

Status of the introduction of the ETRS89 in Europe, return of Circular Letter of EUREF and EuroGeographics

Country	Response	ETRS89	Year of Adoption	official support				condition of use				relation with users	
				Law	Standard	Recommendation	other	always mandatory	in specify situations	complementary	other	user demand	access to coordinates
Albania	no												
Armenia	no												
Austria	yes	yes	2004	no	yes	yes	no	no	yes	no	yes	partly	coord. publicly available
Belarus	(no)												
Belgium	yes	yes	1993	no	yes	no	no	no	no	yes	no	%	coord. publicly available
Bulgaria	(no)												
Croatia	yes	yes	2004 finished in 2009	yes	no	no	no	%	%	%	%		coord. publicly available
Cyprus	no												
Czech Republic	yes	yes	1995	yes	no	no	no	no	yes	yes	no	frequently requested	coord. publicly available
Denmark	yes	yes	1992	no	yes	yes	no	yes	no	yes	no	NMA of DK makes big efforts to convince users from the advantage of ETRS89	coord and transformation procedures can get by web
Estonia	yes	yes	2004	yes	no	no	no	yes	no	no	no	large	coord. publicly available

[illegible]

Country	Response	ETRS89	Year of Adoption	official support				condition of use				relation with users	
				Law	Standard	Recommendation	other	always mandatory	in specify situations	complementary	other	user demand	access to coordinates
Italy	yes	yes	1996	no	yes	no	no	no	no	yes	no	large, due GPS surveying	%
Kosovo	no												
Latvia	yes	yes	1992	yes	no	no	no	yes	yes	yes	no	large for cadastral surveying, civil engineering	coord. publicly available
Lithuania	yes	yes	1994	no	no	no	yes	yes	no	no	no	large	restricted access
Luxembourg	yes	no also not in future	%	%	%	%	%	%	%	%	%	%	%
Malta	yes	no	planed for end 2005	%	%	%	%	%	%	%	%	%	%
Moldova	yes	yes	2001	yes	no	no	no	(yes)	yes	(yes)	no	CRS at large demand	coord. publicly available
Netherlands	yes	yes	2000	no	no	yes	no	no	yes	yes	no	ETRS89 is widely used in GNNS-networks, but hidden for the end-user, the user gets RD and NAP out of this systems by RDNAPTRANS	ETRS89 coordinates are publicly available for the 5 stations of the AGRS.NL and 450 GPS-base points

[illegible]

Country	Response	ETRS89	Year of Adoption	official support				condition of use				relation with users	
				Law	Standard	Recommendation	other	always mandatory	in specify situations	complementary	other	user demand	access to coordinates
Spain	yes	yes	2004	no	no	yes	no	no	yes	yes	no	from GPS users, National Habours Org., AENA	
Sweden	yes	yes		no	yes	yes	no	no	yes	yes	no	large interest and growing demand	coord. publicly available
Switzerland	yes	yes	official in 2011	no	no	yes	no	no	yes	yes	no	is requestet (GPS users) as well as transf. to nat. CRS LV03	coord. publicly available
Turkey	yes	no also not in future	%	%	%	%	%	%	%	%	%	%	%
Ukraine	no												
United Kingdom	(no)												

41

27

21/25

10

6

9

6

13

16

17

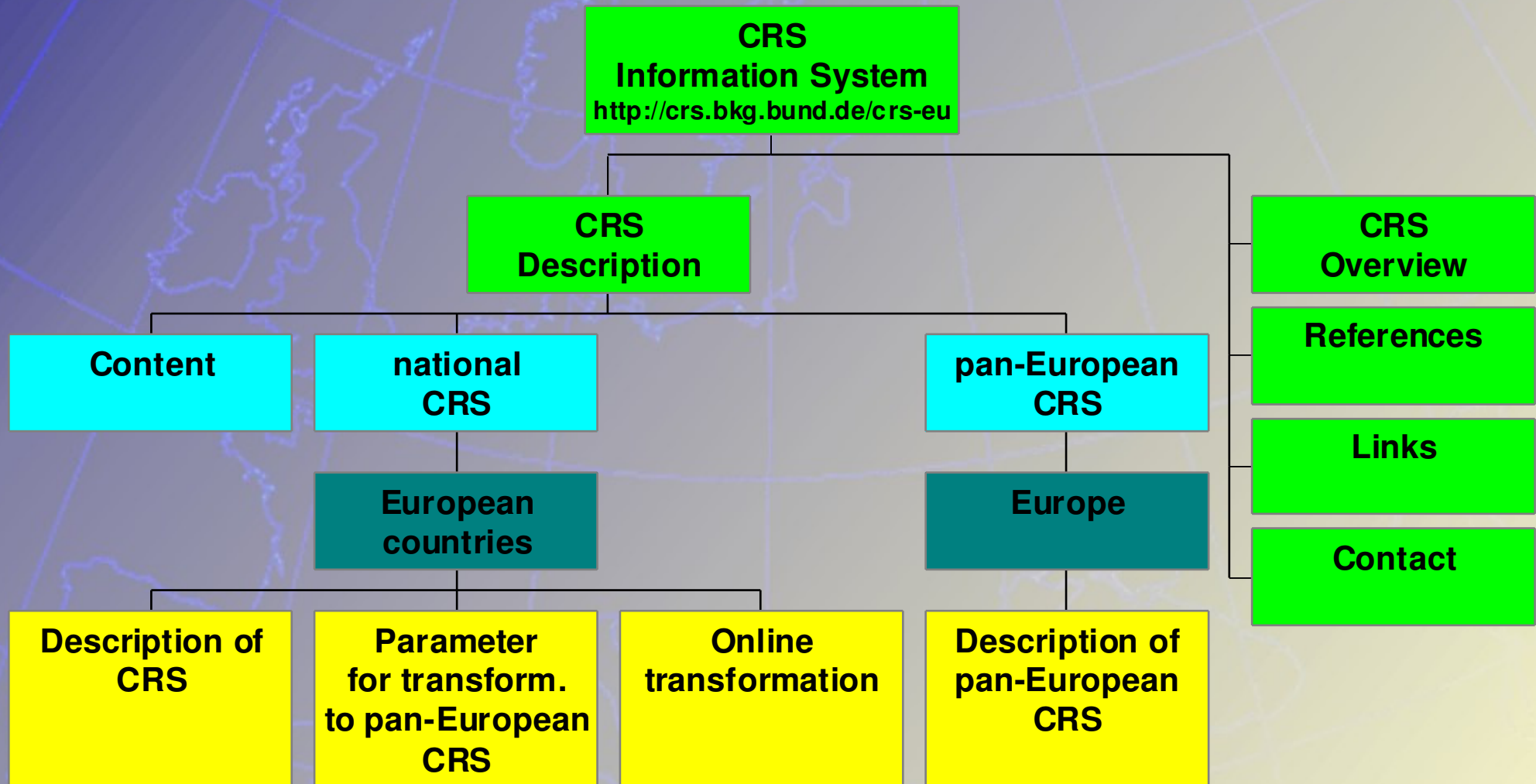
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Summary/Conclusions

CRS-EU Improvements since last EUREF Symposium

- **new version of web sites with BKG design**
- **improved layout and structure for better access to the information**
- **verification data for transformation**
- **starting of realisation of single point online transformation for position**

Structure



Verification data (1)

- verification data for transformation in position
(7-Parameter-Helmert- Transformation)
and height by some fictive points of the
transformation area

Poland (PL) - Testdata for Validation of Transformation

fictive points of transformation area

PL_42/58 (DMS)				ETRS89 (DMS)			
Lat		Lon		Lat		Lon	
53 49 36.1200	14 45 58.3200			53 49 34.84	14 45 51.44		
49 33 20.8800	22 23 58.5600			49 33 19.89	22 23 52.44		

Verification data (2)

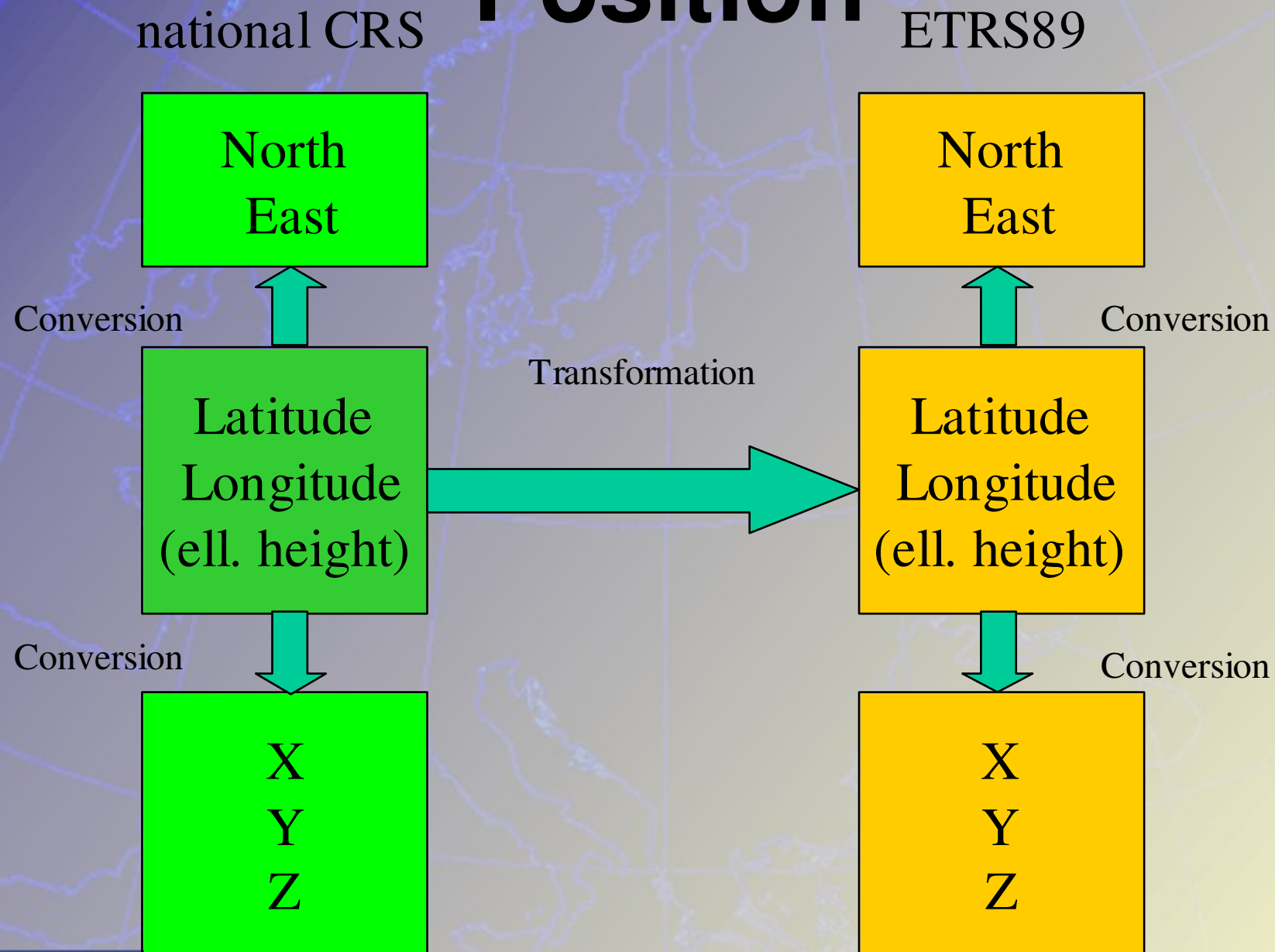
Height

Poland (PL) - Testdata for Validation of Transformation

fictive points of transformation area

Coordinates in ETRS89 (DMS)			Heights (m)	
Lat	Lon		PL_KRON / NH	EVRF_AMST / NH
53 12 11	16 02 05		118.456	118.623
53 41 32	22 15 04		150.735	150.904
51 43 34	15 50 01		82.378	82.537
49 58 42	21 17 26		215.629	215.778

Online Transformation - Position



Status Countries (1)

Status: 26-May-2005

Country	ID	Position			Height	
		CRS-Description	Transf. to ETRS89	Online transf.	CRS-Description	Transf. to EVRF2000
Albania	AL	publis.	no	no	no	no
Austria	AT	publis.	publis.		publis.	publis.
Belgium	BE	publis.	publis.	publis.	publis.	publis.
Bosnia / Hercegovina	BA	no	no	no	exist. data	exist. data
Bulgaria	BG	no	no	no	publis.	publis.
Croatia	HR	publis.	publis.	publis.	exist. data	exist. data
Cyprus	CY	no	no	no	no	no
Czech Republic	CZ	publis.	publis.	publis.	exist. data	exist. data
Denmark	DK	publis.	publis.	publis.	publis.	publis.
Estonia	EE	publis.	publis.	publis.	publis.	publis.
Finland	FI	publis.	publis.	publis.	publis.	publis.
France	FR	publis.	publis.	(publis.)	publis.	publis.
Germany	DE	publis.	publis.	publis.	publis.	publis.
Gibraltar	GI	publis.	publis.	publis.	no	no
Great Britain	GB	publis.	publis.	publis.	publis.	publis.
Greece	GR	publis.	no	no	exist. data	no UELN
Hungary	HU	exist.	exist.	no	publis.	publis.
Iceland	IS	no	no	no	no levelling network	
Ireland	IE	publis.	publis.	publis.	publis.	no UELN
Italy	IT	publis.	publis.		exist. data	exist. data

Status Countries (2)

Country	ID	Position			Height	
		CRS-Description	Transf. to ETRS89	Online transf.	CRS-Description	Transf. to EVRF2000
Latvia	LV	publis.	publis.	publis.	exist. data	exist. data
Lithuania	LT	publis.	publis.	publis.	publis.	publis.
Luxembourg	LU	publis.	publis.	publis.	publis.	no UELN
Macedonia	MK	no	no	no	no	no
Malta	MT	no	no	no	no	no
Netherlands	NL	publis.	publis.		publis.	publis.
Northern Ireland	NI	publis.	publis.	publis.	exist. data	no UELN
Norway	NO	publis.	publis.		publis.	publis.
Poland	PL	publis.	publis.	(publis.)	exist. data	exist. data
Portugal	PT	publis.	publis.		publis.	publis.
Romania	RO	no	no	no	exist. data	exist. data
Russia	RU	no	no	no	exist. data	no UELN
Slovak Republic	SK	publis.	publis.	publis.	publis.	publis.
Slovenia	SI	publis.	publis.	publis.	publis.	publis.
Spain	ES	publis.	publis.	publis.	publis.	publis.
Sweden	SE	publis.	publis.	publis.	publis.	exist. data
Switzerland	CH	publis.	publis.	publis.	publis.	publis.
Turkey	TR	publis.	publis.	publis.	publis.	no UELN
Ukraine	UA	no	no	no	exist. data	no UELN

Web Sites (1)

Web sites of information system and examples

- CRS-EU – Homepage
- choice of country for national CRS
- choice of CRS for one country
- selection of pan-European CRS
- example for description of a CRS for position
- example for description of transformation parameters of a CRS for position

Web Sites (2)

Web sites of information system and examples

- example for description of a CRS for height
- example for description of transformation parameters of a CRS for height
- online transformation

Content – future

- **step by step completion of information for the countries depending on their response / assistance**
- **step by step realisation of single point online transformation of different CRS for test and verification purposes**