



## **Differences and common strands. ESHRE's point of view**

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Carlos Calhaz-Jorge

Council of Europe meeting  
Strasbourg, 22nd-23th February 2018

# Conflit of interest

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Nothing to declare.

## Differences and common strands. ESHRE's point of view

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- **ART activity report, 2014**
- **Survey on ART:  
legislation, regulation, reimbursement and registers**

*- Preliminary results-*

# Differences and common strands. ESHRE's point of view

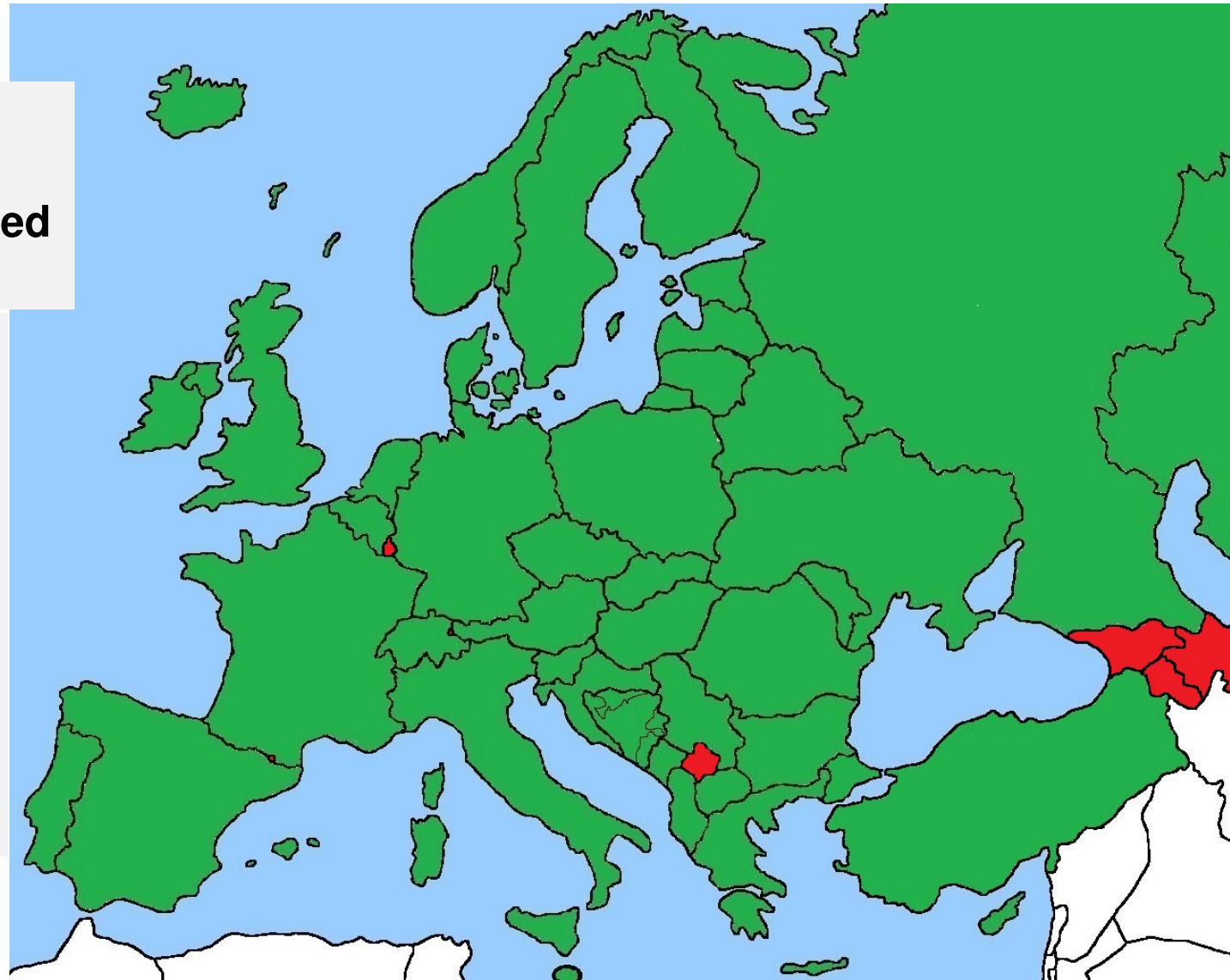
## European IVF Monitoring (EIM) a consortium of the representatives from national registers



## Differences and common strands. ESHRE's point of view

**European countries that never participated in EIM project:**

Andorra  
Armenia  
Azerbaijan  
Georgia  
Kosovo  
Luxembourg  
Liechtenstein  
Monaco  
San Marino  
Vatican City



# EIM results 1997-2014

year	countries	clinics	cycles	cycle-increase (%)	ART infants
1997	18	482	203 225		35 314 *
1998	18	521	232 225	+ 14.3	21 433 *
1999	21	537	249 624	+ 7.5	26 212 *
2000	22	569	275 187	+ 10.2	17 887 *
2001	23	579	289 690	+ 5.3	24 963 *
2002	25	631	324 238	+ 11.9	24 283
2003	28	725	365 103	+ 12.6	68 931
2004	29	785	367 056	+ 0.5	67 973
2005	30	923	419 037	+ 14.2	72 184
2006	32	998	458 759	+ 9.5	87 705
2007	33	1029	493 420	+ 7.6	96 690
2008	36	1051	532 260	+ 7.9	107 383
2009	34	1005	537 463	+ 1.0	109 239
2010	31	991	550 296	+ 2.4	120 676
2011	33	1034	609 973	+ 11.0	134 054
2012	34	1093	640 144	+ 4.9	143 844
2013	38	1169	686 261	+ 7.2	149 466
2014	36	1184	707 171	+ 3.0	146 232
<b>total</b>			<b>7 941 142</b>		<b>1 454 521</b>

# Differences and common strands. ESHRE's point of view

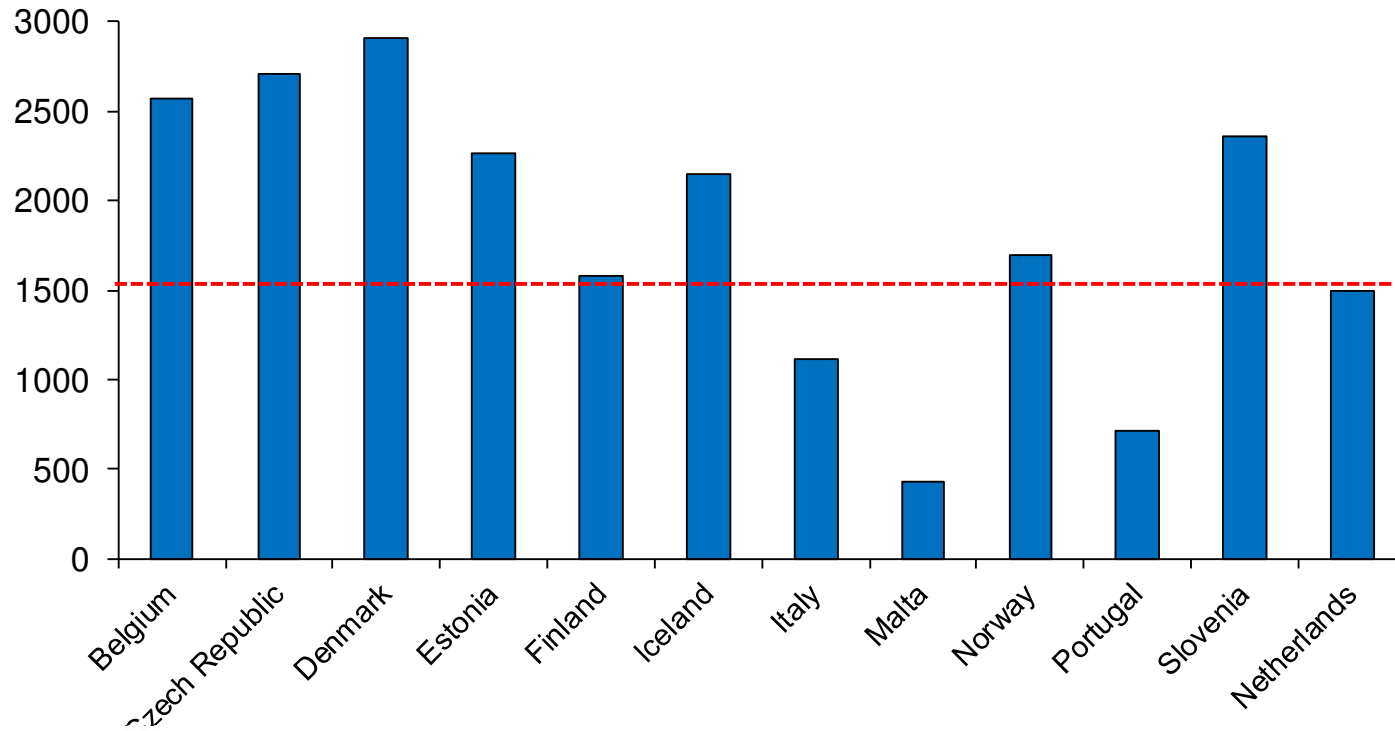
- **ART activity report, 2014**

- *Availability*
- *Technical aspects (IVF vs ICSI; No. of embryos transferred)*
- *“Success rates”*

# Availability

## Number of cycles per 1 mill inhabitants

(countries with 100% participation)



Human Reproduction Update, Vol.8, No.3 pp. 265-277, 2002

### An international survey of the health economics of IVF and ICSI

John A. Collins

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Address for correspondence: John Collins, 400 Mader's Cove Road, RR # 1 Mahone Bay, Nova Scotia B0J 2E0, Canada.  
E-mail: collinsj@auracom.com or collins@mcmaster.ca

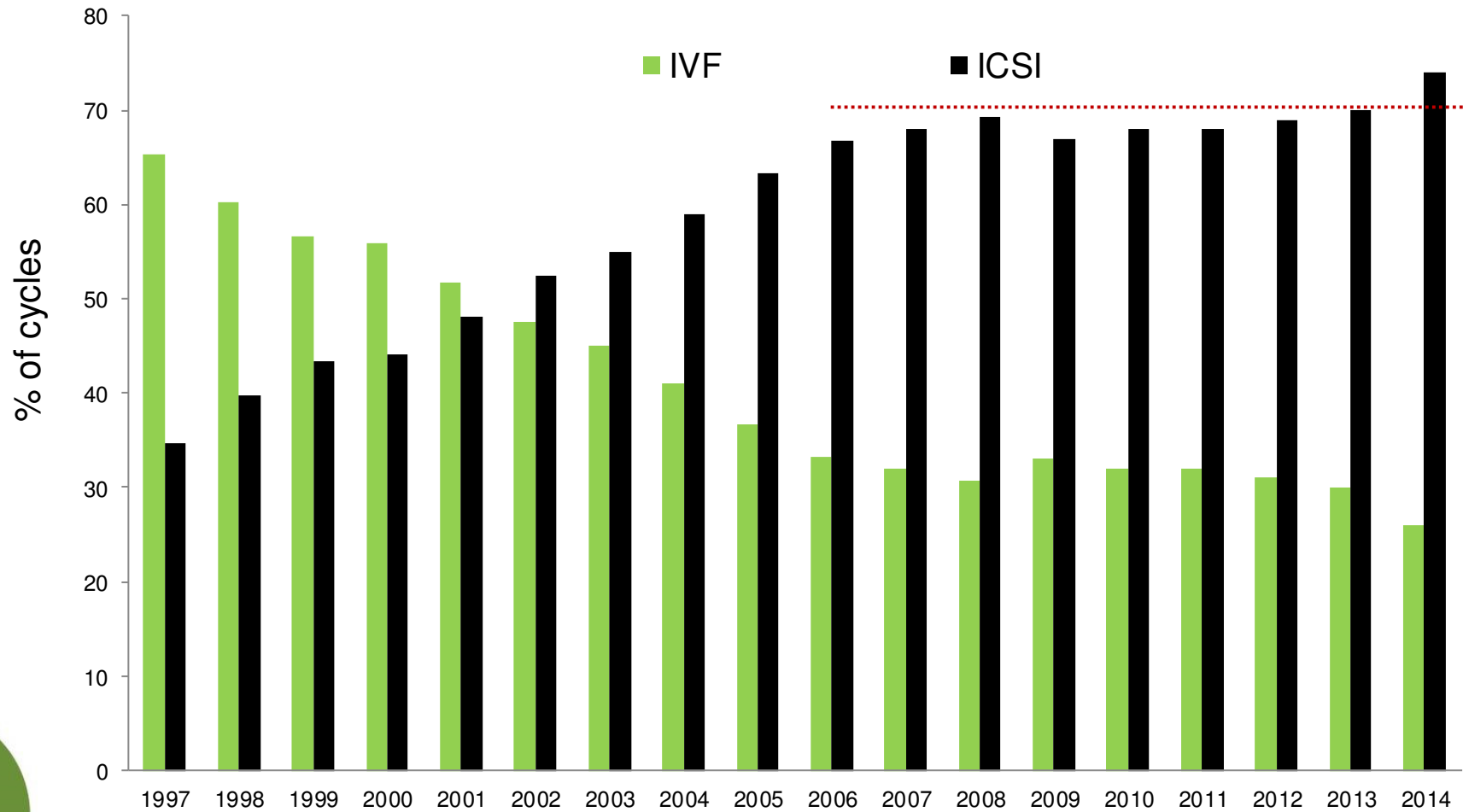
The global need for ART is estimated to be **at least 1,500 cycles/ million population per year.**





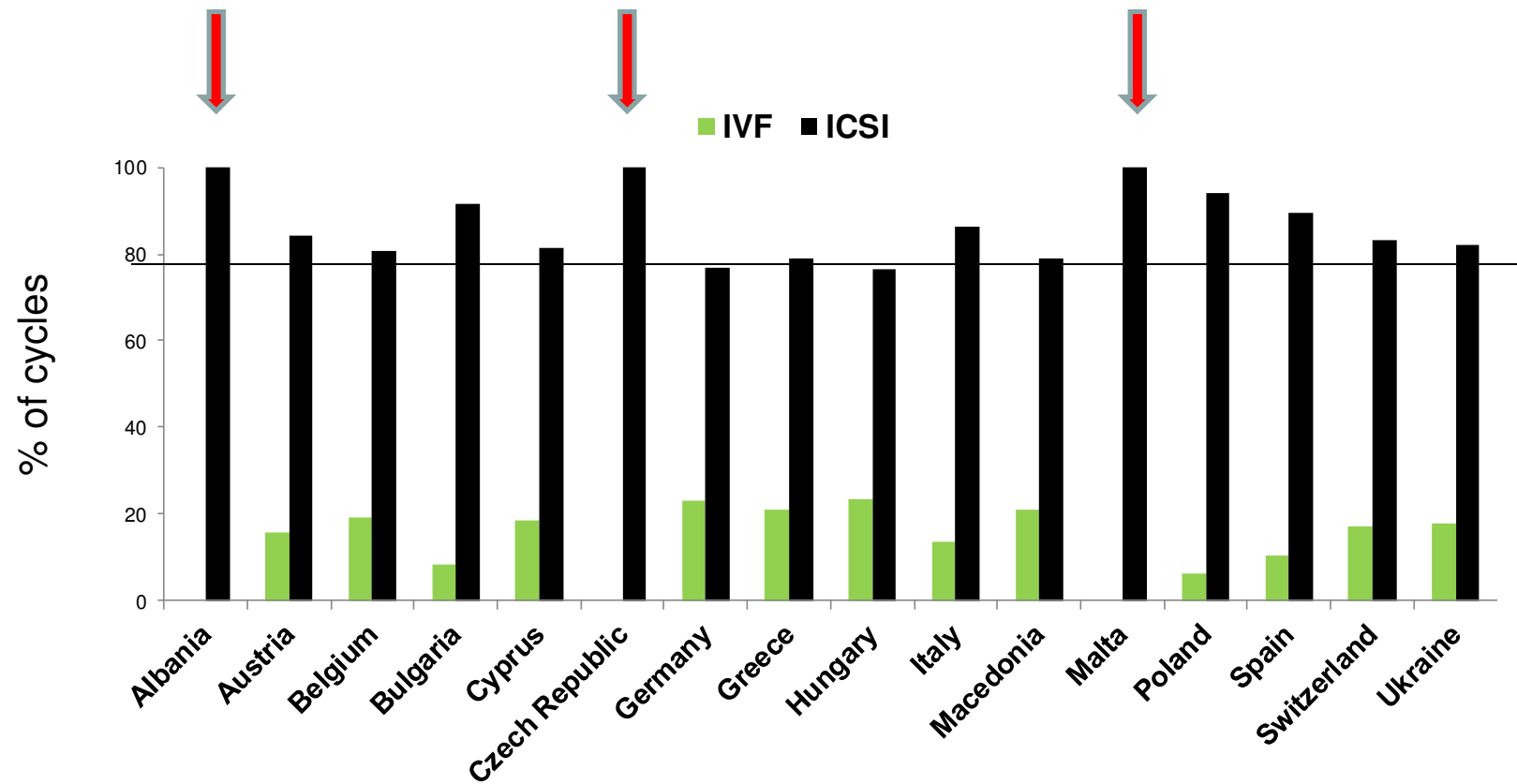
# Technical aspects

## Distribution IVF/ICSI (1997-2014)



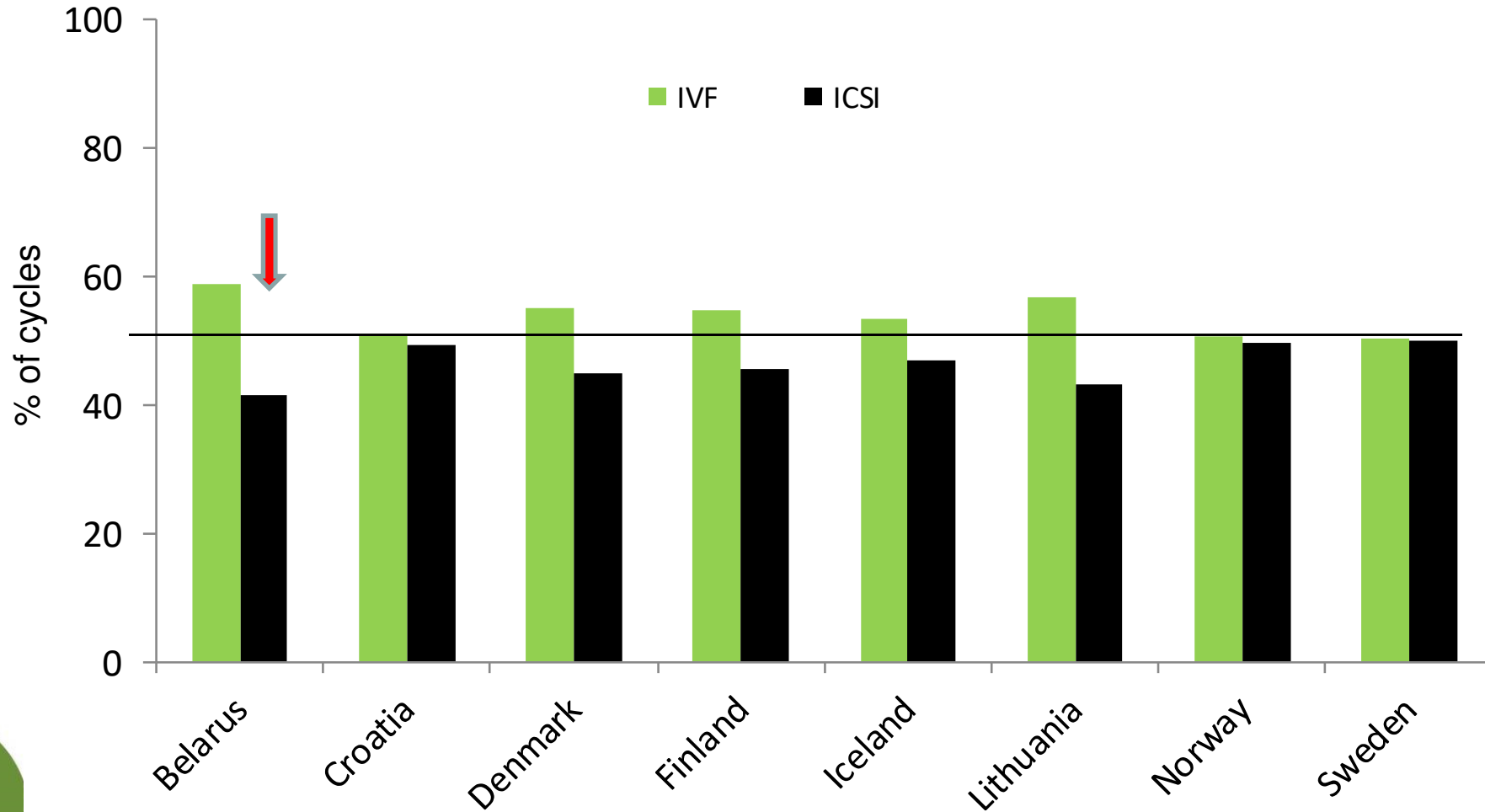
# Technical aspects

## IVF versus ICSI – high use of ICSI (>75%) 2014



# Technical aspects

## IVF versus ICSI – low use of ICSI (<50%) 2014



## Technical aspects

### Percentage 3+ embryo transfers. IVF and ICSI, 2014

<b>LOW &lt; 5%</b>	<b>%</b>
Denmark	3.8
Portugal	2.9
Croatia	2.7
Latvia	2.1
Czech Republic	1.8
Slovenia	1.2
Poland	1.1
Austria	0.5
Finland	0.0
Iceland	0.0
Malta	0.0
Sweden	0.0

<b>HIGH &gt; 40%</b>	<b>%</b>
Lithuania	43.0
Greece	42.1
Serbia	41.8

# Technical aspects

## Pregnancy rates per aspiration IVF - 2014

Macedonia	53.1	Russia	32.2	Spain	28.8
Moldova	40.7	Portugal	32.0	Estonia	26.9
Ukraine	40.4	Greece	31.5	Belgium	26.6
Romania	39.0	Poland	30.9	Latvia	25.8
Belarus	37.2	Serbia	30.2	Switzerland	25.5
Slovenia	36.2	Iceland	30.2	Bulgaria	24.4
Cyprus	36.0	Netherlands	30.0	France	23.8
Kazakhstan	36.0	Sweden	29.8	Italy	23.2
Lithuania	35.5	Finland	29.2	Denmark	22.5
Norway	33.6	Germany	28.8	Croatia	18.7
Austria	32.8	Hungary	28.8		

## Technical aspects

### Pregnancy rates per aspiration ICSI - 2014

Moldova	43.5	Poland	30.5	Belgium	25.6
Macedonia	41.2	Greece	30.0	Montenegro	25.6
Kazakhstan	41.0	Norway	29.4	Slovenia	25.1
Belarus	40.4	Malta	28.8	France	25.0
Albania	39.6	Germany	28.1	Hungary	25.0
Serbia	37.5	Portugal	27.7	Estonia	24.9
Cyprus	37.2	Czech Republic	27.5	Finland	23.9
Romania	36.3	Russia	27.5	Switzerland	22.7
Ukraine	35.6	Iceland	27.1	Croatia	22.4
Netherlands	31.7	Sweden	27.1	Italy	21.0
Lithuania	31.6	Spain	26.9	Bulgaria	20.8
Austria	31.5	Denmark	26.5	Latvia	19.8

# Differences and common strands. ESHRE's point of view

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- **Survey on ART:  
legislation, regulation, reimbursement and registers**

*- Preliminary results-*

# Survey on ART - Main topics

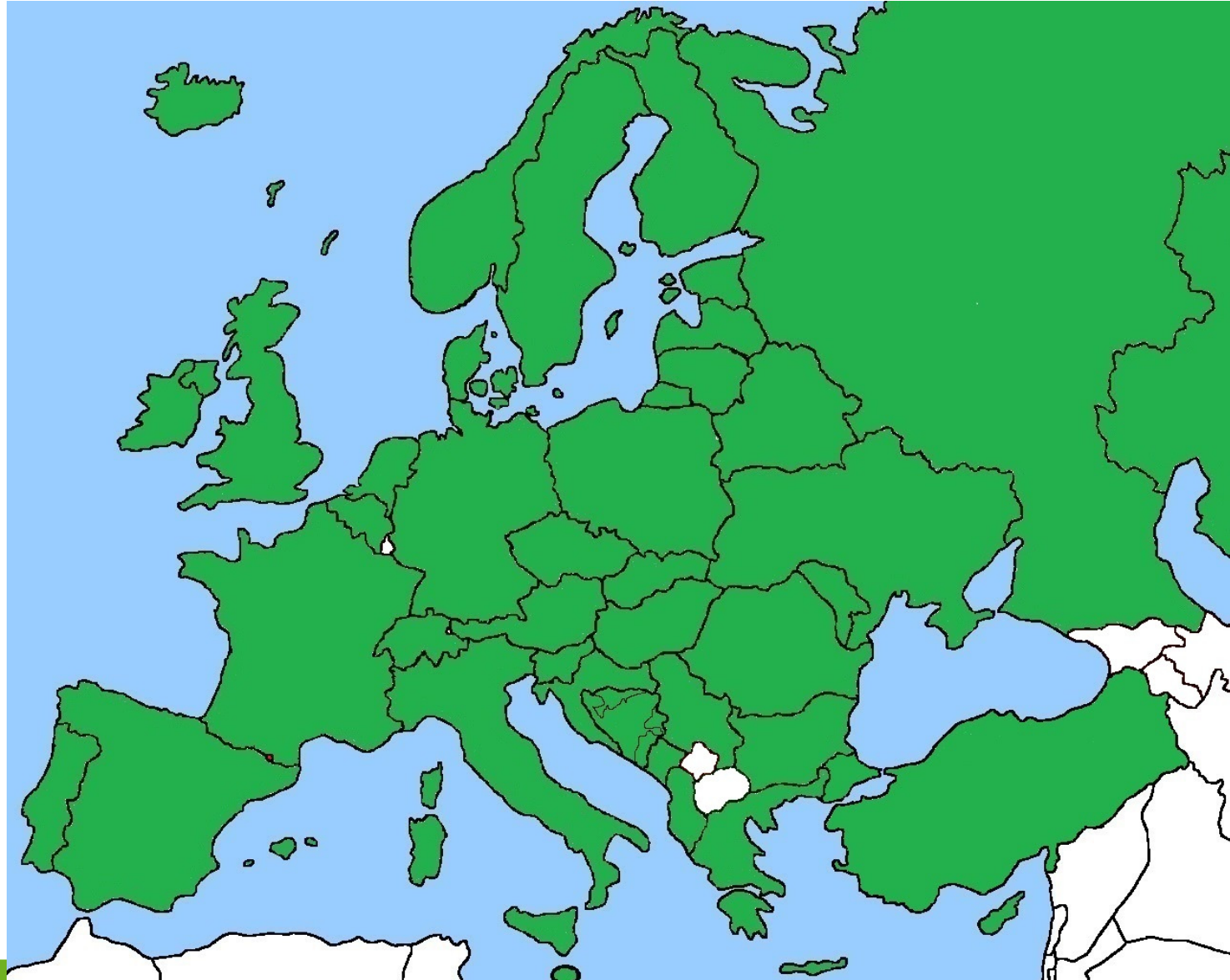
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- **Availability (ART legislation)**
- **Accessibility - criteria**
- **Accessibility - funding/reimbursement**
- **Non-partner donation**
- **Registers**



# AVAILABILITY (ART legislation)

40 countries participated

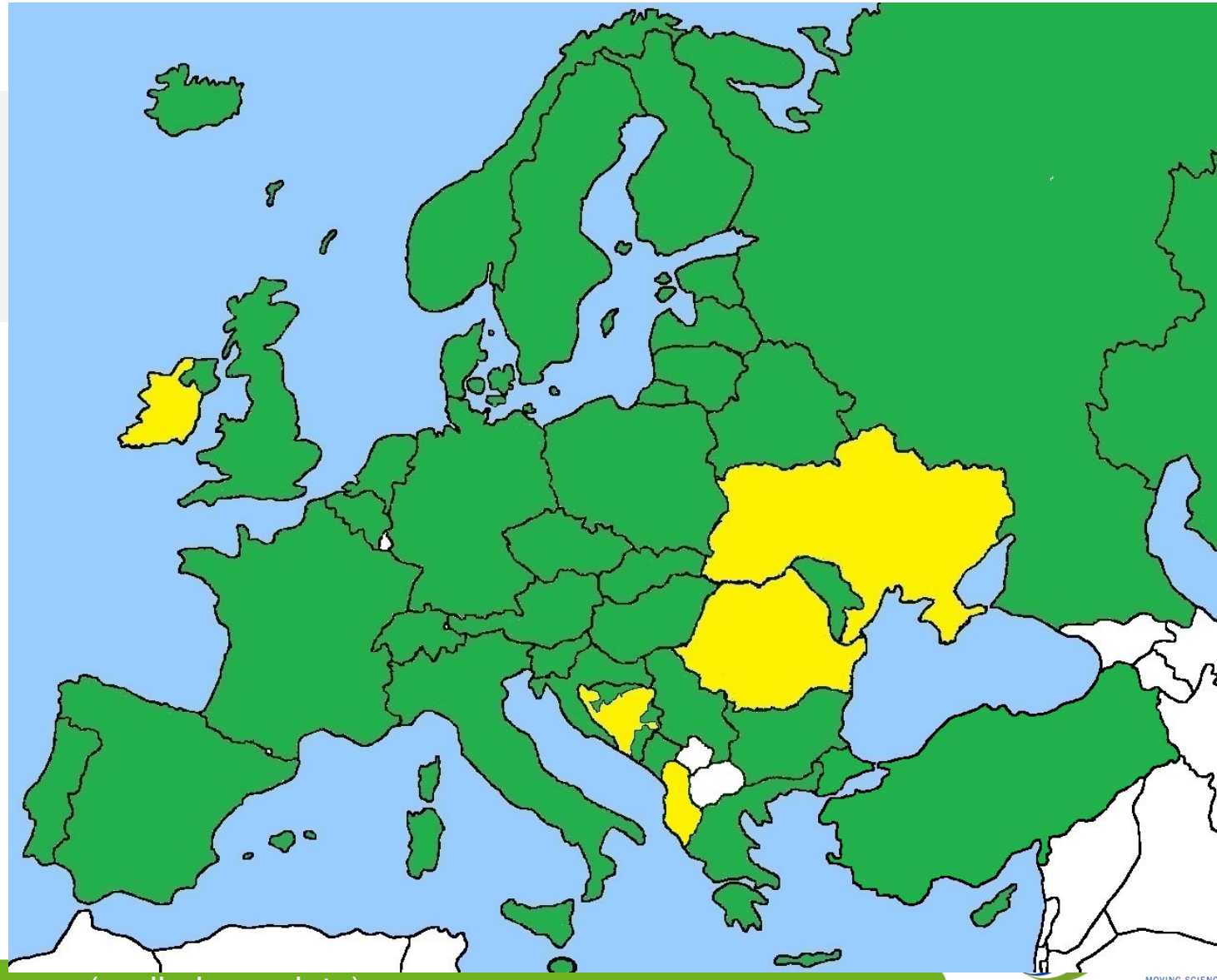


EIM European survey (preliminary data)

# AVAILABILITY (ART legislation)

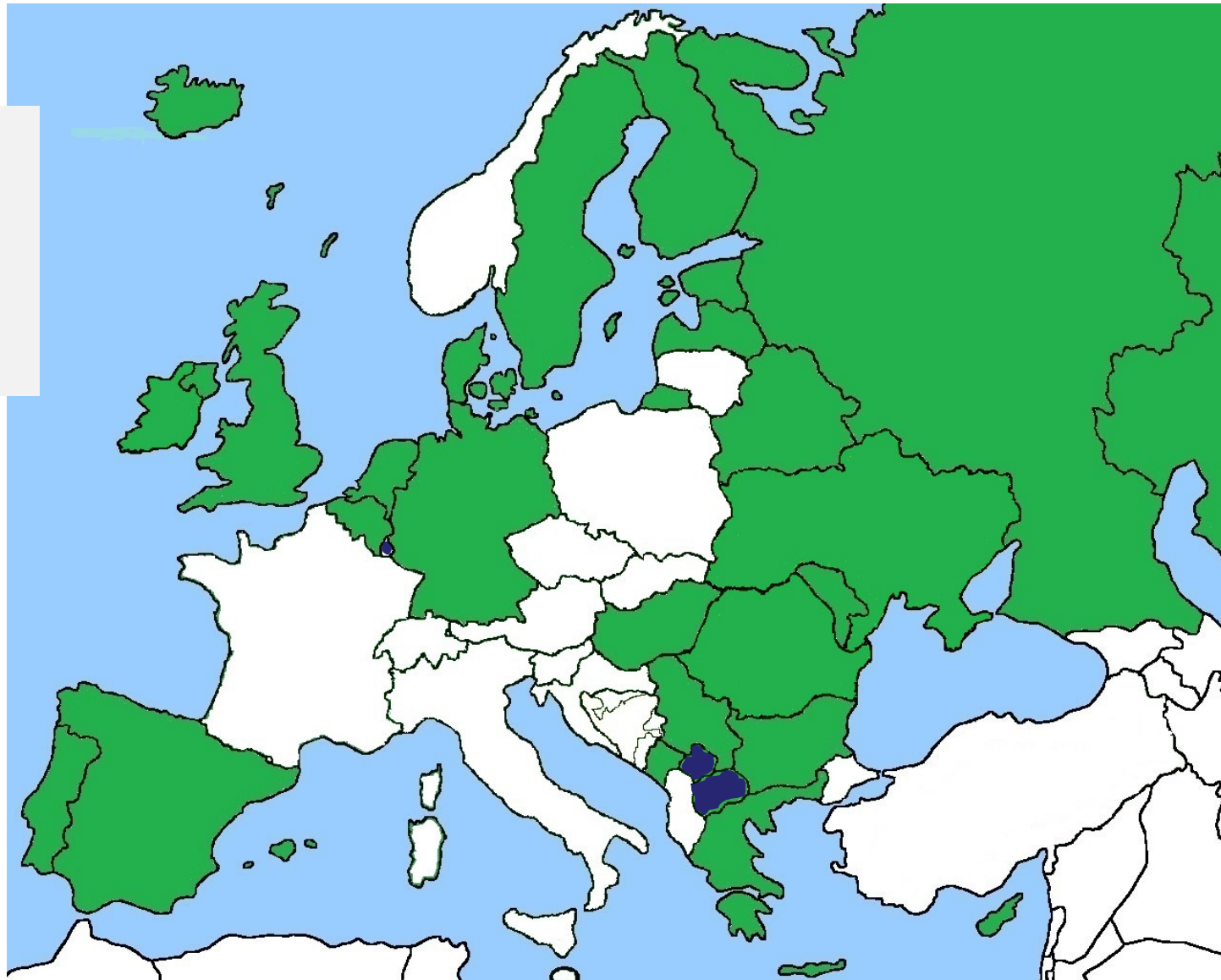
Countries  
with specific  
ART  
legislation

- Yes
- No



# AVAILABILITY (ART legislation)

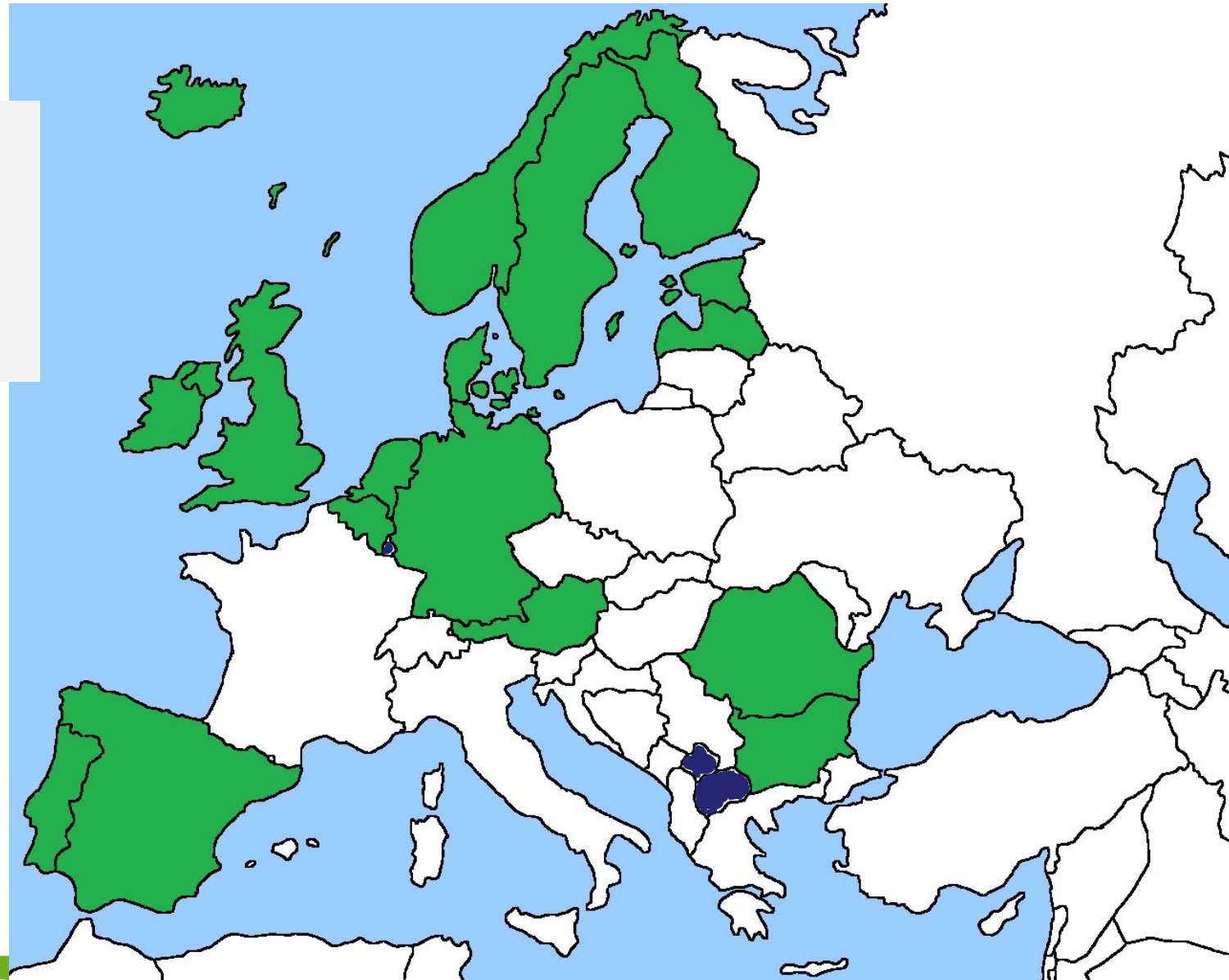
**Countries where single women can have access to ART**



EIM European survey (preliminary data)

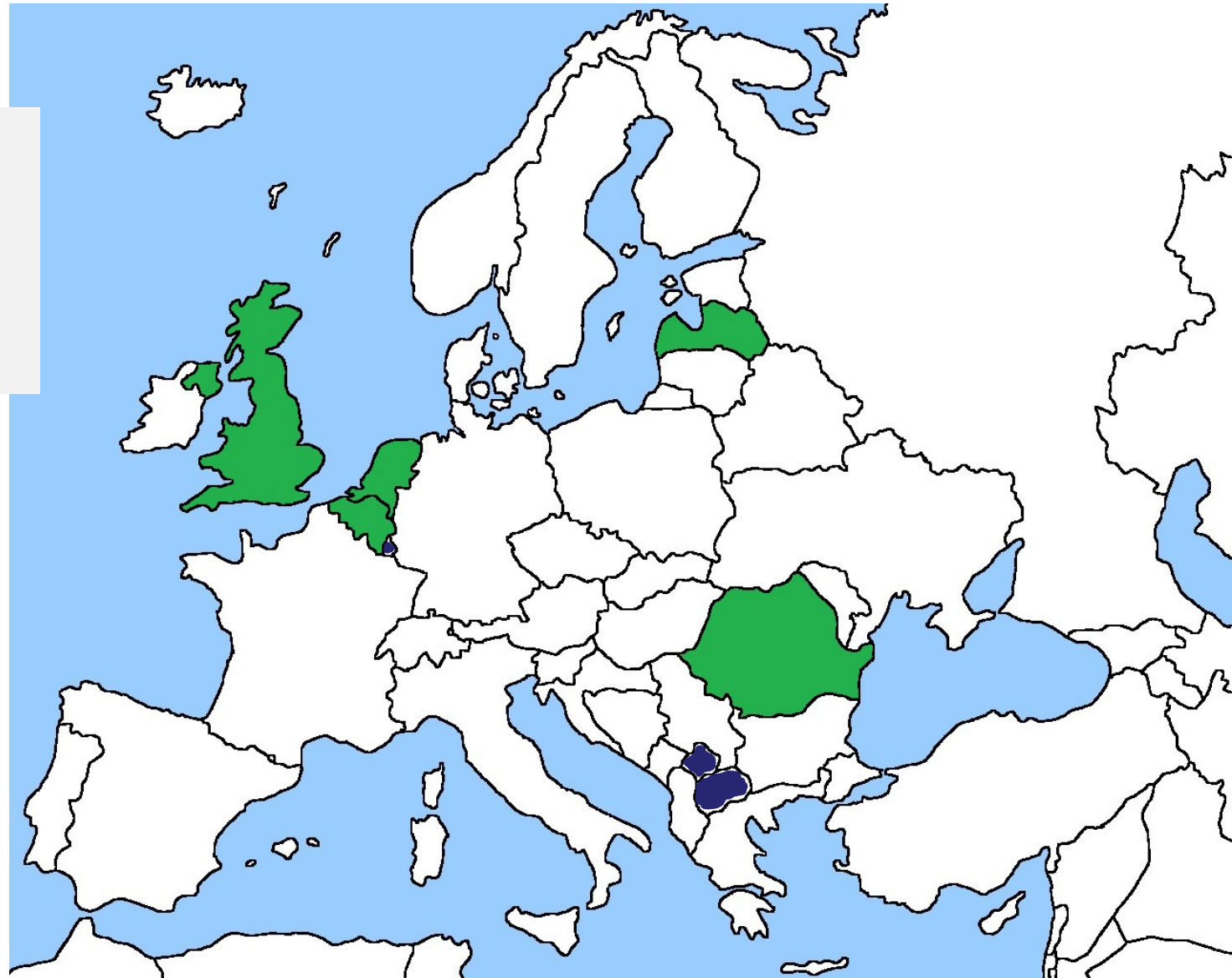
# AVAILABILITY (ART legislation)

**Countries  
where female  
couples can  
have access  
to ART**



# AVAILABILITY (ART legislation)

**Countries where male couples can have access to ART**



EIM European survey (preliminary data)

## AVAILABILITY (ART legislation)

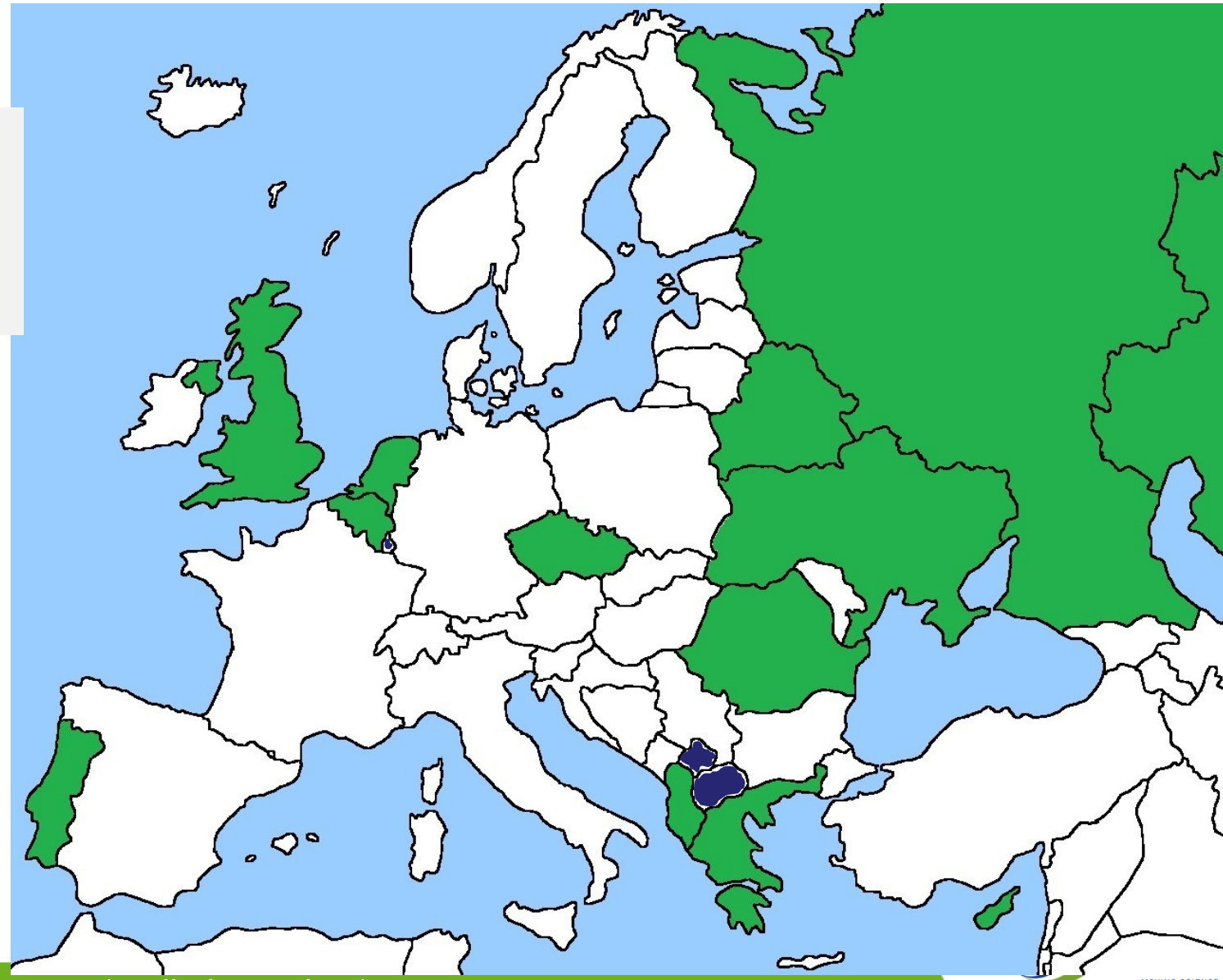
	Infertile heterosexual couples	Non-infertile heterosexual couples	Single women	Female couples	Male couples
Own gametes	39	22	25	17	5
Sperm donation	36	18	24	17	4
Egg donation	32	15	21	13	4
Sperm + egg donation	27	14	20	13	4
Embryo donation	26	11	14	8	3

## AVAILABILITY (ART legislation)

	Infertile heterosexual couples	Non-infertile heterosexual couples	Single women	Female couples	Male couples
Own gametes	39	22	25	17	5
Sperm donation	36	18	24	17	4
Egg donation	32	15	19	13	4
Sperm + egg donation	27	14	20	13	4
Embryo donation	26	11	15	9	3
<b>PGD</b>	<b>33</b>	<b>19</b>	<b>19</b>	<b>13</b>	<b>4</b>
<b>PGS</b>	<b>27</b>	<b>18</b>	<b>16</b>	<b>11</b>	<b>4</b>
<b>Surrogacy</b>	<b>13</b>	<b>5</b>	<b>6</b>	<b>4</b>	<b>3</b>

# AVAILABILITY (ART legislation)

Countries where surrogacy is permitted



EIM European survey (preliminary data)



# AVAILABILITY (ART legislation)

## Specific situations

	Permitted	Performed under specific legislation
Gametes cryopreservation (medical reason)	39	28
Embryo cryopreservation (medical reason)	37	29
Gonadal tissue cryopreservation (medical reason)	37	26
Nonmedical oocyte cryopreservation	30	19
Gender reassignment	20	Not asked
Previous gamete cryop/ use in ART	17/14	Not asked

## ACCESSIBILITY – legal limiting criteria

Criteria	Female (n)	Male (n)
Minimum age	20 (18-25y)*	17 (18y)
Maximum age	21 (42-51y)*	5 (55-60y)

\* France – “âge de procréer”

## ACCESSIBILITY - public funding/reimbursement

Limiting criteria	Female (n)	Male (n)
Minimum age (28 countries)	16 (18-25y)	12 (18-25y)
Maximum age	23 (40-50y)	5 (49-60y)
BMI	4 (30-35)	--
Previous children	7	

No public funding at all – 3 countries

## ACCESSIBILITY - public funding/reimbursement

**Public funding combined with a clinical policy?** – 8 countries (mainly eSET)

**Public funding combined with success rate?** – 5 countries

Public funding	Medication costs (n)	Doctors/medical costs (n)	Lab costs (n)
Only in public centres	6	11	10
In public and private centres	26	22	22
Not at all	7	5	6

Do patients need to pay a %?	Medication costs (n)	Doctors/medical costs (n)	Lab costs (n)
Yes	27	21	19

# ACCESSIBILITY - public funding/reimbursement

**Is there a limited no. of funded cycles?**

**Yes**, in 29 countries:

1 (2 countries)

up to 5 for first child + 4 for the second one (1 country)

3 cycles (13 countries) – most frequent

**Are all ART techniques publicly funded?**

**Yes**, in 17 countries

**Are ART techniques publicly funded in a consistent manner across the country?**

**No**, in 16 countries

**Is it possible to claim tax deductions for ART expenses?**

**Yes**, in 11 countries

# NON-PARTNER DONATION

- **Not permitted: 3**
- **Anonymity: 21**
- **Non-anonymity: 5**
- **Mixed: 10**

**Child ≠ recipient(s)**

Many different situations:

- Hungary – sperm donation must be anonymous
  - egg donation must be a relative of the recipients

# NON-PARTNER DONATION

## Donor eligibility

Criteria	Sperm (n)	Eggs (n)
Minimum age	21 (18y)	26 (18-20y)
Maximum age	18 (35-55y)	25 (34-38y)
Marital/parental status	0/1	1/1
Maximum number of donations	0	5 (1 – 8)
Maximum number of infants from the same donor	26 (1 – 25 or 1-13 families)	17 (1 – 10 or 1–10 families)

# REGISTERS

	CA	HM	Other governmental body	Professional association	Individual
ART national registers (n=27)	11	9	1	6	0
Mandatory	21 countries				
100% coverage	12 countries (EIM 2013)				
Donors register (n=13)	7	5	1		
Mandatory	12 countries				



# Conclusions (final remarks/comments)

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- **Diversity is the European paradigm**
- **“Classical population” needs are still not answered**
- **Funding/reimbursement is extremely variable**
- **Non-partner donation is very culturally dependent**
- **Better and more robust registers are needed**