

# Table of contents

<b>Foreword</b> .....	<b>3</b>
<b>Acknowledgements</b> .....	<b>4</b>
<b>1. Introduction: EU legislation on population and housing censuses</b> .....	<b>7</b>
<b>2. Technical specifications</b> .....	<b>9</b>
2.1. Legal and international framework .....	9
2.2. Technical specifications for the census topics .....	10
2.3. Technical specifications for the breakdowns .....	10
2.3.1. Breakdowns with different levels of detail .....	10
2.3.2. What are the breakdowns designed to disaggregate? .....	11
<b>3. EU programme for the 2021 population and housing censuses</b> .....	<b>14</b>
3.1. Output-harmonised census data .....	14
3.2. Focus on EU policies.....	15
3.3. Structure of the 2021 hypercube programme .....	16
3.4. Treatment of confidential data.....	17
3.5. Data on the homeless.....	18
3.6. Metadata on specific hypercube cells: Flags .....	19
3.7. Metadata on definitions, sources and methodological issues .....	19
<b>4. Dissemination of 2021 census data on a 1 km<sup>2</sup> grid</b> .....	<b>20</b>
4.1. Introduction .....	20
4.1.1. Background .....	20
4.1.2. General remarks on Regulation (EU) 2018/1799 (CIR-4).....	21
4.1.3. INSPIRE issues.....	21
4.2. A common European 1 km <sup>2</sup> reference grid .....	22
4.2.1. Definition of the 1 km <sup>2</sup> reference grid .....	22
4.2.2. Unique 1 km <sup>2</sup> grid cell identifiers.....	24
4.2.3. Compiling grid data .....	25
4.3. The 1 km <sup>2</sup> grid dataset.....	26
4.3.1. Topics and breakdowns on the grid.....	26
4.3.2. Grid cells on which Member States have to report.....	27
4.3.3. The structure of the grid dataset.....	28
4.4. Metadata to the 1 km <sup>2</sup> grid data.....	29
4.4.1. Flags for the grid dataset.....	29
4.4.2. Topic-specific quality metadata.....	30
4.4.3. Quality metadata for geographic data.....	31
4.4.4. Further metadata provisions.....	32

4.5. Statistical disclosure control and output harmonisation of the 1 km <sup>2</sup> grid data at EU level .....	32
4.5.1. Minimising data suppression .....	32
4.5.2. Special features and requirements of grid data.....	33
4.5.3. The ‘populated’ flag.....	33
4.6. Transmission of the 1 km <sup>2</sup> grid data and metadata .....	35
<b>5. Quality reporting.....</b>	<b>37</b>
5.1. Introduction and purpose of census quality monitoring .....	37
5.2. Legal framework.....	38
5.3. Overview information .....	39
5.4. Data sources.....	40
5.4.1. Identifying the data sources for quality reporting .....	41
5.4.2. List of data sources .....	43
5.4.3. Matching of data sources to census topics .....	43
5.4.4. Adequacy of the data sources .....	43
5.4. Data sources.....	45
5.6. Assessment of data quality.....	46
5.6.1. Comparability.....	46
5.6.2. Timeliness and punctuality.....	46
5.6.3. Coherence .....	47
5.6.4. Coverage and accuracy.....	47
5.6.5. Completeness .....	53
5.6.6. Relevance.....	53
5.6.7. Geographic information — data quality.....	53
5.7. Access to all information relevant to the quality assessment.....	54
5.8. Outputs from the ESS Vision 2020 ADMIN project.....	54
<b>6. Data and metadata transmission .....</b>	<b>56</b>
6.1. Transmission of quantitative data and metadata — Census Hub .....	57
6.2. Transmission of textual metadata — ESS Metadata Handler.....	58
<b>Annex A. Additional remarks on the topics and breakdowns in Regulation (EU) 2017/543 .....</b>	<b>63</b>
<b>Annex B. Overview of the EU census programme under Regulation (EU) 2017/712 .....</b>	<b>85</b>
<b>Annex C. Provisions of EU census legislation on metadata and quality reporting.....</b>	<b>90</b>
<b>Annex D. Transmission programme of quantitative metadata (quality hypercubes).....</b>	<b>96</b>
D1. How to compute QHC1: Quantitative information on the coverage of persons.....	98
D2. How to compute QHC2: Accuracy information on selected topics on persons .....	100
<b>Annex E. Extended Euro-SDMX Metadata Structure (ESMS) for textual metadata .....</b>	<b>104</b>
<b>Annex F EU regulations on the 2021 population and housing census .....</b>	<b>110</b>