



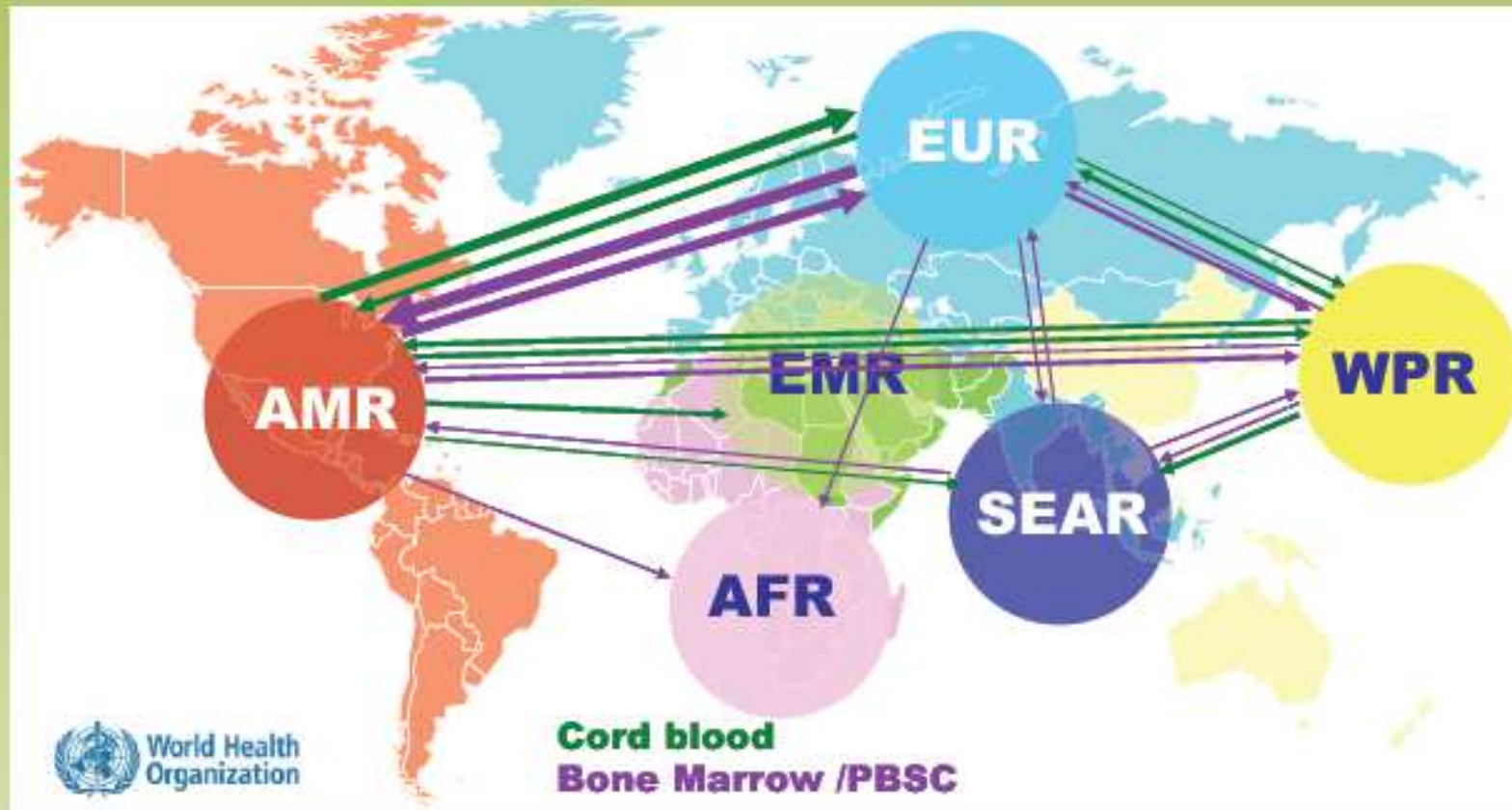
# **World Marrow Donor Association (WMDA) Annual Report 2011**

**A project from the WMDA Donor Registries and  
Cord Blood Working Groups**

[www.worldmarrow.org](http://www.worldmarrow.org)



# Import-export activity of Unrelated HSCT



In 2011 internationally provided:

6,513 HPC, Marrow/Apheresis

1,338 Cord Blood Units

**42.9%**



## Twenty years ago...



1991

720,000 donors



1992

1,018 unrelated BM  
donations globally

14 registries

*Bone Marrow Transplantation* 1992, 10: 287-291

© Macmillan Press Ltd, 1992

### Special report

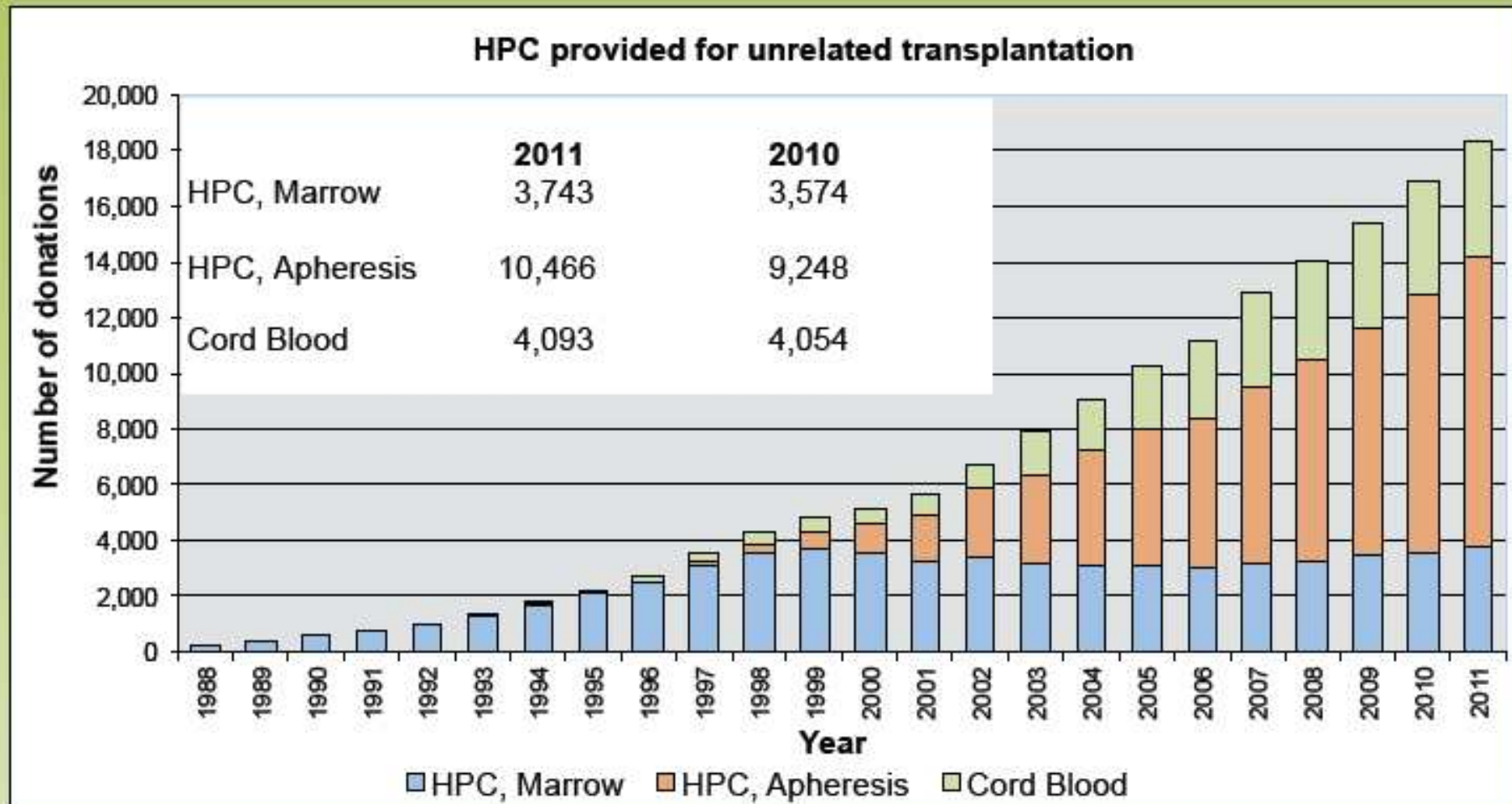
**Bone marrow transplants using volunteer donors — recommendations and requirements for a standardized practice throughout the world**

from the Executive Committee of the World Marrow Donor Association

***Bone Marrow Transplantation, 1992, 10:287-291;  
Executive Committee of the WMDA***



# World Marrow Donor Association (WMDA) Annual Report 2011

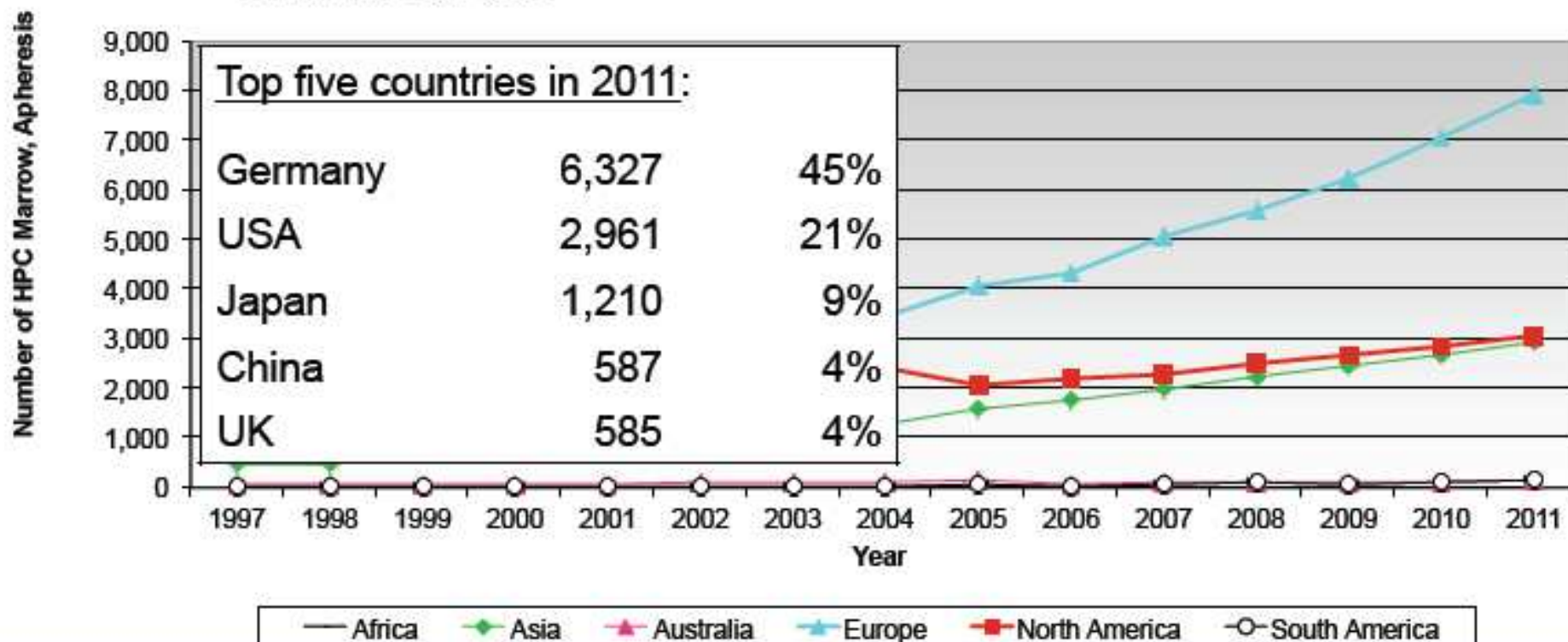


78 stem cell donor registries listing 20,571,761 million donors



# Global unrelated donations HPC Marrow-Apheresis

Number HPC Marrow, Apheresis provided for unrelated patients by each continent over time

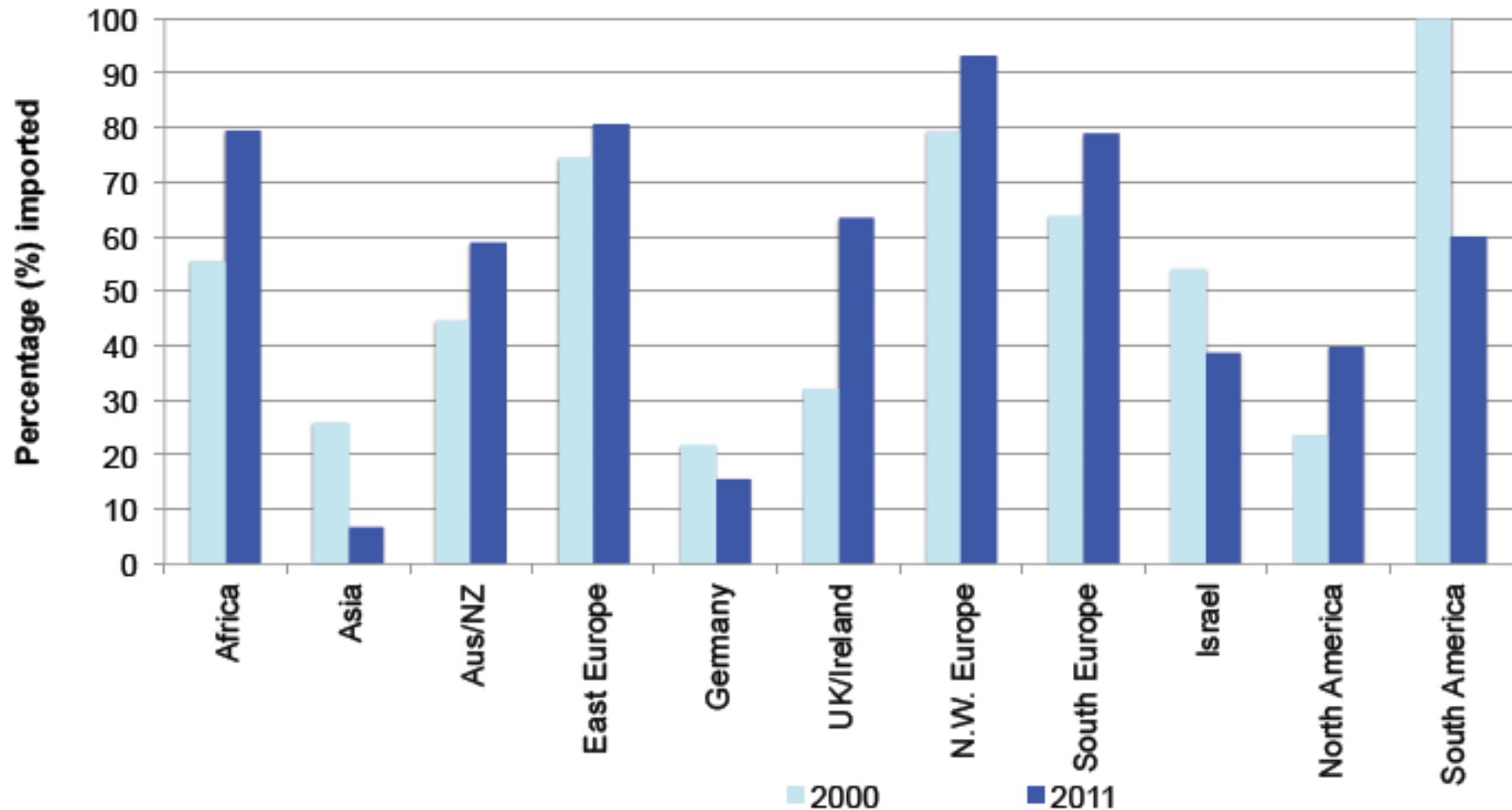


20,571,761 donors listed in 54 different countries



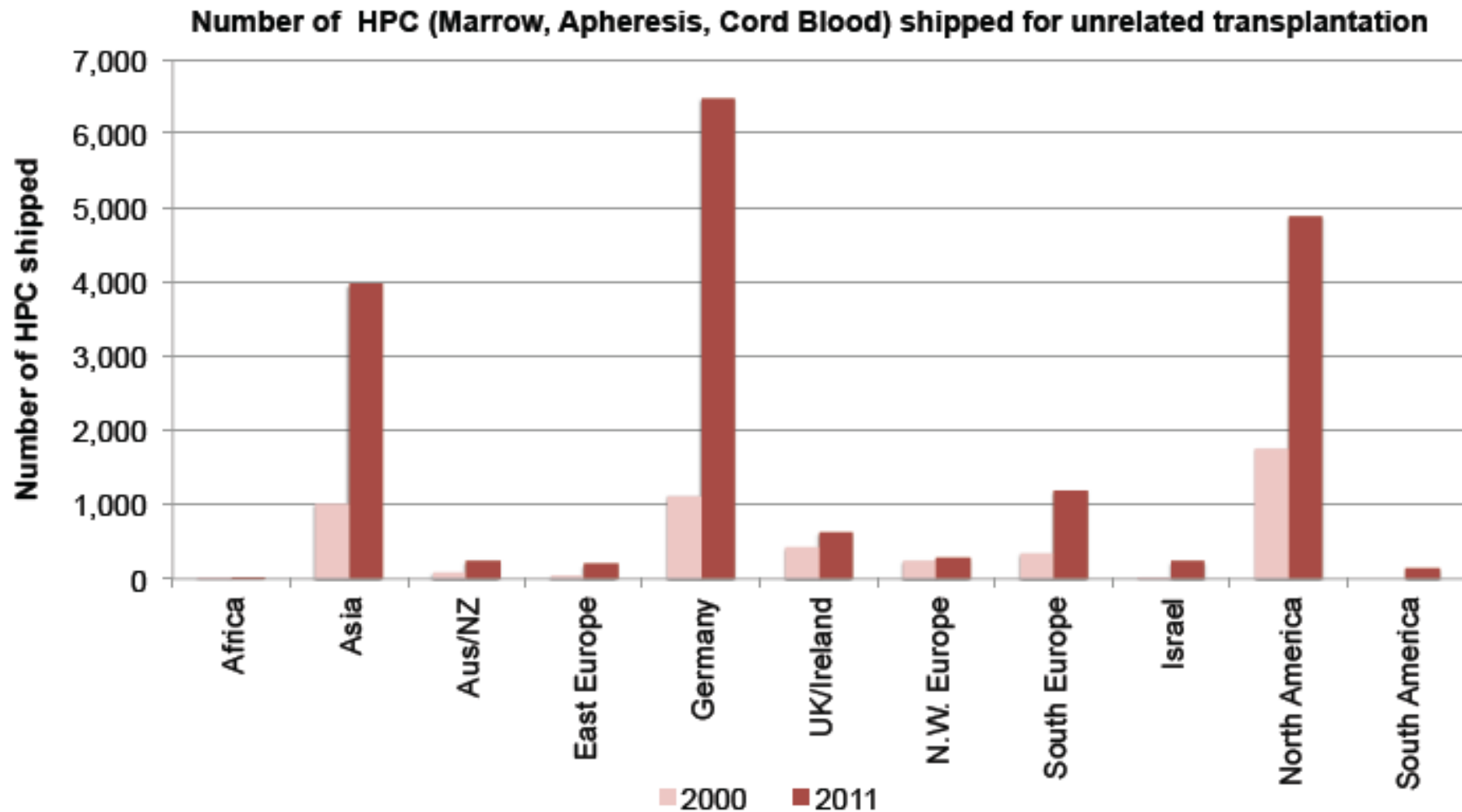
# In Asia, Germany, Israel and South America the import percentage decreased

Percentage HPC (Marrow, Apheresis, Cord Blood) imported



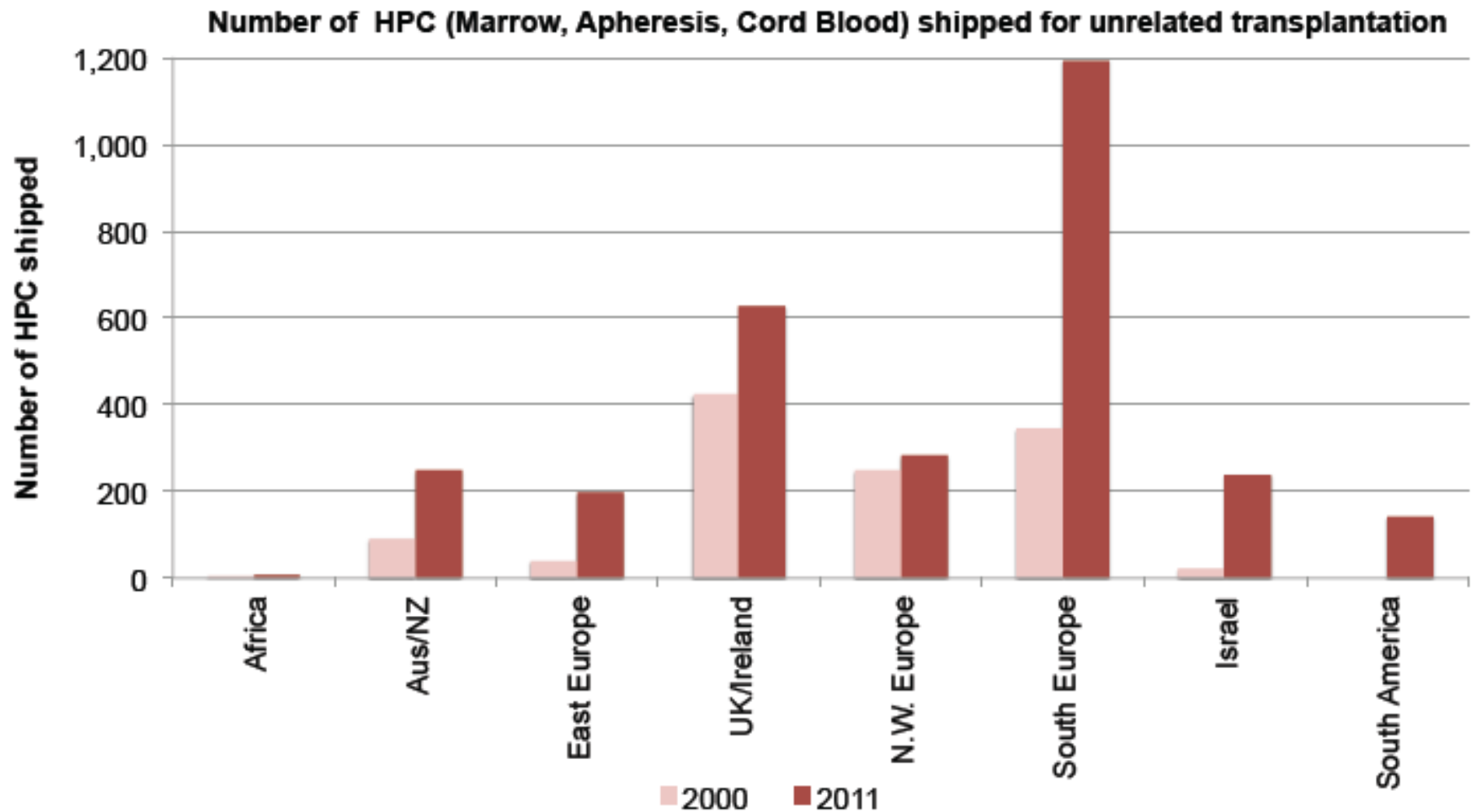


## Larger countries report a growth in the number of shipments.





# European countries with small and medium size registries report a stable or decreasing number of shipments



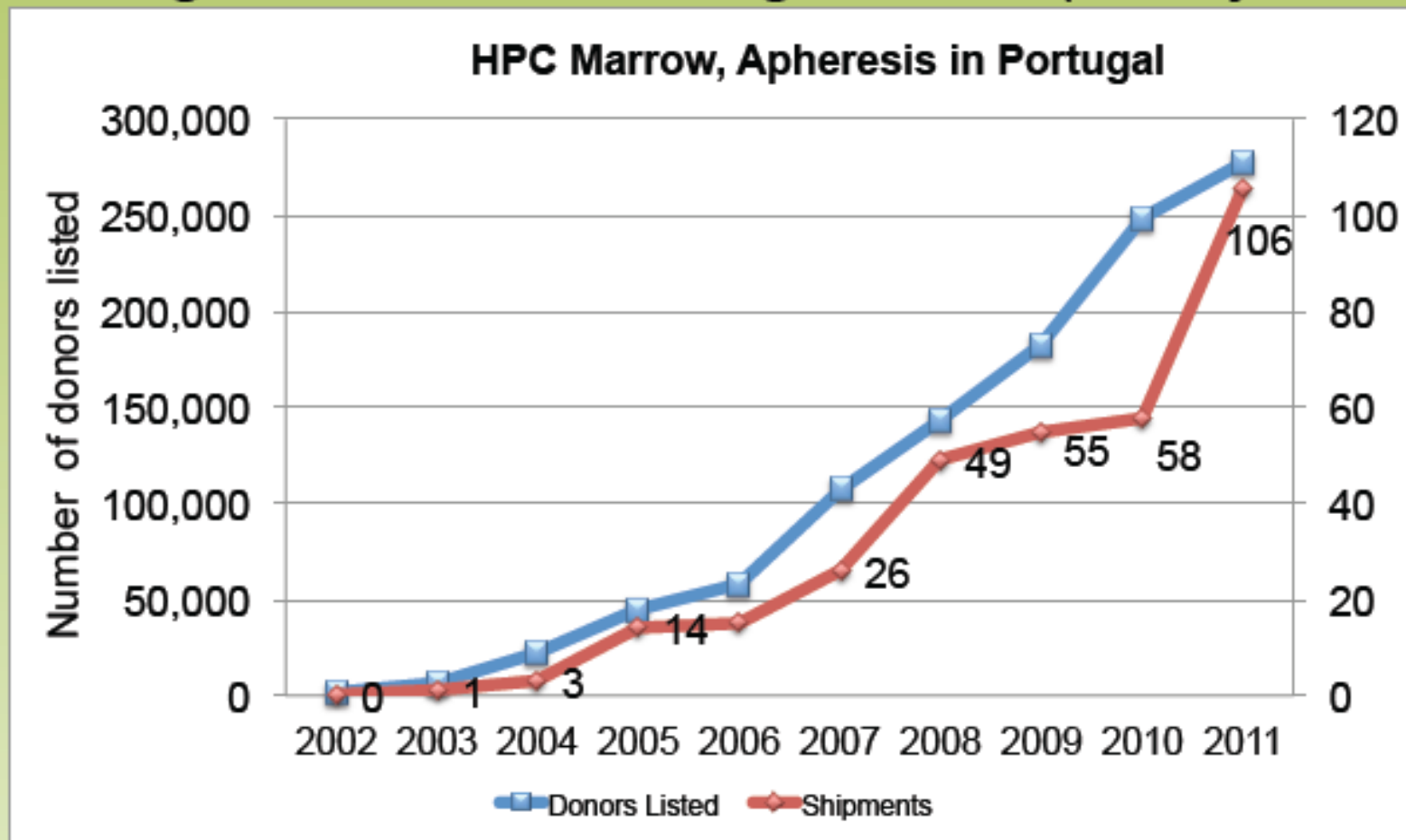




## A wonderful exception

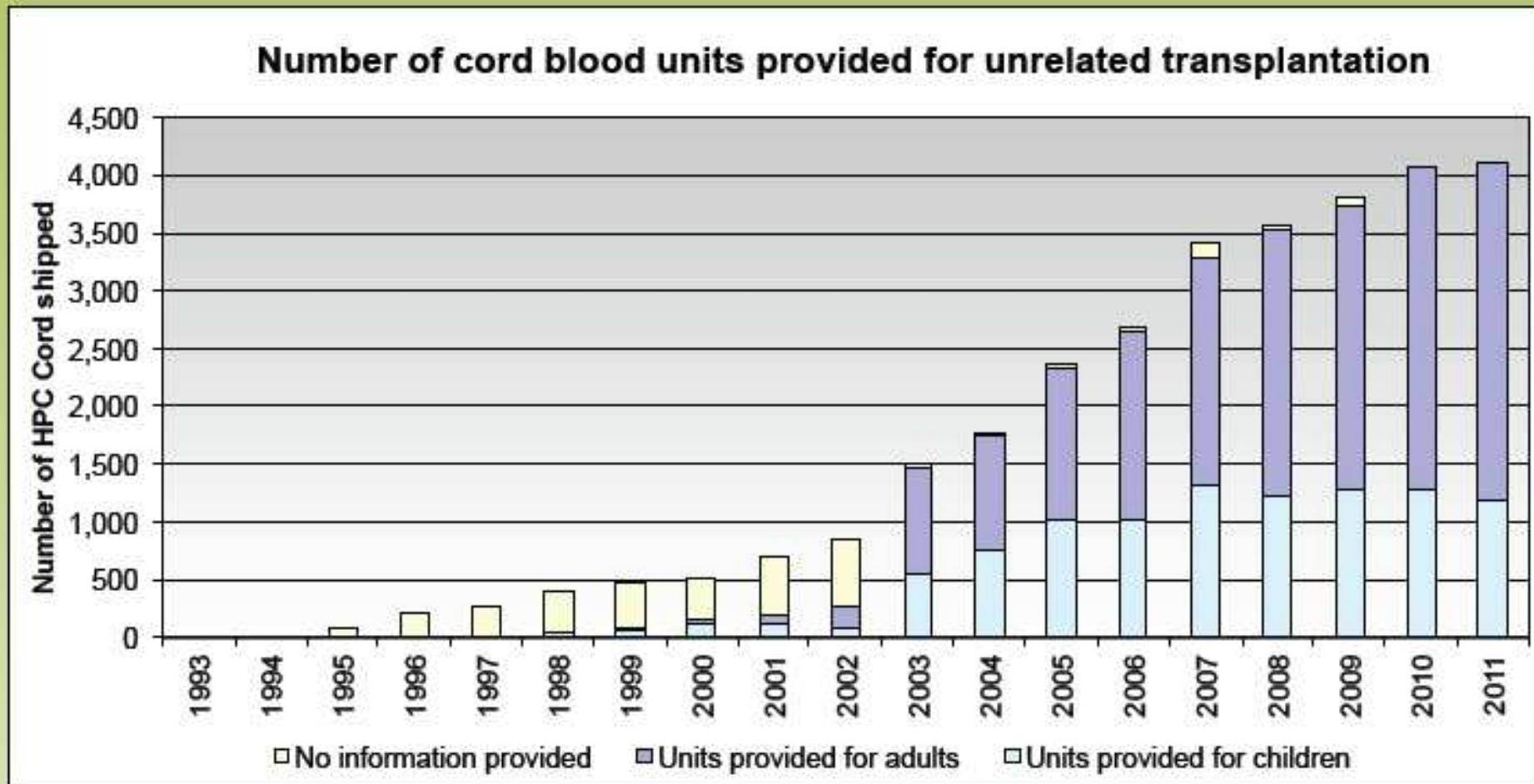
### Recruit Young Donors – European examples

– Portugal: over 50% Young Donors (< 35 years old)





**2000: 528 cord blood units**  
**2011: 4,093 cord blood units**

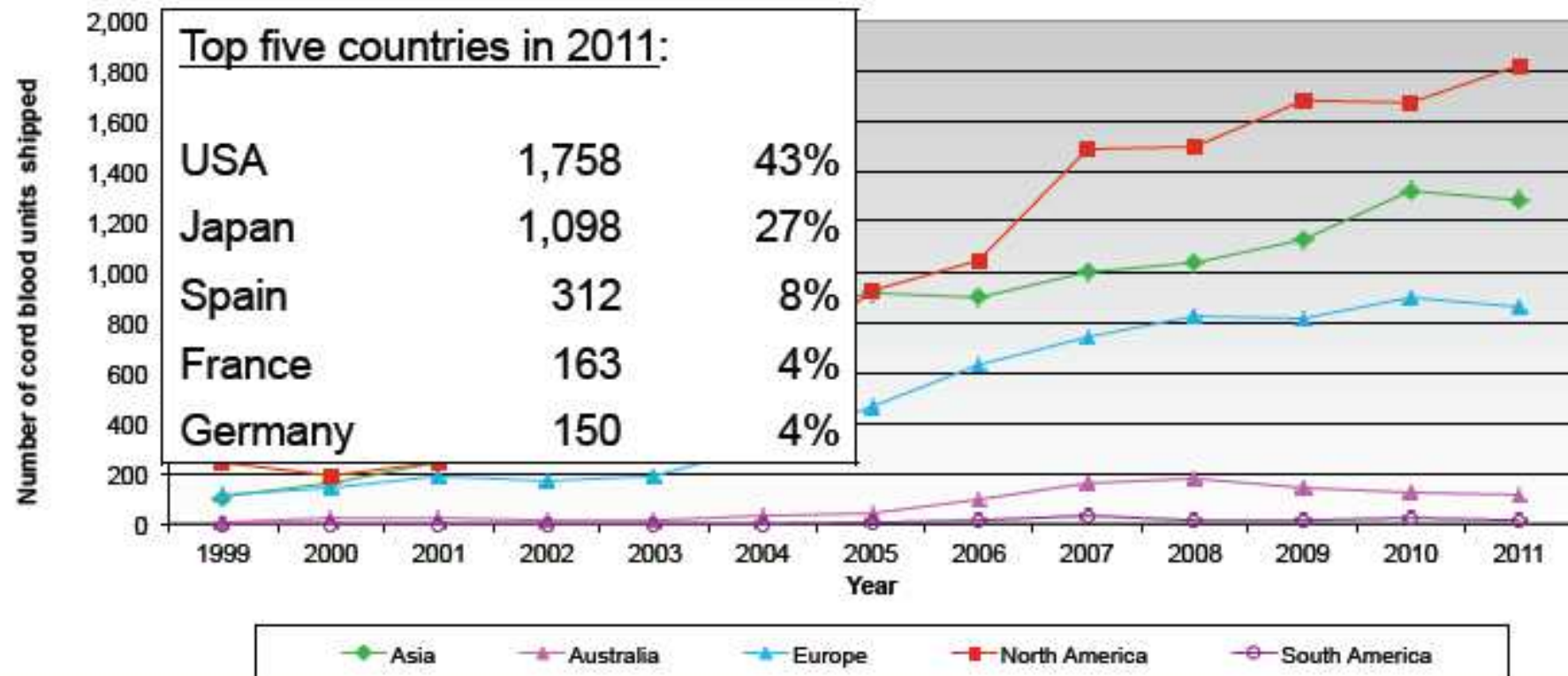


**590,723 cord blood units listed in 145 cord blood banks**



# Global shipments Cord Blood Units for unrelated patients

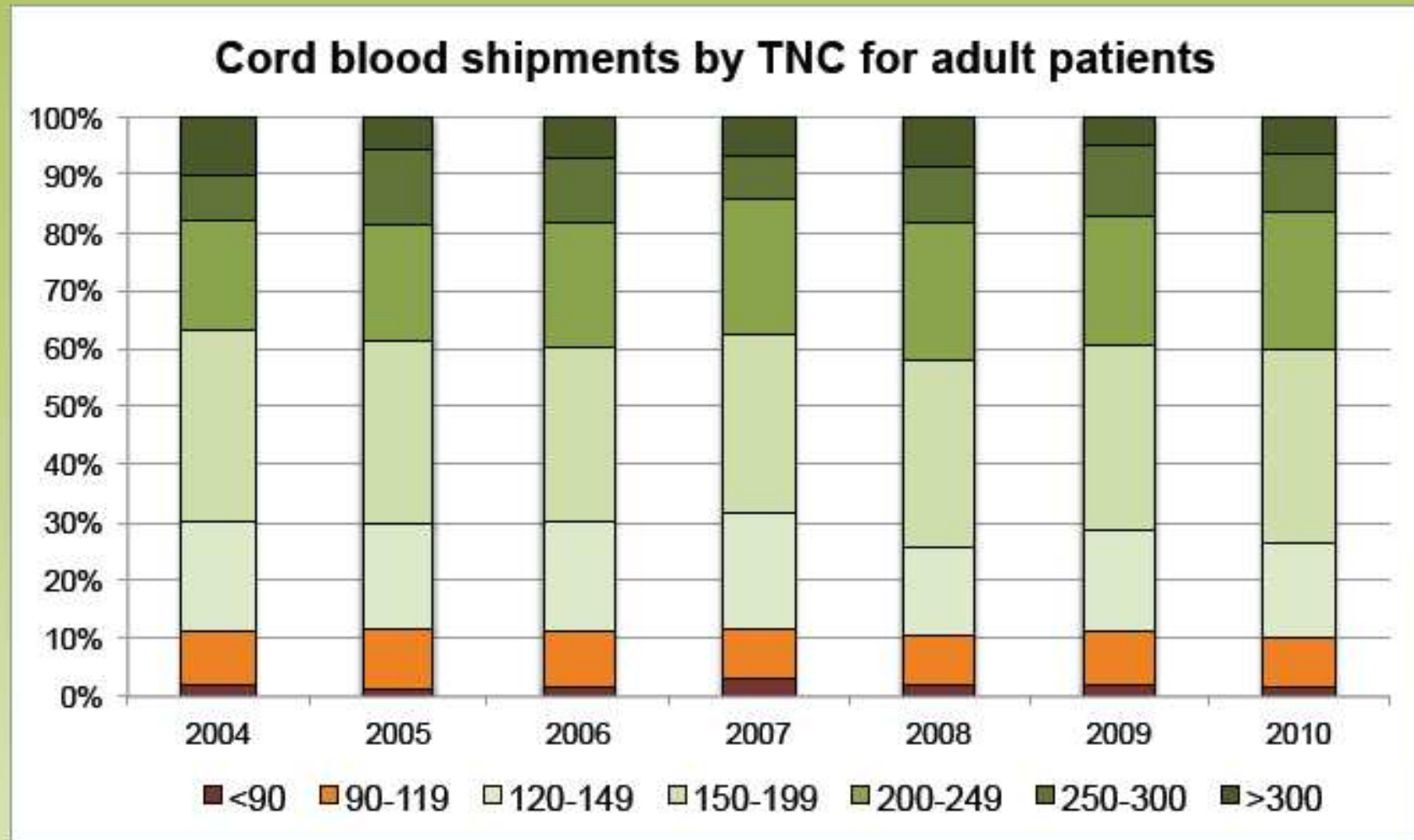
Number of Cord Blood Units provided for unrelated patients by each continent over time



590,723 cord blood units listed in 145 cord blood banks



# Over 70% of the CBUs shipped for adult patients have a TNC >150

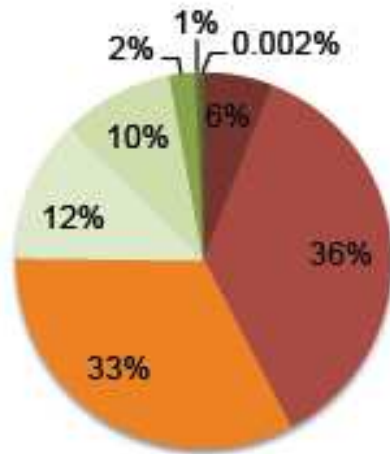


Submitted for publication, Bart T. et al.



# 2010 Inventory and shipments

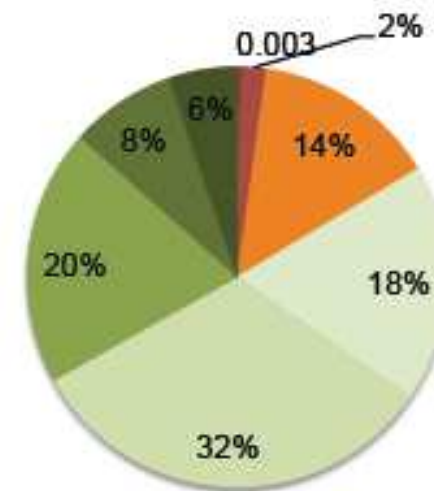
TNC of BMDW inventory as of January 1, 2011



■ <50    ■ 50-89    ■ 90-124    ■ 125-149  
■ 150-199    ■ 200-249    ■ 250-300    ■ >300



TNC of the CBU products shipped in 2010



■ <50    ■ 50-89    ■ 90-124    ■ 125-149  
■ 150-199    ■ 200-249    ■ 250-300    ■ >300

76% of the shipments came from 25% of the available inventory



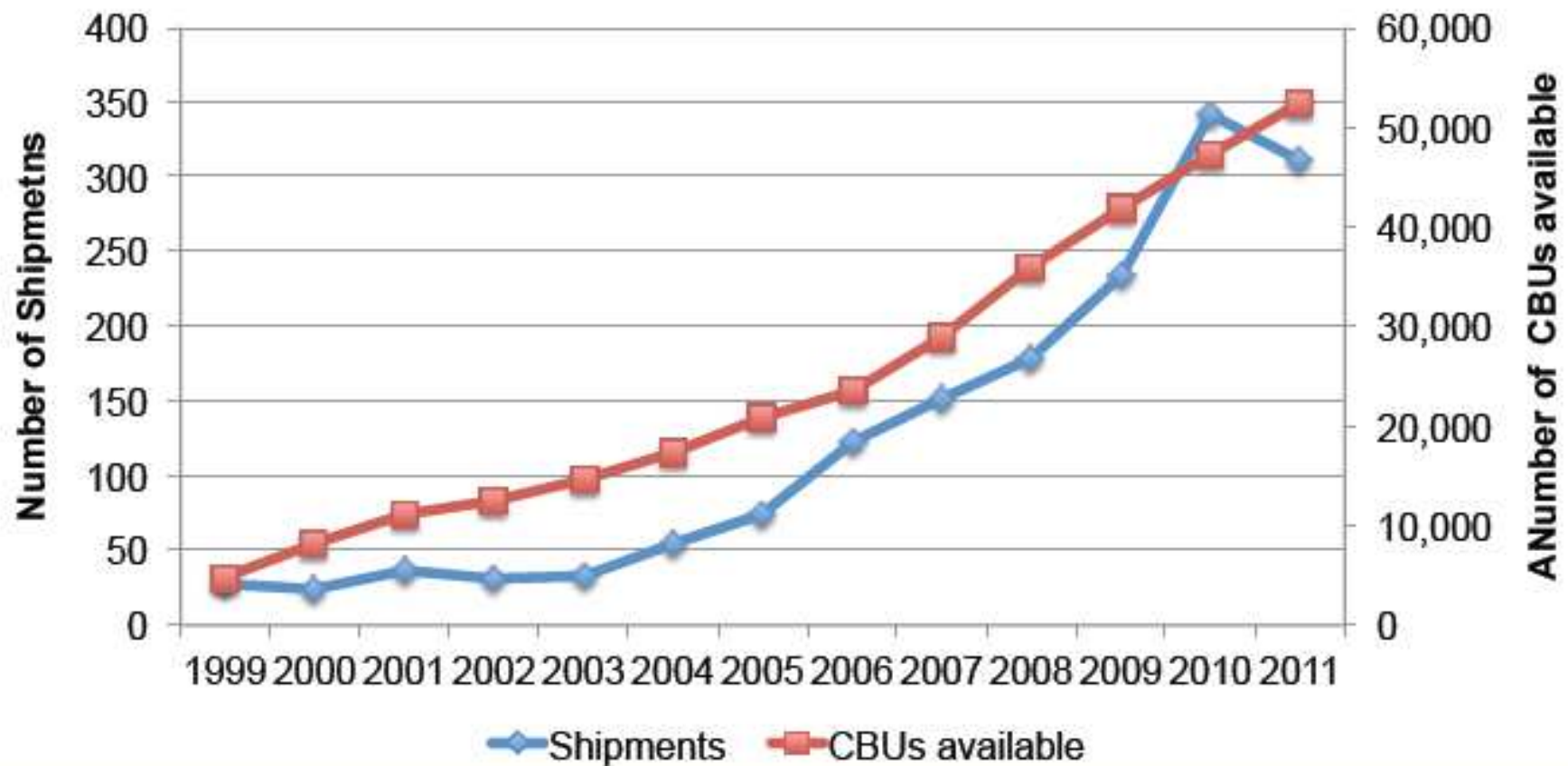
## Shipping rate of the units listed in BMDW based on TNC

TNC	Percentage(%)
< 50	0.03
50-89	0.09
90-124	0.3
125-149	1.0
150-199	2.3
200-249	6.3
250-300	10.5
>300	17.0



# A wonderful example - Spain

**CBB Network increasing inventory with 14% since 2002**  
**52% of the units TNC > 1x10E9**





## Conclusions:

- Africa, Australia, New Zealand, United States and European countries (except Germany) report an increasing percentage of imported adult stem cells.
- The number of HPC shipped by the “older” registries is stable or decreases despite the growth in the use of HPC.
- An European registry with a focus on young adult donors reports an increase in the number of shipments.
- An European CBB Network with a focus on storing large CBUs is one of the largest suppliers of cord blood units.





# What is next? Twenty years after the publication of the first WMDA paper

*Bone Marrow Transplantation* 1992, 10: 287-291

© Macmillan Press Ltd. 1992

## Special report

### **Bone marrow transplants using volunteer donors — recommendations and requirements for a standardized practice throughout the world**

from the Executive Committee of the World Marrow Donor Association



## Time for reflection on the current infrastructure of donor registries





# Acknowledgements

## **PARTICIPATING ORGANISATIONS**

Argentina, Armenia, Australia, Austria, Belgium, Brazil, Bulgaria Clinical Immunology, Bulgaria Pirogov, Canada, China CMDP, China Sunshine Donors, China Hong Kong, Croatia, Cyprus, Cyprus Paraskevaïdio, Czech BMDR, Czech National, Denmark, Denmark BMDC, Finland, France, Germany, Ghana, Greece, Hungary, India, India Bangalore, India MDR, Iran, Ireland, Israel Ezer Mizion, Israel Hadassah, Israel Sheba, Italy, Japan, Korea Catholic Registry, Korea KMDP, Lithuania, Macedonia, Mexico, Netherlands, New Zealand, Norway, Poland ALF-MDR, Poland Poltransplant, Poland DKMS, Portugal, Romania, Russia Bone Marrow Donors, Russia Karelian, Russia Russian Registry, Russia Samara, San Marino, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey Ankara, Turkey Istanbul, Ukraine, United Arab Emirates, United Kingdom Anthony Nolan, United Kingdom BBMR, United Kingdom Wales, Uruguay, USA ABMDR, USA Gift of Life, USA CRIR, USA NMDP.

## **PARTICIPATING CORD BLOOD BANKS**

Argentine CPH Donors Registry, AusCord Australia, Austrian Cord Blood Registry, Marrow Donor Program Belgium, LeuvenCord Belgium, BrasilCord/REDOME Brazil, Hema-Quebec Public Cord Blood Bank Canada, Victoria Angel Registry of Hope Canada, Shandong Umbilical Cord Blood Bank China, Guangzhou China, Local CBB of HKBMDR Hong Kong, Croatian Cord Blood Bank, CYCORD Cyprus, Czech Stem Cells Registry, Finnish Cord Blood Bank, France Greffe de Moelle, ZKRD Zentrales Knochenmarkspender Register Germany, Jose Carreras Stammzellbank Germany, Hellenic Cord Blood Bank Greece, Iranian Stem Cell Donor Program, Hadassah Unrelated Donor and Cord Blood Registry, Sheba Cord Blood Bank, Italian BMDR and Cord Blood Bank Network, Japanese Cord Blood Bank Network, KoreaCORD, Catholic Hematopoietic Stem Cell Bank Korea, Mexican Cord Blood Bank and Registry BACECU, CordMX CNTS Mexico, Banco Central de Sangre La Raza Mexico, Eurodonor Foundation Netherlands, Poltransplant Poland, LusoCord Portugal, Singapore Cord Blood Bank, Eurocord Slovakia, Slovene Cord Blood Bank ESPOK, REDMO Spanish Cord Blood Registry, Swedcord Swedish National Cord Blood Bank, Swiss Blood Stem Cells, Buddhist Tzu Chi Stem Cells Center Taiwan, Bionet Babybanks Corp. Taiwan, Healthbanks Biotech Co. Ltd. Taiwan, Thai National Stem Cell Donor Registry, Ankara Cord Blood Registry Turkey, BBMR United Kingdom, Caitlin Raymond International Registry USA, Celgene Cord Blood Bank USA, NMDP Network CBBs USA, New York National Cord Blood Program USA, Gift of Life Bone Marrow Foundation USA, HOCHIMINH City Cord Blood Bank Vietnam.

**WMDA Colleagues:** Dorien de Kruijf, Machteld Oudshoorn  
**The current and past WMDA Donor Registries WG Chairs and  
WMDA Cord Blood WG Chairs.**

PROJECT SPONSOR:

