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The economic value of the R&D intangible asset

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intensity and the concentration of the industry. Differences in the persistence of earnings are related to the concentration ratio. Finally, differences in the estimated economic value of the R&D asset are associated with the profitability of the company as measured by its return on assets. We further compare the associations between the three different estimates of the R&D asset and subsequent stock returns, as well as the contemporaneous difference between the market and book value of companies. Results indicate that the time-series estimates of the R&D asset show stronger associations with both variables, followed by the intra-industry and the cross-industry cross-sectional estimates. Overall, our results provide evidence that market participants behave as if R&D expenditures have significant future economic benefits to the firm, and show that the cross-sectional and time-series approaches followed when assessing its economic value provide significantly different estimates.

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Notes

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cycle of the firm. However, any non-constant series can be converted into a constant series as shown by certainty equivalent discount rates in finance.

⁴We thank an anonymous reviewer for drawing our attention to capital expenditures besides drilling expenses.

⁵The model in this paper assumes a world without taxes, just like the Ohlson ([1995](#)) model.

⁶In a prior version of this paper, we repeated the analysis with quarterly data. Parameter estimates and further analyses were very similar to those reported for the annual results.

⁷We also used market values three months after the fiscal year-end with very similar results to those reported in the text.

⁸One must bear in mind that the companies in Panel C are not representative of the entire Compustat population; they are selected to the sample if they disclose R&D expenditures for at least ten years between 1985 and 2001. Thus, R&D is likely to be an important concern for these firms which have also survived for a long time. Our sample selection criteria may have different implications for size and growth opportunities in these companies than in the rest of the population.

⁹A note based on These firms more relevant value an necessarily series model. litures, and et and book es model.



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Linking R&D Expenditures to Firm Value



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