CHADA

Characterisation Data and description of a characterisation experiment

For [name of the characterisation method**]**

Used in [name of the project**]**

Overview of the Characterisation

1	**Sample**	*General description of the sample AND the testing environment*
2	**Chain of methods**	*Method 1. Please identify the first method used. Most characterisation processes should consist of only one method. However, the user has the possibility to describe a characterisation that includes multiple chained methods.*
		Method 2
		…
3	**Data publication**	*Please give the publication that documents the data of this ONE characterisation.* *This article should ensure the quality of this data set (and not only the quality of the method).*
4	**Access conditions**	*Please list whether the model and/or data are free, commercial or open source. Please list the owner and the name of the software or database (including web link if available).*
5	**Workflow of the characterisation**	*Please give a textual explanation of the characterisation workflow.*

Workflow picture

< Please insert your workflow picture >

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colspan="4"	**1. SAMPLE**		
1.1	**USER**	*Describe the user (level of expertise) and the level of automation of the test*	
1.2	**User case (sample specifications)**	*Describe the sample specifications (dimensions, surface conditions, sample preparation procedures, sample holder).*	
1.3	**Specimen**	*Describe the nature of the specimen (bulk material, coating, heterogeneous material, biomaterial, etc.)*	
1.4	**Testing environment**	*Describe the environment of the experiment (temperature, pressure, working environment – in air, controlled pressure, or vacuum – humidity, noise, vibrations)*	
1.5	**Material**	*Main properties of the material under investigation – chemical composition – metal/ceramic/polymer/natural/composite – microstructure of the sample volume.*	

2. METHOD		
2.1	**Sample/probe physics of interaction**	*Describe the NATURE of the probe used to test the material, as well as the physics of interaction between the sample volume and the probe.*
2.2	**Volume of interaction**	*Describe the characteristic volume of interaction between the sample*
2.3	**Equipment setup**	*Describe the characteristic setup of your equipment (may vary significantly from one technique to another)*
2.4	**Calibration**	*Describe the calibration process needed to acquire the data*
2.5	**Probe**	*Describe the NATURE of the probe used to test the material*
2.6	**Detector**	*Describe the nature and main functions of the used detector*
2.7	**Signal**	*Describe the SIGNAL that is acquired*
2.8	**Time lapse**	*Quantify the time needed for the acquisition*
2.9	**Testing Input parameters**	*Describe the main input parameters that are needed to acquire the signal*
2.10	**Main acquired channels**	*Describe the main acquired channels for this experiment*

3. RAW DATA		
3.1	**Raw Data**	*Describe the nature and format of the acquired raw data*
3.2	**Data acquisition rate**	*Quantify the raw data acquisition rate*

4. DATA PROCESSING		
4.1	**Main data filtering processes**	*Describe the main raw data filtering processes*
4.2	**Main data analysis procedures**	*Describe the main raw data analysis workflow*
4.3	**Main processed channels**	*Describe the main processed channels*
4.4	**Data processing through calibrations**	*Describe how raw data are corrected and/or modified through calibrations.*
4.5	**Properties (elaborated data)**	*Describe how the elaborated data are converted into properties.*