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Connection between the contributions of civil engineering works to sustainability and achievement of the Sustainable Development Goals

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To help you, this guide on writing standards was produced by the ISO/TMB and is available at A model manuscript of a draft International Standard (known as "The Rice Model") is available at

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Foreword

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This document was prepared by Technical Committee ISO/TC 59, *Buildings and civil engineering works*, SC 17 *Sustainability in buildings and civil engineering works*, WG 5, *Civil engineering works*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

Introduction

The methodology for sustainability assessment defined in EN 17472 and ISO 21928-2 provides results intended to be communicated to the interested parties in an understandable way.

The Sustainable Development Goals (SDGs) provide a common language to express sustainability, its challenges and results, and for this reason it would be good to express sustainability performance in terms of SDGs. However, they are not articulated in such a way <u>that theyto</u> form a comprehensive, structured and rigorous <u>complete</u> set to evaluate the sustainability of a civil work. Therefore, <u>it would be convenient ifto</u> <u>express</u> the evaluations carried out <u>with the methodology provided by the according to</u> EN 17472 and ISO 21928-2 standards can be expressed in terms of SDGs, <u>both to can</u> facilitate the understanding of the stakeholders and <u>to declarecan demonstrate</u> the progress <u>made</u> and <u>the</u> contributions made by the civil engineering works to <u>comply with the Sustainable Development Goalsmeeting the SDGs</u>.

It is possible to establish linksLinks between the indicators in EN 17472 and ISO 21928-2 and SDGs can be established. This can lead to improved performance on the indicator results and a greater likelihood of achieving the SDG, and yet finding that the same indicator correlates negatively with the achievement of some other SDG. This is because there are conflicts and apparent contradictions between the goals themselves and their respective targets. For example, those that benefit from food production and agricultural crops often collide with those that protect biodiversity. This document does not enter into such assessments and merely expresses the relationship between the indicators and the SDGs, without making value judgements.SDGs. The aim of the presentthis document is to findidentify linkages between the indicators used to assess the sustainability performance of civil engineering works and the Sustainable Development GoalsSDGs adopted by the United Nations.

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Connection between the contributions of <u>CEW-civil engineering works</u> to sustainability and achievement of the <u>SDGsSustainable</u> <u>Development Goals</u>

1 Scope

This document shows the relationship between those the indicators in EN 17472 and ISO 21928-2, used to assess the environmental, social, and economic performance of <u>Civil Engineering Workscivil engineering</u> works (CEW), and the Sustainable Development Goals, <u>(SDGs)</u>, which can serve as a tool to express and communicate the results of the assessment carried out with the methodology established in those standards<u>EN 17472 and ISO 21928-2</u>.

It<u>This document</u> does not provide any criteria or rule to performrules for performing any kind of assessment, but just the link between the indicators actually used during the assessment and the SDGs.

This document also provides information about how the SDGs are influenced by the performance of several CEW, based <u>inon</u> the results of the assessment done according to <u>either</u> EN 17472 <u>and/</u>or ISO 21928-2, <u>or</u> <u>both</u>, and demonstrate their contributions to <u>achieveachieving</u> the SDGs targets <u>and</u>, <u>consequently</u>, to achieve a sustainable development.

The links provided can also be applied to address efforts towards satisfying specific SDGs.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 21928-2, Sustainability in buildings and civil engineering works — Sustainability indicators — Part 2: Framework for the development of indicators for civil engineering works

EN 17472, Sustainability of construction works — Sustainability assessment of civil engineering works — Calculation methods

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 21928-2 and EN 17472 apply.

ISO and IEC maintain terminological terminology databases for use in standardization at the following addresses:

- — ISO Online browsing platform: available at <u>https://www.iso.org/obp</u>
- — IEC Electropedia: available at <u>https://www.electropedia.org/</u>

4 Methodology

Five typologies of CEW <u>will beare</u> considered in the study:

- <u>Industrial industrial</u> process infrastructures-:
- <u>— Linearlinear</u> infrastructures.;