

Compustat on WRDS介绍

——上海对外经贸大学

S&P Global Market Intelligence

标普全球市场财智

客户总监

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S&P Global

Market Intelligence

主要内容

- 关于Compustat
- Compustat 数据在沃顿平台
- Compustat 数据分类及覆盖
- Compustat 数据基础构成
- 客服服务

A cluster of approximately 10 hexagons in various colors (dark grey, red, teal, light blue, dark green) arranged in a loose, abstract pattern in the top right corner of the slide.

关于 Compustat

About us

- **Compustat** 是一个全面的财务数据库，收录公司的营运及财务状况资料库
- **Compustat** 涵盖130多个国家和地区，超过 120,000上市/已退市公司
- **Compustat** 财务数据回溯到1950年，可用来执行深度历史基本面分析及研究
- 超过 143,000只证券，占全球市值99%以上
- 提供数据包括：
 - 财务数据，市场价格，指数价格
 - 行业分类代码（如：GICS，SIC等）
 - 预期数据，股权信息，重大事件等

About us

- **Wharton Research Data Services (WRDS)** – 沃顿商学院是我们的合作伙伴, 为学术机构提供平台获取Compustat数据
- 现在, 全球超过385家学术机构经过 WRDS 订约了 Compustat, 包括但不限于:
 - 清华大学
 - 北京大学
 - 复旦大学
 - 上海交通大学
 - 中国科技大学
 - 浙江大学
 - 南开大学
 - 上海财经大学 等……

Compustat 数据在沃顿平台

Compustat - Capital IQ

S&P Global Market Intelligence Data Through Wharton Research Data Services

Compustat

- Banks
- Compensation
- Financial Statements
- Segments / Industry Data
- Stock Prices
- Global
- North America

Compustat Fundamentals provides standardized North American and global financial statement and market data for over 80,000 active and inactive publicly traded companies that financial professionals have relied on for over 50 years

» North America	17	» Global	5
» Bank	2	» Historical Segments	2
» Snapshot	7	» Execucomp	9

Compustat 北美数据包

Compustat North America files also contain information on aggregates, industry segments, banks, market prices, dividends, and earnings.

» Financial Ratios (Firm and Industry Lev... **4**

» Fundamentals Annual

» Fundamentals Quarterly

» Index Constituents

» Index Fundamentals

» Index Prices

» Industry Specific Annual

» Industry Specific Quarterly

» Pension Annual

» Pension Quarterly

» Ratings

» Security Daily

» Security Monthly

» Segments (Non-Historical)

» Segments (Non-Historical) - Customer

» Simplified Financial Statement Extract

» Supplemental Short Interest File

Compustat 非北美数据包

Non-U.S. and non-Canadian fundamental and market information on over 33,900 active and inactive publicly held companies

» [Fundamentals Annual](#)

» [Fundamentals Quarterly](#)

» [Index Constituents](#)

» [Index Prices](#)

» [Security Daily](#)

Compustat 银行和营收包

Bank

[Banks](#)[Financial Statements](#)[North America](#)

Granular regulatory financial data for 16,000+ operating and 29,000+ global historical holding companies, banks, and credit unions

[» Bank Fundamentals Annual](#)[» Bank Fundamentals Quarterly](#)

Historical Segments

[Financial Statements](#)[Segments / Industry Data](#)[North America](#)

Information for over 23,000 North American companies since 1976

[» Customer Segments](#)[» Historical Segments](#)

Compustat 时点信息包

With S&P Capital IQ's Compustat Snapshot North America, the world's first complete North American backtesting database, you can extend the scope of your historical analysis and backtesting models with annual and quarterly data, preliminary source updates, and final source updates. The database allows you to conduct research on a large population of North American companies, seek uncharted sources of alpha, and develop the extra edge you desire to get ahead of your competitors.

Date range:

Point-In-Time Coverage from 1986-present

» [As First Reported - Annual](#)

» [As First Reported - Quarterly](#)

» [Most Recently Restated - Annual](#)

» [Most Recently Restated - Quarterly](#)

» [Names File](#)

» [Point in Time - Annual](#)

» [Point in Time - Quarterly](#)

Compustat 薪酬数据包

Executive compensation data collected directly from each company's annual proxy (DEF14A SEC form)

» [Annual Compensation](#)

» [Deferred Compensation](#)

» [Long Term Incentive Awards - 1992 Format](#)

» [Pension Benefits](#)

» [Stock Option Grants - 1992 Format](#)

» [Company Financial and Director Compensation](#)

» [Director Compensation](#)

» [Outstanding Equity Awards](#)

» [Plan Based Awards](#)



Compustat 数据分类及覆盖

Compustat 数据分类及覆盖

- North America
- Global (Non - North America & Backdata)
- *Bank*
- *Historical Segments*
- *Snapshot*
- *Execucomp*

更新频率

- 每天 Daily

North America

» Financial Ratios (Firm and Industry Lev... 4

» Fundamentals Annual

» Fundamentals Quarterly

» Index Constituents

» Index Fundamentals

» Index Prices

» Industry Specific Annual

» Industry Specific Quarterly

» Pension Annual

» Pension Quarterly

» Ratings

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» Security Monthly

» Segments (Non-Historical)

» Segments (Non-Historical) - Customer

» Simplified Financial Statement Extract

» Supplemental Short Interest File

- Compustat North America 提供美国和加拿大上市公司及已退市公司的基础财务数据，市场交易数据，公司养老金数据，标普指数和标普评级信息
- 数据覆盖 – 49,000多家公司 （截至2021年底）
- 数据更新频率 – 每日更新（Daily）
- 数据历史 -
 - 年度数据可以回溯到1979年，其中有35个科目年度历史数据可回溯到1950年
 - 季度数据提供12年历史，其中35个科目可追溯到1962年
 - 月度交易价格追溯到1962年
- 数据科目
 - 超过300个年度数据科目和100个季度数据科目，覆盖利润表、资产负债表、现金流量表及附注科目

North America & Backdata

- Fundamental Data – Standard, Combine Financial data items to facilitate comparative analysis of companies
- Standardization is authoritative .

» Financial Ratios (Firm and Industry Lev... 4
» Fundamentals Annual
» Fundamentals Quarterly
» Index Constituents
» Index Fundamentals
» Index Prices
» Industry Specific Annual
» Industry Specific Quarterly
» Pension Annual

Global Company	Data Date	Data Year -	Data Format	Ticker Symbol	Earnings Before	Net Income	Revenue - Total
001690	9/30/2010	2010	STD	AAPL	19317	14013	65225
001690	9/30/2011	2011	STD	AAPL	35612	25922	108249
001690	9/30/2012	2012	STD	AAPL	58446	41733	156508
001690	9/30/2013	2013	STD	AAPL	55756	37037	170910
001690	9/30/2014	2014	STD	AAPL	60449	39510	182795
001690	9/30/2015	2015	STD	AAPL	81730	53394	233715
001690	9/30/2016	2016	STD	AAPL	69276	45687	215091
001690	9/30/2017	2017	STD	AAPL	70744	48351	229234
001690	9/30/2018	2018	STD	AAPL	79962	59531	265359
001690	9/30/2019	2019	STD	AAPL	75230	55256	260174
001690	9/30/2020	2020	STD	AAPL	75988	57411	274515
001690	9/30/2021	2021	STD	AAPL	118449	94680	365817
001690	9/30/2022	2022	STD	AAPL	128137	99803	394328

North America

» Financial Ratios (Firm and Industry Lev... 4

» Fundamentals Annual

» Fundamentals Quarterly

» Index Constituents

» Index Fundamentals

» Index Prices

» Industry Specific Annual

» Industry Specific Quarterly

» Pension Annual

• 特殊行业包含

- Airlines

- Gaming

- Healthcare Facilities

- Home Building

- Lodging

- Managed Care

- Mining

- Oil & Gas

- Oil & Gas Refining

- Retail

- Semi-conductors

- Bank & Thrift

North America

» Pension Annual	
» Pension Quarterly	
» Ratings	
» Security Daily	
» Security Monthly	
» Segments (Non-Historical)	
» Segments (Non-Historical) - Customer	

- 养老金：主要披露公司为员工退休后提供的福利，分为退休前的养老金缴存计划和退休后公司提供的福利。
- 缴存计划：由于美国的会计准则变化，数据可追溯的历史不同，但基本都可以追溯到1987左右。
- 退休员工福利：由于美国的会计准则变化，数据可追溯到1993年左右。

North America



- S&P Global在Compustat包内提供免费Market Data辅助研究，历史可以追溯到1990年后。
- 包含交易时间，收盘价格，交易量等常用数据。
- 复权方式 —— 前复权。

North America

» Pension Annual

» Pension Quarterly

» Ratings

» Security Daily

» Security Monthly

» Segments (Non-Historical)

» Segments (Non-Historical) - Customer

企业细分数据： 提供美国和加拿大公司根据不同的业务和区域细分数据

- 数据为年度数据
- 覆盖面一超过 26,600 家公司*
- 数据历史一可回溯到1976（Current数据包提供7年的历史数据）
- 数据来源一企业披露的年报
- Customer一跟据要求，对五家公司进行披露，会有供应链收入量。

North America

- 举例

S&P Global 在2020年年报中披露的各业务部门的销售收入及成本:

Company Name	Segment Ty	Data Date - Segme	Source Date - Se	Segment Name	Net Sales
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2022	Indices	989
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2022	Market Intelligence	2046
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2022	Ratings	3469
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2021	Platts	878
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2021	Market Intelligence	2106
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2020	Corporate	0
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2021	Ratings	3469
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2020	Indices	989
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2020	Ratings	3469
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2020	Market Intelligence	2106
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2020	Platts	878
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2021	Indices	989
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2021	Corporate	0
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2022	Engineering Solutions	0
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2022	Mobility	0
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2022	Commodity Insights	938
S&P GLOBAL INC	BUSSEG	12/31/2020	12/31/2022	Corporate	0
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2022	United States	4504
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2022	Asia	782
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2021	European Region	1769
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2021	United States	4504
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2020	European Region	1769
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2020	Asia	782
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2021	Asia	782
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2021	Rest of the world	387
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2020	Rest of the world	387
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2020	United States	4504
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2022	Rest of the world	387
S&P GLOBAL INC	GEOSEG	12/31/2020	12/31/2022	European Region	1769

Global data

» Fundamentals Annual

» Fundamentals Quarterly

» Index Constituents

» Index Prices

» Security Daily

- **Compustat全球数据**收录北美以外的其他区域公司，包含基础财务数据及市场交易数据
- **数据调整:** Compustat Global数据是经过标准化设定的，以便在不同国家和不同会计准则下面做比较
- **数据覆盖:** 超过6,000万家公司，占全世界市值的90%以上*
- **历史:**
 - 年度基础财务数据可追溯到1979年
 - 季度基础财务数据可追溯到2003年第四季度
 - 每天交易价格可追溯到1989年

Bank

Bank

Granular regulatory financial data for 16,000+ operating and 29,000+ global historical holding companies, banks, and credit unions

» [Bank Fundamentals Annual](#)

» [Bank Fundamentals Quarterly](#)

- 银行数据包主要收集年度及季度在SEC披露的三大报表的数据
- 年度数据可追溯到1959年
- 季度数据可追溯到1962年
- 数据包中包含北美银行和有存贷业务的机构，用SIC或GICS来筛选公司，大概2000家银行
- 数据科目近1000个左右

举例 – Bank of America 2010-2022 年度数据

Industry Format	Data Format	Data Year - Fiscal	Data Date	Ticker Symbol	Company Name	Net Interest	Net Interest Income Less	Provision for Loan
BANK	STD	2010	12/31/2010	BAC	BANK OF AMERICA CORP	51523	23088	28435
BANK	STD	2011	12/31/2011	BAC	BANK OF AMERICA CORP	44616	31206	13410
BANK	STD	2012	12/31/2012	BAC	BANK OF AMERICA CORP	40656	32487	8169
BANK	STD	2013	12/31/2013	BAC	BANK OF AMERICA CORP	42265	38709	3556
BANK	STD	2014	12/31/2014	BAC	BANK OF AMERICA CORP	39952	37677	2275
BANK	STD	2015	12/31/2015	BAC	BANK OF AMERICA CORP	39251	36090	3161
BANK	STD	2016	12/31/2016	BAC	BANK OF AMERICA CORP	41096	37499	3597
BANK	STD	2017	12/31/2017	BAC	BANK OF AMERICA CORP	44667	41271	3396
BANK	STD	2018	12/31/2018	BAC	BANK OF AMERICA CORP	47432	44150	3282
BANK	STD	2019	12/31/2019	BAC	BANK OF AMERICA CORP	48891	45301	3590
BANK	STD	2020	12/31/2020	BAC	BANK OF AMERICA CORP	43360	32040	11320
BANK	STD	2021	12/31/2021	BAC	BANK OF AMERICA CORP	42934	47528	-4594
BANK	STD	2022	12/31/2022	BAC	BANK OF AMERICA CORP	52462	49919	2543

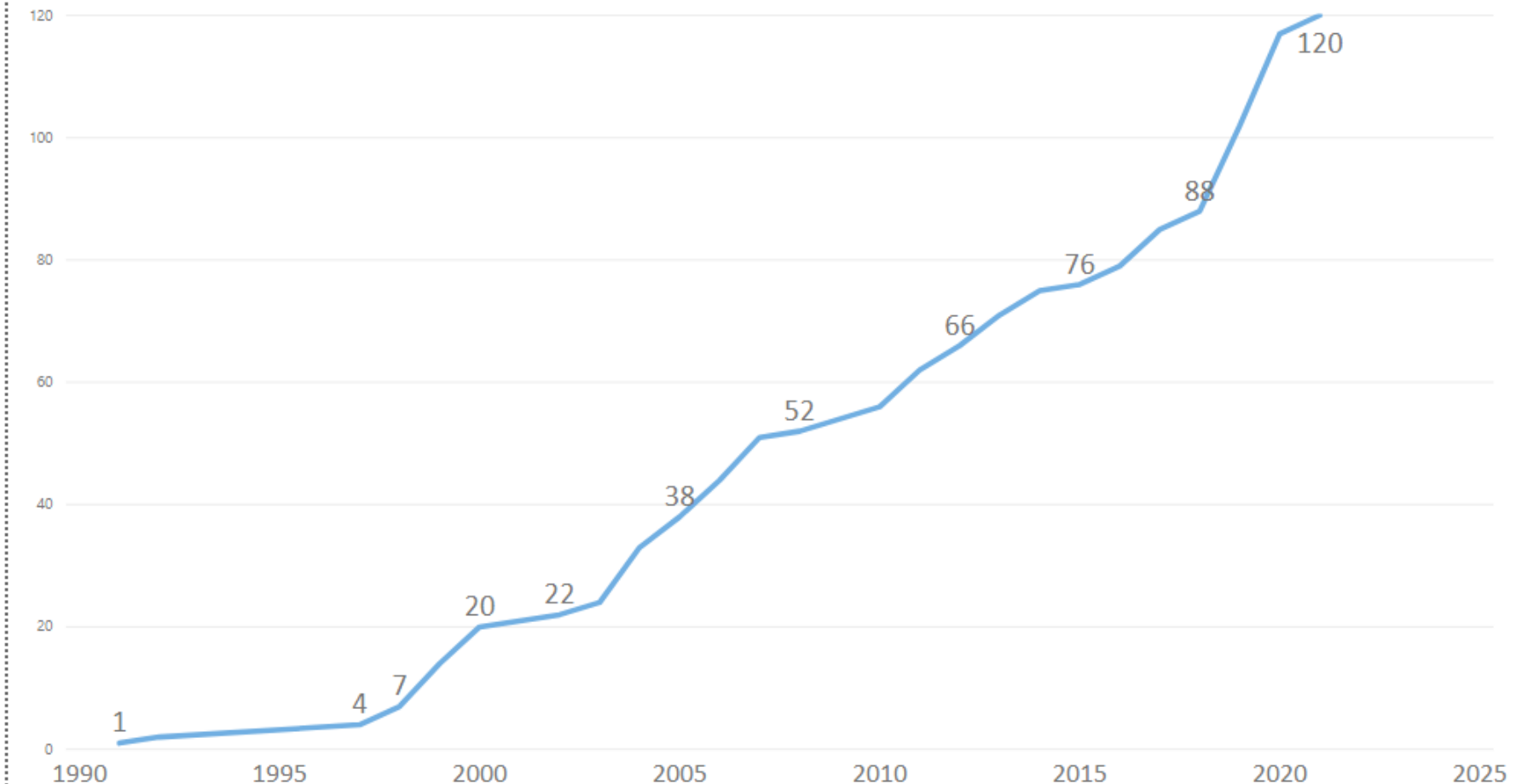
- Net Interest Income (NIINT) 利息收入
- Provision For Loan Losses (PCLC) 贷款损失准备
- Net Interest Income after provision for loan loss (NI IPL) 净利息收入

数据库的应用

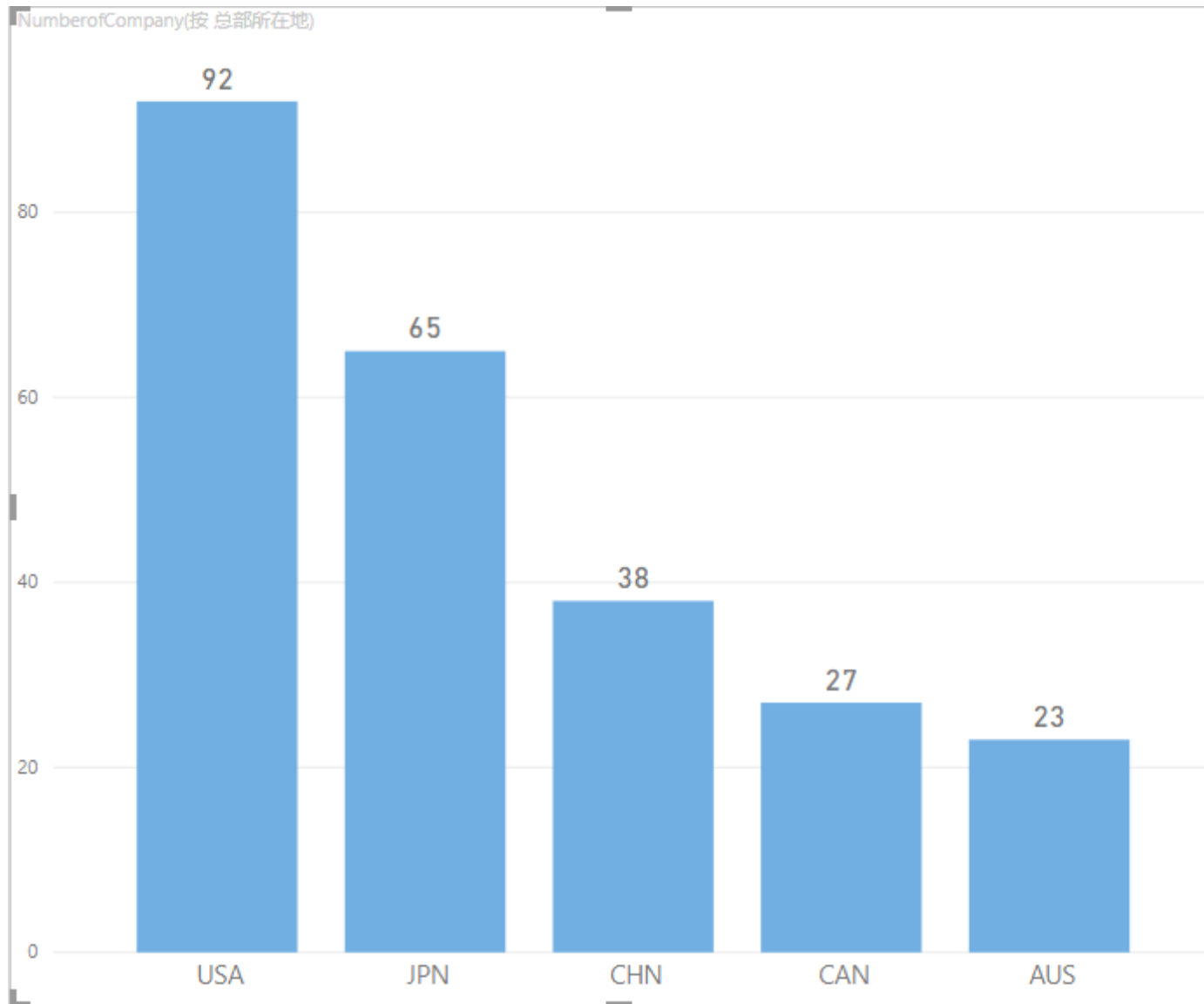
- 学术机构应用：根据研究课题和方向，对历史数据批量导出，制作文献，发布期刊
- 投行的一般应用：
 - 行业的分析：以GICS子行业分类的Interactive Media & Services（50203010）这些高科技企业在今年发展迅速，且中国公司的比例在慢慢加大。
 - 公司的盈利情况，基本面的信息，预测公司的发展状况
- 基金公司的应用：量化分析，主被动投资。Compustat和CIQ的数据也可用于量化投资，根据对市场的研究，制定自己的量化因子，通过数据库做回测，并在回测中调整自己的投资策略。
- 四大会计师事务所：行业分析，并购策略，Compustat和CIQ数据库也关注与国际税收，转让定价这部分的数据。
- 批量转发应用：Online Brokers（富途，老虎，券商软件）

GICS: 50203010

历史累计值(按 IPOYear)



IPO Market



Company Market Cap.

Tencent

腾讯市值



Academia Use case

THE ACCOUNTING REVIEW
Vol. LII, No. 3
July 1977

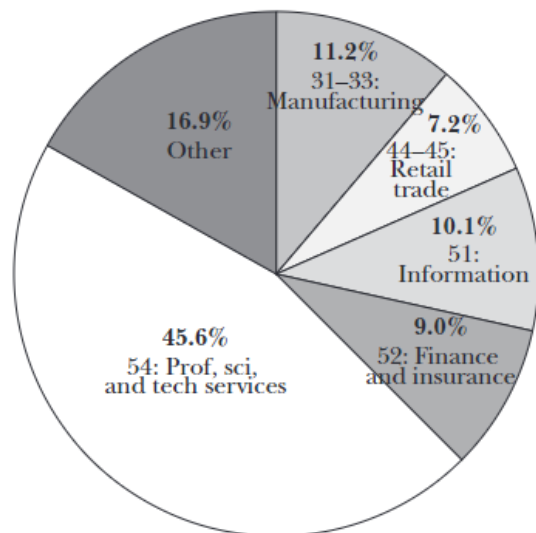
The Reliability of R&D Data in COMPUSTAT and 10-K Reports

Joseph G. San Miguel

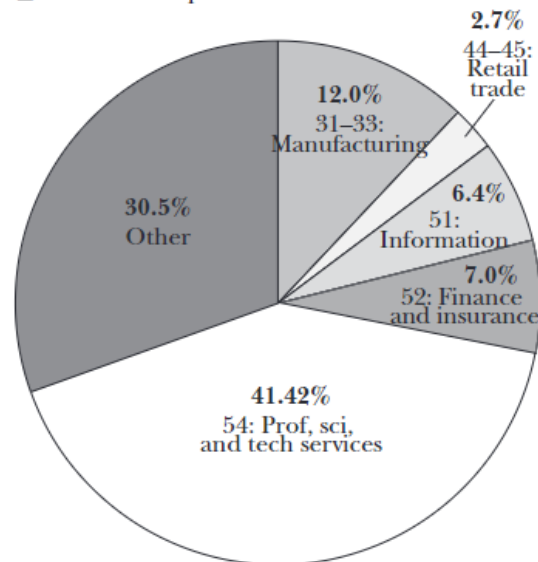
ABSTRACT: The purpose of this paper is to report on the findings from a study that compared the research and development information in COMPUSTAT with the information contained in Form 10-K reports to the Securities and Exchange Commission. The comparisons indicated that numerous, and sometimes significant, inaccuracies existed between the two widely used sources of financial information. Also, in a number of cases, the information disclosed in 10-K reports was deficient in explaining the differences. Although this investigation was limited to a specific item of financial data for a single period, there are a number of implications for researchers planning to make use of computerized data bases and for those responsible for evaluating their research. To overcome the potential errors in financial information gathered for research purposes, several recommendations are discussed.

Academia Use case

issued petitions in FY2022



≥1 H-1B issued petition in FY2022



Source: USCIS H-1B Employer Data Hub (<https://www.uscis.gov/tools/reports-and-studies/h-1b-employer-data-hub>). Underlying data are simple aggregated counts over industry.

Note: Panel A indicates the share of total H-1B petitions in fiscal year 2022 in each industry category. Nearly half of all H-1B petitions in that year were in Professional, Scientific, and Technical Services. Panel B indicates the share of firms with at least one H-1B petition in fiscal year 2022 in each industry category.

other authors have utilized linkages between H-1B data and other datasets to produce some basic facts about how H-1B employers differ from other firms. For instance, Mayda et al. (2020) show, using a **Compustat linkage**, that H-1B employers spend 37 times more on research and development expenditures and have 5.7 times more employees than the average non-H-1B employer. H-1B employers also appear to be higher-growth companies. Doran, Gelber, and Isen (2022), using a linkage to IRS data, similarly find that H-1B firms are larger, more profitable, and have more patents.



Compustat 数据基础构成

Compustat 数据基础构成

- **Compustat 数据：**
 - **公司层面数据 (gvkey)**
 - 季度财务数据
 - 年度财务数据
 - **股票层面数据 (gvkey和i id)**
 - 股票的价格数据
 - 股本及交易量
 - 拆分及分红信息
 - **指数层面数据 (gvkeyx)**
 - 指数成分股
 - 指数价格

公司层面数据抓取步骤

Compustat Daily Updates - Fundamentals Annual

Step 1: Choose your date range.

Date Variable:

Data Date

2010-01

to

2023-04

Step 2: Apply your company codes.

What format are your company codes?

☒ TIC ☐ GVKEY ☐ CUSIP ☐ SIC ☐ CIK ☐ NAICS ☐ GIC Sub-Industry

Screening Variables (Select at least one per line)

Several screening variables are pre-selected to produce one record per GVKEY-DATADATE pair, while keeping the vast majority of records. Examples of excluded rows include those with restated data, different views of the same data (pro forma, pre-FASB).

You can click on the choices to view additional help for each selection.

Consolidation Level

☒ C
☐ N
☐ R
☐ P
☐ D

Industry Format

☒ INDL
☒ FS

Data Format

☒ STD
☐ SUMM_STD
☐ PRE_AMENDS
☐ PRE_AMENDSS

Population Source

☒ D
☐ I

Currency

☒ USD
☒ CAD

Company Status

☒ Active (A)
☒ Inactive (I)

Step 3: Choose variable types.

Select Variable Types

☒ Data Items
☐ Footnotes
☐ Data Codes

How does this work?

Search All 0/974

Identifying Information 0/8

Identifying Information, cont. 0/34

Com

Select ☒ All

Selected ☐ Clear All (0)

Search All

☐ GVKEY -- Global Company Key (GVKEY) ?

☐ Company Name (CONIM) ?

☐ Ticker Symbol (TIC) ?

☐ CUSIP (CUSIP) ?

☐ CIK Number (CIK) ?

☐ Stock Exchange Code (EXCHG) ?

Step 4: Select query output.

How does this work?

Select the desired format of the output file. For large data requests, select a compression type to expedite downloads. If you enter your email address, you will receive an email that contains a URL to the output file when the data request is finished processing.

Output Format

☒ comma-delimited text (*.csv)
☐ Excel spreadsheet (*.xlsx)
☐ tab-delimited text (*.txt)
☐ HTML table (*.htm)
☐ SAS Windows_64 dataset (*.sas7bdat)
☐ STATA file (*.dta)

Compression Type

☒ Uncompressed
☐ zip (*.zip)
☐ gzip (*.gz)

Date Format

☒ YYYY-MM-DD. (e.g. 1984-07-25)
☐ MM/DD/YYYY. (e.g. 07/25/1984)
☐ DD/MM/YYYY. (e.g. 25/07/1984)

E-Mail Address (Optional)

Custom Field (Optional)

E-mail

Edit Preferences

Custom Field

?

Save This Query (Optional)

Notes on this Query (Optional)

☐ Saved Query Name

?

Saved Query Notes

Submit Form

公司层面数据抓取详解

几个主要制定报告的科目：

- **Data Date**: 数据时间，选定周期，或者某单一年份
- **GVKEY**: CIO赋予所有公司唯一识别码(退市, 并购有效)；或使用**TIC**, **CUSIP**, **SIC**等
- **Consolidation**: 描述报告是母公司数据还是与子公司合并的数据
 - **C**: 表示合并报告，母公司和子公司合计账户
 - **N**: 母公司和子公司分开报告
 - **I**: Issue Level； **P**: Pre-FASB 88年《财务会计准则94》生效前；
 - **D**: Pre-Divestiture 拆分前的子公司报告； **R**: Pro-Forma 当对财务有重大行为，代理声明报告
- **Industrial Format**: 表示公司是金融类(FS)或者工业类(INDL)
- **Data Format**: 表示数据收集及呈现的格式
 - 北美公司: **STD** 标准化； **SUMM_STD** 标准化汇总数据，
 - 非北美公司: **HIST_STD** 从公司原始档案中抓取一般是首次报告； **RST_STD** 从公司后期文件中收集
- **Population Source**: 表示样本的来源 本土(D) 还是国外 (I)
 - **D**: 表示美国、加拿大公司和 ADRs
 - **I**: 表示北美以外的公司
- **Currency**: 货币
- **Company Status**: 公司状态 是否包含退市等

脚注（Footnote）

Compustat 数据的一个重要组成部分

用字母来表示财务数据的收集情况

常用脚注解释：

- AC 由于会计准则变化，财务数据做出了调整
- AA 当年数据受到并购影响
- **BD 销货成本COGS调整了折旧和摊销（不包含）**
- GB 资产负债表中的科目没有细分
- IC 数据科目中包含从长期负债披露中获得的流动负债

举例：

Global Com	Data Date	Data Year - F	Industr	Level	Pop	Data Format	Ticker Sym	Company Nam	ISO Curre	Revenue - T	Active/I	Current IS	Retained I
001690	9/30/2010	2010	INDL	C	D	STD	AAPL	APPLE INC	USD	65225	A	USA	
001690	9/30/2010	2010	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2011	2011	INDL	C	D	STD	AAPL	APPLE INC	USD	108249	A	USA	
001690	9/30/2011	2011	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2012	2012	INDL	C	D	STD	AAPL	APPLE INC	USD	156508	A	USA	AA
001690	9/30/2012	2012	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2013	2013	INDL	C	D	STD	AAPL	APPLE INC	USD	170910	A	USA	AA
001690	9/30/2013	2013	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2014	2014	INDL	C	D	STD	AAPL	APPLE INC	USD	182795	A	USA	AA
001690	9/30/2014	2014	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2015	2015	INDL	C	D	STD	AAPL	APPLE INC	USD	233715	A	USA	
001690	9/30/2015	2015	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2016	2016	INDL	C	D	STD	AAPL	APPLE INC	USD	215091	A	USA	
001690	9/30/2016	2016	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2017	2017	INDL	C	D	STD	AAPL	APPLE INC	USD	229234	A	USA	
001690	9/30/2017	2017	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2018	2018	INDL	C	D	STD	AAPL	APPLE INC	USD	265359	A	USA	
001690	9/30/2018	2018	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2019	2019	INDL	C	D	STD	AAPL	APPLE INC	USD	260174	A	USA	
001690	9/30/2019	2019	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2020	2020	INDL	C	D	STD	AAPL	APPLE INC	USD	274515	A	USA	
001690	9/30/2020	2020	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2021	2021	INDL	C	D	STD	AAPL	APPLE INC	USD	365817	A	USA	
001690	9/30/2021	2021	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
001690	9/30/2022	2022	INDL	C	D	STD	AAPL	APPLE INC	USD	394328	A	USA	
001690	9/30/2022	2022	INDL	C	D	SUMM_STD	AAPL	APPLE INC	USD		A	USA	
006066	12/31/2010	2010	INDL	C	D	STD	IBM	INTL BUSINESS	USD	99871	A	USA	AA
006066	12/31/2010	2010	INDL	C	D	SUMM_STD	IBM	INTL BUSINESS	USD		A	USA	
006066	12/31/2011	2011	INDL	C	D	STD	IBM	INTL BUSINESS	USD	106916	A	USA	AA

S&P Global

Market Intelligence

客户服务

客户服务

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电话: +86 010 6569 2985

中文客服周一至周五, 早8:30到晚17:30

英文客服24小时 X 7天

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冷吉亮 Leon Leng: leon.leng@spglobal.com

13716263681

A collection of approximately 20 hexagons in various colors (dark grey, light grey, red, teal, dark green, light blue) scattered across the slide, some appearing as faint outlines and others as solid shapes.

谢谢！
Thank you !