1 - METHOD BA	ACKGROUND		
NAME OR CODE COUNTRY KEY REFERENCE			RHS adaptation (in progress) Portugal Raven et al. (2009); Ferreira et al. (2011)
WEBPAGE CATEGORY			The method aims to assess the physical habitat quality of rivers in Portugal (modifications/adaptations of the UK-RHS to hydromorphological conditions in
CATEGORI			Portugal)
2 - METHOD CH	HARACTERISTIC	es	
A - SOURCE OF INFORMATION / DATA COLLECTION		Maps/Remote sensing	The authors highlight the importance of aerial photographs to verify and interpret RHS survey data and to define riparian habitat distribution and land uses
		Field survey Rapid field assessment Existing database Modelling	The same protocol as for RHS NOT APPLICABLE Use of existing database to calibrate the method to Portugal NOT APPLICABLE
	HIERACHICAL SPATIAL SCALE LONGITUDINA L SPATIAL SCALE	River catchment/Water body/ Reach/Cross Section	Same as to RHS
B - SPATIAL SCALE		Fixed length Scaled to channel width Variable length	Same as RHS NOT APPLICABLE NOT APPLICABLE
		Channel	More attention and adaptation to specific channel features (natural and artificial) of Mediterranean rivers
	LATERAL SPATIAL SCALE	Banks/Riparian zones	More attention to extent of trees and associated features in the riparian zone; re- definition of banktop; clearer definitions of natural berm, terrace and riparian floodplain
		Floodplain	Inclusion of typical land use in Portugal; much clearer definitions of natural berm, terrace and riparian floodplain
C - TEMPORAL S	SCALE	Physical and morphological assessment	Same as RHS
		Hydrological assessment	NOT APPLICABLE
		Characterization/classification Assessment by index	Same as RHS Modification/adaptation of HQI and HMS to rivers in Portugal
		Deviation from reference	Consistent with RHS but specific description of type-specific reference conditions in Portugal are needed
D - TYPE OF ME	THOD	General assessment / Design framework	NOT APPLICABLE
		Modelling status / Scenario Final expert judgment	NOT APPLICABLE NOT APPLICABLE
		Links with other systems	Possible link and parallel use to QBR and other hydrological assessment methods (because RHS lacks them)
E - REFERENCE CONDITIONS			Authors need to describe type-specific reference conditions for Portugal, but rare examples seem to exist in Portugal
	RIVER TYPOLOGY		Authors will provide the development and validation of a national river typology (but nationally it is used the system B, (INAG, I.P., 2008)) The method would accomplish lacks of RHS in terms of assessment of
F - GENERAL INFORMATION	TYPOLOGY LIMITATIONS		Mediterranean rivers; it is specifically adopted to be applied to river types in Portugal
	TYPE-SPECIFIC (Protocol / Assessment method) BASIS FOR STANDARDS / THRESHOLDS REACH SCALE SURVEY STRATEGY		NOT APPLICABLE Under development Same as RHS
	TIMING AND FREQUENCY		Particular attention should be given to the period of survey, because of the high variability in hydrological regimes in Portugal (Seasonal and inter-annual flow variability, both for natural and human-induced causes)
	DATA PRESENTATION (OUTPUT/LAYOUT)		Same as RHS
	METHOD SUPPORT / APPLICATION TOOLS		A Portuguese support protocol version (manual, field sheets, database etc.) is under development
	SPATIAL COMPARISON		Modifications to the original RHS protocol will be limited, allowing comparison of data between different EU Member States that use RHS
	CONNECTION TO ECOLOGY USERS		Same as RHS Same as RHS
	SCALE INFORMATION NUMBER OF END PARAMETERS		Same as RHS NOT AVAILABLE

3. RECORDED F	EATURES		
	LARGE SCALE C	CHARACTERISTICS	Same as RHS
		Hydrological conditions	Consistent with RHS; surveyors are always required to record the conditions of the
A - CATCHMENT / VALLEY		, •	survey to allow for comparison
	L REGIME	Metrics of hydrological regime Hydro-peaking	NOT APPLICABLE NOT APPLICABLE
	VALLEY FORM /		Consistent with RHS; problems to determine banktop in V-shaped valleys
	CHANNEL PATTERN / PLANFORM		Same as RHS
	CHANNEL FORMS		The Portuguese version records some additional features of channel forms (total number of side bars; the presence and number of wet and dry sub-channels; distinguish mid-channel bars and mature islands surrounded by dry/ wetted sub-channels)
	BED CONFIGURATION		Adding "presence of vernal pools" (dry channels) amongst features of special interest
	CHANNEL DIMENSIONS		Re-definition of criteria to determine and define banktop
B - CHANNEL	FLOW-TYPE		It better defines/explains naturally-ponded flow-type and provides keys to identify
D CHANNEL			modifications causing ponded water
	PHYSICAL / HYDRAULIC VARIABLES		NOT APPLICABLE Consistent with RHS but it records either the dominant and sub-dominant channel
	SUBSTRATE		substrate (because annual flow variability leads to a high number of substrate types in a site)
	IN-CHANNEL VEGETATION WOODY DEBRIS		Channel vegetation types description adapted to rivers in Portugal Same as RHS
	ARTIFICIAL FEATURES AND STRUCTURES		Improved description of artificial features and their actual impact (i.e. minor fords and weirs), difficult to describe during low flows
	BANK PROFILE / SHAPE		It needs to define discrete sit/sand/gravel deposit as bankside depositional features
	BANK MATERIAL		Same as RHS
C - RIVER	RIPARIAN VEGETATION STRUCTURE LONGITUDINAL CONTINUITY OF RIPARIAN		Same as RHS Same as RHS
BANKS/ RIPARIAN	VEGETATION		Differently from the RHS protocol, the Portuguese version directly assesses the
ZONE	RIPARIAN VEGETATION WIDTH VEGETATION COMPOSITION, COVERAGE AND		width of the riparian zone (both banks) Presence/Absence/Extension of typical fluvial woody species and "nuisable" plant
	OTHER RIPARIAN VEGETATION CHARACTERISTICS ARTIFICIAL FEATURES AND STRUCTURES		species
			Same as RHS
	LAND USE FLUVIAL FORMS		Definition of land uses adapted for Portugal Same as RHS
D -	INFO ON FLOODPLAIN FEATURES		NOT APPLICABLE
FLOODPLAIN	LAND USE		Definition of land uses adapted for Portugal; add "Riparian (wet) woodland" amongst floodplain land uses
4. RIVER PROC	ESSES		
A - LONGITUDINA	AL CONTINUITY	Sediment and wood	Same as RHS
A - LONGITUDINA	AL CONTINUITY	Water flow	Same as RHS
B - LATERAL CON	ITINIIITY	Lateral hydraulic continuity	Same as RHS
B - LATERAL CON	NIINOIIT	Sediment (and wood) lateral continuity	Same as RHS
C - BANK EROSION / STABILITY		correntate	Same as RHS
F - CHANNEL ADJUSTMENTS Plan		Planimetric (pattern & width) Vertical	NOT APPLICABLE NOT APPLICABLE
F - VERTICAL CONTINUITY Groundwater connection			Same as RHS
5. APPLICATIO	N TO WFD		
OFFICIAL METHOD (WFD implementation) / COMMONLY USED METHOD (not compulsory)			The method is an implementation of the RHS methodology for fluvial hydromorphological characterization and quality assessment in Portugal in accordance with the WFD and with a work plan defined by Portuguese Water Authorities to achieve this objective
		DIES F HIGH-STATUS / OTHER STATUS	It is applied to all water bodies in Portugal NOT AVAILABLE
CLASSES USED TO PREDICUSED TO IDENTI	FY IMPROVEMEN	T TARGETS	NOT AVAILABLE NOT AVAILABLE
USED TO HELP IDENTIFY CAUSE OF ECOLOGICAL IMPACTS KEY STRENGTHS FOR RIVER MANAGEMENT			NOT AVAILABLE Possibility to compare results at the European scale