

Pressure Classification Pros & Cons

Copenhagen, May 16 2013

Rob Bot

Varitex



pros and cons

Needs the pressure classification to be changed?

Opinion of stocking manufacturers

- CONS: Uwe Meyer
- PROS: Rob Bot



standards

Stakeholders

→ GZG

→ RAL GZG 387-1

→ ENV 12718

→ DIN 58133

→ NEN 8188

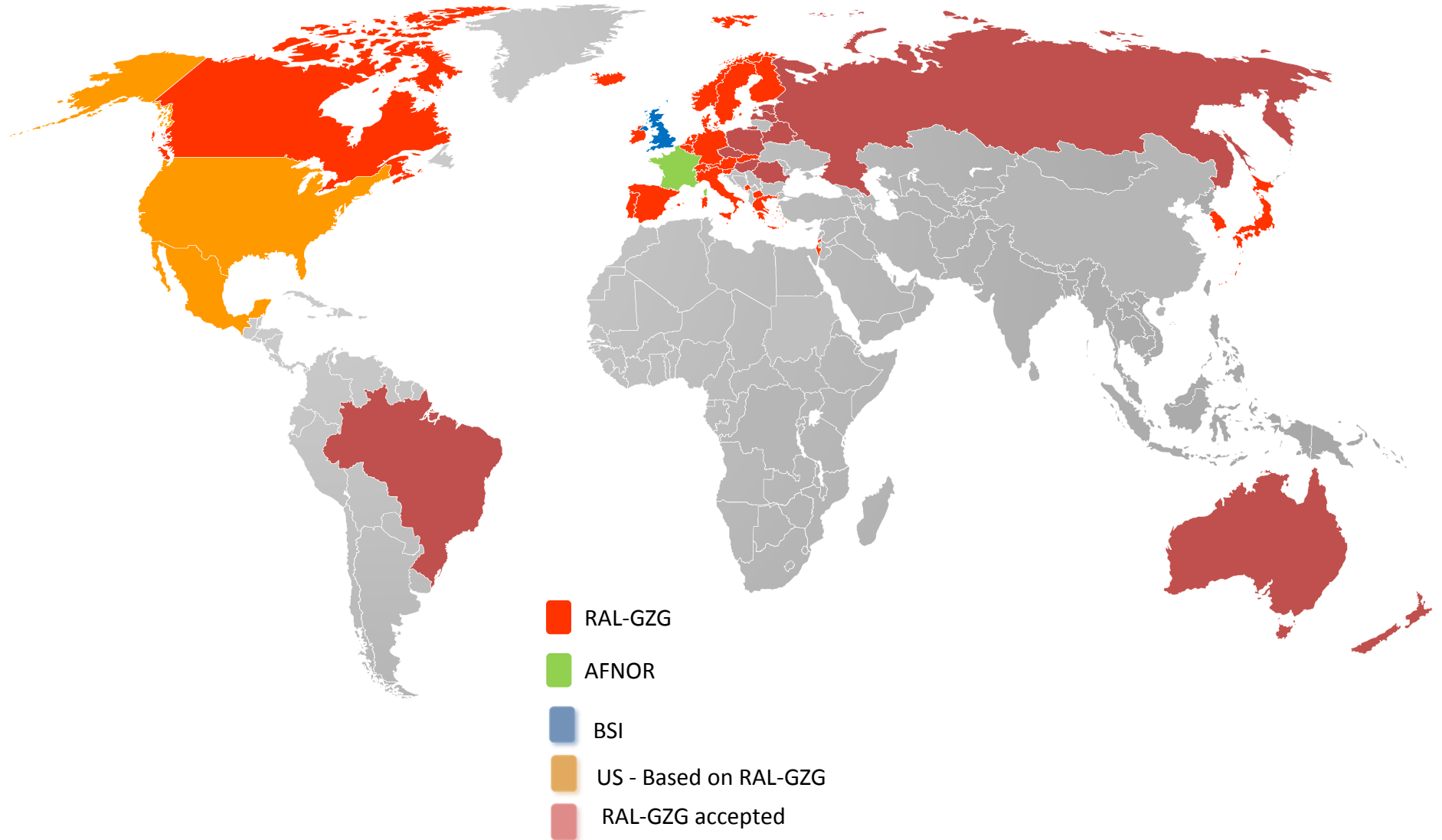
→ AFNOR

→ BSI

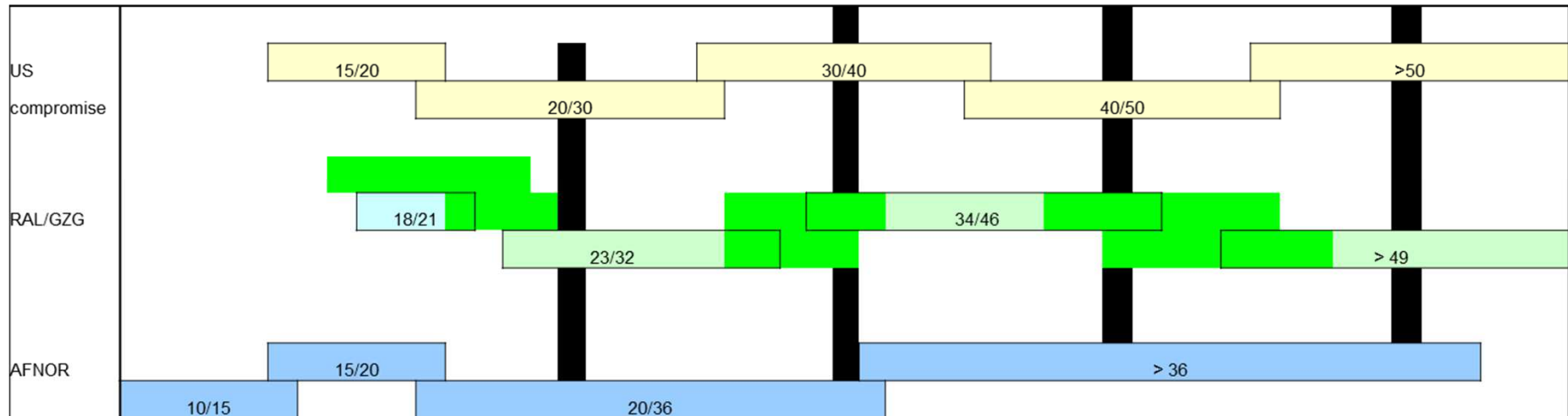
→ US- “standard”



Use of standards



mmHG 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60



No common nomenclatura

→ confusion: class 1≠1, class 2=3

→ what is mild / strong

→ complex



What to change?

- Class A, 1, 2 ...
 - mention the class range !

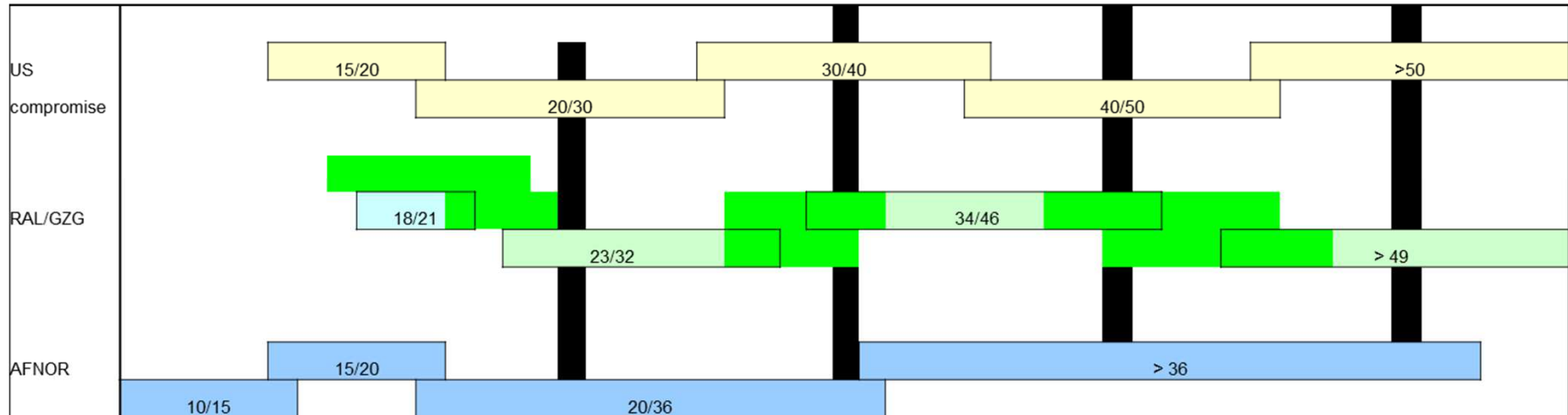
- Is 23-32 more complex than 20-30?
 - Ca, K, Chol, pH, ABP, BMI

- Mild / strong
 - do not use opinions



The need for gaps

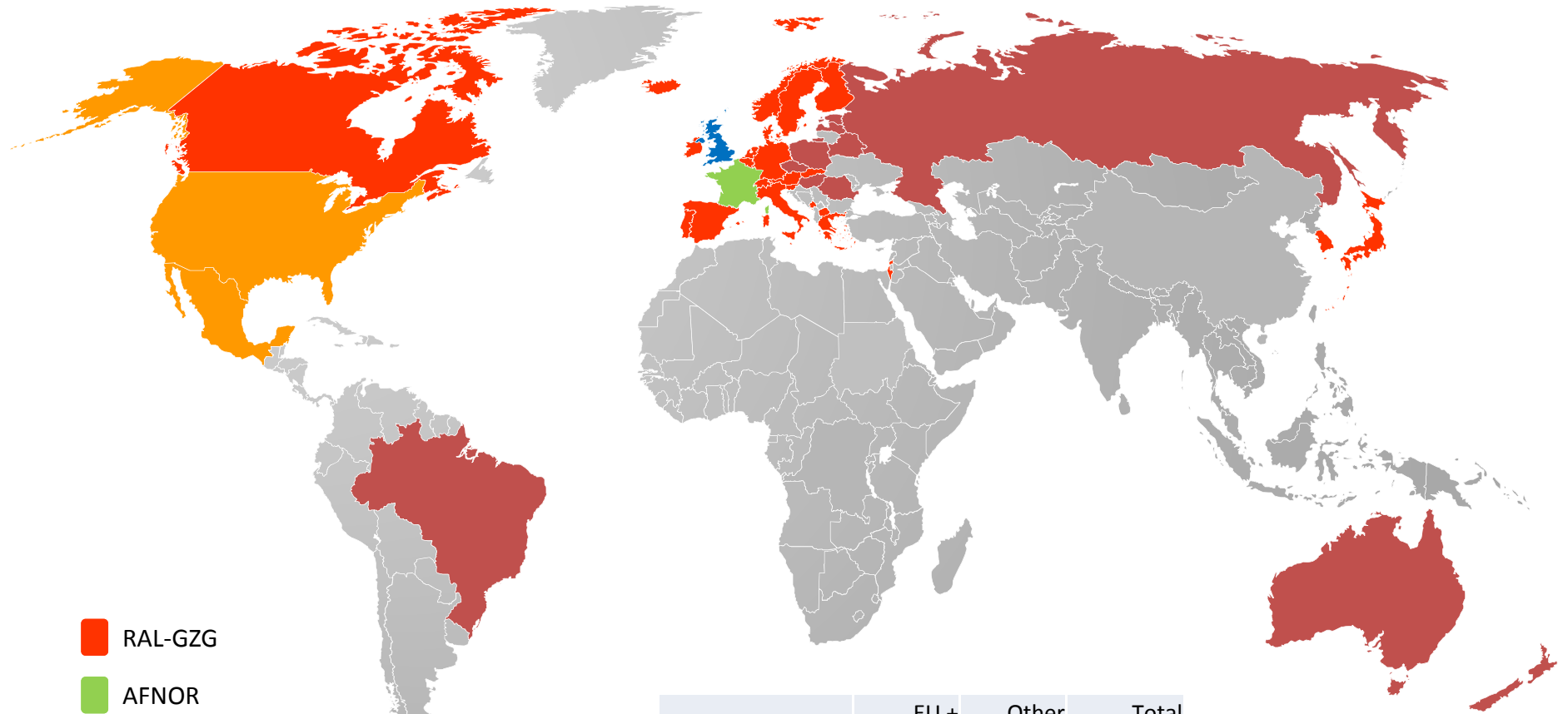
mmHG 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60



here is a need for a clear distinction
which can be checked



Use of standards

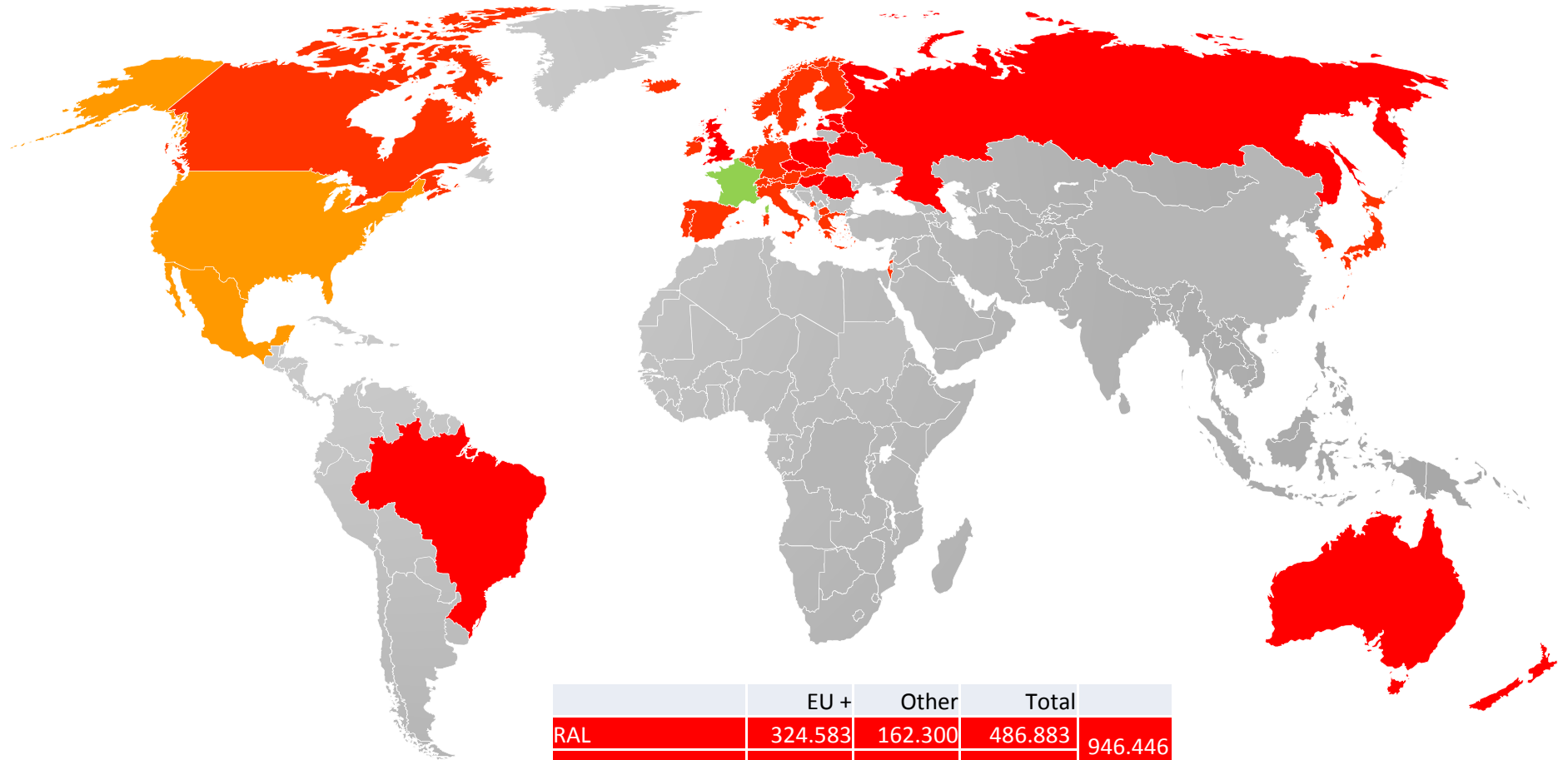


- RAL-GZG
- AFNOR
- BSI
- US - Based on RAL-GZG
- RAL-GZG accepted

	EU +	Other	Total
RAL	324.583	162.300	486.883
RAL-accepted	31.594	365.534	397.127
BSI/RAL-accepted	62.436	-	62.436
US-Based on RAL	-	426.385	426.385
AFNOR	65.075	-	65.075
-	26.709	-	26.709
	510.396	954.219	1.464.615



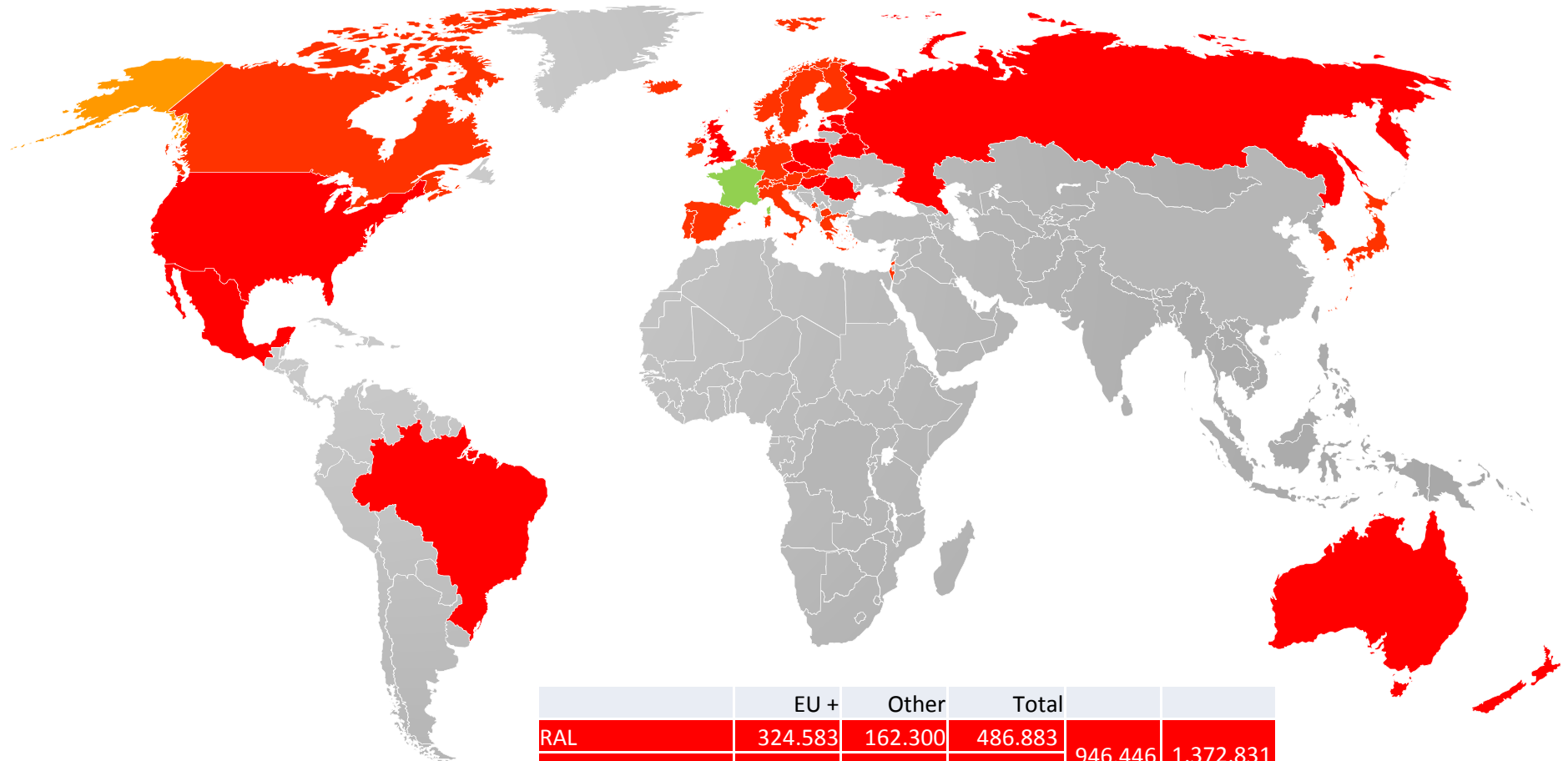
acceptance



	EU +	Other	Total	
RAL	324.583	162.300	486.883	946.446
RAL-accepted	31.594	365.534	397.127	
BSI/RAL-accepted	62.436	-	62.436	
US-Based on RAL	-	426.385	426.385	
AFNOR	65.075	-	65.075	518.169
-	26.709	-	26.709	
	510.396	954.219	1.464.615	518.169



The world today



	EU +	Other	Total		
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RAL-accepted	31.594	365.534	397.127		
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-	26.709	-	26.709		
	510.396	954.219	1.464.615	518.169	91.784



Stiffness

Def.:

Change in pressure (mmHg) per centimeter change in circumference

$$\text{Stiffness} = \frac{\Delta Pb \text{ (mmHg)}}{\Delta Cb \text{ (cm)}}$$

$$\Delta Cb = \frac{(21+1) - (21-1)}{2} = 1$$

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$$\Delta Cb = \frac{(21+1)-(21-1)}{2} = 1 \qquad \frac{1}{21} = 4,7\%$$

$$\Delta Cb = \frac{(31+1)-(31-1)}{2} = 1 \qquad \frac{1}{31} = 3,2\%$$

$$\text{Stiffness} = \frac{\Delta Pb \text{ (\%)}}{\Delta Cb \text{ (\%)}}$$