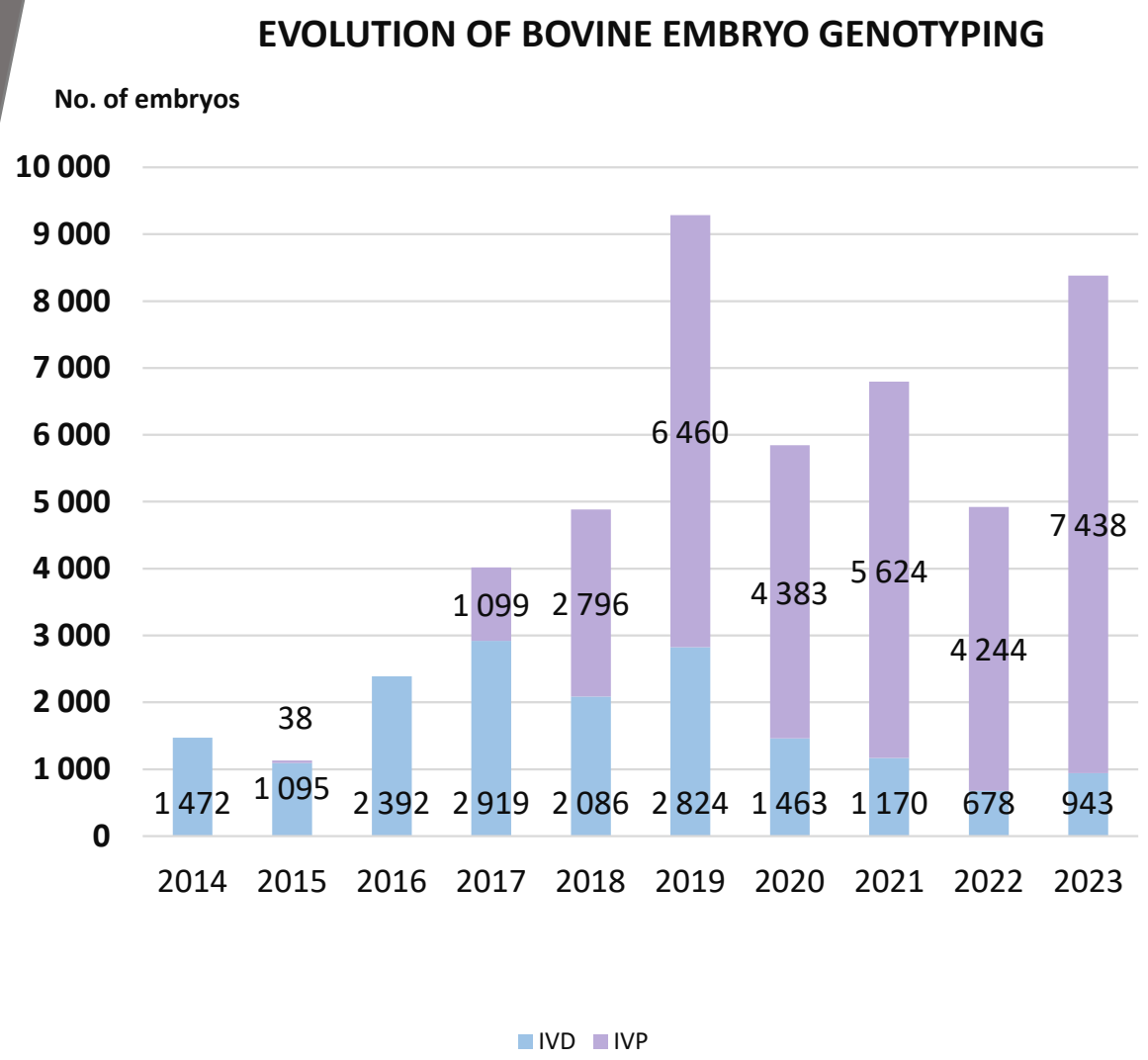
Embryo export

- 2 823 embryos were reported exported (2022 : 2 619)
- 8 reporting countries (2022 : 9)



Embryo genotyping

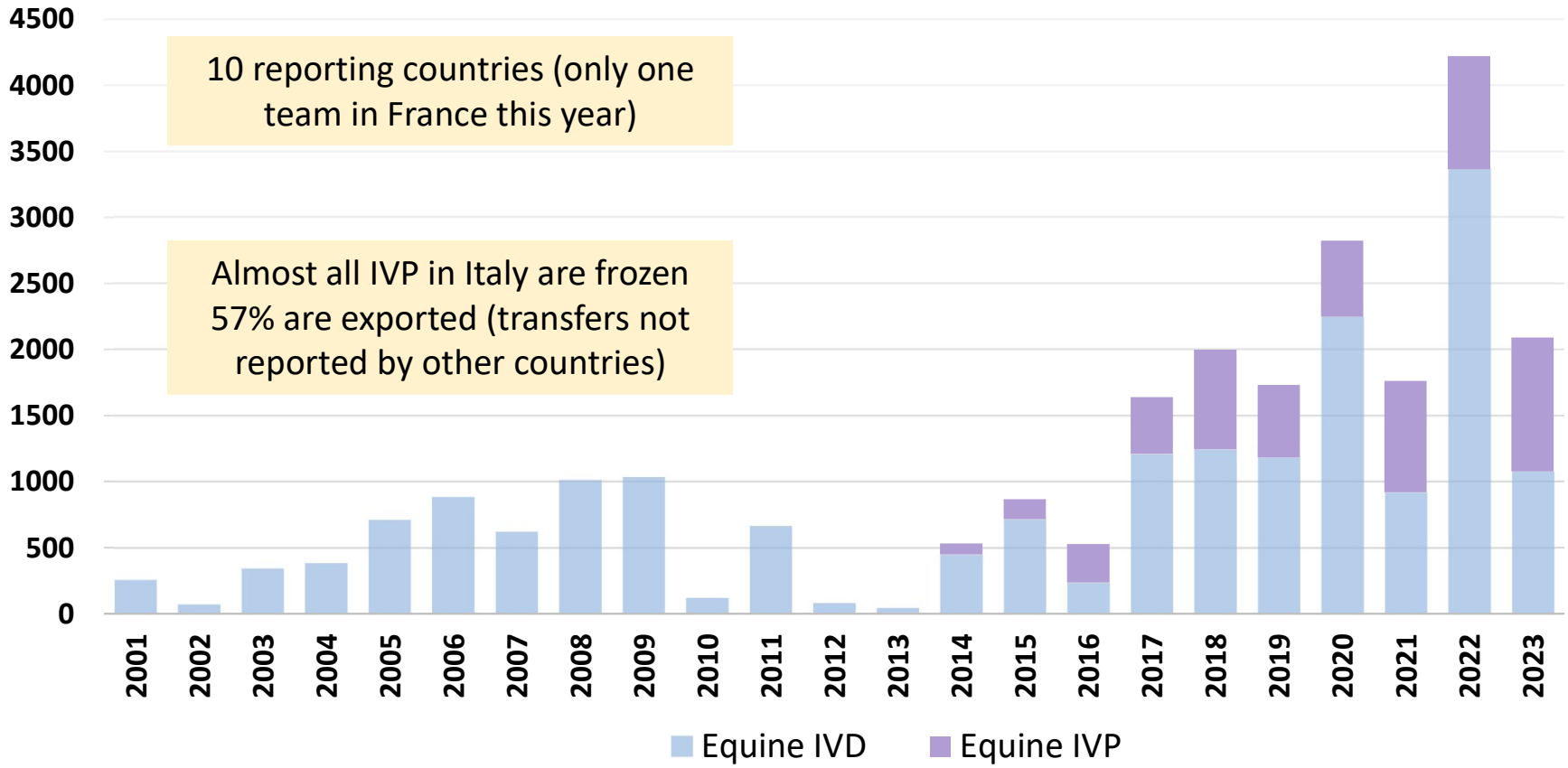
- 8 381 (2022: 4 922) embryos were reported for genotyping, out of which 89 % are IVP
- 3 countries reporting (84% from Netherland)



Embryo production in other species

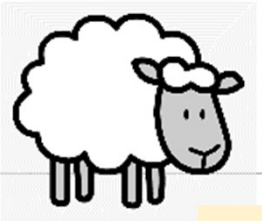
EQUINE

EVOLUTION OF EQUINE EMBRYO TRANSFERS

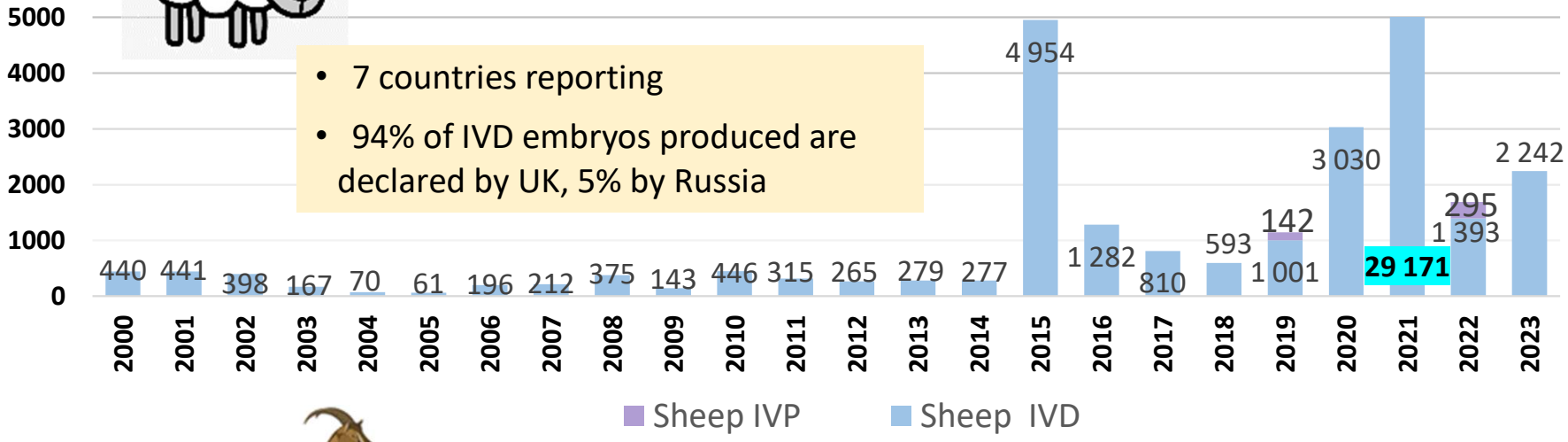


8 010 embryos produced (89 % *IVP*) (2022 : 10 502)
2 090 transferred (48 % IVP) (2022 : 4 217)

Other Ruminants

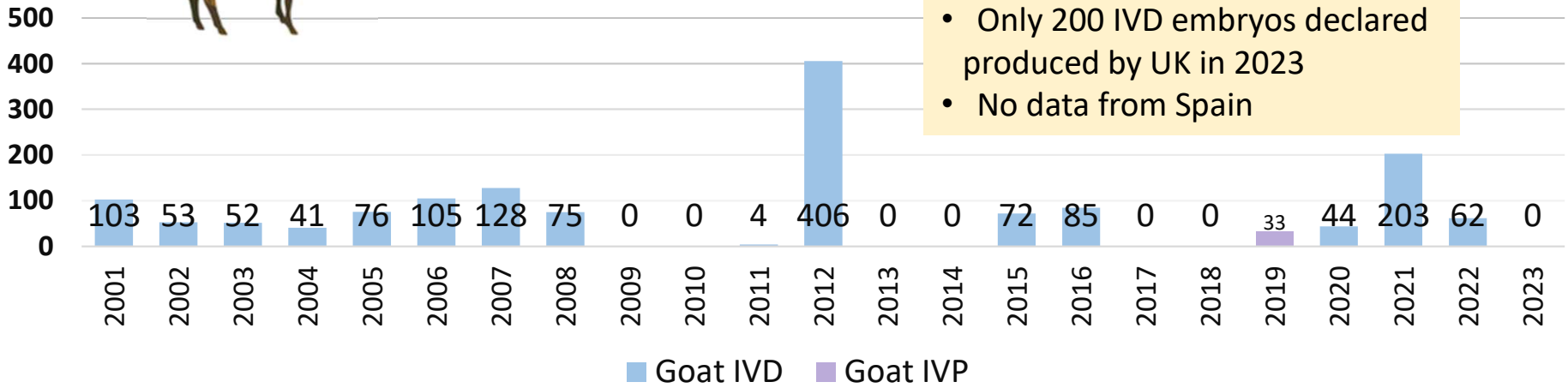


EVOLUTION OF SHEEP EMBRYO TRANSFER



- 7 countries reporting
- 94% of IVD embryos produced are declared by UK, 5% by Russia

EVOLUTION OF GOAT EMBRYO TRANSFERS



- Only 200 IVD embryos declared produced by UK in 2023
- No data from Spain

Sheep : 4 282 embryo collections (2022 : 314), 33 332 IVD embryos / 2 OPU, (2022 : 14) 6 IVP embryos

Statistics are available on AETE website:
Publications -> Statistics

Contact: statistics@aete.eu

Thank You to all data collectors
as well as teams and practitioners
providing data!