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## Quick sustainability scan calculator for intensive and extensive broiler farms

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One of the objectives of the H2020 mEATquality project is to support the development of techniques to assess the sustainability of broiler production, aiming to improve it by implementing the best practices while assessing its environmental, social, and economic impacts. Thus, two quick sustainability scan calculators were developed with those aims: one for intensive and one for extensive broiler farms.

The calculators are based on the evaluation of 10 aspects related to poultry management: 1) certifications; 2) water management; 3) feed; 4) waste and residues management; 5) energy efficiency; 6) socio-economic contribution to the territory; 7) farm associated businesses; 8) animal handling; 9) management of pastures, soil and biodiversity; 10) stocking rate. The last two aspects evaluated only in extensive farms. Each of these aspects receives a score according to its importance and contributes in a different proportion to a final score (with a maximum of 100 points), which is organized into 3 categories: environmental, social, and economic impact. These calculators are designed for easy use (answers are just yes or no), with 61 and 53 questions for extensive and intensive farms, respectively.

These calculators were used to evaluate 60 farms from Poland and Germany. Intensive farms achieved average scores of 81.6, 70.8, and 79.6 points in the environmental, social, and economic impact categories, respectively; while extensive farms achieved average scores of 79.3, 72.0, and 78.0 points in the same categories.

These calculators are useful as a self-assessment tool for farmers, allow comparisons between farms (benchmarking), identify the weak points of each farm, enable participatory certification, and help to provide confidence to consumers.

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