# **Management Behaviour and Market Response**

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### **ABSTRACT**

We study the relationship between management behaviour and the subsequent market response in the German IPO market. When applying two forms for earnings management, issuers that overperform in the long run manage earnings less aggressively. Over shorter measurement horizons, however, the performance is sensitive to the starting date of the measurement period. The market takes a considerable time to respond to the fundamental message conveyed by management behaviour towards earnings management at the time of the IPO. Within the first four months, IPO returns are essentially driven by factors other than fundamentals. This sheds light on the dynamics of IPO performance and the efficiency of the IPO aftermarket.

A RECENT LINE OF EMPIRICAL RESEARCH on Initial Public Offerings (IPOs) links the conventional measurement of stock returns with accounting information, aimed at providing more insights into the phenomena associated with IPOs and the decision for going public. Using a sample of 1,649 US IPOs issued between 1980 and 1992, Theo, Welch and Wong (1998) document the effect of the choice of accounting method towards earnings management during the IPO year on aftermarket stock price performance. They find that IPO issuers that use discretionary current accruals aggressively during the IPO year have a three-year aftermarket stock return of approximately 20 percent less than IPO issuers who manage their earnings more conservatively during this time.

One of the important implications of this study is that the market does respond to earnings management behaviour which signals fundamental information about the IPO firms. This result, however, draws heavily on the fact that three-year aftermarket performance is measured starting from a substantial period of time after the IPO date. This measurement procedure leaves open the question of when the market starts to respond to fundamental information. The measuring strategy should not matter if the market is efficient as thought. However, if the market is not perfectly efficient, then the market learning process is an important issue to both economists and practitioners. It

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<sup>&</sup>lt;sup>1</sup> Teoh, Welch and Wong (1998) measure the stock performance from three to six months after the end of the first fiscal year, that is itself several months after the IPO date (an average six months in the German market, for example).

might well be true that the market responds earlier than the time the previous literature has implied.

It is well known that IPOs perform poorly in the long-run, but outperform the market in the short-run (e.g., Stoll and Curley (1970), Ritter (1991), Schuster (1996)). This perplexing evidence might indicate that the IPO market is not largely determined by fundamental information of IPO firms in the short-run. In another paper, using a sample of 489 US IPOs between 1974 and 1984, Chaney and Lewis (1998) study the relationship between IPO aftermarket performance and yet another form of earnings management: income smoothing. They find that firms that report earnings with less variability relative to cash earned from operations perform better than other firms. Chaney and Lewis (1998) measure the stock performance from the IPO date, but their horizon is five years. Since income smoothing is an ex-post measurement, a long measurement horizon is very likely to bury the time characteristic of a market learning process. The result therefore gives little clue to the question of when the market responds.

The short-run overperformance of IPO stocks has drawn increasing attention in the recent literature. Several papers have tried to build-up theoretical models to explain this phenomenon. Scheinkman and Xiong (2002) derive an equilibrium model of bubbles where overconfidence and differences of beliefs can push the stock price above its fundamentals. In another recent paper, Duffie, Gârleanu and Pederson (2002) present a model in which short-selling constraints can drive the IPO stock price to an excessively high level before it declines. These models claim that the IPO market is at least partially determined by factors such as divergence of opinion (Miller (1977)), overconfidence or other institutional arrangements unique to the IPO market, such as stabilization, the "quiet period" or lock-up rules. Obviously, none of them is fundamental information about IPO firms.

In this paper, we study a set of 126 companies going public between 1988 and 1997 in the German market, with the aim to broaden our understanding of several unexplored issues related to IPOs. Using the same framework of Teoh, Welch and Wong (1998) and Chaney and Lewis (1998), we examine the relationship between the management behaviour towards earnings management and aftermarket performance in the German IPO market. By applying a similar measurement specification, we test whether the relationship between management behaviour, proxied by the aggressiveness of using discretionary current accruals and income smoothing, and the aftermarket IPO performance identified in the US market, also holds in one other major IPO market. We then deviate from this benchmark measuring specification to test whether the IPO market is informationally efficient in the sense that management behaviour can be efficiently inferred by the market. We also go beyond prior work to further examine the relationship between the two forms of strategic behaviour towards earnings management, and test how the market responds to their interaction. Finally, we combine the typical empirical IPO methodology of Ritter (1991) and the framework of discretionary current accruals and income smoothing to examine the driving sources of the dynamics of aftermarket IPO performance.

Our major findings include the following:

(1) Managers of IPO firms tend to use discretionary current accruals to buoy up earnings during the IPO year and, to some extent, manage the firms' income. The long-run performance of German IPOs is related to such earnings-management behaviour. Firms that use discretionary current accruals more conservatively during the IPO year and firms that smooth their reported

- income more, outperform their counterparts in the long-run. These results are generally consistent with US evidence.
- (2) The two commonly identified earnings management strategies in IPOs are found to be not deterministic, yet complementary. In the long-run, firms that use discretionary current accruals during IPO years more conservatively also tend to smooth their reported income more. Firms undertaking both strategies outperform the market and IPOs that only apply any one of the two strategies.
- (3) The relationship between IPO aftermarket performance and strategic earningsreporting behaviour documented in the previous literature is sensitive to both
  the measurement horizon and the starting date. Ironically, we find that firms
  managing their earnings more opportunistically perform better than those
  managing their earnings more conservatively, when performance is measured
  from a date closer to the IPO and also when it is measured over shorter
  horizons.
- (4) The market takes a significant period of time to incorporate fundamentals into IPO prices. During this period, fundamental information about the IPO has weak explanatory power for long-run performance and the IPO market is dominated by other non-fundamental "noise". After a period of learning, the market starts to respond and the power of fundamentals to explain long-run IPO returns increases substantially.

The structure of the paper is as follows. Section I describes the data and sample characteristics. In Section II, we measure Management Behaviour with Discretionary Current Accruals (DCA). Section III deals with the measurement of Management Behaviour with Income Smoothing (IS). A comparative analysis of the two methods of earnings management is provided in Section IV. In Section V, we study the dynamics of the explanatory power of fundamentals related to aftermarket performance. Section VI concludes the paper with a summary and a discussion of the findings.

### I. Market Background and Data

### A. Market Background

During the past decade, German Financial Markets have gone through some radical developments. One of the fundamental features of these developments has been the increasing tendency of companies towards going public. At the end of 2001, more than 1,000 German companies were listed on the Deutsche Börse AG or on one of the regional stock exchanges, double the number from the beginning of 1988, the start of our sample period. While this number seems to be small compared to worldwide figures, it indicates the structural shift towards an equity culture in Continental Europe in general and Germany in particular.

This structural shift has been enforced by developments such as the initial success of the much publicized flotation of Deutsche Telecom AG, the country's former telecommunications monopoly, in November 1996. By the end of 2000, 12.33 million people – or 19.3 percent of the adult population in Germany – owned shares, 50 percent more than the previous year and double the level at the end of 1997, a change unprecedented in Germany's post-war financial history.<sup>2</sup> During this period, the

<sup>&</sup>lt;sup>2</sup> Source: Financial Times. Glagau (1876) documents evidence of a flurry of IPO activity on the Berlin Stock Exchange between 1871 and 1875 which indeed has some strikingly similar features to the IPO wave in the late 1990's on the Neuer Markt, the market segment for growth companies set up in 1997.

German IPO market has also developed as one of the fundamental pillars of Continental European IPO activity. For our sample period between 1988 and 1997, for example, German IPO activity accounted, on average, for more than 25 percent of total IPO activity in Continental Europe based on number, funds raised and market capitalization.

### B. Data

Our original sample consists of 156 companies from a total of 162 companies going public between 1988 and 1997 on the German domestic market, meeting the following criteria: (1) an offer price of Deutsche Mark (DM) 5.00 per share or more; (2) a market capitalization, measured in terms of end-1997 purchasing power, of DM 5.0 million or more; (3) the offering being unseasoned and involving common and/or preferred stock; and (4) the company being listed either on the Official Market (Amtlicher Handel), the Official Parallel Market (Geregelter Markt) or the New Market (Neuer Markt). We exclude foreign listings, investment companies, companies that changed the market segment and Real Estate Investment Trusts (REITs).<sup>3</sup>

In addition to these criteria, we must also have a minimum of one year pre-IPO and four years post-IPO accounting and stock price data available. After excluding IPOs from the Financial Sector (12), Privatization Issues (1) and IPOs with no reliable pre-IPO accounting information (17), the original sample falls to 126 companies for which we have a complete set of accounting and stock price data available. The total sample of companies represents around 88 percent of all IPOs in the respective market segments going public in Germany between 1988 and 1997. An interesting feature of our data is that it does not suffer from survivorship bias. Accounting for survivorship is a frequent issue in US studies. This has to do with the large number of mergers, acquisitions, takeovers and bankruptcies in the US market. Moreover, the delisting rules are clearly set out in the US regulatory framework. Until recently, this has not been the case in Germany. All the IPOs from the original sample were still listed after their fifth-year anniversary on the stock market. We therefore conclude that our sample is highly representative of the German IPO market during the sample period.

Due to a lack of accounting data spanning over a reasonably long period of time, this study does not include IPOs issued between 1998 and 2000. For the evaluation of earnings management, we use the full version (Vollbilanz) of balance sheets and income statements (inflation-adjusted) available from Hoppenstedt Verlag, a provider of financial data. Other information such as year of foundation or market sector was taken from the yearly issues of Hoppenstedt's Saling Aktienführer. To evaluate accounting numbers, we use consolidated financial statements, when available. Consolidated financial statements (Weltbilanz) are not the basis for either taxation or profit distribution. However, Financial Analysts draw heavily upon information contained in consolidated statements because they capture a more complete picture of, for example, the operating activities of companies with foreign subsidiaries. The full set of consolidated statements is available for 58 percent of the companies in our study. For the rest, we extract the accounting information from parent company accounts

<sup>&</sup>lt;sup>3</sup> We account for issues on the Frankfurt stock exchange and all regional stock exchanges. During the sample period, the share of the Frankfurt Stock Exchange, in terms of total German turnover in equity trading, has risen from 52 percent to 85 percent, underlying the increasing significance of the exchange. (Source: Deutsche Börse AG). We exclude offerings on the Over-the-Counter market (Freiverkehr).

<sup>&</sup>lt;sup>4</sup> A Specimen Balance Sheet and Profit and Loss Account and details on the calculation of the DCA and IS coefficients are shown in Appendix, Table AI and AII.

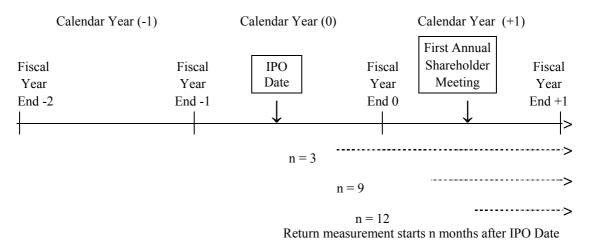


Figure 1. Time line

(Muttergesellschaft).<sup>5</sup> The stock price data and GDP deflators were taken from Datastream and our own IPO database. We use the Dow Jones STOXX global sector classification standard for market sector classification.

In Figure 1, we illustrate our timing convention. The fiscal year in which the IPO occurs is Year 0 and includes both pre- and post-IPO information. Fiscal year –1 ends before the IPO. The large majority of German companies in our sample end the fiscal year with the calendar year. Our initial screening of IPOs is based on the company characteristics around the IPO date. It is important to note that, on average, German IPOs went public towards the middle of the calendar year. As illustrated in Table I, 65 percent of the companies in the sample conducted their IPO between May and October.

Because one of our main goals is to shed some light on the relationship between management behaviour and market response, we measure returns over 36 months. In order to compare our findings with the literature, we chose our benchmark starting date as nine months after the IPO. To study the dynamics in the relationship, we then move our starting date away and closer to the IPO date. In this case, we measure long-run performance after three and twelve months following the IPO. Interestingly, our benchmark starting date corresponds closely to the First Annual Shareholder Meeting (Erste Allgemeine Aktionärsversammlung).

In this study, we report performance using equally-weighted buy-and-hold returns (BHRs) because it measures actual investors' experience. Aftermarket returns are measured as equally-weighted buy-and-hold returns, whereas one month is defined as a consecutive 21-day trading interval from the close of the first day of trading, using local trading days over the respective measurement interval. We adjust returns for movements in the value-weighted FAZ Index (Index der Frankfurter Allgemeinen Zeitung). This index is composed of the 100 most actively traded companies, adjusted for rights offerings and stock splits, and embraces about 75 percent of stock volume traded in German shares.

<sup>5</sup> Due to the lack of foreign subsidiaries, for example, parent company accounts are equivalent to consolidated accounts for most of the 42 percent of companies that report only parent company accounts.

<sup>&</sup>lt;sup>6</sup> Based on the observations taken from a sample of 785 Annual Shareholder Meetings in 2002, almost 75 percent of the meetings took place during May, June and July (Source: Schutzgemeinschaft der Kleinaktionäre e.V.)

<sup>&</sup>lt;sup>7</sup> For a complete discussion of BHRs versus Cumulative Average Returns (CARs), see e.g., Fama (1998), Barber and Lyon (1997), Brown and Warner (1980), Kothari and Warner (1997) and Loughran and Ritter (2000).

# Table I Sample Distribution and Firm Characteristics

The sample consists of 126 IPOs going public between 1988 and 1997. The initial return is defined as the percentage change from the offering price to the first-day closing price. Age is defined as the year of going public minus the year of foundation, with companies founded before 1901 assumed to be founded in 1901. Size is defined as the number of shares times the closing price at the first day of trading, including overalottment options, where applicable, and expressed in end-1997 prices. The retention ratio (in percent) is defined as one minus the size of the public float (in percent). Underpricing is defined as the percentage change from the final offering price to the closing price after the first day of trading. Privatizations (1) and Financial Companies are excluded (12). We use the Dow Jones STOXX global sector classification standard for market sector classification.

Panel A: Sample Distribution classified by Market Sect	Panel A:	Sample	Distribution	classified b	v Market Secto
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Market Sector	Sector Code	Frequency	Percentage
Basic Resources	1	3	2.4
Chemicals	2	3	2.4
Automobiles	3	8	6.3
Cyclical Goods & Services	4	27	21.4
Retail	6	9	7.1
Food & Beverages	7	5	4.0
Non-Cyclical Goods & Services	8	8	6.3
Healthcare	13	6	4.8
Construction	14	16	12.7
Industrial Goods & Services	15	24	19.0
Technology	16	14	11.1
Utilities	18	3	2.4
Total		126	100.0

Panel B: Sample Distribution classified by IPO Year and Calendar Month

Calendar Year	Frequency	Percentage	Calendar Month	Frequency	Percentage
1988	10	7.9	Jan.	3	2.4
1989	17	13.5	Feb.	5	4.0
1990	22	17.5	Mar.	4	3.2
1991	14	11.1	Apr.	6	4.8
1992	8	6.3	May	10	7.9
1993	6	4.8	Jun.	17	13.5
1994	8	6.3	Jul.	24	19.0
1995	16	12.7	Aug.	3	2.4
1996	6	4.8	Sep.	9	7.1
1997	19	15.1	Oct.	19	15.1
			Nov.	15	11.9
			Dec.	11	8.7
All firms	126	100.0	All firms	126	100.0

Panel C: Firm Characteristics

	Mean	Median
Age (years)	44.2	39.5
Underpricing (percent)	11.6	4.8
Retention Ratio (percent)	66.2	66.7
Debt/Equity Ratio (pre- IPO)	1.429	1.093
Debt/Equity Ratio (post- IPO)	0.779	0.643
Size (DM millions)	437.5	195.9

Table I provides some descriptive statistics for the 126 IPOs in our sample. Panel A indicates that there is some industry clustering in the sample of IPOs, with four sectors

representing almost 65 percent of the sample. It is not surprising to see so many construction-related companies in the sample, representing a large proportion of IPO activity following German unification and the subsequent surge in construction activity. Limiting this analysis to IPOs before 1998 eliminates the dominance in technologyrelated companies. Panel B documents considerable differences in issuing activity when characterizing the sample according to the calendar year of going public. In line with low IPO activity in other Continental European countries, there is also a considerably low level in issuing activity during the early 1990s in Germany. Apart from the reasons addressed earlier, the reversal of fortunes in the German IPO market after 1994 can also be linked to the success of some large offerings from companies such as Adidas AG, a sportswear company, and in particular the phenomenal long-run performance of SAP AG, an enterprise software company that recorded, and MLP AG, a financial services company, two IPOs in 1988.

In Panel C, reports number of characteristics for our IPO sample. The average IPOs is 44 years old before going public. IPOs retain 66 percent of their equity after going public and are underpriced by 11.69 percent, on average. The IPOs have an average market capitalization of DM437.5 million, consistent with the average IPO in Continental Europe during this period. As we have excluded privatizations, the size of Deutsche Telecom AG, a telecommunications company, does not influence the mean picture. As seen in Panel C, the IPO has a strong effect on the capital structure: The average debt-equity ratio declines from 1.429 pre-IPO to 0.779 post-IPO.

### II. Market Response to Management Behaviour around the IPO year

### A. Measuring Management Behaviour using Discretionary Current Accruals (DCA)

It is well known that there is high information asymmetry between issuers and public investors during the IPO process (Rao (1993)). Investors draw heavily on the financial statements published by issuers. For issuers, higher reported earnings lead to higher offering prices and hence higher IPO proceeds. This high information asymmetry provides issuers with both the incentive and the opportunity to window-dress their company accounts, in order to present better-looking financial statements for the IPO year. Furthermore, after the IPO, the firm also has an incentive to boost earnings at least for some time. The well-known reasons include inside interest (managers or entrepreneurs might want to sell part of personal holdings after the lock-up period) and outside pressure from underwriters or regulatory aspects.<sup>8</sup> Firms that wish to manipulate their earnings can achieve this goal by various means. One of the typical ways to do so is to use accruals. Accruals are changes in non-cash working capital before income taxes payable, less total depreciation expenses and can be decomposed into current accruals and long-term accruals. 10 Current accruals include short-term assets and liabilities from the day-to-day operations of the firm. Managers can deliberately increase current accruals in various ways, including advancing recognition of revenues with credit sales, delaying the recognition of expenses, decreasing bad-debt expenses or

Under Generally Accepted Accounting Principles, GAAP, the firms using accrual accounting systems are allowed to make adjustments when reporting earnings.

<sup>&</sup>lt;sup>8</sup> Theo, Welch and Wong (1998) provide a full discussion on the incentives of firms to boost their earnings before and after the IPO date.

<sup>&</sup>lt;sup>10</sup> This definition is adopted from Jones (1991) who tests in the context of earnings management during import relief investigations by the United States International Trade Commission (ITC).

decreasing inventory write-offs. Long-term accrual adjustment, which involves long-term assets, is, if at all, harder to achieve. We base our measures of managers' opportunistic behaviour around the IPO date on their discretionary use of current accruals because managers have greater flexibility and control over current accruals as those are less prone to changes in firm business conditions.

From the investors' perspective, it is difficult to distinguish the accrual adjustment that is aimed at boosting higher short-term share prices from that aimed at reconciling the mismatch of economic realities between accrual accounting events and timing of cash flows. Given the fact that some of the accrual adjustments are appropriate and necessary for certain business conditions, it is even harder to infer how much of the proportion of the accrual adjustment is discretionary. The justified use of accruals, however, is not something that is totally independent from the firm's business activity. As pointed out in Kaplan (1985), changes in some working capital accounts and, thereby, accruals depend on the business activity of the firm. All things being equal, the accrual of a firm should be a relatively stable function of the firm's economic activities. Indeed, this is the spirit of the widely used accrual decomposing expectations model of Jones (1991). As in Teoh, Welch and Wong (1998), we use a variation of Jones' model because the emphasis is to decompose current accruals into a non-discretionary and discretionary part. This variation assumes that the current accruals, other things being equal, are a function of the amount of the firm's business activities, which are proxied by sales. 12

The model specification is:

$$\frac{CA_{j,t}}{TA_{j,t-1}} = \alpha(\frac{1}{TA_{j,t-1}}) + \beta(\frac{\Delta Sales_{j,t}}{TA_{j,t-1}}) + industry\ dummies + \varepsilon_{j,t}$$
 (1)

where j is the IPO firm index (j=1,...,126). CA measures Current Accruals. TA is Total Assets.  $\Delta Sales$  is the change in sales from Year<sub>t-1</sub> to Year<sub>t</sub>. Industry dummies are aimed at capturing the different features of the Accrual-Sales relationship across different industries.<sup>13</sup>

In this paper, Current Accruals (CA) are calculated as:

CA = 
$$\Delta$$
accounts receivables +  $\Delta$ inventory +  $\Delta$ other current assets  
- [ $\Delta$ accounts payable +  $\Delta$ tax payable +  $\Delta$ other current liabilities] (2)

Given the current accruals of a firm i at year t, CA<sub>i,t</sub>, the firm's discretionary current accruals of that year is the difference between its actual current accruals and expected current accruals:

$$DCA_{i,t} = \frac{CA_{i,t}}{TA_{i,t-1}} - \left[ \hat{\alpha} \frac{1}{TA_{i,t-1}} + \hat{\beta} \frac{\Delta Sales_{i,t} - \Delta TR_{i,t}}{TA_{i,t-1}} \right]$$
(3)

where DCA is Discretionary Current Accruals,  $\Delta$ TR is the change in Trade Receivables. Trade receivables represent amounts on open account owed by customers for goods and

<sup>12</sup> The calculation of the DCA and IS coefficients is illustrated in the Appendix, Table AII.

<sup>&</sup>lt;sup>11</sup> See, for example, Guenther (1994) and Teoh, Welch and Wong (1998).

<sup>&</sup>lt;sup>13</sup> We also experimented with year dummies, not reported, to capture any cyclical and seasonal effects. The result is similar to the one that is reported.

services sold in the ordinary course of the business. We subtract the increase in trade receivables from changes in sales to allow for the possibility of credit sales manipulation by the issuer (for example, by allowing generous credit policies to obtain high sales prices ahead of the offering).  $\hat{\alpha}$  and  $\hat{\beta}$  are estimations of regression coefficients from equation (1) using a pooled estimation sample.<sup>14</sup>

Following Roosenboom, van der Goot and Mertens (2000), who study the relationship between methods of earnings management and aftermarket performance for a sample of 64 firms going public on the Amsterdam Exchanges between 1984 and 1994, we estimate model (1) using pooled time-series and cross-sectional data. Once estimated,  $\hat{\alpha}$  and  $\hat{\beta}$  can be used to estimate the discretionary current accruals.<sup>15</sup>

### B. Time-Series Properties Of Discretionary Current Accruals (DCA)

In Table II, we present evidence concerning the time-series and cross-sectional characteristics of Discretionary Current Accruals (DCA) for German IPOs. Panel A displays the distribution of DCA by year relative to the IPO year for the whole sample.

The results indicate a clear tendency towards earnings management by using DCA around the IPO year. For example, the average percentage of DCA in Year -1 amounts to minus nine percent of total of the previous years' assets. The DCA rises to positive seven percent during the year of going public and remains positive during the first fiscal year. The strongly positive and significant mean and median confirms that management "borrows" a part of accruals from other years, to potentially convey abnormally positive fundamental information about the company at the time of going public. The dynamics of the DCA component over time indicates that, on average, aggressive earnings management using DCA during the IPO year is only a short-run phenomenon because companies have to make up for the advance borrowing of earnings at the long-run cost of their current accruals. This is manifested in a negative DCA from Year 2 of going public to the end of the measurement period. The results in Panel A are remarkably similar to the findings reported in Theo, Welch and Wong (1998) for US IPOs and Roosenboom, van der Goot and Mertens (2000) for IPOs in the Dutch market.

In Panel B, we rank the companies into quartiles depending on the aggressiveness of using DCA during the IPO year. Here, we can distinguish between companies that manage their earnings most conservatively around the IPO year, summarized in Quartile 1 (Q1), and companies that manage their earnings most aggressively, summarized in Quartile 4 (Q4). Panel B verifies our earlier results that show a wide variation in the opportunistic behaviour towards earnings management via DCA during the IPO year. For example, while the average DCA for the most conservative companies (Q1) deviates negative 27 percent from its mean during the IPO year, the deviation for the most aggressive group (Q4) is positive 43 percent. Panel B also explores the dynamics of DCA in more detail. While the most conservative companies manage their earnings more aggressively following the IPO, the most aggressive earnings managers have to life up to reality and apply a much more conservative use of DCA in later years.

<sup>15</sup> By using the pooled data, we have 1,170 firm-year observations in our estimation sample. We did not exclude observations for the year that firms conducted the IPO, from the sample. We experimented without IPO year observations and find that the results do not change qualitatively.

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<sup>&</sup>lt;sup>14</sup> This is similar to Teoh, Welch and Wong (1998) who also subtract the increase in Trade Receivables from changes in Sales to allow for the possibility of Credit Sales. Their results are robust to omitting this adjustment. Teoh, Wong and Rao (1998) discuss the robustness of this valuation method relative to other measures.

### Table II Time Series and Cross-Sectional Characteristics of Discretionary Current Accruals (DCA)

The sample consists of 126 German IPOs going public during 1988 and 1997, excluding Privatizations (1) and Financial Companies (12). Panel A reports the distribution of Discretionary Current Accruals (DCA) by Year relative to IPO date for the sample as a whole from Year –1 to Year 4 of going public. In Panel B, observations are divided into Quartiles ranked from the most conservative (Quartile 4) to the most conservative (Quartile 1) earnings manager. Year 0 is the IPO year.

Panel A: Distribution of	of Discretionar	y Current Accruals b	y Year Relative to	IPO date,	Total Sample
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		Year -1	Year 0	Year 1	Year 2	Year 3	Year 4
	Mean	-0.09	0.07	0.06	-0.03	-0.01	0.00
33.71 1	p-value	0.01	0.02	0.33	0.12	0.63	0.92
Whole	Median	-0.09	0.05	0.00	0.00	-0.01	-0.01
Sample	z-value	0.00	0.00	0.46	0.32	0.25	0.49
	All firms	82	126	126	126	124	103

Panel B: Distribution of Discretionary Current Accruals by Year Relative to IPO date, split in Quartiles

		Year -1	Year 0	Year 1	Year 2	Year 3	Year 4
	Mean	-0.17	-0.27	0.01	-0.06	0.02	-0.04
0	p-value	0.00	0.00	0.83	0.08	0.40	0.16
Quartile	Median	-0.17	-0.20	0.05	-0.05	-0.02	-0.06
1	z-value	0.01	0.00	0.15	0.09	0.98	0.11
	All firms	16	31	31	31	31	29
	Mean	-0.08	-0.01	-0.05	-0.09	-0.04	0.00
Overtile	p-value	0.20	0.20	0.04	0.20	0.15	0.95
Quartile	Median	-0.08	-0.01	-0.04	0.00	-0.04	0.01
2	z-value	0.08	0.42	0.07	0.34	0.02	0.76
	All firms	23	31	31	31	31	27
	Mean	0.03	0.11	0.02	-0.01	-0.01	0.01
Owantila	p-value	0.71	0.00	0.42	0.84	0.76	0.70
Quartile	Median	0.03	0.12	0.02	0.00	-0.01	-0.01
3	z-value	0.70	0.00	0.32	0.79	0.82	0.70
	All firms	23	31	31	31	30	24
	Mean	-0.17	0.43	0.25	0.02	0.01	0.04
Overtile	p-value	0.03	0.00	0.29	0.43	0.81	0.22
Quartile	Median	-0.17	0.30	0.00	0.01	0.01	0.00
4	z-value	0.08	0.00	0.43	0.36	0.62	0.46
	All firms	20	33	33	33	32	23

# C. Discretionary Current Accruals (DCA) and IPO Stock Returns

In this section, we extend the analysis to include the relation between Discretionary Current Accruals (DCA) and the short- and long-run stock price performance of German IPOs. Because our focus is on the dynamics of aftermarket returns, we measure aftermarket performance starting after three, nine and twelve months following the first day of trading. This procedure marks a crucial difference in comparison to the existing US literature, in which the evaluation of investment performance starts three to six months after the publication of the first annual report. 16

<sup>16</sup> Starting performance measurement after three to six months following the publication of the First Annual Report roughly corresponds to our benchmark starting date of nine months.

# Table III IPO performance categorized by Issue Year DCA Quartiles

The sample consists of 126 German IPOs between 1988 and 1997. Returns are calculated as equally-weighted buy-and-hold returns. One month is defined as a consecutive 21-day trading interval using the local trading calendar. Returns are reported separately as raw returns and returns adjusted by the broad-based value-weighted FAZ Index. The raw and market-adjusted buy-and-hold return is calculated after three, nine and twelve months following the IPO. Difference (Diff.) refers to the percentage change between the most aggressive earnings manager (Q4) and the most conservative earnings manager (Q1) in terms of DCA. Associated test statistics for Diff. refer to mean difference tests.

					Panel A	: Measur	ement per	iod star	ts three i	nonths a	fter the	IPO date						
			Year 1 (	one year	)			Ŋ	Year 2 (t	wo years	s)			Y	ear 3 (th	ree year	s)	
Return	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.
Raw returns	0.4269	0.1245	-0.0318	0.3671	1.1978	1.0733	1.0428	0.3541	-0.0632	0.4786	3.2587	2.9047	0.1836	0.4358	-0.1457	0.2963	0.1503	-0.2855
p-value	0.2001	0.1019	0.6330	0.0177	0.3482	0.4124	0.2403	0.1003	0.5032	0.0209	0.3408	0.4077	0.0815	0.0656	0.1658	0.0497	0.6078	0.4456
Adjusted returns	0.3561	0.0519	-0.0765	0.2727	1.1265	1.0746	0.8121	0.1409	-0.2812	0.1932	3.0510	2.9101	-0.1771	0.1082	-0.4654	-0.1976	-0.1550	-0.2632
p-value	0.2835	0.4618	0.1959	0.0656	0.3765	0.4110	0.3586	0.4736	0.0047	0.3072	0.3708	0.4055	0.0959	0.6407	0.0002	0.1831	0.5995	0.4851
					Panel I	B: Measu	rement pe	riod star	ts nine n	nonths a	fter the	IPO date						
			Year 1 (	one year	)			Ŋ	Year 2 (t	wo years	s)			Υ	ear 3 (th	ree year	s)	
Return	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.
Raw returns	0.0527	0.1175	-0.0305	0.1379	-0.0098	-0.1272	0.1047	0.2991	-0.1470	0.2509	0.0213	-0.2777	-0.1010	0.1287	-0.1748	-0.0378	-0.3070	-0.4357
p-value	0.2372	0.0591	0.6241	0.0491	0.9427	0.4030	0.1532	0.0893	0.0913	0.0651	0.9002	0.2515	0.0280	0.2745	0.0310	0.6625	0.0000	0.0014
Adjusted returns	-0.0574	-0.0316	-0.1264	0.0127	-0.0828	-0.0511	-0.1465	0.0523	-0.4016	-0.0846	-0.1518	-0.2041	-0.4579	-0.2040	-0.5658	-0.5237	-0.5332	-0.3292
p-value	0.2032	0.5930	0.0502	0.8332	0.5645	0.7463	0.0454	0.7604	0.0001	0.5076	0.3810	0.4009	0.0000	0.1808	0.0000	0.0000	0.0000	0.0550
					Panel C	: Measur	ement per	iod start	s twelve	months	after the	IPO date						
			Year 1 (	one year			1		Year 2 (t		•			Y	ear 3 (th	ree year	s)	
Return	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.
Raw returns	0.0584	0.1025	-0.0014	0.1566	-0.0192	-0.1217	0.0550	0.2672	-0.1329	0.1458	-0.0532	-0.3204	-0.1130	0.0801	-0.1641	-0.0777	-0.2797	-0.3597
p-value	0.1389	0.1338	0.9820	0.0391	0.8533	0.3310	0.3743	0.1253	0.1314	0.1854	0.6289	0.1125	0.0192	0.5350	0.0319	0.4018	0.0006	0.0158
Adjusted returns	-0.0713	-0.0209	-0.1361	-0.0083	-0.1171	-0.0962	-0.2167	0.0311	-0.4110	-0.2317	-0.2528	-0.2839	-0.4732	-0.2755	-0.5859	-0.5094	-0.5192	-0.2437
p-value	0.0490	0.7462	0.0130	0.8892	0.2458	0.4242	0.0004	0.8539	0.0000	0.0264	0.0284	0.1565	0.0000	0.0954	0.0000	0.0000	0.0000	0.1731

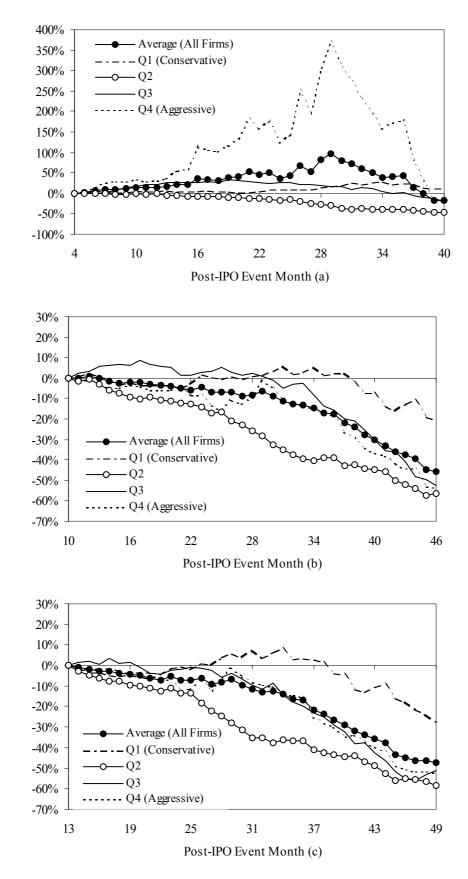
In Table III, we report the adjusted and unadjusted buy-and-hold performance of German IPOs, categorized by DCA quartiles and calculated across various measurement periods and different starting dates. The results do confirm evidence that German IPOs issued during the sample period have underperformed, on average, in the long-run. When measured over three years, this underperformance is statistically and economically significant. For example, when viewing our return window after nine months of trading, the sample of 126 German IPOs underperformed the FAZ Index by 45.79 percent. When looking at shorter measurement horizons, however, the underperformance falls substantially to 14.54 percent over two years and 5.74 percent when measured over one year. Table III also shows that the magnitude of IPO aftermarket performance is not only sensitive to the length of the measurement period, but also to its starting date. Results in Panel A, B, and C indicate that the closer the starting point of the measurement period to the IPO date, the more favourable the longrun performance picture. The discrepancy is particularly large when calculating returns over short measurement horizons. For the sample as a whole, the two-year marketadjusted performance is positive 81.21 percent when measured after three months of trading and negative 21.67 percent when the two-year measurement begins after twelve months of trading.

Apart from the results obtained for the sample as whole, we also document aftermarket performance when categorizing the sample by DCA Quartile. This allows us to take a closer look at the cross-section of earnings management behaviour and market response. When return measurement starts after nine or twelve months following the IPO, companies that are less opportunistic towards earnings management during the IPO year outperform their counterparts over three years. When measuring three year returns starting after nine and twelve month of trading, for example, the market-adjusted return difference between the most conservative (Q1) and most aggressive (Q4) groups is 24.37 percent and 32.92 percent, respectively. When applying these starting times, this difference also generally applies when looking at shorter return horizons. Companies that manage earnings more conservatively during the IPO year consistently outperform their more aggressive counterparts. The longer the measurement horizon, the larger and more significant is this difference. When measuring from the benchmark starting date and afterwards, the results clearly indicate that the market identifies earnings management behaviour.

However, when measuring performance after month three following the IPO, the one-year and two-year return picture changes dramatically. The results are displayed in Panel A of Table III. The most aggressive managers substantially outperform their conservative counterparts. The difference of the market-adjusted return between the most aggressive (Q4) and the most conservative group (Q1) amounts to 107.46 percent over one year and 291.01 percent over two years. One reason for this discrepancy is that the more opportunistic managers in the IPO year tend to be the more aggressive managers in the year following the IPO. When measuring returns over three-years starting after three month of trading, however, this "wrong" relationship is corrected.<sup>17</sup> The result is plotted in Figure 2.

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<sup>&</sup>lt;sup>17</sup> The company with the largest price increase was EM.TV AG, a Media company, which recorded a DCA coefficient of 0.8962 and a three-year market-adjusted buy-and-hold return of positive 817.78 percent when measured after three months following the IPO, negative 63.56 percent when measured after nine month and negative 77.37 percent after twelve months after the IPO.



**Figure 2. Market-adjusted buy-and-hold returns of DCA Quartiles (%).** Returns are measured over 36 months with measurement starting after three, nine and twelve months post-IPO. Our proxy for earnings management is the firm's use of discretionary accruals (DCA). Firms are divided into quartiles based on how aggressively they manage earnings during the IPO year.

# III. Market Response to Income Reporting Strategies

### A. Measuring Management Behaviour with Income Smoothing (IS)

In contrast to firms using accruals to boost earnings in the short-term, firms might want to smooth their income to signal the firm's long-term strategy. As in Chaney and Lewis (1998), smoothing income is a long-term strategy and, in doing so, managers communicate the firm's "permanent earnings", a strategy which enhances investors' current and future perception of a firm. It is believed that firms with good future prospects will be able to smooth their income more effectively than firms that use accruals aggressively for window dressing, as discretionary accruals must reverse in the future. Thus, whether income is smoothed can be viewed as a management strategy that conveys fundamental information of a firm.

In this paper, the measure of income smoothing is the same as in Roosenboom, van Goot and Mertens (2000). The income smoothing (IS) coefficient is defined as the ratio of the variance in operating cash flow changes to variance of operating income changes:

$$IS_i = \frac{Var(\Delta CF_i)}{Var(\Delta OI_i)} \tag{4}$$

where  $\Delta CF_i$  is defined as changes in operating cash flow for firm i, and  $\Delta OI_i$  is defined as the changes in operating income for firm i.

The income smoothing (IS) coefficient defined in (4) compares the relative variability of changes in operating cash flow with the relative variability of changes in operating income. Since the operating cash flow is essentially not manageable, a successful income smoothing strategy will lead to a smaller variability in the changes of operating income (OI) and hence a larger coefficient for income smoothing. In other words, an income smoothing (IS) coefficient greater than one points to a company that tends to smooth its operating income relative to its operating cash flows. The drawback of this measurement is that we can only measure a firm's income smoothing ex-post.

In this study, we use five years of operating data to measure each IPOs income smoothing coefficient. In Table IV, we present some descriptive statistics for our sample of German IPOs. For the sample as a whole, the mean income smoothing

Table IV
Distribution of the Income Smoothing (IS) coefficient

For the analysis of Income Smoothing (IS), the sample is reduced to 124 companies because of missing information on operating cash flows for two companies (Refugium AG and Pro Sieben AG). We use the Mean difference test and Wilcoxon signed test to test for mean difference and the significance of the median.

	Distribution	Distribution of the proxy for Income Smoothing categorized by IS Quartiles							
	ALL	Q1	Q2	Q3	Q4	Diff.	p.value		
Mean	1.18	0.80	0.98	1.13	1.81	-1.01	0.0000		
p-value	0.0003								
Median	1.05	0.84	0.98	1.13	1.54	-0.70	0.0000		
z-value	0.0008								
Max	4.91	0.91	1.05	1.22	4.91				
Min	0.17	0.17	0.91	1.05	1.22				
N	124	31	31	31	31				

coefficient is 1.18 and the median value is 1.05. Both values are significant at conventional levels. This indicates that, on average, German IPOs engage in earnings management by using income smoothing. Table IV also documents the distribution of the proxy for Income Smoothing by dividing the total sample into four equally-sized groups. The results reveal large and significant differences in the IS coefficient between conservative earnings managers who smooth the most (Q4), and aggressive earnings managers who smooth the least (Q1).

### B. Income Smoothing (IS) and IPO Stock Returns

In Table V, we present the main findings. The results are reported both for the sample as a whole and for the individual Quartiles. Similarly, we measure performance with a benchmark starting date of nine months after the IPO. We also deviate from this benchmark starting date in order to study the dynamics of the market response. The result for measuring starting time of three-month, nine-month and twelve-month performance dynamics are presented in Panel A, B and C of Table V.

The results underline some earlier observations that the degree of aggressiveness in earnings management is related to the stock price performance. Over the long-run, companies with a higher IS coefficient tend to outperform their most aggressive counterpart regardless of the starting date of the measurement period. Based on marketadjusted three-year stock returns, the difference is 57.47 percent, 30.75 percent and 28.01 percent when measured from month three, nine and twelve following the IPO, respectively. The difference is consistently large and significant when measuring returns over two or three years after the start of the measurement periods. When measured over a one-year horizon, however, the difference in performance between companies that apply income smoothing most and those that do least, is not significant. This finding confirms our earlier result that the market is not able to respond to earnings management choices effectively in the short-run. However, the result here is less significant than the one when we used DCA. In Figure 3, the dynamics of aftermarket performance are shown graphically. Here, a similar picture to the one observed in Figure 2 emerges. The most conservative companies (Q4) display a significantly better performance than their more aggressive counterparts over the long-run. In the short-run, however, the differences are less clear. For example, in Graph (a) the second most aggressive group (Q2) outperforms others up until the medium-term.

Figure 3 underlines the importance of the month of seasoning when measuring aftermarket returns. Results reported from a date closer to the IPO make the distribution of returns more susceptible to the effect of other factors, such as extreme returns. It should be noted that the magnitude of long-run returns in the most conservative group of income smoothers (Q4) is clearly different from the rest of the sample companies which, in turn, do not display a large divergence in performance among them.<sup>18</sup>

the positive aftermarket performance of a sample of 973 European IPOs issued between 1988 and 1998.

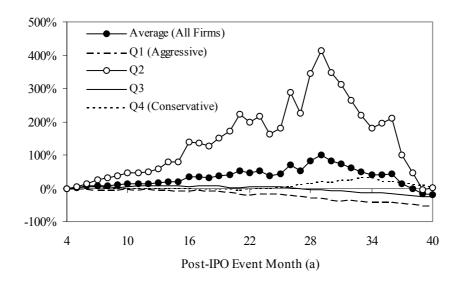
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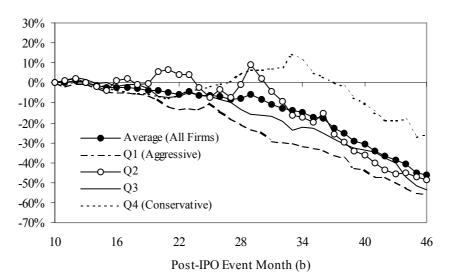
<sup>&</sup>lt;sup>18</sup> This notion is similar to Brav and Gompers (1997) who find that the widely acclaimed underperformance reported for US IPOs in Ritter (1991) is due to nonventure-backed IPOs, and that venture-backed IPOs, which make up 21.52 percent of the sample, do not significantly underperform. Schuster (2003) finds that New Economy stocks, that account for around 28 percent of the sample, drive

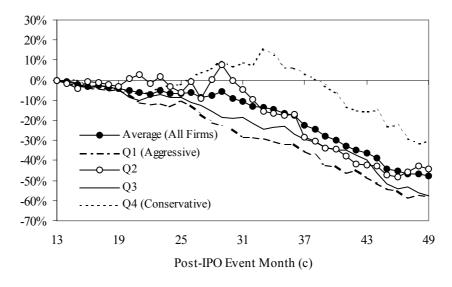
Table V IPO performance categorized by Issue Year IS Quartiles

The sample consists of 124 German IPOs between 1988 and 1997. Returns are calculated as equally-weighted buy-and-hold returns. One month is defined as a consecutive 21-day trading interval using the local trading calendar. Returns are reported separately as raw returns and returns adjusted by the broad-based value-weighted FAZ Index. The raw and market-adjusted buy-and-hold return is calculated after three, nine and twelve months following the IPO. Difference (Diff.) refers to the percentage change between the most aggressive earnings manager (Q1) and the most conservative earnings manager (Q4) in terms of IS. Associated test statistics for Diff. refer to mean difference tests.

					Panel A	: Measur	ement per	riod stari	ts three i	nonths a	ıfter the	IPO date						
			Year 1 (	one year)	)			7	ear 2 (t	wo years	s)			Ŋ	ear 3 (th	ree year	s)	
Return	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.
Raw returns	0.4210	-0.0392	1.4914	0.1399	0.0919	0.1311	1.0611	-0.0782	3.7122	0.1643	0.4462	0.5244	0.1768	-0.1948	0.3835	0.0751	0.4434	0.6382
p-value	0.2134	0.4185	0.2740	0.0873	0.2637	0.1672	0.2396	0.3897	0.3084	0.2285	0.0530	0.0320	0.0956	0.0244	0.2239	0.5476	0.0700	0.0132
Adjusted returns	0.3501	-0.0604	1.4021	0.0551	0.0035	0.0639	0.8319	-0.2759	3.4616	-0.0307	0.1727	0.4485	-0.1821	-0.5251	0.0048	-0.2579	0.0496	0.5747
p-value	0.2992	0.2564	0.3024	0.4645	0.9658	0.5089	0.3547	0.0069	0.3406	0.7905	0.4003	0.0494	0.0889	0.0001	0.9877	0.0508	0.8313	0.0288
					Panel I	B: Measu	rement pe	riod star	ts nine n	nonths a	fter the	IPO date						
			Year 1 (	one year)	)			Ŋ	ear 2 (t	wo years	s)			7	ear 3 (th	ree year	s)	
Return	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.
Raw returns	0.0571	-0.0762	0.1760	0.0767	0.0520	0.1282	0.1010	-0.1390	0.1388	0.0170	0.3870	0.5260	-0.0991	-0.2380	-0.1280	-0.0984	0.0682	0.3062
p-value	0.2067	0.0815	0.2506	0.2530	0.3826	0.0813	0.1691	0.0985	0.4301	0.8354	0.0597	0.0168	0.0310	0.0011	0.1467	0.3246	0.5183	0.0158
Adjusted returns	-0.0559	-0.1340	0.0406	-0.0693	-0.0610	0.0731	-0.1501	-0.3157	-0.1722	-0.2241	0.1114	0.4271	-0.4608	-0.5628	-0.4872	-0.5380	-0.2553	0.3075
p-value	0.2225	0.0133	0.7976	0.2535	0.2564	0.3227	0.0412	0.0012	0.3406	0.0123	0.5665	0.0480	0.0000	0.0000	0.0000	0.0005	0.0573	0.0564
					Panel C	: Measur	ement per	iod start.	s twelve	months o	after the	IPO date						
			Year 1 (	one year)			1			wo years	•			7	ear 3 (th	ree year	s)	
Return	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.	All	Q1	Q2	Q3	Q4	Diff.
Raw returns	0.0648	-0.0193	0.0978	0.0591	0.1215	0.1408	0.0477	-0.1322	0.0290	-0.0387	0.3326	0.4648	-0.1087	-0.1892	-0.1209	-0.1625	0.0379	0.2271
p-value	0.1033	0.7726	0.3785	0.3259	0.1054	0.1576	0.4346	0.1432	0.7694	0.6059	0.0804	0.0261	0.0247	0.0081	0.2196	0.1019	0.7460	0.0944
Adjusted returns	-0.0675	-0.1022	-0.0614	-0.0867	-0.0195	0.0827	-0.2250	-0.3548	-0.2832	-0.2934	0.0313	0.3861	-0.4752	-0.5820	-0.4404	-0.5762	-0.3020	0.2801
p-value				0.1138				0.0000					0.0000	0.0000	0.0002	0.0001	0.0444	0.0922







**Figure 3. Market-adjusted buy-and-hold returns of IS Quartiles (%).** Returns are measured over 36 months with measurement starting after three, nine and twelve months post-IPO. Our proxy for earnings management is the firm's use of income smoothing (IS). Firms are divided into Quartiles based on how aggressively they manage earnings during the IPO year.

### IV. Comparative Analysis of Methods of Earnings Management

Thus far, we have investigated two widely cited forms of earnings management and the market response. While we have shown that the use of DCA is a predominantly short-term tool for opportunistic earnings managers, the nature of IS lies clearly in its ability to provide a framework for strategic long-run earnings management. In this section, we focus on the relation between these two forms, which thus far has been left unexplored in the literature. Based on our earlier results, we hypothesize a link between DCA and IS and design our research methodology accordingly.

In Panel A of Table V, we replicate the distribution of the DCA coefficients (in Quartiles) from Table II and calculate the IS coefficient of each DCA group. There is a tendency that companies, which manage their earnings least opportunistically in terms of DCA, also have the highest IS coefficient. For example, the most conservative group in terms of DCA recording a DCA of –0.27 also has the highest IS coefficient of 1.30. In Panel B, we replicate the distribution of our IS coefficient (in Quartiles) from Table IV and calculate the DCA of each IS group. Here, we find a similar tendency to the one reported above: companies with a higher income smoothing coefficient, that are also better stock market performers over the long-term, have a tendency to manage their earnings less opportunistically during the year of going public. In contrast, companies which have a low tendency to smooth their income are also likely to manage their earnings more aggressively. For example, the most aggressive group in terms of IS (Q1) recording a median IS coefficient of 0.84, has the highest median DCA of 0.12.

The results suggest that the two forms of earnings management are clearly not mutually exclusive. The column headed Diff. shows the difference in the coefficient between Q1 and Q4. The last column in Table VI reports the p-value of the mean

Table VI
Discretionary Current Accruals (DCA) versus Income Smoothing (IS)

In this table, we compare the two proxies for earnings management: Discretionary Current Accruals (DCA) and Income Smoothing (IS). We set the number of companies to 124, the sample size used when we measured the IS coefficient. In Panel A, companies are grouped by their DCA quartile. In Panel B, companies are grouped by their IS quartile. Diff. refers to the mean difference of Q1 and Q4. We use the Mean difference test and Wilcoxon signed test to test for mean difference and the significance of the median difference.

		Panel A	: DCA and	IS Grouped	by DCA in t	the IPO yea	r	
Proxy		All	Q1	Q2	Q3	Q4	Diff.	p-value
DCA	Mean	0.07	-0.27	-0.01	0.11	0.43	-0.70	0.0000
	Median	0.05	-0.20	-0.01	0.12	0.30	-0.50	0.0000
IS	Mean	1.18	1.30	1.16	1.11	1.15	0.15	0.3854
	Median	1.05	1.11	1.06	1.06	1.02	0.03	0.1440
	N	124	31	31	31	31		
			Panel B: I	DCA and IS	Grouped by	IS		
Proxy		All	Q1	Q2	Q3	Q4	Diff.	p-value
IS	Mean	1.18	0.80	0.98	1.13	1.81	-1.01	0.0000
	Median	1.05	0.84	0.98	1.13	1.54	-0.70	0.0000
DCA	Mean	0.07	0.11	0.03	0.08	0.05	0.06	0.3434
	Median	0.05	0.12	0.05	0.04	0.02	0.10	0.2503

Table VII IPO performance of companies in the DCA/IS intersection

Table VII presents the adjusted and unadjusted buy-and-hold performance of the Best DCA/IS (Panel A) and Worst DCA/IS intersection (Panel B). The sample consists of 124 German IPOs going public between 1988 and 1997. Aftermarket returns are calculated as equally-weighted returns whereas one month is defined as a consecutive 21-day trading period using the local trading calendar. Adjusted and Unadjusted mean and median returns are calculated from month three, nine and twelve following the IPO date. Returns are adjusted using the broad-based value-weighted FAZ Index as the benchmark.

Returns	3 months after IPO	9 months after IPO	12 Months after IPO
Raw returns	1.2981	0.4119	0.3760
Median	0.6616	0.3830	0.2780
Adjusted returns	0.8577	0.1900	0.1785
Median	0.2456	0.1856	0.0243
Number of IPOs	10	10	10

Panel B: Worst DCA/IS intersection						
Returns	3 months after IPO	9 months after IPO	12 Months after IPO			
Raw returns	-0.2241	-0.2641	-0.2013			
Median	-0.3524	-0.3797	-0.2972			
Adjusted returns	-0.4995	-0.3965	-0.4398			
Median	-0.3515	-0.4413	-0.3670			
Number of IPOs	9	9	9			

difference test of coefficients between Q1 and Q4. While there is a tendency for companies to apply various techniques for earnings management, either equally aggressively or conservatively, the lack of statistical significance for both the mean and median might suggest that the two strategies are not deterministic.

In Table VII, we analyse the impact of the interaction of these two forms of earnings management on the dynamics of aftermarket returns. In Panel A, we present evidence concerning the long-run performance of companies, which fall into the intersection of companies with the most conservative form of earnings management in terms of DCA (Q1) and IS (Q4). Panel B contains the result of those companies that fall into the intersection that applies the most aggressive behaviour towards earnings management in terms of DCA (Q4) and IS (Q1). This approach allows us to study whether companies that use both forms of earnings management most conservatively (Best DCA/Best IS Quartile) do in fact experience performance differences and vice versa.

Overall, the results do confirm our earlier observation that the magnitude of long-run performance is sensitive to the start of the measurement period. There is a strong indication that mean and median returns of companies falling into the intersection of Best DCA/Best IS outperform other companies, that do not fall into this intersection, by a considerable margin. This result extends to all starting dates of our measurement period. For example, when measuring performance following the ninth month of aftermarket trading, the ten companies which fell into the Best DCA/Best IS intersection returned a market-adjusted 19.00 percent, while in Table III, the best DCA group (Q1) only enjoyed a negative 20.40 percent three-year market-adjusted return. Similarly, in Table V, the best IS Group (Q4) recorded a negative 25.53 percent three-year market-adjusted return when measured after nine months of trading.

The results are less robust for the intersection of Worst DCA/Worst IS, which is generally in line with the returns of the worst DCA and worst IS Quartiles reported in

Tables III and V. <sup>19</sup> This is not surprising as 75 percent of the sample in both earnings management regimes produced similar long-run underperformance. It must be noted that, due to the small sample size, reported results must be treated with caution.

### V. Aftermarket Return Dynamics and Earnings Management

As documented throughout the paper, the dynamics of aftermarket performance are sensitive to the start of the period from which returns are measured. Starting the measurement period at a date closer to the date of going public has a dramatically different effect on the return dynamics than when measuring returns from a date further away from the IPO date. In this section, we combine the empirical methodology of Ritter (1991) with the framework for analysing DCA and IS, in order to disentangle the observations. We include the two major explanatory variables DCA and IS, which are proxies for the fundamentals of IPO firms, into the regression model described in Ritter (1991) where most of the explanatory variables have no accounting features.

We use market-adjusted three-year returns as the dependent variable and measure performance following month three, nine and twelve of trading. The explanatory variables are the DCA coefficient in the IPO year, the IS coefficient, a proxy for New Economy companies (NEW), the logarithm of market value (MV), the log of one plus age, the percentage of equity retained (ER) and the initial return.<sup>20</sup>

The generalised model specification is as follows:

$$R_i = \alpha + \beta_1 DCA_i + \beta_2 IS_i + \beta_3 NEW_i + \beta_4 Log(MV_i) + \beta_5 Log(1 + Age_i) + \beta_6 ER_i + \beta_7 IR_i + \varepsilon_i$$
 (5)

Table VIII reports the major results of a set of multivariate regression models (5). The results in Table VIII shed more light on our earlier observations about both the short- and long-run dynamics of IPO returns and the explanatory power of both proxies for earnings management. When measuring long-run returns in the three months after the IPO (Panel A), both proxies for earnings management have very little power to explain long-run returns. Including our accounting proxies for earnings management in the regression leads to just a marginal increase in explanatory power from 9.35 percent to 10.30 percent.<sup>21</sup> In this case, the New Economy proxy shows considerable statistical power. This confirms our conjecture made in the previous chapter that the positive long-run abnormal return performance measured from the first day of trading of a sample of 973 European IPOs issued between 1988 and 1998 is driven by firms in the New Economy sectors. The power of the two accounting proxies for earnings management that help to explain long-run returns, however, increases dramatically when long-run performance is measured after nine or twelve months of trading.

As shown in Panel B, not only does the inclusion of the DCA and IS increase the overall explanatory power of the regression model from 5.52 percent to 11.40 percent, but DCA and IS also become significant. This finding demonstrates that factors other than fundamentals drive IPO prices in the short-run. In an environment characterized by high levels of "divergence of opinion" (Miller (1977)), company characteristics such as

change the results qualitatively.

<sup>&</sup>lt;sup>19</sup> Three out of the nine companies in the Worst DCA/Worst IS intersection are companies associated with strong retail brands: Jil Sander AG, a fashion company; Leica Camera AG, a camera manufacturer; and Marbert AG, a cosmetics company.

<sup>&</sup>lt;sup>20</sup> New Economy firms represent Technology, Media, Telecommunications and Healthcare, respectively. <sup>21</sup> The  $R^2$ s reported in this study are unadjusted. We also checked adjusted  $R^2$ s and found that it does not

# Table VIII OLS Regression Results for the Aftermarket Performance

 $R_i = \alpha + \beta_1 DCA_i + \beta_2 IS_i + \beta_3 NEW_i + \beta_4 Log(MV_i) + \beta_5 Log(1+Age_i) + \beta_6 ER_i + \beta_7 IR_i + \epsilon_i.$   $R_i$  is the three-year market adjusted return, measured from the applicable measurement starting date.  $DCA_i$  is the DCA of company i at the year of the IPO.  $IS_i$  is the income smoothing coefficient of company i measured over the whole period.  $DCA_i$  and  $IS_i$  are proxies for earnings management. New Economy (NEW\_i) firms belong to market sectors 5,13,15,17 representing Technology, Media, Telecommunications and Healthcare, respectively, in the Dow Jones STOXX global sector classification scheme.  $Log(MV_i)$  is the Market Value of the Firm at the IPO date defined as the total number of shares

issued (including overalottment options) times the IPO price, measured in end-1997 purchasing power. Log(1+ Age<sub>i</sub>) is defined as the year of going public minus the year of foundation, with firms founded before 1901 assumed to be founded in 1901. EquityRetention<sub>i</sub> (ER) is defined as one minus the percentage of Equity offered based on the IPO date. IR<sub>i</sub> measures the Initial Returns of the IPO defined as the unadjusted percentage change between the IPO price and the first closing price; Standard Error (S.E) in parenthesis.

Panel A:	Coefficient	estimates	based or	starting n	neasurement	after three i	nonths of goin	g public
CI.	ê	ê	ê	ê	ô	ê	ô	$\mathbf{p}^2$

α	$\hat{\pmb{\beta}}_1$	$\hat{eta}_2$	$\hat{eta}_3$	$\hat{eta}_4$	$\hat{eta}_5$	$\hat{oldsymbol{eta}}_{6}$	$\hat{eta}_7$	$R^2$
-0.1893°	0.1063							0.0001
(0.1089)	(0.3267)							
-0.4390		0.2175						0.0100
(0.2541)		(0.1955)						
1.0700			$0.6855^{\rm b}$	-0.0694	-0.1304	0.6133	0.2072	0.0935
(05437)			(0.3076)	(0.1022)	(0.0942)	(0.5614)	(0.5059)	
0.7186	0.1125	0.2105	0.7043 <sup>b</sup>	-0.0649	-0.1234	0.5871	0.1938	0.103
(2.0156)	(0.3220)	(0.1922)	(0.3091)	(0.1033)	(0.0947)	(0.5636)	(0.5112)	

Panel B: Coefficient estimates based on starting measurement after nine months of going public

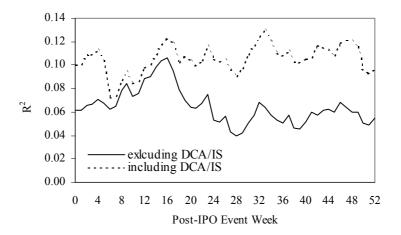
α	$\hat{eta}_1$	$\hat{eta}_2$	$\hat{eta}_3$	$\hat{eta}_4$	$\hat{eta}_5$	$\hat{eta}_6$	$\hat{eta}_7$	$R^2$
-0.4399 <sup>a</sup>	-0.3089 <sup>c</sup>							0.0244
(0.0589)	(0.1768)							
$-0.7220^{a}$		$0.2212^{b}$						0.0346
(0.1374)		(0.1057)						
0.0313			0.2588	-0.0331	-0.0165	0.1982	0.2924	0.0552
(1.0999)			(0.1719)	(0.0571)	(0.0526)	(0.3138)	(0.2828)	
-0.5570	$-0.3108^{c}$	$0.2120^{b}$	0.2639	-0.0146	-0.0144	0.1791	0.3601	0.1140
(1.0969)	(0.1752)	(0.1046)	(0.1682)	(0.0562)	(0.0515)	(0.3067)	(0.2782)	

Panel B: Coefficient estimates based on starting measurement after twelve months of going public

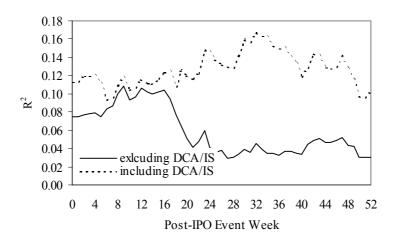
α	$\hat{oldsymbol{eta}}_1$	$\hat{eta}_2$	$\hat{oldsymbol{eta}}_3$	$\hat{eta}_4$	$\hat{oldsymbol{eta}}_5$	$\hat{eta}_6$	$\hat{eta}_7$	$R^2$
-0.4582 <sup>a</sup>	-0.2504							0.0161
(0.0590)	(0.1770)							
$-0.7139^{a}$		$0.2021^{b}$						0.0291
(0.1374)		(0.1057)						
0.3912			0.2191	-0.0484	-0.0011	0.0043	0.2708	0.0461
(1.1020)			(0.1723)	(0.0572)	(0.0527)	(0.3144)	(0.2833)	
-0.1271	-0.2405	$0.1962^{b}$	0.2253	-0.0328	0.0013	-0.0143	0.3244	0.0901
(1.1085)	(0.1771)	(0.1057)	(0.1700)	(0.0568)	(0.0521)	(0.3100)	(0.2811)	

a,b,c denote statistical significance at the 0.01, 0.05, and 0.10 levels, respectively, based on a simple t-test.

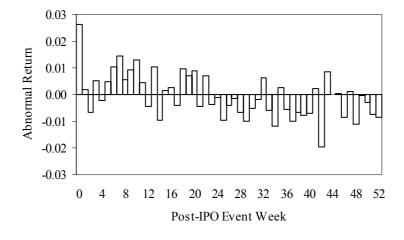
Panel A: Model Explanatory Power Dynamics (adjusted returns)



Panel B: Model Explanatory Power Dynamics (raw returns)



Panel C: Weekly Anormal Returns



**Figure 4. Model Explanatory Power Dynamics and Weekly Abnormal Returns.** In Panel A and B, we measure the power of the regression model (including DCA/IS and excluding DCA/IS) from Table VIII to explain adjusted and unadjusted 36-month buy-and-hold returns. Panel C measures the weekly abnormal return dynamics (FAZ Index adjusted) during the first year of trading.

age, initial return, free-float, size or economic sector), short-selling constraints (Duffie, Gârleanu and Pederson (2002) and Gecy, Musto and Reed (2001)), lock-up periods (Brav and Gompers (2002)), underwriter stabilization (Aggarwal (2000)) or the expiration of the "quiet period" (Bradley, Jordan and Ritter (2002)) may be the driving forces behind short-run IPO returns.

In Figure 4, we study the explanatory power dynamics of model (5) in more detail. The 36-months returns (both raw and adjusted) are measured starting from the first week to 52 weeks after the IPO date. The  $R^2$ s of the regression with and without the proxies for fundamentals (DCA and IS) are plotted in Panels A and B, respectively. Clearly, the  $R^2$ s of the model, with and without the variables explaining fundamentals, are almost the same for the first several months after the IPO date. Take, for example, the adjusted return (Panel A). The model explanatory power with and without fundamentals starts to diverge only four to five months after the IPO date. After that, the explanatory power of the typical IPO explaining variables (such as size, age, initial returns, economic sector) starts to decrease while the explanatory power of fundamentals starts to increase dramatically. Both of them remain relatively stable one or two months afterwards. This pattern also holds when the raw return is used (Panel B).<sup>22</sup> The substantially increased model explanatory power with DCA and IS after four to five months indicates that fundamentals start to play a bigger role in determining the long-run return of IPO stocks. After that time, the non-fundamental factors lessen their impact in determining IPO long-run performance.

We investigate this issue further by examining the actual short-term return dynamics of IPO stocks. The results are reported in Panel C of Figure 4. In Panel C, we document average weekly abnormal returns of IPO stocks. Clearly, during the first four to five months (the time that the fundamentals take to establish their role), the IPO stocks perform well relative to the market. After that, however, they start to underperform. When comparing the time when the fundamental factors start to play a bigger role with the time when the IPO stocks start to underperform, a clear picture emerges: in the short-run, IPO stocks outperform the market and their return dynamics are essentially driven by factors other than fundamentals. After some period of learning, fundamentals start to play a bigger role and IPOs start to underperform. This result casts light upon the reported anomaly documenting the significant short-run overperformance in IPOs in general and German IPOs in particular, as well as the sharp drop-off in performance thereafter.

### VI. Summary and Conclusion

This paper has analysed management behaviour towards earnings management and the dynamics of the subsequent market response. The analysis has been conducted through the evaluation of accounting information and stock prices of a large number of companies that chose to go public in Germany over the ten-year period between 1988 and 1997. We have defined two widely acknowledged forms of earnings management and have investigated some issues that have so far remained unexplained. To our knowledge, this is the first study that applies this concept to German IPOs, a market which has gained considerable international attention during the past decade.

For the sample of German IPOs, we provide evidence that the IPO event itself may give managers an incentive to opportunistically manage earnings so as to maximize IPO

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<sup>&</sup>lt;sup>22</sup> When the raw return is used, the market return is added to the right-hand side of model (5).

proceeds. We also find that the form of earnings management during the IPO year is indeed linked to the long-run aftermarket performance. Firms that perform best over the long-run manage earnings least opportunistically. This applies to the two methods of earnings management studied. We also find that two types of earnings management are not deterministic, yet complementary. The ten IPOs that fall into the intersection of companies with the lowest DCA and highest IS substantially outperform the rest of the sample and the market.

The outperformance of the less aggressive companies could be due to a variety of reasons such as varying risk premia, the empirical methodology or simply bad luck. To check for the robustness of our results, we exercised a set of robustness analyses. We found that the risk premium proxied by the standard deviation of monthly returns or age does not show significant difference between the more conservative and more aggressive earnings management groups. Since a broad set of the empirical literature (Clarkson and Thompson (1990), Ritter (1991), Chan and Lakonishok (1992), Keloharju (1993), Leleux and Muzyka (1998)) rejects the notion that beta can explain away the differences in return performance of IPO stocks, we believe that beta adjustments cannot account for the large performance discrepancies identified in this study. Moreover, using cumulative returns, another conventional method of returns measurement, we find that the qualitative nature of the results does not change.

This analysis has also been set up with the aim of shedding some light on the forces behind the return dynamics in aftermarket trading of IPOs. We find that the long-run performance is sensitive to the starting date of the measurement period. The explanatory power of both DCA and IS for long-run returns, proxies for fundamentals of IPO firms, increases dramatically when the performance is measured after some time of trading in the aftermarket (four to five months). This result indicates that investor sentiment, driven by institutional peculiarities in an IPO market typically characterised by high levels of "divergence of opinion" (such as the immediate IPO aftermarket), replaces fundamentals as the driving force behind the short-run price dynamics. It takes many months for the market to catch-up to the company fundamentals conveyed in the proxies for earnings management.

For academics and practitioners alike, the findings presented here have a number of repercussions: for academics, it matters when to start measuring performance. Delaying the start of the measurement period beyond the first four months is most likely going to improve the explanatory power of accounting information. Investors should not treat IPOs like any other firm that is being traded in the market, particularly during a firm's first year of trading because IPO returns, as shown in this analysis, are largely driven by factors other than fundamentals in the short-run. The message for firms is that there is always a trade-off between short-term gains and long-term losses. If a firm is concerned about its long-term perspective, it should not manage its earnings aggressively, because the market is going to catch up sooner or later.

The findings also provide a potential rational for investors to ignore IPO fundamentals in the short-run, because the extreme winner is likely to be found in those companies that manage earnings more aggressively. This indeed sheds light on the short-run aftermarket return dynamics of US IPOs during Internet bubble of 1999 and part of 2000, and on the even more extreme events that took place on the Neuer Markt and its subsequent fall.

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### **Table AI**

# **Specimen Balance Sheet and Profit and Loss Account**

For each individual German Initial Public Offerings (IPO), we collected the information for calculating the proxies for earnings management (the Discretionary Current Accrual (DCA) and Income Smoothing (IS) coefficients) from balance sheet and profit and loss accounts based on the full version (Vollbilanz) available from Hoppenstedt Finanzinformationen GmbH (in English and German language), a Germany-based provider of financial data.

Dase	su provider of financial data.		
row		row	
1	Name: Company XYZ (Version in English)	1	Name: Firma XYZ (Version in German)
2	Date	2	Datum
3	ASSETS	3	AKTIVA
4	outstanding contributions to subscribed capital	4	Ausstehende Einlagen
5	.thereof called-in	5	.(davon eingefordert)
6	expenses for starting up + extending business operations	6	Aufw. f. Ingangsetz./Erweit. Geschäftsb.
7	fixed assets	7	Anlagevermögen
8	gross values at the beginning of the year	8	.Anfangsbestand
9	additions	9	.Zugänge
10	.appreciation/write-ups	10	.Zuschreibungen
11	disposals	11	Abgänge
12	other changes	12	.Sonstige Veränderungen
13	additions incl changes in scope of consolidation	13	(dav. Zug. incl. Veränd. Kons.kreis)
14	.accumulated depreciation and write-downs	14	.Kumulierte Abschreibungen
15	thereof depreciation during the year	15	(davon Geschäftsjahresabschreibungen)
16	thereof appreciation/write-ups under depreciation	16	(dav. Zuschr. b. Abschr.)
17	intangible assets	17	.Immaterielle Vermögensgegenstände
18	gross values at the beginning of the year	18	Anfangsbestand
19	additions	19	Zugänge
20	appreciation/write-ups	20	Zuschreibungen
21	disposals	21	Abgänge
22	other changes	22	Sonstige Veränderungen
		23	
23	additions incl changes in scope of consolidation		(dav. Zug. incl. Veränd. Kons.kreis)
24	accumulated depreciation and write-ups	24	Kumulierte Abschreibungen
25	thereof depreciation during the year	25	(dav. Geschäftsjahresabschreib.)
26	thereof appreciation/write-ups under depreciation	26	(dav. Zuschr. b. Abschr.)
27	franchises, patents/similar rights/assets & licences	27	Konzessionen
28	gross values at the beginning of the year	28	Anfangsbestand
29	additions	29	Zugänge
30	appreciation/write-ups	30	Zuschreibungen
31	disposals	31	Abgänge
32	other changes	32	Sonstige Veränderungen
33	additions incl changes in scope of consolidation	33	(dav. Zug. incl. Veränd. Kons.kreis)
34	accumulated depreciation and write-ups	34	Kumulierte Abschreibungen
35	thereof depreciation during the year	35	(dav. Geschäftsjahresabschreib.)
36	thereof appreciation/write-ups under depreciation	36	(dav. Zuschr. b. Abschr.)
37	goodwill (from indiv statements/capital consolidation)	37	Geschäfts- oder Firmenwert
38	thereof goodwill from capital consolidation	38	(dav. Unterschiedsbetrag aus Konsol.
39	gross values at the beginning of the year	39	Anfangsbestand
40	additions	40	Zugänge
41	appreciation/write-ups	41	Zuschreibungen
42	disposals	42	Abgänge
43	other changes	43	Sonstige Veränderungen
44	additions incl changes in scope of consolidation	44	(dav. Zug. incl. Veränd. Kons.kreis)
45	accumulated depreciation and write-ups	45	Kumulierte Abschreibungen
46	thereof depreciation during the year	46	(dav. Geschäftsjahresabschreib.)
47		47	
	thereof appreciation/write-ups under depreciation		(dav. Zuschr. b. Abschr.)
48	advance payments	48	Geleistete Anzahlungen
49	gross values at the beginning of the year	49	Anfangsbestand
50	additions	50	Zugänge
51	appreciation/write-ups	51	Zuschreibungen
52	disposals	52	Abgänge
53	other changes	53	Sonstige Veränderungen
54	additions incl changes in scope of consolidation	54	(dav. Zug. incl. Veränd. Kons.kreis)
55	accumulated depreciation and write-ups	55	Kumulierte Abschreibungen
56	thereof depreciation during the year	56	(dav. Geschäftsjahresabschreib.)
57	thereof appreciation/write-ups under depreciation	57	(dav. Zuschr. b. Abschr.)
51		51	(

TAI	BLE AI continued:		
58	.fixed tangible assets	58	.Sachanlagen
59	gross values at the beginning of the year	59	Anfangsbestand
60	additions	60	Zugänge
61	appreciation/write-ups	61	Zuschreibungen
62	disposals	62	Abgänge
63	other changes	63	Sonstige Veränderungen
64	additions incl changes in scope of consolidation	64	(dav. Zug. incl. Veränd. Kons.kreis)
65	accumulated depreciation and write-ups	65	Kumulierte Abschreibungen
66	thereof depreciation during the year	66	(dav. Geschäftsjahresabschreib.)
	thereof appreciation/write-ups under depreciation	67	(dav. Zuschr. b. Abschr.)
68	real estate, leasehold rights	68	Grundstücke
69	gross values at the beginning of the year	69	Anfangsbestand
70	additions	70	Zugänge
71	appreciation/write-ups	71	Zuschreibungen
72	disposals	72	Abgänge
73	other changes	73	Sonstige Veränderungen
74	additions incl changes in scope of consolidation	74	(dav. Zug. incl. Veränd. Kons.kreis)
75	accumulated depreciation and write-ups	75	Kumulierte Abschreibungen
76	thereof depreciation during the year	76	(dav. Geschäftsjahresabschreib.)
77	thereof appreciation/write-ups under depreciation	77	(dav. Zuschr. b. Abschr.)
78	technical equipment and machinery	78	Technische Anlagen und Maschinen
79	gross values at the beginning of the year	79	Anfangsbestand
80	additions	80	Zugänge
81	appreciation/write-ups	81	Zuschreibungen
82	disposals	82	Abgänge
83	other changes	83	Sonstige Veränderungen
84	additions incl changes in scope of consolidation	84	(dav. Zug. incl. Veränd. Kons.kreis)
85	accumulated depreciation and write-ups	85	Kumulierte Abschreibungen
86	thereof depreciation during the year	86	(dav. Geschäftsjahresabschreib.)
87	thereof appreciation/write-ups under depreciation	87	(dav. Zuschr. b. Abschr.)
88	other equipment, fixtures and office equipment	88	And. Anlagen
	gross values at the beginning of the year	89	Anfangsbestand
	additions	90	Zugänge
91	appreciation/write-ups	91	Zuschreibungen
92	disposals	92	Abgänge
93	other changes	93	Sonstige Veränderungen
94	additions incl changes in scope of consolidation	94	(dav. Zug. incl. Veränd. Kons.kreis)
95	accumulated depreciation and write-ups	95	Kumulierte Abschreibungen
	thereof depreciation during the year	96	(dav. Geschäftsjahresabschreib.)
97	thereof appreciation/write-ups under depreciation	97	(dav. Zuschr. b. Abschr.)
98	advance payments and construction in progress	98	Geleistete Anzahlungen/Anlagen im Bau
	gross values at the beginning of the year		Anfangsbestand
	additions		Zugänge
	appreciation/write-ups		Zuschreibungen
	disposals		Abgänge
	other changes		Sonstige Veränderungen
	additions incl changes in scope of consolidation		(dav. Zug. incl. Veränd. Kons.kreis)
	accumulated depreciation and write-ups		Kumulierte Abschreibungen
	thereof depreciation during the year		(dav. Geschäftsjahresabschreib.)
	thereof appreciation/write-ups under depreciation		(dav. Zuschr. b. Abschr.)
	fixed assets leased to customers		Vermietete Anlagengegenstände
	gross values at the beginning of the year	109 110	Anfangsbestand
	additions		Zugänge Zuschreibungen
	appreciation/write-ups	111	Zuschreibungen
	disposals other changes	112	Abgänge Sonstige Veränderungen
	additions incl changes in scope of consolidation		(day Zug incl Veränd Kons kreis)

114 ....additions incl changes in scope of consolidation 115 ...accumulated depreciation and write-ups

117 ....thereof appreciation/write-ups under depreciation

119 ...thereof with a remaining term exceeding 1 year

116 ....thereof depreciation during the year

120 ...thereof to members of company boards

122 ..gross values at the beginning of the year

118 .financial assets

121 .. thereof to partners

114 ....(dav. Zug. incl. Veränd. Kons.kreis)

116 ....(dav. Geschäftsjahresabschreib.)

119 ..(davon mit Restlaufzeit über 1 Jahr)

120 ..(dav. an Mitgl. v. Gesellschaftsorg.)

115 ...Kumulierte Abschreibungen

117 ....(dav. Zuschr. b. Abschr.) 118 .Finanzanlagen

121 ...(davon an Gesellschafter)122 ...Anfangsbestand

123additions	123Zugänge
124appreciation/write-ups	124Zuschreibungen
125disposals	125Abgänge
126other changes	126Sonstige Veränderungen
127additions incl changes in scope of consolidation	127(dav. Zug. incl. Veränd. Kons.kreis)
128accumulated depreciation and write-ups	128Kumulierte Abschreibungen
129thereof depreciation during the year	129(dav. Geschäftsjahresabschreib.)
130thereof appreciation/write-ups under depreciation	130(dav. Zuschr. b. Abschr.)
131shares in affiliated companies	131Anteile an verbunden Unternehmen
132gross values at the beginning of the year	132Anfangsbestand
133additions	133Zugänge
134appreciation/write-ups	134Zuschreibungen
135disposals	135Abgänge
136other changes	136Sonstige Veränderungen
137additions incl changes in scope of consolidation	137(dav. Zug. incl. Veränd. Kons.kreis)
138accumulated depreciation and write-ups	138Kumulierte Abschreibungen
139thereof depreciation during the year	139(dav. Geschäftjahresabschreib.)
140thereof appreciation/write-ups under depreciation	
	140(dav. Zuschr. b. Abschr.)
141shares in associated companies	141Ant. an assoz. Untern.
142thereof goodwill from equity consolidation	142(dav. Untersch.Betrag aus EquKons.)
143gross values at the beginning of the year	143Anfangsbestand
144additions	144Zugänge
145appreciation/write-ups	145Zuschreibungen
146disposals	146Abgänge
147other changes	147Sonstige Veränderungen
148additions incl changes in scope of consolidation	148(dav. Zug. incl. Veränd. Kons.kreis)
149accumulated depreciation and write-ups	149Kumulierte Abschreibungen
150thereof depreciation during the year	150(dav. Geschäftjahresabschreib.)
151thereof appreciation/write-ups under depreciation	151(dav. Zuschr. b. Abschr.)
152loans to affiliated companies	152Ausl. an verb. Untern.
153gross values at the beginning of the year	153Anfangsbestand
154additions	154Zugänge
155appreciation/write-ups	155Zuschreibungen/Aufzinsungen
156disposals	156Abgänge
157other changes	157Sonstige Veränderungen
158additions incl changes in scope of consolidation	158(dav. Zug. incl. Veränd. Kons.kreis)
159accumulated depreciation and write-ups	159Kumulierte Abschreibungen
160thereof depreciation during the year	160(dav. Gesch.j.abschr./Abzins.)
161thereof appreciation/write-ups under depreciation	161(dav. Zuschr. b. Abschr.)
162loans to associated companies	162Ausl. an assoz. Untern.
163gross values at the beginning of the year	163Anfangsbestand
164additions	164Zugänge
165appreciation/write-ups	165Zuschreibungen/Aufzinsungen
166disposals	166Abgänge
167other changes	167Sonstige Veränderungen
168additions incl changes in scope of consolidation	168(dav. Zug. incl. Veränd. Kons.kreis)
169accumulated depreciation and write-ups	169Kumulierte Abschreibungen
170thereof depreciation during the year	170(dav. Gesch.j.abschr./Abzins.)
171thereof appreciation/write-ups under depreciation	171(dav. Zuschr. b. Abschr.)
172other share investments	172Beteiligungen
173gross values at the beginning of the year	173Anfangsbestand
174additions	174Zugänge
175appreciation/write-ups	175Zuschreibungen
176disposals	176Abgänge
177other changes	177Sonstige Veränderungen
178additions incl changes in scope of consolidation	178(dav. Zug. incl. Veränd. Kons.kreis)
179accumulated depreciation and write-ups	179Kumulierte Abschreibungen
180thereof depreciation during the year	180(dav. Geschäftsjahresabschreib.)
181thereof appreciation/write-ups under depreciation	181(dav. Zuschr. b. Abschr.)
182loans to other share investments	182Ausleihungen an Beteiligungsunterneh.
183thereof with remaining term exceeding 1 year	183(dav. mit Restlaufzeit über 1 Jahr)
184gross values at the beginning of the year	184Anfangsbestand
185additions	185Zugänge
186appreciation/write-ups	186Zuschreibungen/Aufzinsungen
187disposals	187Abgänge
•	

TA.	BLE AI continued:		
188	other changes	188	Sonstige Veränderungen
	additions incl changes in scope of consolidation	189	(dav. Zug. incl. Veränd. Kons.kreis)
	accumulated depreciation and write-ups	190	Kumulierte Abschreibungen
	thereof depreciation during the year	191	(dav. Geschäftsjahresabschreib.)
	thereof appreciation/write-ups under depreciation	192	(dav. Zuschr. b. Abschr.)
	securities of fixed assets	193	Wertpapiere des Anlagevermögens
194	gross values at the beginning of the year	194	Anfangsbestand
	additions	195	Zugänge
196	appreciation/write-ups	196	Zuschreibungen
197	disposals	197	Abgänge
198	other changes	198	Sonstige Veränderungen
	additions incl changes in scope of consolidation	199	(dav. Zug. incl. Veränd. Kons.kreis)
	accumulated depreciation and write-ups	200	Kumulierte Abschreibungen
	thereof depreciation during the year	201	(dav. Geschäftsjahresabschreib.)
	thereof appreciation/write-ups under depreciation		(dav. Zuschr. b. Abschr.)
	other financial assets	203	Sonstige Finanzanlagen
	thereof with remaining term exceeding 1 year	204	(dav. mit Restlaufzeit über 1 Jahr)
	thereof to members of company boards	205	(dav. an Mitgl. v. GesellschOrg.)
	thereof to partners	206	(davon an Gesellschafter)
	gross values at the beginning of the year	207	Anfangsbestand
	additions	208	Zugänge
	appreciation/write-ups	209 210	Zuschreibungen Abgänge
	disposals other changes	210	Sonstige Veränderungen
	additions incl changes in scope of consolidation	211	(dav. Zug. incl. Veränd. Kons.kreis)
	accumulated depreciation and write-ups	213	Kumulierte Abschreibungen
	thereof depreciation during the year	214	(dav. Geschäftsjahresabschreib.)
	thereof appreciation/write-ups under depreciation	215	(dav. Zuschr. b. Abschr.)
	items treated as fixed assets		Anlagevermögenähnliche Posten
	leasing equipment and assets leased or rented out		.Vermietvermögen
	nuclear fuel	218	.Kernbrennelemente
	special items from companies of the mining industrie		.Vorabraum
	special assets		.Sondervermögen
	thereof to accounting in accordance with DMBilG 1990	221	(dav. Sonderbil. nach DMBilG)
	current assets	222	Umlaufvermögen
223	current assets leased to customers	223	.Vermietete Erzeugn. im Umlaufvermögen
224	.fixed assets intended to be sold	224	.Zum Verkauf best. Gegenstände des AV
	.inventories (net value)		.Vorräte (gesamt)
	inventories (gross value)		Vorräte (unspezifiziert)
	raw material and supplies		Roh-/Hilfs-/Betriebsstoffe
	work in process		Unfertige Erzeugnisse / Arbeiten
229	finished goods and merchandise	229	Fertige Erzeugnisse / Waren
	goods and services not yet invoiced		Noch nicht abgerechnete Aufträge
	goods and services not yet completed	231	In Ausführung befindliche Arbeiten
	advance payments	232	Geleistete Anzahlungen
	thereof with remaining term exceeding 1 year	233	(dav. mit Restlaufzeit über 1 Jahr)
	payments received on account of orders	234 235	Erhaltene Anzahlungen auf Bestellung. (dav. mit Restlaufzeit über 1 Jahr)
	thereof with remaining term exceeding 1 year other deductions (part pay't/provision etc)	236	Sonstige Abzüge (Abschlagszahl. u.ä.)
	thereof with remaining term exceeding 1 year	237	(dav. mit Restlaufzeit über 1 Jahr)
	receivables and other current assets	238	.Forderungen und son. Vermögensgegenst.
	thereof with remaining term exceeding 1 year	239	(davon mit Restlaufzeit über 1 Jahr)
	thereof from affiliated companies	240	(davon an verbundene Unternehmen)
	thereof from associated companies	241	(davon an assoziierte Unternehmen)
	from other co's in which participations are held	242	(davon an Beteiligungsunternehmen)
	value adjustments/over value adjustments set off direct	243	(dav. direkt abges. Wertberichtigung)
	thereof from members of company board	244	(dav. ggü. Mitgl. v. GesellschOrg.)
	thereof to partners	245	(davon an Gesellschafter)
	trade receivables	246	Ford. aus Lieferungen und Leistungen
247	thereof with remaining term exceeding 1 year	247	(dav. mit Restlaufzeit über 1 Jahr)
248	receivables from partially complete services	248	Ford. aus teilfertigen Leistungen
	thereof with remaining term exceeding 1 year	249	(dav. mit Restlaufzeit über 1 Jahr)
	receivables from goods/services not yet invoiced	250	Ford. aus noch nicht abger. Leistung.
	thereof with remaining term exceeding 1 year	251	(dav. mit Restlaufzeit über 1 Jahr)
252	receivables from leasing and rental business	252	Ford. aus Vermietung und Verpachtung

1A	BLE AI continuea:		
253	thereof with remaining term exceeding 1 year	253	(dav. mit Restlaufzeit über 1 Jahr)
254	receiv. fr. contracts, prelim agreem., custmrsodial serv's		Ford. aus Verträgen + Betreuung
	thereof with remaining term exceeding 1 year		(dav. mit Restlaufzeit über 1 Jahr)
	receivables from affiliated companies		Ford. an verb. Untern.
	thereof with remaining term exceeding 1 year		
	thereof trade receivables		(dav. aus Lief. + Leist.)
	receivables from associated companies		Ford. an assoz. Untern.
	thereof with remaining term exceeding 1 year		(dav. Restl. >1 Jahr)
	thereof trade receivables		(dav. aus Lief. + Leist.)
	receivables from other co's participations are held		Forderungen an Beteiligungen
	thereof with remaining term exceeding 1 year		(dav. mit Restlaufzeit über 1 Jahr)
	thereof trade receivables		(dav. aus Lieferungen + Leistungen)
265	receivables from co brd members		Ford. an Mitgl. v. GesellschOrganen
266	thereof with remaining term exceeding 1 year	266	(dav. mit Restlaufzeit über 1 Jahr)
267	other receivables and other current assets	267	Son. Forderungen + Vermögensgegenst.
268	thereof with remaining term exceeding 1 year	268	(dav. mit Restlaufzeit über 1 Jahr)
269	contributions called-in/supplementary or contractual	269	(dav. eingeford. Einl./Nachschüsse)
270	payments received	270	Erhaltene Anzahlungen bei Forderungen
271	thereof with remaining term exceeding 1 year	271	(dav. mit Restlaufzeit über 1 Jahr)
272	other deductions (e.g. part pay'ts)	272	Sonstige Abzüge (Abschlagszahl. u.ä.)
	thereof with remaining term exceeding 1 year		(dav. mit Restlaufzeit über 1 Jahr)
	securities of current assets	274	.Wertpapiere des Umlaufvermögens
	shares in affiliated companies	275	Anteile an verbundenen Unternehmen
	thereof shares in associated companies		(dav. Ant. an assoziierten Untern.)
	own shares		Eigene Anteile
	other securities		Sonstige Wertpapiere
	thereof bonds		(davon Schuldscheine)
	.liquid funds	280	.Liquide Mittel
	thereof with remaining term exceeding 1 year	281	(davon mit Restlaufzeit über 1 Jahr)
	cash in hand, central bank and postal giro balances		Kasse
	cheques		Schecks
	bank balances		Guthaben bei Kreditinstituten
	thereof with remaining term exceeding 1 year	285	(dav. mit Restlaufzeit über 1 Jahr)
	prepaid expenses	286	
	thereof discounts in accordance with §250(3) HGB	287	.(davon Disagio)
	prepaid tax	288	2 2
	loss not covered by equity capital	289	Nicht d. Eigenkap. gedeckter Fehlbetr.
	.thereof loss of shareholders with unlimited liability total assets	290 291	.(dav. Verlustanteil pers. haft. Ges.)
		291	Bilanzsumme (Aktiva) .Eventualforderungen
292	.contingent receivables  LIABILITIES AND SHAREHOLDERS' EQUITY	293	PASSIVA
	equity (capital and reserves)		Eigenkapital
	thereof special accounting in accord with DMBilG 1990.	295	.(dav. Sonderbil. nach DMBilG)
	capital	296	.Kapital
	called-in capital	297	*
	subscribed capital		Gezeichnetes Kapital
	thereof value of ordinary share	299	(davon Nennwert Stammaktien)
	thereof value of preference share	300	(davon Nennwert Vorzugsaktien)
	thereof preferred shares		(davon Vorzüge)
	non called-in capital		Nicht eingeford. aussteh. Einlagen
	proprietary accounts of liable shareholders	303	
	other capital	304	
	thereof profit-sharing certificates		(davon Genußscheine)
	thereof capital share from remaining members		(dav. Gesch.Guth. verb. Mitgl.)
	thereof capital share from retiring members	307	(dav. Gesch.guth. aussch. Mitgl.)
	thereof capital share from cancelled shares	308	(dav. Gesch.Guth. gek. Gesch.Ant.)
	thereof contributions of limited partners	309	(davon Kommanditeinlage)
	general reserves		.Offene Rücklagen
	thereof set off direct as goodwill	311	(dav. direkt abges. Untersch.betr.)
312	capital reserves	312	Kapitalrücklagen
	thereof set off direct as goodwill	313	(dav. direkt abges. Untersch.betr.)
	additional pd-in capital from share issues etc.	314	Agio aus Wertpapieremissionen u.ä.
	additional or supplementary contr. from shareholders	315	Zuzahl./Nachschüsse von Gesellsch.
	funds derived from reductions in share capital etc.		Beträge aus Kapitalherabsetz. u.ä.
317	revenue reserves	317	Gewinnrücklagen

TAI	BLE AI continued:		
318	thereof set off direct as goodwill	318	(dav. direkt abges. Untersch.betr.)
	legal reserves		Gesetzliche Rücklage
	uncommitted reserves		Freie Rücklagen
	reserves for own shares		Rücklage für eigene Anteile
	thereof holdings in controlling or parent company		(dav. Ant. an herrsch. Untern.)
	statutory reserves		Satzungsmäßige Rücklagen
	other revenue reserves		Andere Gewinnrücklagen
325	equity part from re-instatement of original values		(dav. EK-Ant. v. Wertaufholung)
	equity part of tax-deductible reserves		(dav. EK-Ant. abzugsf. Rückl.)
	thereof reserves for repairs/replacements/rationalis.	327	(dav. Instandhaltungsrücklagen)
	thereof contingency reserves	328	(davon Risikorücklagen)
329	thereof reserves for foundations/charities	329	(dav. Rücklagen für Stiftungen)
330	thereof set off direct as goodwill	330	(dav. als Goodwill dir. abges.)
331	.adjustment items from consolidation	331	.Unterschiedsbetrag aus Kapitalkonsolid.
332	adjustment items for shares held by third parties	332	.Anteile anderer Gesellschafter
	thereof shares in profits	333	(
	thereof shares in losses		(davon Verlustanteile)
	thereof shares in capital		(davon Kapitalanteile)
	.balance sheet result		.Bilanzergebnis
	net income/loss for the year		Jahresüberschuß / -fehlbetrag
	net income/loss carried forward from the previous year		Gewinn- / Verlustvortrag aus Vorjahr
	profit/loss		Bilanzgewinn / -verlust
	net income/loss carried forward from the previous yr		(dav. Gewinn-/Verlustvortr. a. Vj.)
	equity related funds		Eigenkapitalähnliche Mittel
	special item with an equity portion		Staverraghtliche Rücklageanteil
	taxation reserves		Steuerrechtliche Rücklagen Sonderposten gemäß § 6b EStG
	special items accord. to(sale of certain fixed assets)special items acc. to sect. 35 EStR (replacem. of assets)		Sonderposten geman § 60 EStG Sonderposten gem. Abschnitt 35 EStR
	special items acc. with § 52(8) EStG (pension accruals)	346	Sonderposten gemäß § 52 (5) EStG
	special items in accord with Investment Allowance Act	347	Sonderposten gemäß InvZulG
	special items in accord with Developing Countries Act	348	Sonderposten gemäß EntwLStG
	special items in accord with Foreign Investment Act	349	Sonderposten gemäß AuslInvG
	other special items		Sonstige Sonderposten
	special items in accord with foreign legal provisions		Sonderposten nach ausländ. Recht
	special depreciation in accordance with taxation law		Steuerrechtliche Sonderabschreibungen
	thereof value adjustments of fixed assets	353	(dav. Wertberichtigungen zum AV)
	thereof value adjustments of land and buildings	354	(dav. Wb. a. Grundstücke/Gebäude)
	value adjustments of current assets/import deductions	355	(dav. Wertberichtigungen zum UV)
356	grants		.Zuschüsse
357	thereof declared tax-free	357	(davon als steuerfrei bezeichnet)
	investment grants	358	Investitionszuschüsse
359	grants to cover building costs	359	Baukostenzuschüsse/Anschlußbeiträge
	grants on earnings		Ertragszuschüsse
	other mixed grants		Sonstige (gemischte) Zuschüsse
	outside/borrowed capital		Fremdkapital
	provisions		.Rückstellungen
	thereof long-term		(dav. längerfristig)
	thereof special accounting in accord with DMBilG 1990		(dav. Sonderbil. n. DMBilG)
	adjustment items from consolidation	366	(dav. Untbetr. a. d. Kons.)
	provision for pensions and similar commitments deficit arising from non-allocation		Pensionsrückstellungen
			(Fehlbetrag aus unterl. Zuführung)Andere Rückstellungen
	other provisions provisions for taxation		Steuerrückstellungen
	thereof for deferred taxes		(davon latente Steuern)
	other provisions		Sonstige Rückstellungen
	provisions to cover guarantee claims	373	Gewährleistungsrückstellungen
	provisions to cover repairs	374	Instandhaltungsrückstellungen
	provisions to cover removal of waste materials	375	Abraumbeseitigungsrückstellungen
	all other provisions		Restliche Rückstellungen
	liabilities		.Verbindlichkeiten
	thereof short-term		(davon kurzfristig)
379	thereof long-term	379	(davon langfristig)
380	thereof secured by mortgages and similar rights	380	(dav. d. Pfandr. u.ä. ges.)
	secured by mortgages on real estate & similar rights	381	(durch Grundpfandrechte gesichert)
382	thereof to members of company boards	382	(dav. ggü. Mitgl. v. GesellschOrg.)

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383	thereof to partners	383	(dav. geg. Gesellschaftern)
	contributions of dormant partners	384	Einlagen stiller Gesellschafter
	thereof with a remaining term of up to 1 year	385	(dav. vor Abl. eines Jahres fällig)
	thereof with a remaining term of more than 5 years	386	(dav. Restlaufzeit über 5 Jahre)
	thereof secured by mortgages and similar rights	387	(dav. d. Pfandr. u.ä. ges.)
388	secured by mortgages on real estate & similar rights	388	(durch Grundpfandrechte gesichert)
	loans granted by shareholders	389	Gesellschafterdarlehen
	thereof with a remaining term of up to 1 year	390	(dav. vor Abl. eines Jahres fällig)
	thereof with a remaining term of more than 5 years	391	(dav. Restlaufzeit über 5 Jahre)
392	thereof secured by mortgages and similar rights	392	(dav. d. Pfandr. u.ä. ges.)
	secured by mortgages on real estate & similar rights	393	(durch Grundpfandrechte gesichert)
394	loans, bonds, obligations	394	Anleihen / Schuldverschreibungen
	thereof with a remaining term of up to 1 year	395	(dav. vor Abl. eines Jahres fällig)
	thereof with a remaining term of more than 5 years	396	(dav. Restlaufzeit über 5 Jahre)
397	thereof secured by mortgages and similar rights	397	(dav. d. Pfandr. u.ä. ges.)
	secured by mortgages on real estate & similar rights	398	(durch Grundpfandrechte gesichert)
399	thereof convertible	399	(davon konvertibel)
400	therof profit-sharing certificates	400	(davon Genußscheine)
401	loans, mortgages	401	Darlehen / Hypotheken / Schuldscheine
402	thereof with a remaining term of up to 1 year	402	(dav. vor Abl. eines Jahres fällig)
403	thereof with a remaining term of more than 5 years	403	(dav. Restlaufzeit über 5 Jahre)
404	thereof secured by mortgages and similar rights	404	(dav. d. Pfandr. u.ä. ges.)
405	secured by mortgages on real estate & similar rights	405	(durch Grundpfandrechte gesichert)
406	liabilities to banks	406	Verbindlichkeiten ggü. Kreditinstit.
407	thereof with a remaining term of up to 1 year	407	(dav. vor Abl. eines Jahres fällig)
	thereof with a remaining term of more than 5 years	408	(dav. Restlaufzeit über 5 Jahre)
	thereof secured by mortgages and similar rights	409	(dav. d. Pfandr. u.ä. ges.)
	secured by mortgages on real estate & similar rights	410	(durch Grundpfandrechte gesichert)
411	payments received on account of orders	411	Erhaltene Anzahlungen auf Bestellung.
412	thereof with a remaining term up to 1 year	412	(dav. vor Abl. eines Jahres fällig)
	thereof with a remaining term of more than 5 years	413	(dav. Restlaufzeit über 5 Jahre)
414	thereof secured by mortgages and similar rights	414	(dav. d. Pfandr. u.ä. ges.)
415	secured by mortgages on real estate & similar rights	415	(durch Grundpfandrechte gesichert)
416	trade liabilities	416	Verblk. aus Lieferungen + Leistungen
417	thereof with a remaining term up to 1 year	417	(dav. vor Abl. eines Jahres fällig)
418	thereof with a remaining term of more than 5 years	418	(dav. Restlaufzeit über 5 Jahre)
419	thereof secured by mortgages and similar rights	419	(dav. d. Pfandr. u.ä. ges.)
420	secured by mortgages on real estate & similar rights	420	(durch Grundpfandrechte gesichert)
421	liabilities on bills accepted and drawn	421	Wechselverbindlichkeiten
422	thereof with a remaining term up to 1 year	422	(dav. vor Abl. eines Jahres fällig)
423	thereof with a remaining term of more than 5 years	423	(dav. Restlaufzeit über 5 Jahre)
424	thereof secured by mortgages and similar rights	424	(dav. d. Pfandr. u.ä. ges.)
425	secured by mortgages on real estate & similar rights	425	(durch Grundpfandrechte gesichert)
	liabilities to affiliated companies	426	Verbindlk. ggü. verbundenen Unterneh.
	thereof with a remaining term up to 1 year	427	(dav. vor Abl. eines Jahres fällig)
	thereof with a remaining term of more than 5 years	428	(dav. Restlaufzeit über 5 Jahre)
	thereof secured by mortgages and similar rights	429	(dav. d. Pfandr. u.ä. ges.)
430	secured by mortgages on real estate & similar rights	430	(durch Grundpfandrechte gesichert)
431	thereof trade liabilities	431	(dav. aus Lieferungen + Leistungen)
	liabilities to associated companies	432	Verbindlk. ggü. assoziierten Untern.
	thereof with a remaining term up to 1 year	433	(dav. vor Abl. eines Jahres fällig)
	thereof with a remaining term of more than 5 years	434	(dav. Restlaufzeit über 5 Jahre)
	thereof secured by mortgages and similar rights	435	(dav. d. Pfandr. u.ä. ges.)
	secured by mortgages on real estate & similar rights	436	(durch Grundpfandrechte gesichert)
	thereof trade liabilities	437	(dav. aus Lieferungen + Leistungen)
	liabilities to companies in which participations are held	438	Verbindlichkeiten ggü. Beteiligungen
	thereof with a remaining term up to 1 year	439	(dav. vor Abl. eines Jahres fällig)
	thereof with a remaining term of more than 5 years	440	(dav. Restlaufzeit über 5 Jahre)
441	thereof secured by mortgages and similar rights	441	(dav. d. Pfandr. u.ä. ges.)
	secured by mortgages on real estate & similar rights	442	(durch Grundpfandrechte gesichert)
	thereof trade liabilities	443	(dav. aus Lieferungen + Leistungen)
	other liabilities	444	Sonstige Verbindlichkeiten
	thereof with a remaining term up to 1 year	445	(dav. vor Abl. eines Jahres fällig)
	thereof with a remaining term of more than 5 years	446	(dav. Restlaufzeit über 5 Jahre)
447	thereof secured by mortgages and similar rights	447	(dav. d. Pfandr. u.ä. ges.)

TABLE AI continued:						
448	secured by mortgages on real estate & similar rights	448	(durch Grundpfandrechte gesichert)			
	liabilities for taxation		Verbindlichkeiten aus Steuern			
450	thereof with a remaining term up to 1 year		(dav. vor Abl. eines Jahr. fäll.)			
	thereof with a remaining term of more than 5 years	451	(dav. Restlaufzeit über 5 Jahre)			
452	thereof secured by mortgages and similar rights	452	(dav. d. Pfandr. u.ä. ges.)			
	secured by mortgages on real estate & similar rights	453	(durch Grundpfandrechte gesich.)			
454	liabilities relating to social security	454	Vblk. im Rahmen der soz. Sicherheit			
	thereof with a remaining term up to 1 year	455	(dav. vor Abl. eines Jahr. fäll.)			
	thereof with a remaining term of more than 5 years	456	,			
	thereof secured by mortgages and similar rights	457	(dav. d. Pfandr. u.ä. ges.)			
	secured by mortgages on real estate & similar rights		(durch Grundpfandrechte gesich.)			
	other liabilities	459				
	thereof with a remaining term up to 1 year	460	(dav. vor Abl. eines Jahr. fäll.)			
	thereof with a remaining term of more than 5 yearsthereof secured by mortgages and similar rights	461	(dav. Restlaufzeit über 5 Jahre)			
	secured by mortgages and similar rights		(dav. d. Pfandr. u.ä. ges.) (durch Grundpfandrechte gesich.)			
	deferred income		Rechnungsabgrenzungsposten (Passiva)			
	total equity and liabilities		Bilanzsumme (Passiva)			
	contingent liabilities and other obligations		.Eventualverbindlichkeiten			
	contingent liabilities	467	Haftungsverhältnisse			
	thereof to affiliated companies	468	(dav. ggü. verbundenen Unternehmen)			
	contingent liabilities on discounted bills of exchange	469	(dav. aus Wechselindossamenten)			
470	contingent liabilities from guarantees & indemnity	470	(davon Verblk. aus Bürgschaften)			
471	thereof contingent liabilities arising from warranties	471	(dav. Verblk. aus Gewährleistungen)			
	contingent liabilit. fr. securit. arrang. f. cust. liabilit.	472	(dav. SichBest. f. fremde Vblk.)			
	other financial obligations	473	Sonstige finanzielle Verpflichtungen			
	thereof to affiliated companies	474	(dav. ggü. verbundenen Unternehmen)			
	thereof liabilites from leasing and rental agreements	475	(dav. aus Miet-/Leasingverträgen)			
	thereof short-term		(dav. kurzfristig)			
	thereof medium-term		(dav. mittelfristig)			
	thereof long-term	478	(dav. langfristig)			
	thereof actual valuecommitments from investments	479 480	(dav. Barwert)(dav. Bestellobligo für Sachanl.)			
		400				
481	PROFIT AND LOSS ACCOUNT	481				
<b>481</b> 482	PROFIT AND LOSS ACCOUNT sales revenue/turnover	481 482	G + V			
482	.sales revenue/turnover	482	<b>G</b> + <b>V</b> .Umsatz / Außenumsatz / Erlöse (netto)			
482 483	.sales revenue/turnoverexcise duties were deducted from sales in the amount of		<b>G</b> + <b>V</b> .Umsatz / Außenumsatz / Erlöse (netto) n. Abz. abges. Verbr.St.			
482 483 484	.sales revenue/turnover excise duties were deducted from sales in the amount of equalisation levies accord. to the 3rd Coal Power Act	482 483	<b>G</b> + <b>V</b> .Umsatz / Außenumsatz / Erlöse (netto)			
482 483 484 485	.sales revenue/turnoverexcise duties were deducted from sales in the amount of	482 483 484	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe			
482 483 484 485 486 487	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating income	482 483 484 485 486	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge			
482 483 484 485 486 487 488	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not planned	482 483 484 485 486 487 488	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)			
482 483 484 485 486 487 488 489	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according period	482 483 484 485 486 487 488 489	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)			
482 483 484 485 486 487 488 489	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according periodincome from disposal of fixed assets and write-ups	482 483 484 485 486 487 488 489 490	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)Ertr. aus Anlageabgängen/Zuschreib.			
482 483 484 485 486 487 488 489 490	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according periodincome from disposal of fixed assets and write-upsincome from release of accruals	482 483 484 485 486 487 488 489 490 491	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)Ertr. aus Anlageabgängen/ZuschreibErträge aus Rückstellungsauflösungen			
482 483 484 485 486 487 488 489 490 491 492	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according periodincome from disposal of fixed assets and write-upsincome from release of accrualsincome from liquidation of special items	482 483 484 485 486 487 488 489 490 491 492	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)Ertr. aus Anlageabgängen/ZuschreibErträge aus RückstellungsauflösungenErtr. aus der Sopo-Auflösung			
482 483 484 485 486 487 488 489 490 491 492 493	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according periodincome from disposal of fixed assets and write-upsincome from release of accrualsincome from liquidation of special itemsin accord with °6b EStG (sale of certain fixed assets)	482 483 484 485 486 487 488 489 490 491 492 493	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)Ertr. aus Anlageabgängen/ZuschreibErträge aus RückstellungsauflösungenErtr. aus der Sopo-Auflösung(davon gemäß § 6b EStG)			
482 483 484 485 486 487 488 489 490 491 492 493 494	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according periodincome from disposal of fixed assets and write-upsincome from release of accrualsincome from liquidation of special itemsin accord with °6b EStG (sale of certain fixed assets)in accord with °52 EStG (provisions for pensions)	482 483 484 485 486 487 488 489 490 491 492 493 494	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)Ertr. aus Anlageabgängen/ZuschreibErträge aus RückstellungsauflösungenErtr. aus der Sopo-Auflösung(davon gemäß § 6b EStG)(davon gemäß § 52 (5) EStG)			
482 483 484 485 486 487 488 489 490 491 492 493 494 495	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according periodincome from disposal of fixed assets and write-upsincome from release of accrualsincome from liquidation of special itemsin accord with °6b EStG (sale of certain fixed assets)in accord with °52 EStG (provisions for pensions)thereof in accordance with foreign legal law	482 483 484 485 486 487 488 489 490 491 492 493 494 495	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)Ertr. aus Anlageabgängen/ZuschreibErträge aus RückstellungsauflösungenErtr. aus der Sopo-Auflösung(davon gemäß § 6b EStG)(davon gemäß § 52 (5) EStG)(dav. gem. ausl. Rechtsvorschr.)			
482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according periodincome from disposal of fixed assets and write-upsincome from release of accrualsincome from liquidation of special itemsin accord with °6b EStG (sale of certain fixed assets)in accord with °52 EStG (provisions for pensions)thereof in accordance with foreign legal lawother income	482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)Ertr. aus Anlageabgängen/ZuschreibErträge aus RückstellungsauflösungenErtr. aus der Sopo-Auflösung(davon gemäß § 6b EStG)(davon gemäß § 52 (5) EStG)(dav. gem. ausl. Rechtsvorschr.)Sonstige Erträge			
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482 483 484 485 486 487 488 490 491 492 493 494 495 496 497 498	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according periodincome from disposal of fixed assets and write-upsincome from release of accrualsincome from liquidation of special itemsin accord with °6b EStG (sale of certain fixed assets)in accord with °52 EStG (provisions for pensions)thereof in accordance with foreign legal lawother income .cost of materialscost of raw materials and supplies + of purchased goods	482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)Ertr. aus Anlageabgängen/ZuschreibErträge aus RückstellungsauflösungenErtr. aus der Sopo-Auflösung(davon gemäß § 6b EStG)(davon gemäß § 52 (5) EStG)(dav. gem. ausl. Rechtsvorschr.)Sonstige Erträge .MaterialaufwandRoh-/Hilfs-/Betriebsstoffe/bez. Waren			
482 483 484 485 486 487 488 490 491 492 493 494 495 496 497 498 499	.sales revenue/turnoverexcise duties were deducted from sales in the amount ofequalisation levies accord. to the 3rd Coal Power Act .inc/dec in inven. of finished products/work in progress .own work capitalized .other operating incomethereof special and not plannedthereof expenses not related to the according periodincome from disposal of fixed assets and write-upsincome from release of accrualsincome from liquidation of special itemsin accord with °6b EStG (sale of certain fixed assets)in accord with °52 EStG (provisions for pensions)thereof in accordance with foreign legal lawother income .cost of materials	482 483 484 485 486 487 488 490 491 492 493 494 495 496 497 498 499	G+V .Umsatz / Außenumsatz / Erlöse (netto)n. Abz. abges. Verbr.Stn. Abz. abges. Ausgl.Abgabe .Bestandsveränderungen .Aktivierte Eigenleistungen .Sonstige betriebliche Erträge(dav. als außerordentlich bezeichnet)(dav. periodenfremd)Ertr. aus Anlageabgängen/ZuschreibErträge aus RückstellungsauflösungenErtr. aus der Sopo-Auflösung(davon gemäß § 6b EStG)(davon gemäß § 52 (5) EStG)(dav. gem. ausl. Rechtsvorschr.)Sonstige Erträge .Materialaufwand			
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583 .other changes 583 .Sonstige Veränderungen	. •
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585 profit/loss 585 Bilanzgewinn / -verlust	
586 .dividends 586 .Dividende / Ausschüttungen	
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594 .other changes 594 .Sonstige Veränderungen	
595 .profit/loss carried forward to the following year 595 .Ergebnisvortrag in das neue Jahr	
596 .divi. from parent co (only shown in consolid. statement) 596 .Dividende der Mutterges. bei Konzer	1
597 sales revenue/turnover 597 Umsatzerlöse	
598 income from participating interest 598 Erträge aus Beteiligungen	
599 staff expenses 599 Personalaufwand	
600 . Löhne und Gehälter	
601 .social security contributions & exp for pensions 601 .Soz.Abg./Altersversorg./Unterstützur	g
602(davon Gesetzlicher Sozialaufwand)	
603(davon Altersversorgung)	
604(davon Unterstützung)	

# Table AII Calculation of DCA and IS coefficients

To illustrate the calculation of DCA and IS, we list each component of formula (1), (2) and (3) (for the calculation of the DCA coefficient) and formula (4) (for the calculation of the IS coefficient). *Row* is associated with the position of the relevant item in the specimen balance sheet and profit and loss statement in the Appendix, Table AI.

Panel A: Calculation of DCA					
Item	Row	Formula			
Current Accruals (CA) = $\Delta$ accounts receivable + $\Delta$ inventory + $\Delta$ other current assets - [ $\Delta$ accounts payable+ $\Delta$ tax payable + $\Delta$ other current liabilities]					
Accounts receivable + Other current assets	238	(2)			
Inventory	225	(2)			
Accounts Payable	407+412+417+422+427	(2)			
Tax payable	449	(2)			
Other current liabilities	433+439+445+455+460	(2)			
Trade receivables	246	(3)			
Sales	482	(3)			
Total assets	291	(3)			
Panel B: Calculation of IS					
Item	Row	Formula			
Operating Income (OI) = gross result – operating expenses					
Gross result	500	(4)			
Operating expenses	523	(4)			
Operating Cash Flow = Operating Income (OI) + Depreciation		(4)			
- Current Accruals (CA)					
Depreciation	15	(4)			