

### Annex 2.1.3.2: Results of comparison- combined regression per MS

Calculations were carried out by Wouter van de Bund (JRC) and Nicolas Mengin (CEMAGREF), using the data (Excel sheets) provided by the MS

For each MS one single regression between EQR MS value and EQR ICMi is calculated using data from all common intercalibration types, as provided by each MS

Table 1 – Composition of the dataset by Member State and common type

Country (Name)	Type	Count of Site						Grand Total
Country(corr)	Bench	RC1	RC2	RC3	RC4	RC5	RC6	Grand Total
AT				67				67
BE-F		193			185			378
Benchmark	401							401
BE-W				50				50
CZ				101				101
DE		68		170	88			326
DK		49			36		45	130
EE					22	16	27	65
ES			97	158	220	44	26	545
FR		127	378	462	185		424	1576
IE			2319		1071	221	2815	6426
IT		365						365
LT					72		73	145
LU				98	58		140	296
NL		374			508			882
PL		59						59
SE			71					71
UK		502	188		924		1338	2952
Grand Total	401	1737	3053	1106	3369	281	4888	14835

Table 2 – type-specific Member State boundary values

Type	Country	MS HG	MS GM	EQR_MS HG	EQR_MS GM
RC3	AT	0.80	0.60	0.80	0.60
RC1	BE-F	0.80	0.60	0.80	0.60
RC4	BE-F	0.80	0.60	0.80	0.60
RC3	BE-W	17.00	13.00	0.97	0.74
RC3	CZ	0.80	0.60	0.80	0.60
RC1	DE	0.80	0.60	0.80	0.60
RC3	DE	0.80	0.60	0.80	0.60
RC4	DE	0.80	0.60	0.80	0.60
RC1	DK	7.00	5.00	1.00	0.71
RC4	DK	7.00	5.00	1.00	0.71
RC6	DK	7.00	5.00	1.00	0.71

RC4	EE	6.00	5.00	0.89	0.74
RC5	EE	6.00	5.00	0.95	0.79
RC6	EE	6.00	5.00	0.93	0.77
RC2	ES	0.93	0.73	0.93	0.73
RC3	ES	0.93	0.73	0.93	0.73
RC4	ES	0.93	0.73	0.93	0.73
RC5	ES	0.93	0.73	0.93	0.73
RC6	ES	0.93	0.73	0.93	0.73
RC1	FR	0.87	0.80	0.87	0.80
RC4	FR	0.94	0.81	0.94	0.81
RC2	FR MOY	0.91	0.81	0.91	0.81
RC3	FR MOY	0.91	0.79	0.91	0.79
RC6	FR MOY	0.94	0.81	0.94	0.81
RC2	IE	4.50	4.00	0.90	0.80
RC4	IE	4.50	4.00	0.90	0.80
RC5	IE	4.50	4.00	0.90	0.80
RC6	IE	4.50	4.00	0.90	0.80
RC1	IT	0.96	0.72	0.96	0.72
RC4	LT	9.00	7.00	1.00	0.78
RC6	LT	9.00	7.00	0.90	0.70
RC3	LU				
RC4	LU				
RC4	LU				
RC6	LU MOY				
RC1	NL	0.80	0.60	0.80	0.60
RC4	NL	0.80	0.60	0.91	0.68
RC1	PL	0.90	0.68	0.89	0.68
RC2	S	0.80	0.60	1.03	0.92
RC1	UK	0.97	0.86	0.97	0.86
RC2	UK	0.97	0.86	0.97	0.86
RC4	UK	0.97	0.86	0.97	0.86
RC6	UK	0.97	0.86	0.97	0.86

Table 3 – Regression between Member State assessment method EQR values and ICMi EQR values, with boundary values before the harmonisation step of the intercalibration

**EQR\_MS\_val**

MS band benchmark	slope	intercept	r2	MS HG	MS GM	EQR_MS HG	EQR_MD GM	EQR_ICMi HG 0.93 0.95	EQR_ICMi GM 0.76 0.79
AT	1.04	0.10	0.75	0.80	0.60	0.80	0.60	0.93	0.72
BE-W	0.96	0.02	0.96	17.00	13.00	0.97	0.74	0.95	0.73
DE	0.59	0.46	0.52	0.80	0.60	0.80	0.60	0.93	0.82
ES	0.79	0.24	0.82	0.93	0.73	0.93	0.73	0.97	0.82
FR	0.86	0.10	0.74	0.92	0.80	0.91	0.80	0.88	0.78
UK	1.58	-0.61	0.73	0.97	0.86	0.97	0.86	0.92	0.74
IT	1.00	0.00	1.00	0.96	0.72	0.96	0.72	0.96	0.72
LU	0.99	0.00	0.84	14.70	11.00	0.96	0.72	0.94	0.71
IE	1.10	0.00	0.64	4.50	4.00	0.85	0.75	0.93	0.82
LT	0.56	0.40	0.37	9.00	7.00	0.95	0.74	0.93	0.82
NL	0.68	0.31	0.29	0.80	0.60	0.80	0.60	0.93	0.77
PL	0.80	0.17	0.68	0.90	0.68	0.89	0.68	0.88	0.71
SE	0.54	0.60	0.46	0.80	0.60	0.80	0.60	1.03	0.92
BE-F	1.06	-0.07	0.72	0.80	0.60	0.80	0.60	0.77	0.56
CZ	0.54	0.50	0.34	0.80	0.60	0.80	0.60	0.93	0.82
DK	0.82	0.18	0.74	7.00	5.00	1.00	0.71	1.00	0.76
EE	1.37	-0.36	0.75	6.00	5.00	0.92	0.77	0.91	0.70

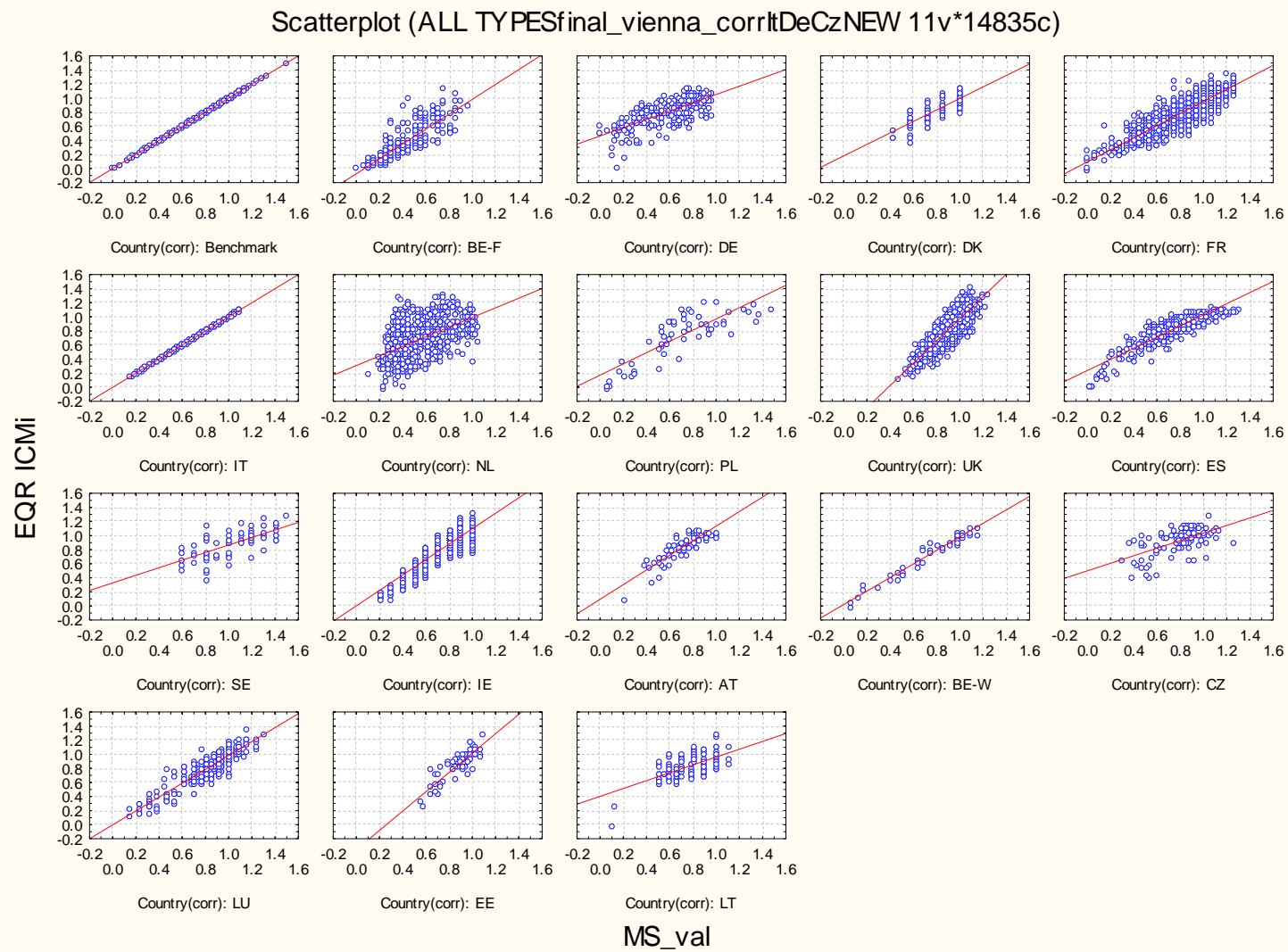


Figure 1 – EQR ICMi value plotted against MS value (Note: Swedish figure was changed at a later stage - see Annex 2.1.4.6)

Table 3 – Regression between Member State assessment method EQR values and ICMi EQR values, with boundary values after the harmonisation step of the intercalibration (values that were changed are highlighted in yellow)

**EQR\_MS\_val**

MS band benchmark	slope	intercept	r2	MS HG	MD GM	EQR_MS HG	EQR_MD GM	ICMi HG	ICMi GM
								0.94	0.76
								0.95	0.79
AT	1.04	0.10	0.75	0.80	0.60	0.80	0.60	0.93	0.72
BE-W	0.96	0.02	0.96	17.00	13.00	0.97	0.74	0.95	0.73
DE	0.59	0.46	0.52	0.80	0.60	0.80	0.60	0.93	0.82
ES	0.79	0.24	0.82	0.93	0.73	0.93	0.70	0.97	0.79
FR	0.86	0.10	0.74	0.92	0.80	0.94	0.80	0.90	0.78
UK	1.58	-0.61	0.73	0.97	0.86	0.97	0.86	0.92	0.74
IT	1.00	0.00	1.00	0.96	0.72	0.96	0.72	0.96	0.72
LU	0.99	0.00	0.84	14.70	11.00	0.96	0.72	0.95	0.74
IE	1.10	0.00	0.64	4.50	4.00	0.85	0.75	0.93	0.82
LT	0.56	0.40	0.37	9.00	7.00	0.95	0.74	0.93	0.82
NL	0.68	0.31	0.29	0.80	0.60	0.80	0.60	0.93	0.77
PL	0.80	0.17	0.68	0.90	0.68	0.89	0.68	0.88	0.71
BE-F	1.11	-0.06	0.72	0.90	0.70	0.90	0.70	0.94	0.72
CZ	0.54	0.50	0.34	0.80	0.60	0.80	0.60	0.93	0.82
DK	0.82	0.18	0.74	7.00	5.00	1.00	0.71	1.00	0.76
EE	1.37	-0.36	0.75	6.00	5.00	0.92	0.77	0.91	0.70