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# Development of a depletion indicator for natural resources used in concrete

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## Abstract

The objective of this study is to propose a reliable and clear indicator that could assess the present state of depletion of local bulk resources in different regions. The article argues that indicators commonly used to assess resource consumption in the Life Cycle Impact Assessment (LCIA) are not fully adapted to the particular sector of concrete industry. Most impact assessment methods assume that at a global world wide scale, the stock for bulk resources, such as the sand and gravel used for concrete manufacture is so important that it could be considered as



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France are presented. It is shown that the impact on resource consumption for concretes made with aggregates coming from different places is significantly different using the new indicator. It was not possible to highlight this with previous LCIA indicators. Finally the limit of this indicator application is discussed.



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## Keywords

Resources; Building materials; Stock assessment; Methodology

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