AETE

Association Européenne de Transfert Embryonnaire

European Embryo Transfer Association

National Statistical Data of Embryo Transfer Activity in Europe 2014

Data collection form

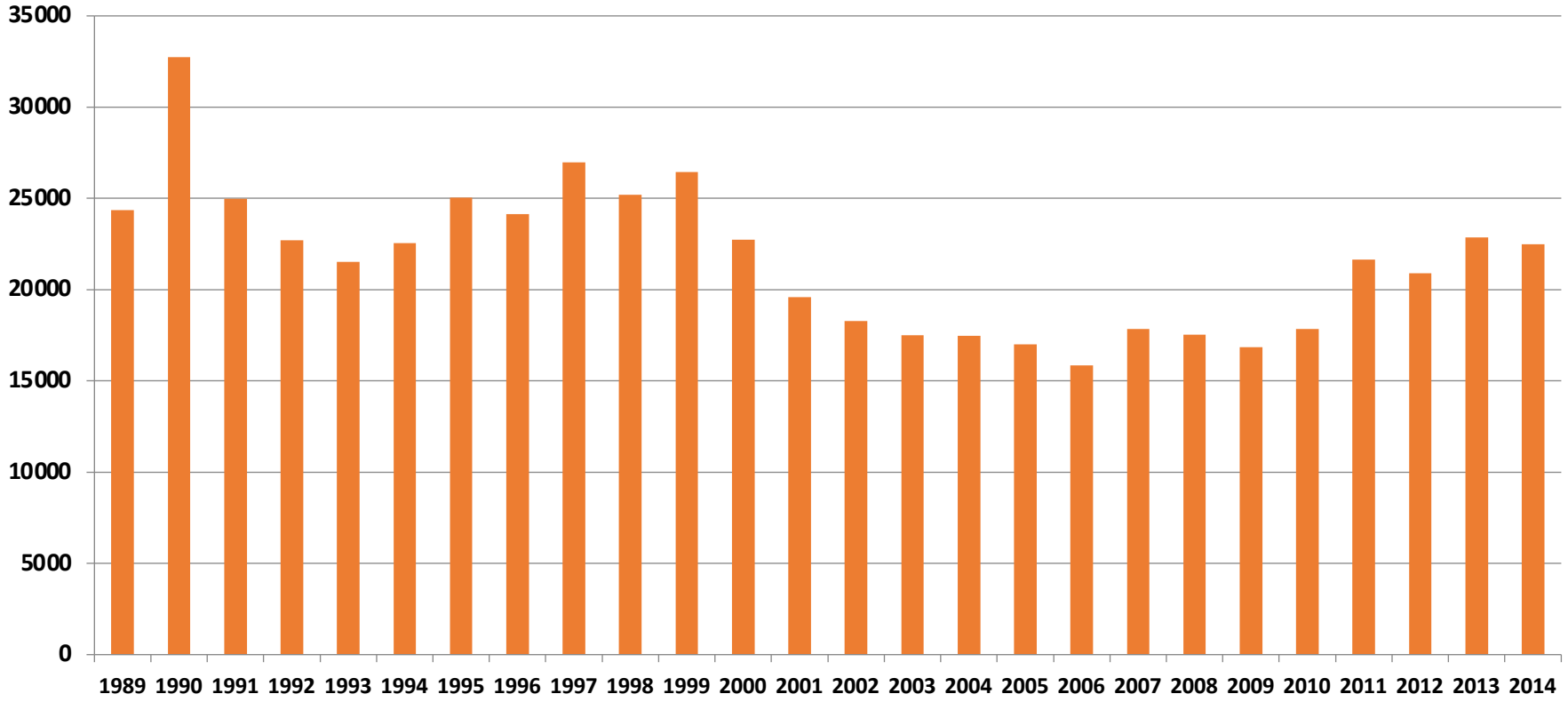
- Collection form was sent to 40 countries
- 31 countries answered (4 reported no activity)
- 9 countries did not reply, data missing

In vivo production

Activity in bovine *in vivo*-embryo production in 22 countries

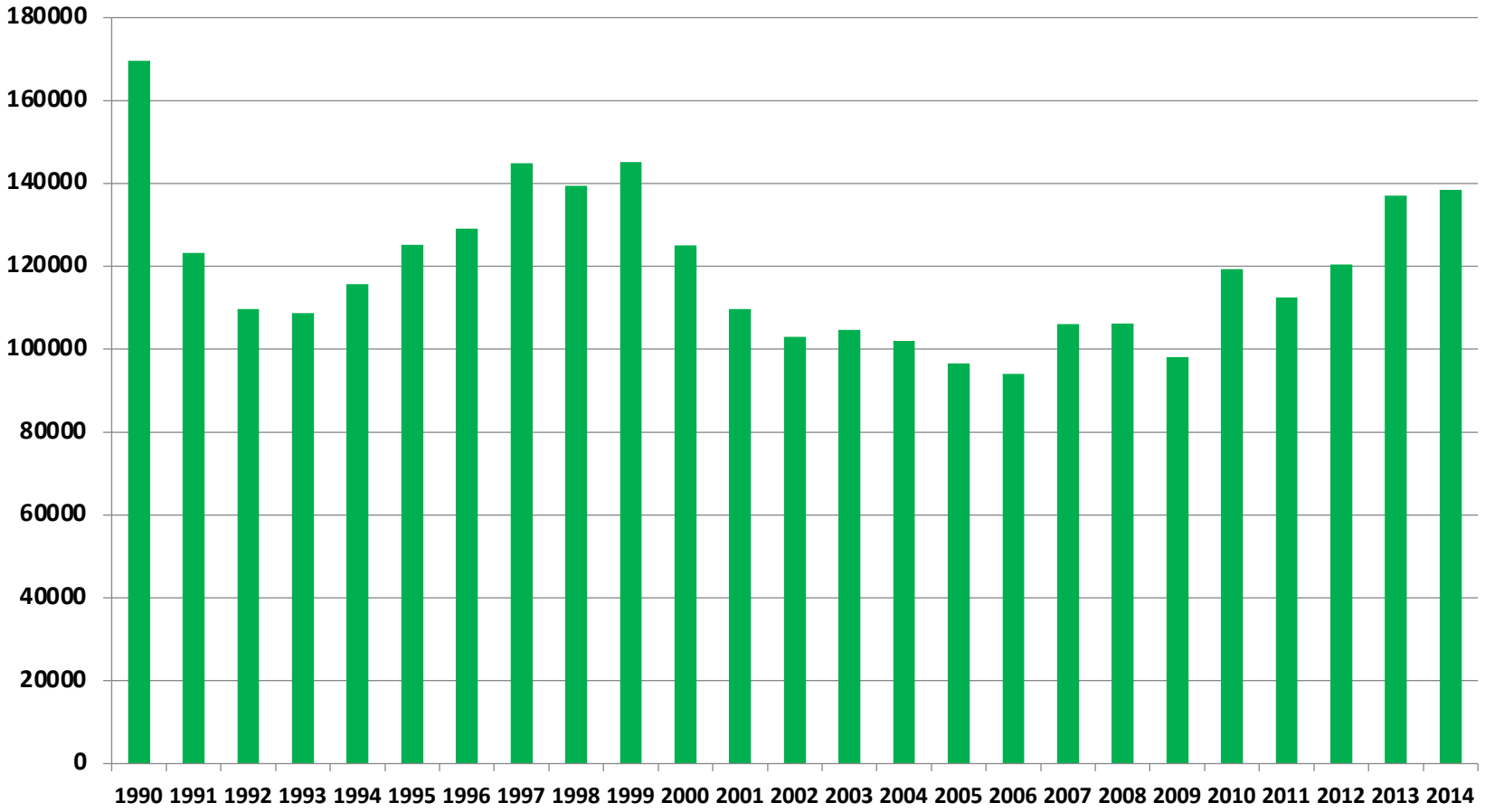
- Austria
- Belgium
- Czech Republic
- Denmark
- Finland
- France
- Germany
- Hungary
- Ireland
- Italy
- Kazakhstan
- Lithuania
- Luxemburg
- The Netherlands
- Norway
- Poland
- Portugal
- Russian Federation
- Slovenia
- Spain
- Sweden
- Switzerland

Bovine embryo collections (flushings)



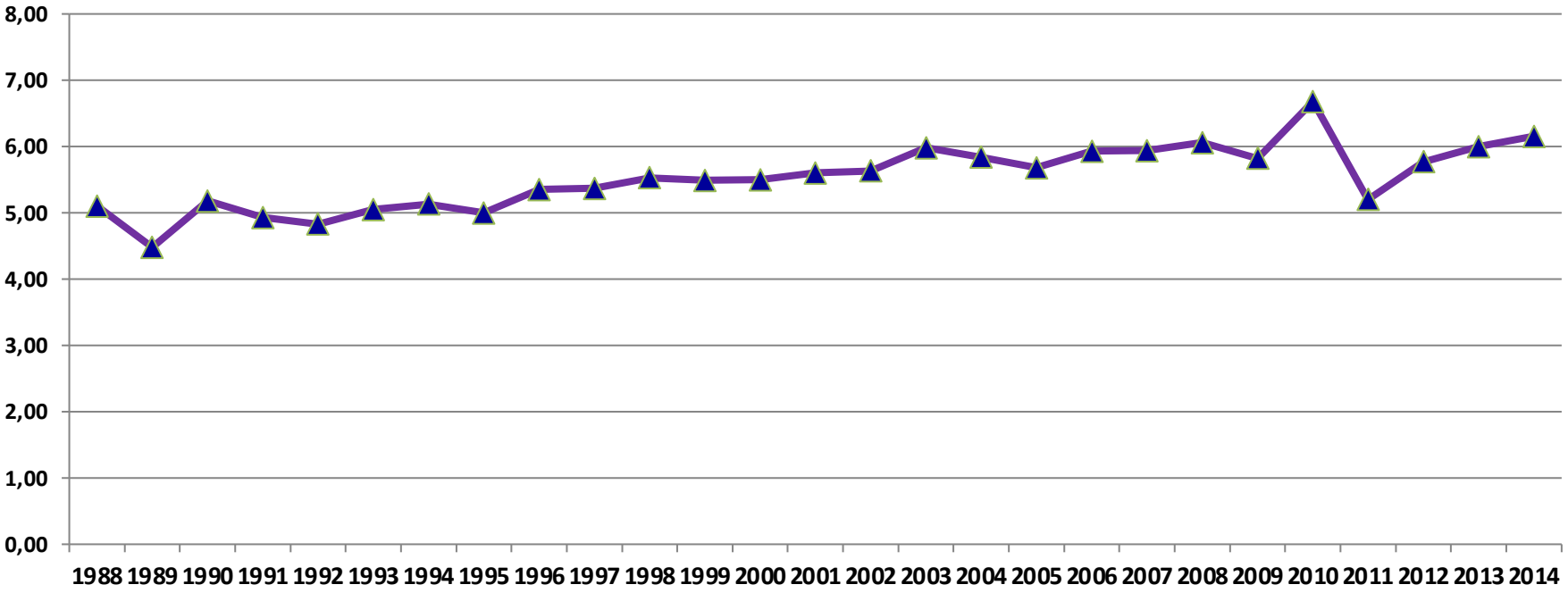
- 2014: 22,490 collections (2013: 22,847)

Transferable in vivo embryos



2014: 138,418 embryos produced (2013: 137,285)

Embryos per collection



2014: 6,2 transferable embryos/ collection

Breeds

18 / 22 countries differentiated collections between dairy / beef / dual purpose

- 80 % dairy
- 15 % beef
- 5 % dual purpose

Sexed semen

- 11 countries reported the use of sexed semen
- Sexed semen was used for 4,3 % of flushed donors

In vitro production

Activity in OPU-IVP

7 countries reported activity on bovine OPU:

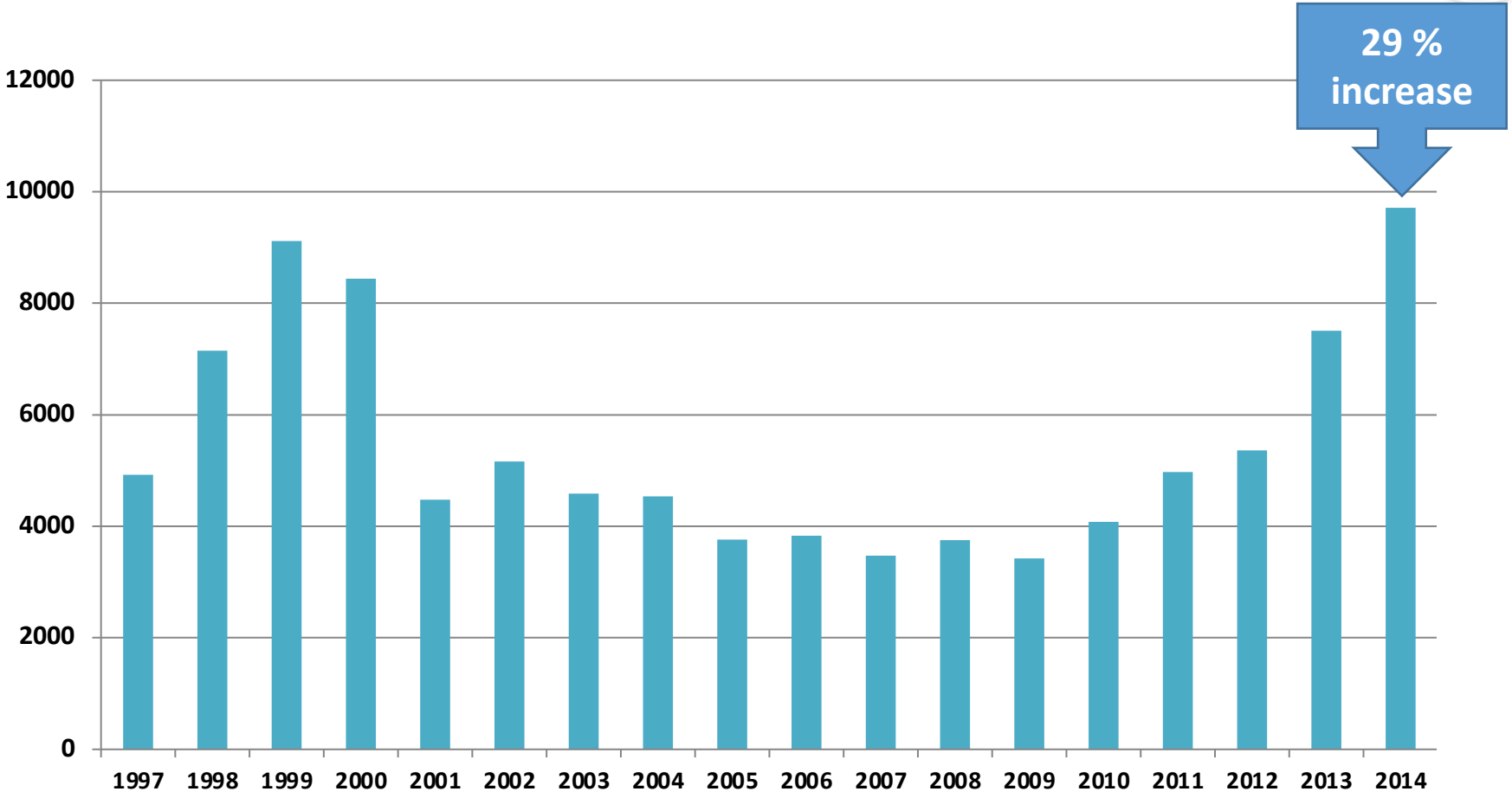
- France (2013)
- Germany (2013)
- Italy (2013)
- The Netherlands (2013)
- Portugal
- Spain (2013)
- Russian Federation (2013)

(2013 Czech Republic)

1 country reported activity on equine OPU:

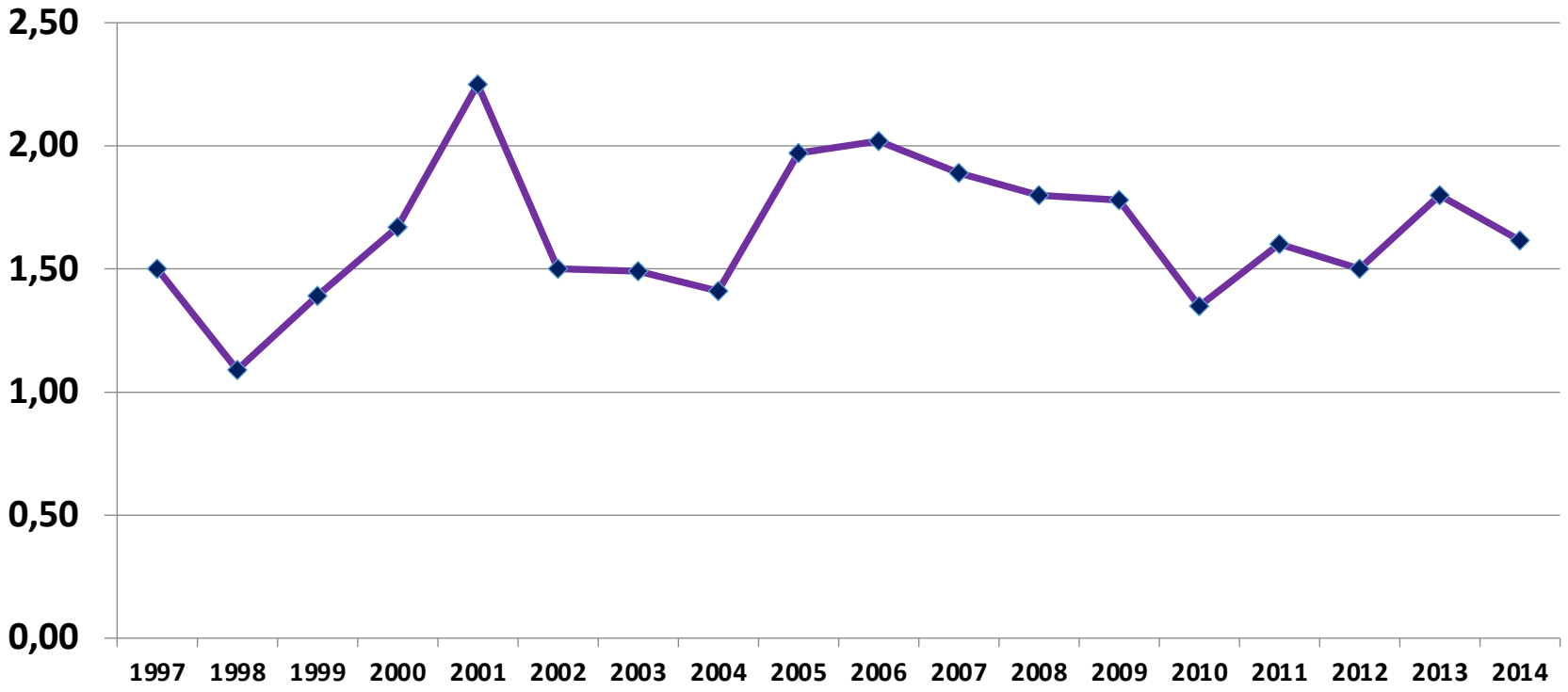
- Italy

OPU sessions



2014: 9,710 OPU-sessions (2013:7,505)

Embryos per OPU session



2014: 1,6 transferable embryos / session

Bovine *in vitro* embryo production from slaughtered donors

8 countries:

- Czech Republic
- France
- Germany
- Italy
- Lithuania
- The Netherlands
- Portugal
- Switzerland

1335 donors → 1369 embryos produced (1,0 embryo/donor)

Total bovine embryo production 2014

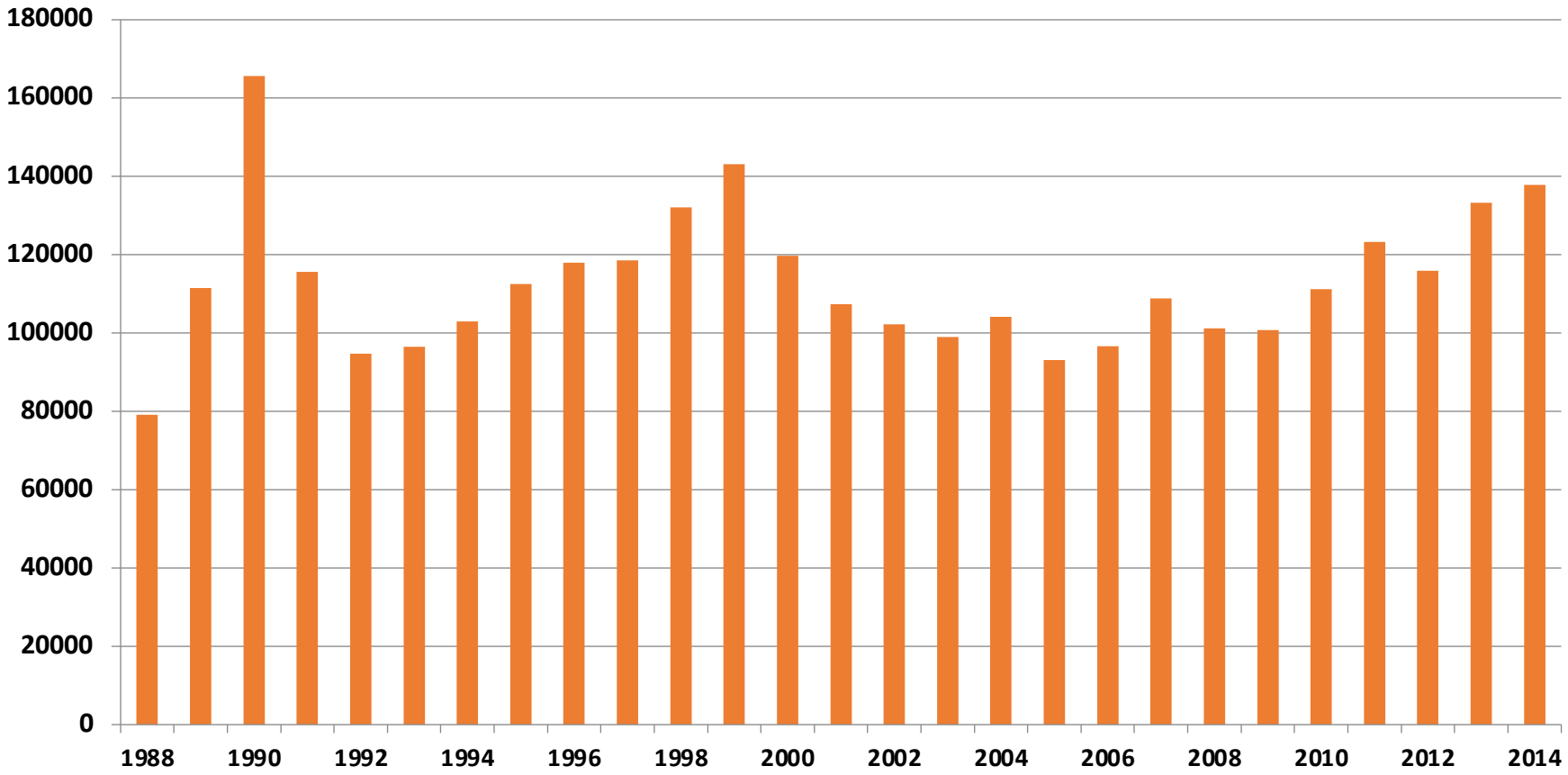
Number of transferable embryos:

•In vivo	138,418	(2013: 137,285)
•In vitro	15,693	(2013: 13,712)
	=154,111	(2013: 150,997)

Embryo transfer

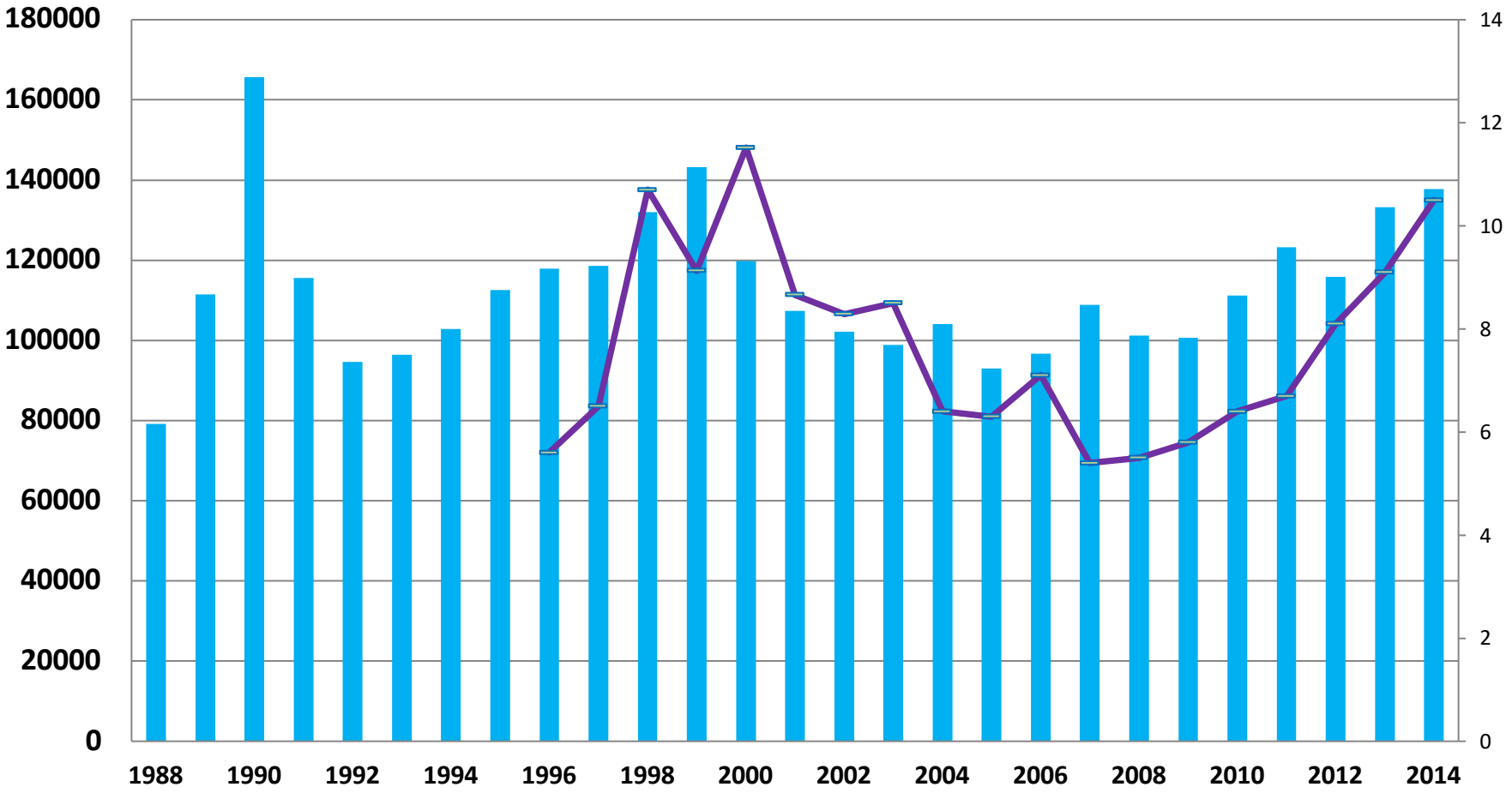
(In vivo & in vitro)

Number of transferred embryos



2014: 137,802 (2013:133,234)

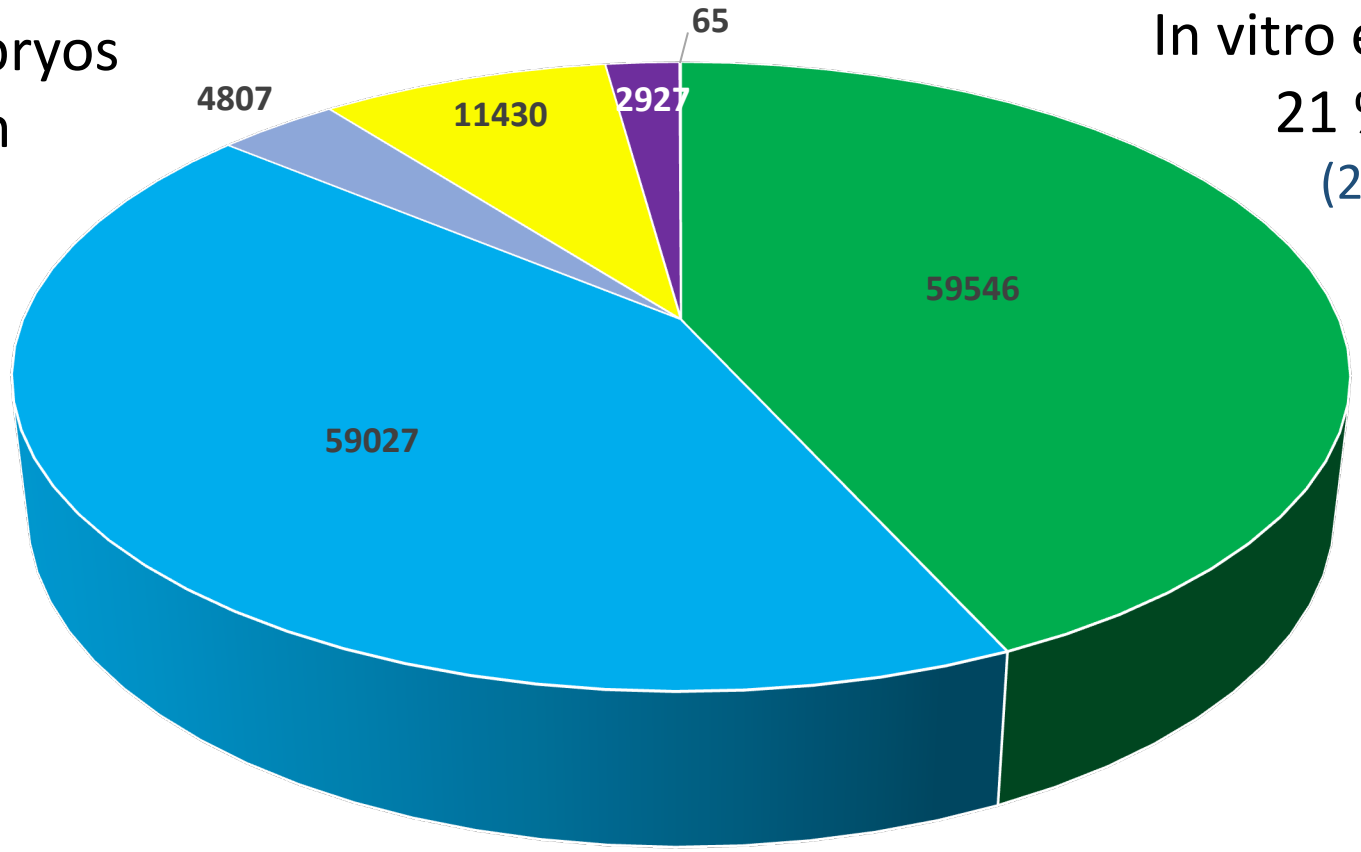
Number of transferred embryos (% IVP embryos)



Embryo transfer by embryo type

In vivo embryos
52 % frozen
(2013 61 %)

In vitro embryos
21 % frozen
(2013 23 %)



Genotyping of embryos

3 countries reported genotyping of embryos

- 1472 *in vivo* embryos genotyped

  (1,06 % of embryos produced)

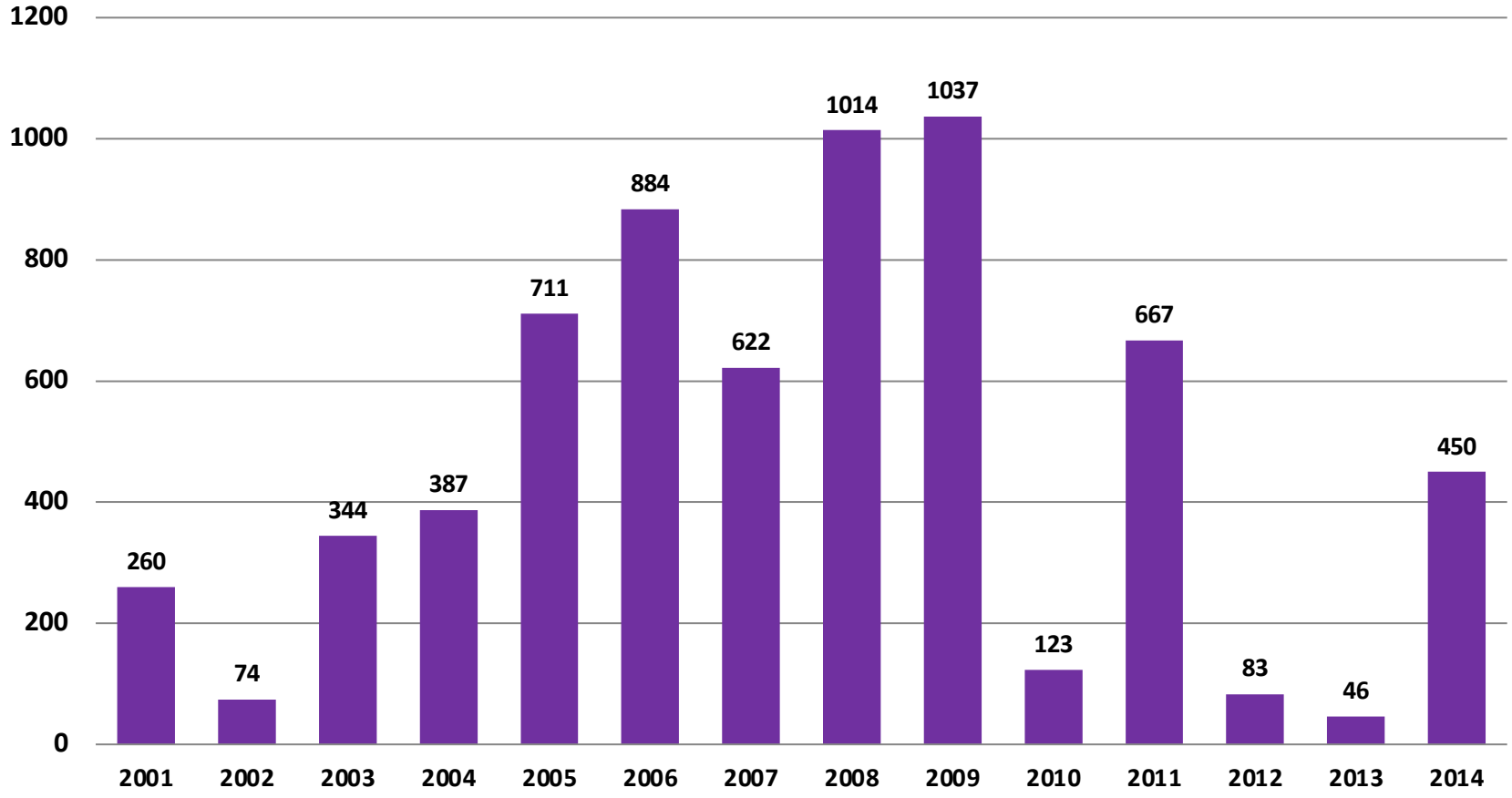
  France
  Netherlands
  Germany

Other species

- Data is difficult to collect, majority of data is lacking and therefore numbers are underestimated

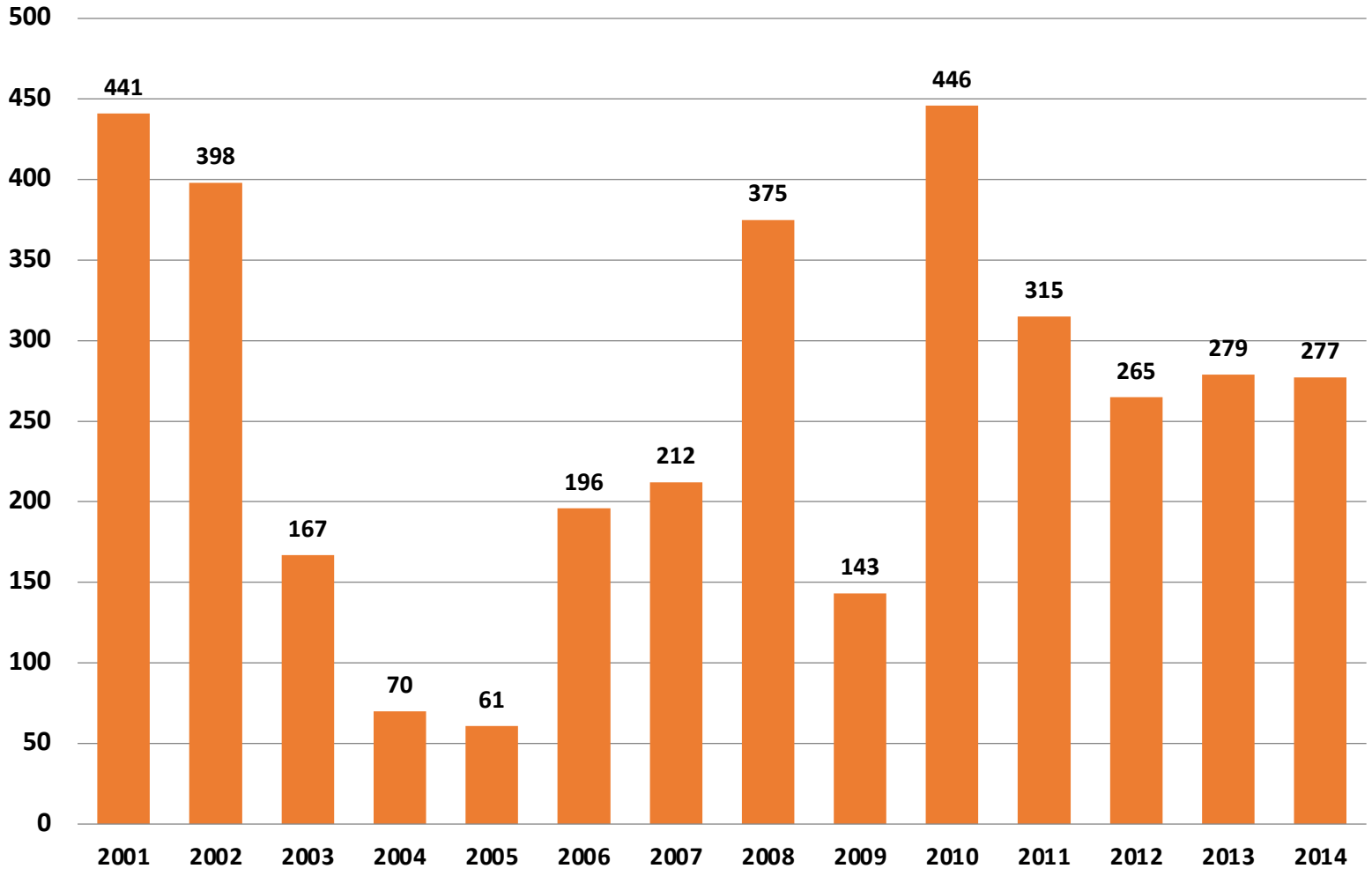
- 5 countries reported activities in other species

Embryo transfer equine



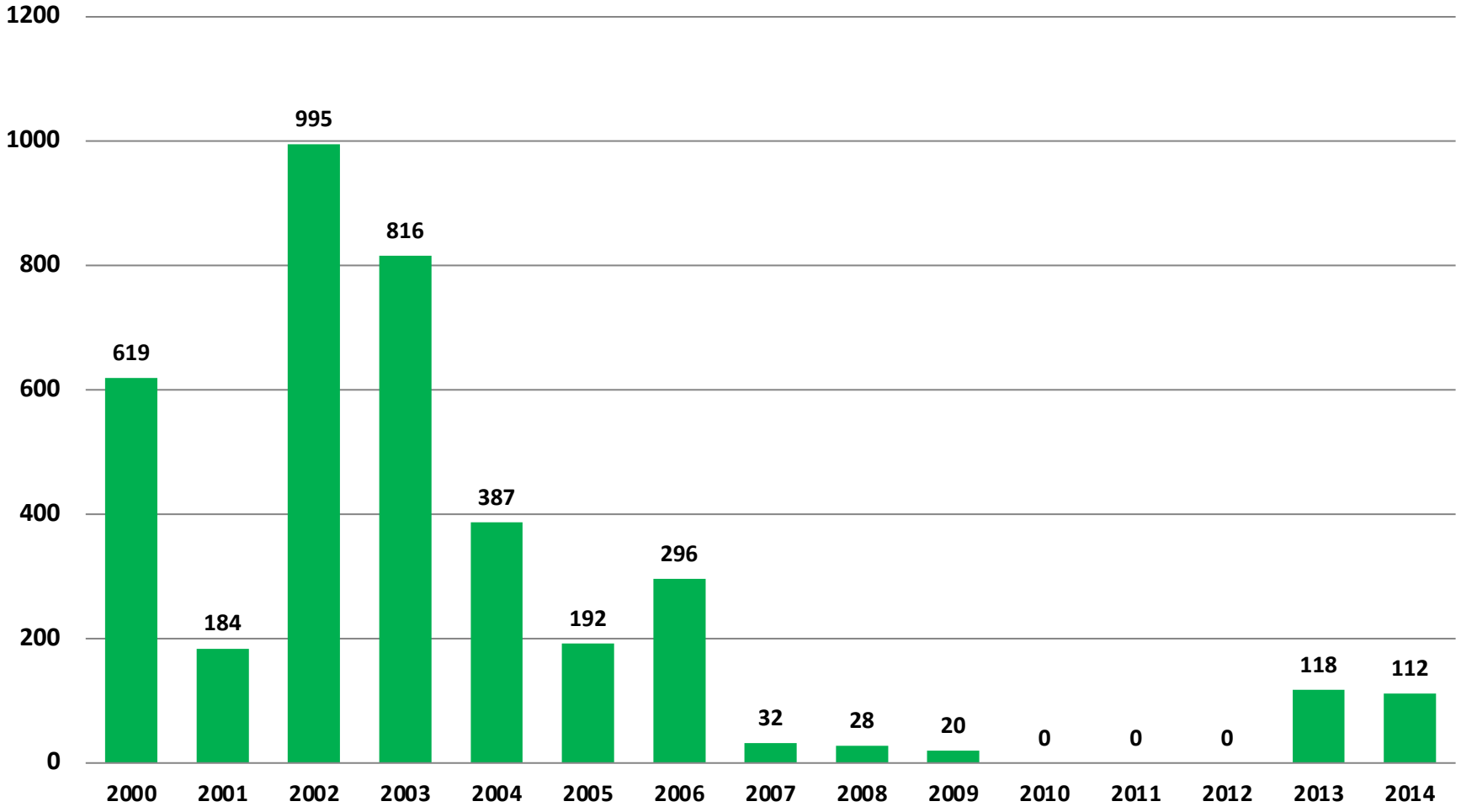
Italy, France, Poland, Portugal, Switzerland

Embryo transfer / production sheep



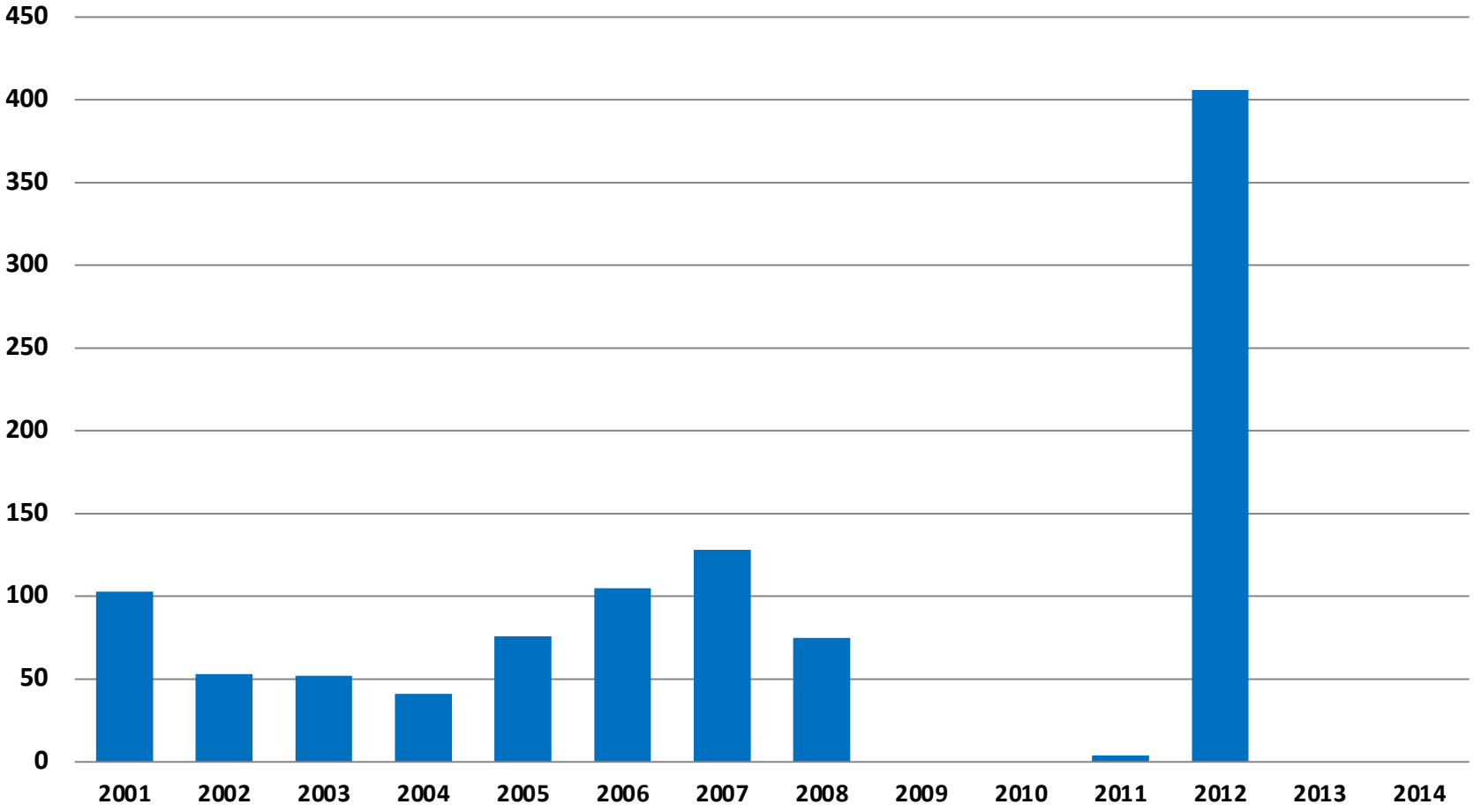
Portugal, Turkey

Embryo transfer / production porcine



France, Switzerland

Embryo transfer / production goat



Data collection

- European data is provided by AETE for International Embryo Transfer Society (IETS)
- Statistics of embryo transfer activity and international embryo trade are information of high value when evaluating the vitality of the ET-business and sanitary aspects of embryo transfer
- Countries on the IETS database, that did not report their activities 2014 (mainly because of lacking contact information):
  - Bulgaria
  - Macedonia
  - Romania
  - Slovak Republic
  - Albania
  - Andorra
  - Cyprus
  - Iceland
  - Liechtenstein
  - Malta
  - Monaco
  - San Marino

If you have contact information to missing countries, please help us collect the data

Contact: marja.mikkola@faba.fi
marja.mikkola@vikinggenetics.com

Thank You and an applause for all data collectors!