

Bibliometric performance analysis 2010-2024

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Executive summary

The analysis covers the period 2010–2024, which is divided into two sub-periods: early (2010–2016) and late (2017–2024), reflecting Ingenio's internal organisational changes. This periodisation is applied consistently throughout all analyses.

SCIENTIFIC PRODUCTION

How much does Ingenio publish and how has output evolved over time?

Ingenio produced 582 publications between 2010 and 2024, predominantly journal articles (90%). Output grew substantially between the two periods, from an annual average of 31 publications in 2010–2016 to 45 in 2017–2024, representing a 45% increase. This growth was not gradual but concentrated around 2011–2013 and 2015–2018, after which output experienced a moderate decline before stabilising at an average of around 40 documents per year.

In which fields did Ingenio publish the most?

Ingenio's research is strongly concentrated in Social Sciences and Humanities, which accounts for over 80% of all publications. The portfolio spans 159 research topics, though output is highly skewed: six topics alone account for more than half of all publications, with Bibliometric Analysis and Knowledge Management together representing over a quarter of total output.

How has Ingenio been doing in these fields relative to the rest of the world?

Most of Ingenio's core research topics perform above the worldwide benchmark of 10% highly cited publications, in some cases considerably so. Sustainability Transitions (9.5%) and Multi-Criteria Decision Making (8.7%) are the main exceptions among the higher-volume topics. A fuller picture of scientific and policy impact is provided in the Scientific and policy impact section.

How has Ingenio's thematic portfolio evolved and what is the ratio of publications in established vs new fields?

Of the 159 active topics, 24 (15%) are present in both periods (referred as persistent topics throughout the report), and concentrate 67% of all publications, forming a stable research core. A further 96 topics (60%) are entries in the late period, contributing 24% of all publications, and 39 topics (25%) were abandoned after the early period, accounting for 9% of all publications. Entry topics are largely aligned with

growing worldwide research areas, suggesting new activity in emerging fields. However, the large number of entry topics with very few publications each point to a pattern of broad exploration rather than focused consolidation in new areas, which may reflect either deliberate diversification or a lack of strategic focus in the late period.

SCIENTIFIC AND POLICY CITATION IMPACT

How much is Ingenio cited in scholarly and policy documents, and how does this compare to the world average?

Around 87% of Ingenio's publications have received at least one scholarly citation. Ingenio's overall Mean Normalised Citation Score of 1.86 and 20% of publications falling in the top 10% most cited worldwide, Ingenio performs well above the world average on both indicators. However, both show a clear decline between the two periods, with the MNCS dropping from 2.33 to 1.58, and top 10% share from 24% to 18%, suggesting that the growth in publication output may have come at some cost to citation impact.

On the policy side, 212 publications (36.5%) were cited in at least one policy document, considerably above the 10% worldwide benchmark figure for the same research topics. Focusing on the share of publications in the top 10% most policy-cited, Ingenio scores 29% overall, declining from 34.2% in the early period to 25.9% in the late period, mirroring the trend observed for scientific impact.

Which fields cite Ingenio the most?

Scholarly citations are dominated by Social Sciences and Humanities (82.6% of citing publications), consistent with Ingenio's own disciplinary profile. Mathematics and Computer Science (28.3%) and Life and Earth Sciences (25.8%) also show notable engagement relative to their size, suggesting that Ingenio's work resonates beyond its primary disciplinary domain. The three most active citing topics are Bibliometric Analysis (15.7%), Knowledge Management (13.5%), and Entrepreneurship (11.6%), which are also Ingenio's main areas in terms of publications, indicating that citations come primarily from within its own core research communities.

Policy citations are dominated by Science and Technology documents (94.5% of all citing policy documents), with Economy, Business and Finance (64.7%) and Education (56.4%) also prominent. Within Science and Technology, Social Sciences accounts for 44.2% of citing policy documents, consistent with Ingenio's disciplinary positioning.

The most prominent policy topics are Research (66.2%), Economy (61.2%), and Innovation (59.5%), reflecting strong alignment with science, technology and innovation policy.

How has citation impact evolved across established and new research areas?

Established topics show a clear decline in both scientific and policy impact between the two periods, though performance remains well above world reference values. Exit topics show above average scientific impact in the early period, suggesting that the decision to leave these areas was not driven by poor performance. Entry topics in the late period perform comparably to established topics on scientific impact but show lower policy footprint, suggesting that Ingenio's newer research areas have yet to establish a comparable policy reach.

INTERDISCIPLINARITY

Is Ingenio's research interdisciplinary and has this changed over time?

Ingenio's publications score above the world average on interdisciplinarity in both periods, though the normalised interdisciplinarity score declined modestly from 1.17 in the early period to 1.09 in the late period. This decline is consistent across most broad fields and applies equally to established and newly entered research areas. While Ingenio's publications remain above the world average across the whole period, the trend suggests a gradual reduction in relative interdisciplinarity as output has grown.

Does interdisciplinarity relate to citation impact across Ingenio's research topics?

The relationship between interdisciplinarity and citation impact is not straightforward. Among Ingenio's larger research topics, Entrepreneurship combines above-average interdisciplinarity with high citation impact, while Knowledge Management shows high citation impact despite below-average interdisciplinarity. Sustainability Transitions falls below the world average on both dimensions. Overall, topics with the highest citation impact tend to show moderate rather than high interdisciplinarity, suggesting the two dimensions are not strongly aligned within Ingenio's portfolio.

BENCHMARK

How does Ingenio compare to benchmark organisations in terms of output and thematic profile?

In terms of publication volume, Ingenio (582 publications) ranks second in the group after SPRU (917), with output comparable to CIRCLE (508), CWTS (456) and MIOIR (466). The benchmark organisations share a broadly similar thematic orientation, with Bibliometric Analysis, Knowledge Management, Entrepreneurship, and Sustainability Transitions representing the common core across all institutions. Within this shared landscape, Ingenio shows a relatively balanced distribution across multiple topics, while other institutions tend to concentrate more heavily in a single area. Several of Ingenio's active research topics, including Income Inequality, Multi-Criteria Decision Making, and Environmental Economics, are relatively distinctive within the group, with benchmark institutions devoting little or no research effort to these areas.

How does Ingenio compare in terms of citation impact and societal visibility?

Ingenio's citation impact is the lowest among the benchmark institutions. With an MNCS of 1.86 and 20% of publications in the top 10% most cited, it performs well above the world average but considerably below peers such as CWTS (MNCS 3.65) and SPRU (MNCS 2.96). The journal-level indicator follows a similar pattern, with only LISIS scoring lower. On societal visibility, Ingenio's scores for both news coverage and policy relevance are among the lowest in the group, suggesting that its research portfolio is concentrated in areas with relatively limited media and policy reach compared to most benchmark institutions. Ingenio's share of internationally collaborative publications (55%) is in line with CWTS and MIOIR but below CIRCLE and SPRU (both 72%).