



TEJ PRO Quick Start Guides

1

- Download, install, log in (Intranet & internet)

2

- Introduction to TEJ Database directory

3

- TEJ Main + Introduction to TEJ Program

4

- Review mode (individual stock, multiple stocks, single item comparison)

5

- Criteria setting (company groups, field groups, advanced date)

6

- Export saved information

7

- Auxiliary functions (drawing, technical manualm study related articles)

Download, Install, Contact information

Step 1 : <https://>

Step 2 : Download TEJ program

Step 3 : Apply for registration

Step 4 : Log in

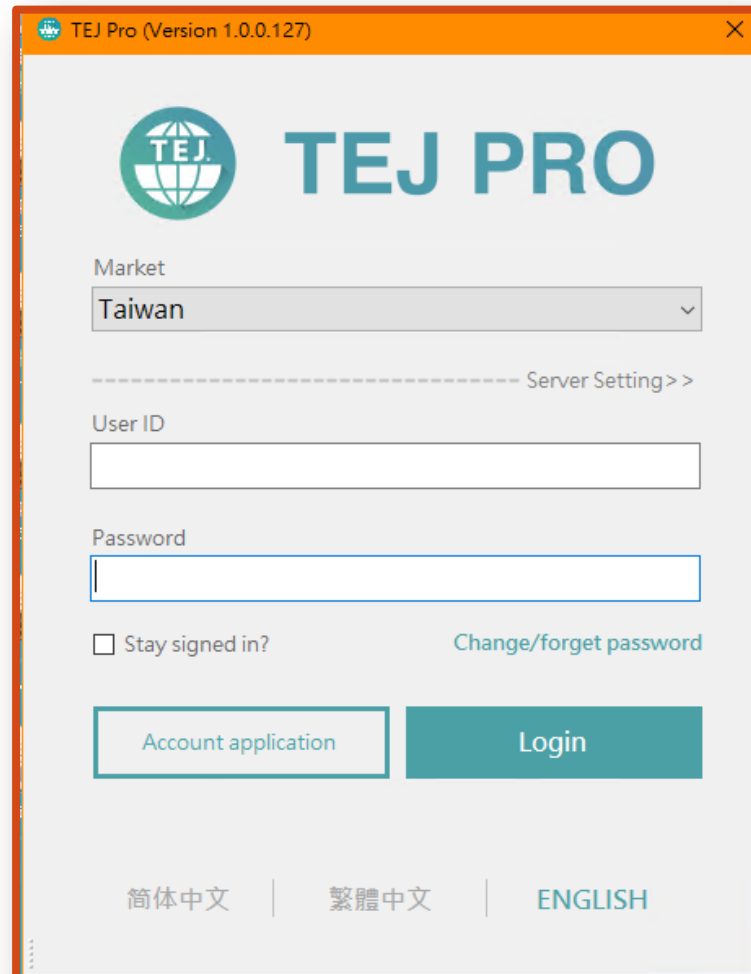
If you have any technical questions about our services, please feel free to call TEJ business department at (02)8768-1088#120 or email us at tej@tej.com.tw.

Log in : Click Desk Shortcut



Intranet

Enter account and password and click log in.

A screenshot of the TEJ Pro login window. The window title is 'TEJ Pro (Version 1.0.0.127)'. The interface includes the TEJ logo and 'TEJ PRO' text. There is a 'Market' dropdown menu set to 'Taiwan'. Below this is a 'Server Setting >>' link. The 'User ID' field is empty. The 'Password' field is empty. There is a checkbox for 'Stay signed in?' and a link for 'Change/forget password'. At the bottom, there are two buttons: 'Account application' and 'Login'. The footer shows language options: '简体中文', '繁體中文', and 'ENGLISH'.

Main Menu: DB Categories (I)

TEJ Profile

- Macroeconomics, raw material, exchange rate, interests, etc

TEJ Company

- Company monthly revenues/earnings, sales breakdown, board members, capital formation, long term and short term investment, borrowings, etc.

TEJ IFRS Finance

- The financial Statements of Taiwan's listed and GRETAI listed Companies' adhere to the financial statements released by International Financial Reporting Standards (IFRS), the financial disclosures begin on or after 1 January 2013 and can be referred back to as early as 2012.

Banking Industry- Balance Sheet detail of Assets/Liability

- The regulatory capital, assets quality, regulatory capital detail, capital adequacy ratio, etc. of the financial industry.

TEJ Financial Holding Zone

- Including the monthly revenue, sales breakdown, reinvestment and financial statements of the financial holding companies and its subsidiaries.

TEJ Equity

- Securities market DB, including stock price, deal on credit (margin purchase and short sale), foreign institutional investors, security deposited in central depository, and etc.

Main Menu: DB Categories (II)

Financial Derivatives

- Basic information and day trading data for Warrants, Callable Bull-Bear Contracts, Futures and Options.

Market Multifactor

- Based on calculation of the Multi-Factor Model of Fama & French, it provides 8 factors analysis, including Market Risk Premium, Size Premium, BE/ME Ratio Premium, and etc.

TEJ Audit Quality

- Required variants that affect and evaluate the audit quality and accountancy firms' information are included.

TEJ Company Governance

- Formed by public corporations, controlling shareholding, deviation, structure of directors and supervisors, directors and supervisors' salaries and independent director and supervisor, and etc.

Main Menu: DB Categories (Ⅲ)

TEJ FUND

- Fund DB, including fund attributes, net worth, shareholding by week/month, ratings, turnover ratio, news and etc.

TEJ BOND

- Domestic Bond, Corporation Bond, Convertible Bond and ECB information materials.

TEJ PUB

- Database for public companies, including financial reports and ratio, stock price, shareholding by board of directors, monthly revenue, capital formation and etc.

TEJ Bank

- Financial institute DB of business sub-items, including bank deposits analysis, bank loans analysis and etc °

Introduction of Main Menu

I-Search

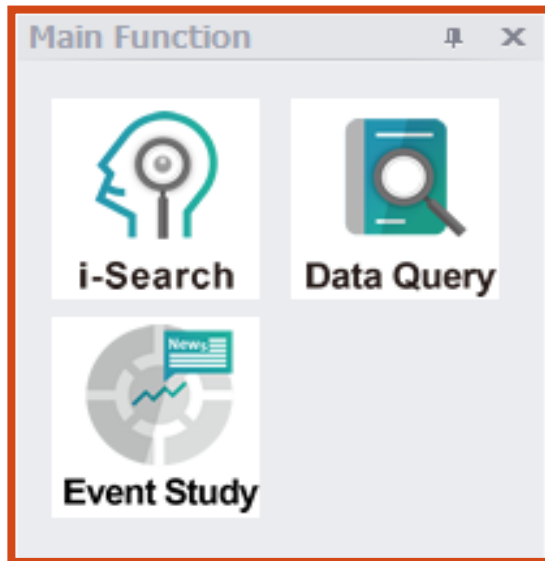
- Database query for company code and fields; often used in unspecified database or unclear data location

Data Query

- Enter the required database to search for data based on company and column

Event Study

- Event Study aims to **examine abnormal returns through statistics**, as well as to confirm if a certain event **affects the company's stock price** in which proves if there is a correlation between stock price fluctuation and this event.



Home screen & Introductions to common features

Export data **Criteria setting** **Review mode**

The screenshot displays the TEJ Pro (Version 1.0.0.128) interface. The top menu bar includes options like Edit, View, Setting, Search, Option, Interface, Technique Document, E-Learning, and Contact us. Below this is a toolbar with icons for Transfer Data, Exprot, ID, Field, Single, Rank, Anti, X/Y, Darw, Zoom+, Zoom-, Financial, Conference, More, and K Chart. The left sidebar shows the Main Menu with Country filters (TW, CN, HK) and a search bar. The main content area displays a table titled 'Monthly Sales & Earnings' for '2.TSEC' and '1101 Taiwan Cement'. The table includes columns for YYMM and various monthly sales and earnings metrics. A 'Main menu of DB' label points to the left sidebar, and a 'View window' label points to the data table.

Main menu of DB

View window

	YYMM	2021/10	2021/09	2021/08	2021/07	2021/06
1	Announcement Date - S...	2021/11/10	2021/10/12	2021/09/10	2021/08/10	2021/07/09
2	Sale-Monthly	9,565,047	9,597,804	8,964,476	8,319,971	8,480,821
3	Sale-Monthly, Last Year				9,391,351	9,288,320
4	YoY%-Monthly Sale				-11.41	-8.69
5	MoM%-Monthly Sale	-0.34	7.06	7.75	-1.90	-13.75
6	Months of MoM%-Mont...	-1	2	1	-2	-1
7	Sale-Accumulated	86,470,663	76,905,616	67,307,812	58,343,336	50,023,365
8	Sale-Accu., L.Y.	85,900,494	76,433,746	67,398,791	58,192,203	48,800,852
9	YoY%-Acc. Sales	0.66	0.62	-0.13	0.26	2.51

Review Mode (I) : Single Company (individual stock)

Single



1. Individual stock overview (X Axis : field; Y Axis : time)

IFRS_TEJ Consolidated First(Acc)-ALL							
2.TSEC		1234 Hey-Song		ALL			
Database Information		Data Range					
	YYYY/MM	Quarter	consolidation	Month	Currency	Total cash and cash equivalents	Total current financial assets at fair value...
1	2021/09	3	Y	09	NTD	976,339	50,081
2	2021/06	2	Y	06	NTD	1,503,649	150,087
3	2021/03	1	Y	03	NTD	1,357,078	150,061
4	2020/12	4	Y	12	NTD	1,273,440	180,057
5	2020/09	3	Y	09	NTD	1,214,667	120,052
6	2020/06	2	Y	06	NTD	1,369,005	100,064
7	2020/03	1	Y	03	NTD	1,384,659	60,301
8	2019/12	4	Y	12	NTD	1,222,983	120,235
9	2019/09	3	Y	09	NTD	1,248,596	20,227
10	2019/06	2	Y	06	NTD	1,310,082	100,488
11	2019/03	1	Y	03	NTD	1,248,052	0
12	2018/12	4	Y	12	NTD	1,275,854	100,036
13	2018/09	3	Y	09	NTD	1,217,232	145,847
14	2018/06	2	Y	06	NTD	1,568,803	357,642
15	2018/03	1	Y	03	NTD	1,493,186	347,352
16	2017/12	4	Y	12	NTD	1,283,278	0
17	2017/09	3	Y	09	NTD	1,335,378	0
18	2017/06	2	Y	06	NTD	2,288,590	0
19	2017/03	1	Y	03	NTD	2,351,965	0
20	2016/12	4	Y	12	NTD	2,266,406	0
21	2016/09	3	Y	09	NTD	2,239,555	0
22	2016/06	2	Y	06	NTD	2,932,489	0
23	2016/03	1	Y	03	NTD	2,853,609	0
24	2015/12	4	Y	12	NTD	3,377,050	0
25	2015/09	3	Y	09	NTD	3,610,098	0

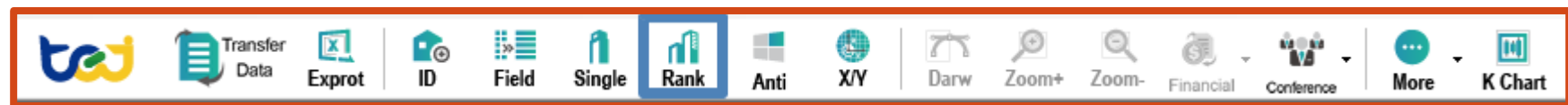
2. Cross-period comparisons (X Axis : field; Y Axis : time)

IFRS_TEJ Consolidated First(Acc)-ALL						
2.TSEC		1234 Hey-Song		ALL		
Database Information		Data Range				
	YYYY/MM	2021/09	2021/06	2021/03	2020/12	
1	Quarter	3	2	1	4	
2	consolidation	Y	Y	Y	Y	
3	Month	09	06	03	12	
4	Currency	NTD	NTD	NTD	NTD	
5	Total cash and cash equivalents	976,339	1,503,649	1,357,078	1,273,440	
6	Total current financial assets at fair value through profit or loss	50,081	150,087	150,061	180,057	
7	Financial assets at fair value through other comprehensive in...	0	0	0	0	
8	Financial assets measured at amortized cost - Current	163,700	35,000	0	0	
9	Current financial assets for hedging	0	0	0	0	
10	Current contract assets	0	0	0	0	
11	Accounts & notes receivable	996,545	846,809	751,339	662,967	
12	Other receivable	31,171	39,618	5,985	81,873	
13	Loan to others - Short-Term	0	0	0	0	
14	Total inventories	5,351,742	5,320,731	5,252,165	5,041,712	
15	Non-current assets classified as held for sale, net	0	0	0	0	
16	Total current tax assets	0	0	0	0	
17	Total current assets	7,751,522	8,047,791	7,628,011	7,302,068	
18	Total non-current financial assets at fair value through profit o...	658	658	658	658	
19	Financial assets at fair value through other comprehensive in...	0	0	0	0	
20	Financial assets measured at amortized cost - Non-Current	216,653	19,800	0	0	
21	Non-current financial assets for hedging	0	0	0	0	
22	Non-current contract assets	0	0	0	0	
23	Investments accounted for using equity method, net	790,210	645,135	730,992	735,732	

Review Mode (II) : Multiple Company (multiple stock)



- For example, searching for 1101, 1102 and 1103 financial information from 2020Q2.



1. Ranking

(X Axis : field; Y Axis : company)

IFRS_TEJ Consolidated First(Acc)-ALL

2.TSEC

Balance Sheet

Database Information

	COID	Name	YYYY/MM	Total cash and cash equivalents	Total current financial assets at fair value...
1	1101	Taiwan Cement	2020/06	59,005,748	492,238
2	1102	Asia Cement	2020/06	20,375,076	5,254,285
3	1103	Chia Hsin Cement	2020/06	2,910,925	1,442,992
4	1104	Universal Cement	2020/06	289,140	426
5	1108	Lucky Cement	2020/06	298,872	15,297
6	1109	Hsing Ta Cement	2020/06	1,544,564	996,962
7	1110	Tuna Cement	2020/06	212,808	222,707
8	1201	Wei Chuan Foods	2020/06	1,819,296	0
9	1203	Ve Wong	2020/06	1,535,103	0
10	1210	Great Wall	2020/06	3,995,821	7,421
11	1213	Oceanic Beverages	2020/06	40,238	0
12	1215	Charoen Pokphand	2020/06	318,554	0
13	1216	Uni-President	2020/06	84,769,967	9,089,380
14	1217	AGV Products	2020/06	380,089	31,984
15	1218	Taisun Enterprise	2020/06	567,429	79,926
16	1219	Fwsow Industry	2020/06	1,149,033	9,433
17	1220	Tairoun Products	2020/06	504,664	158,118
18	1225	Formosa Oilseed	2020/06	796,069	0
19	1227	Standard Foods	2020/06	3,603,366	1,513,865

2.



Cross-period comparisons
(X Axis : field; Y Axis : time)

IFRS_TEJ Consolidated First(Acc)-ALL					
2.TSEC		Balance Sheet			
Database Information					
	COID	1101	1102	1103	1104
1	Name	Taiwan Cem...	Asia Cement	Chia Hsin C...	Universal Ce...
2	YYYY/MM	2020/06	2020/06	2020/06	2020/06
3	Total cash and cash equivalents	59,005,748	20,375,076	2,910,925	289,140
4	Total current financial assets at fair value through profit or loss	492,238	5,254,285	1,442,992	426
5	Financial assets at fair value through other comprehensive in...	5,392,561	4,706,162	2,556,799	2,091,020
6	Financial assets measured at amortized cost - Current	15,741,435	33,290,406	2,936,410	71,467
7	Current financial assets for hedging	0	0	0	0
8	Current contract assets	0	61,620	0	11,708
9	Accounts & notes receivable	31,363,082	15,351,005	206,559	1,216,807
10	Other receivable	1,785,243	4,314,225	111,052	489,752
11	Loan to others - Short-Term	0	0	53,232	0
12	Total inventories	8,164,930	7,600,004	33,077	340,377
13	Non-current assets classified as held for sale, net	0	0	0	0
14	Total current tax assets	0	6,782	1,624	32
15	Total current assets	125,133,183	92,590,336	10,357,336	4,548,713
16	Total non-current financial assets at fair value through profit o...	0	0	0	0
17	Financial assets at fair value through other comprehensive in...	33,944,686	10,521,536	10,272,060	1,398,288
18	Financial assets measured at amortized cost - Non-Current	18,259,429	67,101	23,769	40,540
19	Non-current financial assets for hedging	0	0	0	0
20	Non-current contract assets	0	0	0	0

Review Mode(Ⅲ) : Variant for Single Field



- For example, searching for Net Sales for Catcher Technology, HTC, Largan Precision Co. and F-TPK in 2020/09-2021/09.



- Variant for Single Field (X Axis : company; Y Axis : field)

IFRS_TEJ Consolidated First(Acc)-ALL

Specify code

--

Total cash and cash equivalents

Database Information

	COID	Name	2020/09	2020/12	2021/03	2021/06	2021/09	
1	2474	Catcher	91,164,580	111,882,984	20,657,328	27,475,644	21,413,922	
2	2498	HTC	16,262,329	16,375,830	21,012,960	20,441,168	20,559,676	
3	3008	Largan	81,426,850	89,621,270	96,008,216	91,752,710	85,476,870	
4	3673	TPK	27,772,520	22,603,448	32,128,372	28,635,046	30,658,616	

Criteria Setting (I): Company Sample



- For example, set up Electronic Components Industry



Step 1 : Select Category.

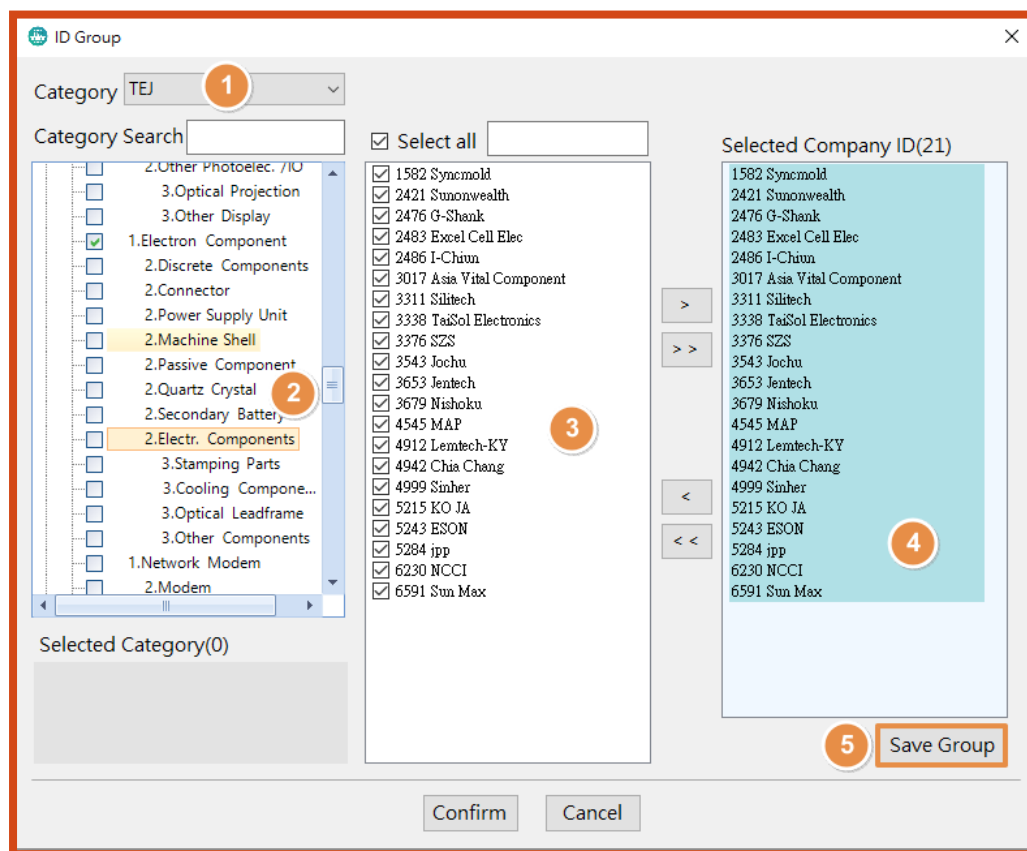
Step 2 : Select industry.

Step 3 : Move the desired company to the selected ID list on the right side.

Step 4 : Name the group.

Step 5 : Click “Save Group” to save the file.

- Note: Industry Categories are based on the classification of the Taiwan Stock Exchange. Some industries with an underline in front would be the sub-category further classified by TEJ, such as _PC System, _Motherboard, etc.



Criteria Setting (II): Field Variants



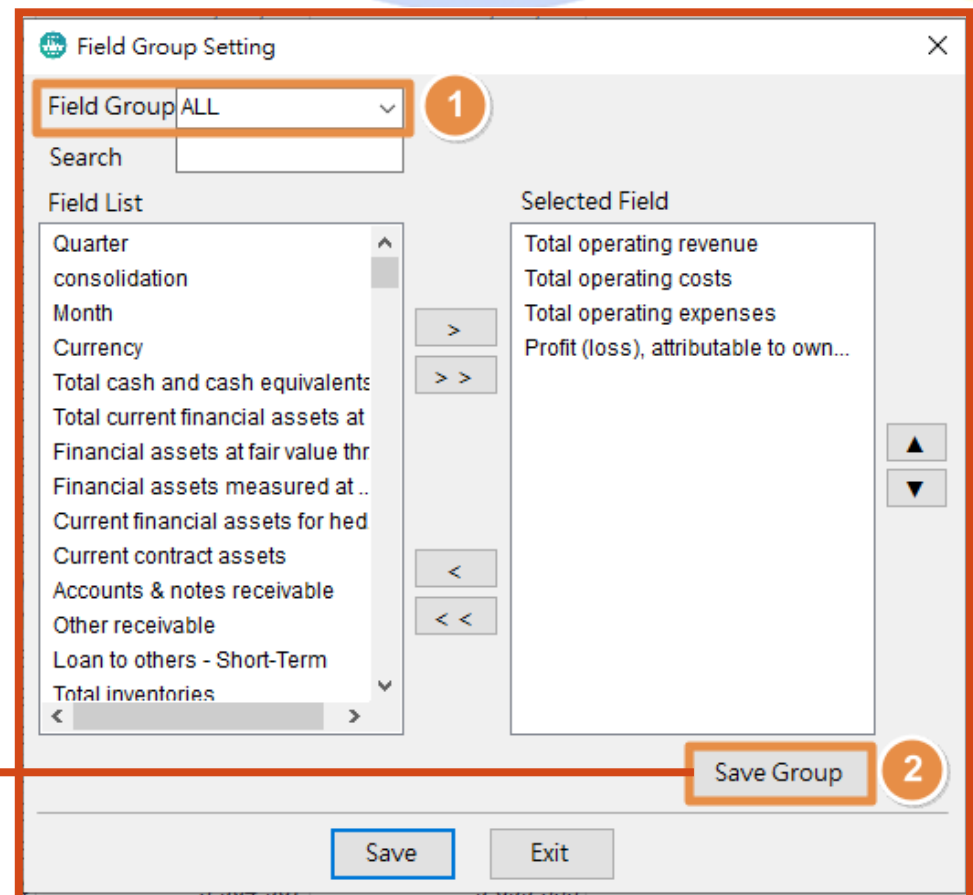
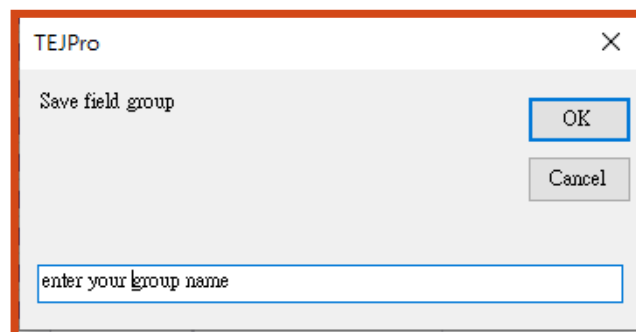
- For example, set up “revenue, cost, expense, net income” subjects



Step 1 : Use “Field Group” and “Search” to look for the desired field and move the “Field List” to the right side.

Step 2 : Enter a catchy name in group field name for future reference.

Step 3 : Click “OK”.



Criteria Setting (Ⅲ) : Date_1

- For example, set up the date by the year-end date of 2005-2011.

TEJ Web [x] IFRS_TEJ Consolidated First(Acc)-ALL [x]

1.TSECGreTai [v] ALL [v]

Database Information

COID	1101	1102	1103	1213	1216	17
------	------	------	------	------	------	----

last1 [v] last1 [v]

Previous Next

202109-999999

202109

Step1 : Enter

Method 1 : last 1 → the latest date

Method 2 : 202006-999999 → Range date

Method 3 : 202006 → Fixed date

Method 4 : 201806,201906,202006 →

Multiple Specified date

Step2 : Quick Setting

Click “Previous” or “Next” to quick setting date.

TEJ Web [x] IFRS_TEJ Consolidated First(Acc)-ALL [x]

1.TSECGreTai [v] 1101 Taiwan Cement [v] Balance Sheet

Database Information Data Range


	YYYY/...	Total cash and cash equivalents	Total current financial assets at fair value...	Financial assets at fair value through other...
1	2005/06	10,711,519	3,956,662	1,840,899
2	2005/12	10,873,922	3,090,216	4,378,148
3	2006/06	15,066,623	4,085,170	9,977,665
4	2006/12	8,115,728	3,212,981	13,347,063
5	2007/06	11,922,113	5,433,838	19,418,434
6	2007/12	9,817,626	6,853,832	21,701,212
7	2008/03	12,423,117	6,501,152	17,958,792
8	2008/06	11,760,556	6,431,449	15,729,671
9	2008/09	10,615,331	2,669,598	9,368,900
10	2008/12	13,033,535	2,610,569	9,002,525
11	2009/03	14,200,950	3,299,730	10,360,744
12	2009/06	11,831,514	3,379,097	12,288,981
13	2009/09	13,825,223	2,958,600	13,069,015
14	2009/12	16,426,107	3,046,095	12,788,960
15	2010/03	17,568,054	2,986,592	12,535,727
16	2010/06	16,624,092	2,019,915	11,432,722
17	2010/09	12,836,138	2,547,369	15,745,490
18	2010/12	32,706,814	4,636,964	15,893,896
19	2011/03	21,429,405	5,122,001	19,424,885
20	2011/06	20,097,071	4,731,032	21,068,332
21	2011/09	17,017,573	3,154,646	14,263,649
22	2011/12	22,140,268	3,152,664	13,721,102

Criteria Setting (Ⅲ) : Date_2

- Select “Advance Date Option”



TEJ Web x IFRS_TEJ Consolidated First(Acc)-ALL x

1.TSECGreTai v 1101 Taiwan Cement v Balance Sheet v 201812,201912,20212 v 

Database Information Data Range

1.Last 1 :

Select “Last(Default)” or “Last-Actual Date”, display the latest data format.

2.Cycle switching :

Enter date interval and Select frequency.

Advance Date Option

Last1 Cycle switching

☒ Last(Default)
No data show "-"

Date	Sales
2018/06	121,320
2018/06	-
2018/06	407,320
2018/06	-
2018/06	852,320

☐ Last-Actual Date
Show actual date data

Date	Sales
2018/06	121,320
2018/05	451,320
2018/06	407,320
2018/05	321,320
2018/06	852,320

Confirm Cancele

Criteria Setting (Ⅲ) : Date_3

- For example, set up the date by the year-end date of 2015-2019.

TEJ Web x IFRS_TEJ Consolidated First(Acc)-ALL x

1.TSECGreTai 1101 Taiwan Cement Balance Sheet 201812,201912,20212

Database Information Data Range

- Cycle switching**

- Step 1** : Enter date interval (8 characters in Arabic numbers)
- Step 2** : Select frequency
- Step 3** : Move required date to the selected list on the right side.
- Step 4** : Click “Confirm”.

Advance Date Option

Last1 Cycle switching

Date Range 20150101 to 20191231 ☐ Calendar Date Query

Cycle ☐ Day ☐ Week ☐ Month ☐ Quarter ☐ Half Year ☒ Year

201912 201912
201812 201812
201712 201712
201612 201612
201512 201512

> >> < <<

Asc Des

Confirm Cancle

Export Saved Data(I): Export to Excel



- For example, export HTC's financial statements from 2008-2011.



Step : Select required information and click “Export” to export selected info to Excel.

*Note: Exported info is a temporary file, make sure to click Save As to save the file.

Book1 - Micro

	A	B	C	D	E
1	2498 HTC--201112,201012,200912,200812				
2					
3	YYYY/MM	2011/12	2010/12	2009/12	2008/12
4	Total cash and cash equivalents	87,501,508	74,462,861	64,638,290	64,237,728
5	Total current financial assets at fair value through profit or loss	256,868	450,276	18,132	0
6	Financial assets at fair value through other comprehensive income - Current	736,031	441,948	2,497,394	0
7	Financial assets measured at amortized cost - Current	0	0	0	0
8	Current financial assets for hedging	0	0	0	0
9	Current contract assets	0	0	0	0
10	Accounts & notes receivable	64,719,791	61,614,355	27,125,609	29,454,778
11	Other receivable	1,152,465	759,359	218,517	278,527
12	Loan to others - Short-Term	0	0	0	0
13	Total inventories	28,430,590	26,413,747	6,036,207	8,250,337
14	Non-current assets classified as held for sale, net	0	0	0	0
15	Total current tax assets	0	0	0	0
16	Total current assets	192,859,891	168,606,486	104,900,881	104,256,700
17	Total non-current financial assets at fair value through profit or loss	3,408,654	1,023,661	565,172	501,192
18	Financial assets at fair value through other comprehensive income - Non-Current	279	538	313	339
19	Financial assets measured at amortized cost - Non-Current	204,597	207,946	0	0
20	Non-current financial assets for hedging	0	0	0	0
21	Non-current contract assets				
22	Investments accounted for using equity method, net	71,732	0	0	39,906
23	Non-current prepayments for investments	0	0	245,000	0
24	Total property, plant and equipment	21,512,478	14,024,329	9,899,808	8,916,350
25	Goodwill and intangible assets	22,560,788	935,650	240,482	289,783
26	Deferred tax assets	3,675,521	2,366,488	1,067,691	822,893
27	Deferred assets	4,439,037	2,609,737	1,313,687	1,076,014

Export Saved data (II): Download Filter

(download a large number of data)



Step 1 : Select database in below.

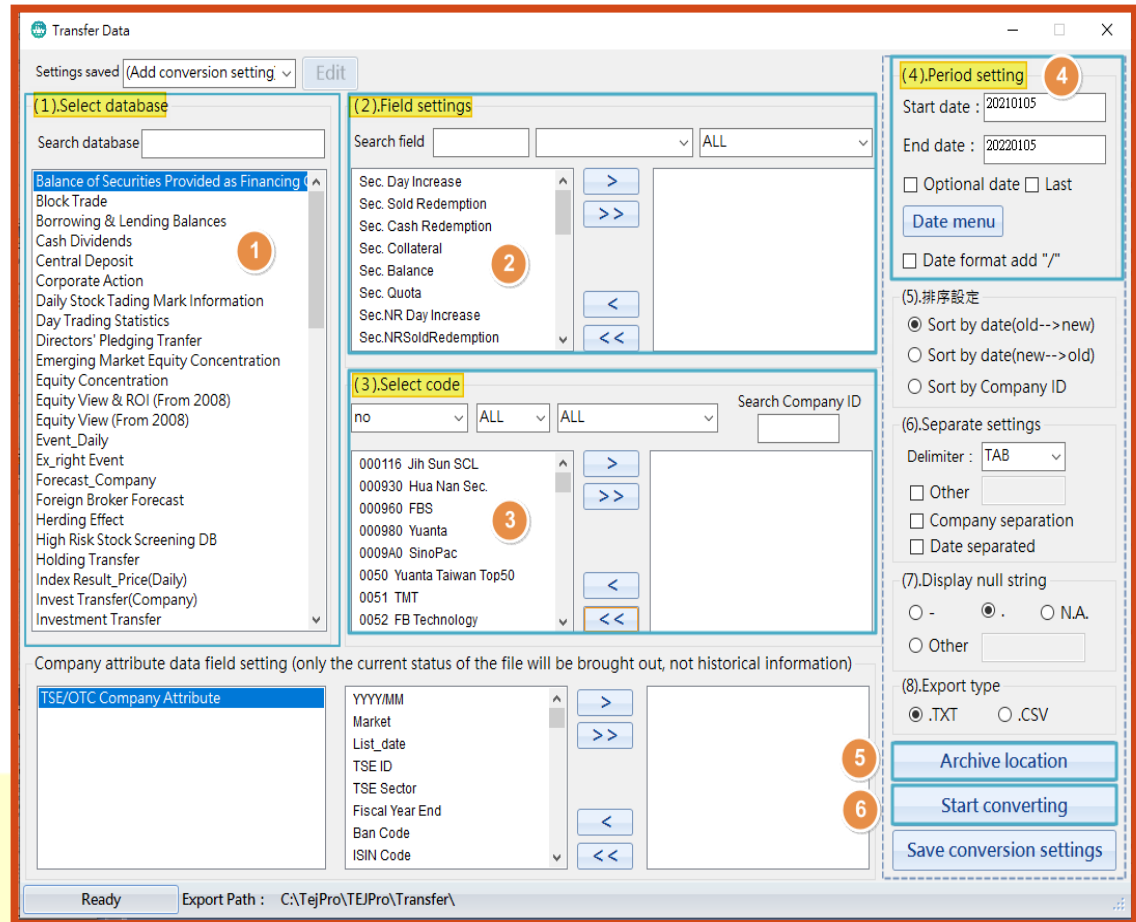
Step 2 : Select required company samples or selected ID groups.

Step 3 : Select required field variants or field groups that are already set up.

Step 4 : Select required date or click **Date Menu** to choose specific date or frequency.

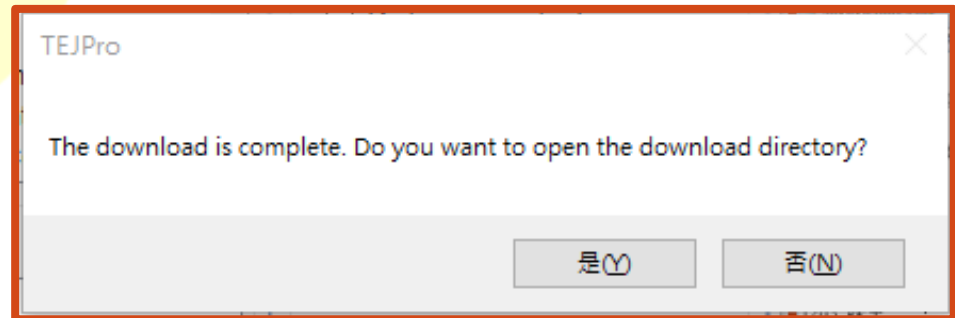
Step 5 : Set the route for saved data.

Step 6 : Click “Start converting”.



Export Saved data (II): Download Filter (download a large number of data)

- ▶ When “Export data to file Successfully” is shown, the file conversion is done.



- ▶ If content needs to be read in Excel, please drag the text file into the blank sheet.

20220105112144 - 記事本														
檔案(F)	編輯(E)	格式(O)	檢視(V)	說明										
CO_ID	Date	Quarter consolidation	Month	Currency	Total cash and cash equivalents				Total current financial					
entment property, net		Total other non-current assets	Total non-current assets	Total assets	Total short-ter									
ent provisions	Deferred credits, gains on inter-affiliate accounts	Accrued pension liabilities	Total deferred											
expenses)	Net operating income (loss)	Total interest income	Other Non-Operating Income	Other gains and										
(loss), attributable to non-controlling interests	Profit (loss), attributable to interests in the former jointly													
al surplus	Stock dividend per share - Retained earnings	Stock dividend per share - Capital surplus	Cash di											
able	BS-Financial liabilities carried at cost - Non-Current	Return on Assets Ratio (C) - Recurring Income Before In												
Per Share	Sales Per Share Operating Income Per Share	Pre-Tax Income Per Share	Comprehensive Income Pe											
rt Type (1.Individual 2. Parent Company Only 3.Consolidated)	Fiscal Year Start Date	Fiscal Year End Date	Market											
000116 Jih Sun SCL	202109	3	Y	09	NTD	5058864	5273037	30646719	0	0				
.47	-0.5	1.34	.	.	.	.	.	.	181.97	64.54			
000930 Hua Nan Sec.	202109	3	Y	09	NTD	2646866	823524	14016850	0	0				
119.53	116.47	2.48	.	.	.	.	.	.	48.83	0			
000960 FBS	202109	3	Y	09	NTD	18138622	31412430	12933025	0	0				
.11	97.1	94.77	7.9	-3.38	7.39	2.03	.	.	123.43	117.99				
000980 Yuanta	202109	3	Y	09	NTD	59972751	324079752	67830398	4862843					
.82	1.39	18.56	18.56	20.61	20.61	20.61	3.87	-4.62	9.8	4.06				
0009A0 SinoPac	202109	3	Y	09	NTD	8855894	36693168	10707403	0	0				
.71	41.45	14.32	-8.94	1.16	.	.	.	.	104.7	5.94			
1101 Taiwan Cement	202109	3	Y	09	NTD	59958809	335314	6180994	15157115					
83	6.91	33.81	5.09	25.11	25.11	19.64	25.16	21.12	5.51	11.97	10858			
1102 Asia Cement	202109	3	Y	09	NTD	33405511	17125549	3740217	1607542					
7.55	31.63	7.84	22.95	22.95	19.13	25.01	19.84	5.87	20.59	17.6	5901	3.82		
1103 Chia Hsin Cement	202109	3	Y	09	NTD	3300210	1455715	3153595	3158852	0				
0.34	40.34	40.34	2.61	-0.35	2.56	-0.68	4.52	1.08	0.92	11.73	107.47	107.47	11.35	
1104 Universal Cement	202109	3	Y	09	NTD	426666	90787	2492496	75457	0				
.43	1.28	1.11	12.14	26.97	26.97	50.51	-6.18	-14.98	-14.37	4.94	5.99	52.42	-0.46	
1108 Lucky Cement	202109	3	Y	09	NTD	320942	25577	77281	126499	0				
-48.31	-48.11	-0.12	16.77	-2.24	.	.	.	.	193.63	46.68	12.49		
1109 Hsing Ta Cement	202109	3	Y	09	NTD	1867269	1208133	0	134450	0				
24	-6.67	-9.92	-9.92	-12.48	1.51	6.03	-6.99	-0.78	.	.				
1210 Great Wall 202109	202109	3	Y	09	NTD	5179124	15783	0	0	0	0	6472003		
38	24.38	2.99	2.75	94.09	2.03	2.67	2.04	2.67	1.84	30.09	10.51	10.51	49.94	
1212 Oceanic Resources	202109	3	Y	09	NTD	10702	0	0	0	0	0	42.22		

Auxiliary functions (I): Financial Statements & Value-added Data Base Information

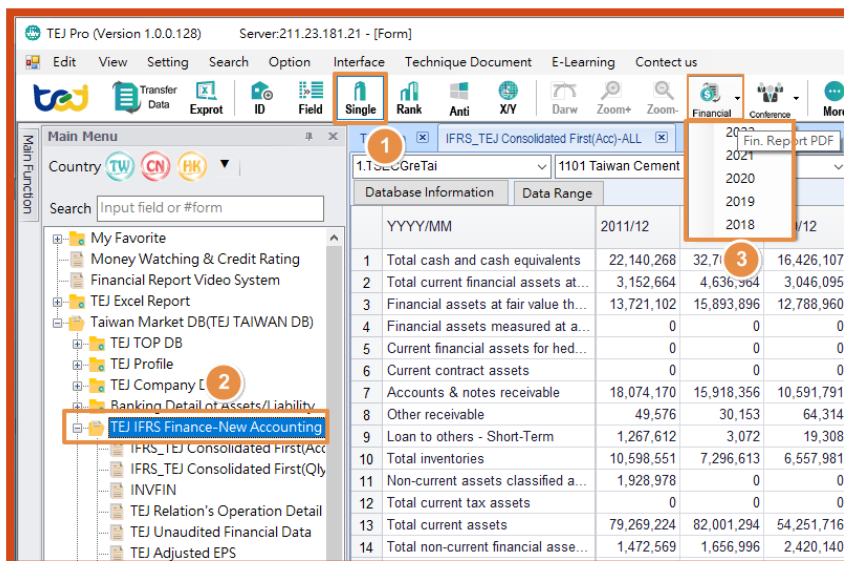


► Auxiliary functions : Financial

Step 1 : Click “Single”.

Step 2 : Click “Financial” and choose the year.

Step 3 : Automatically connect to the annual financial report of the designated company in website(mops.twse.com.tw).

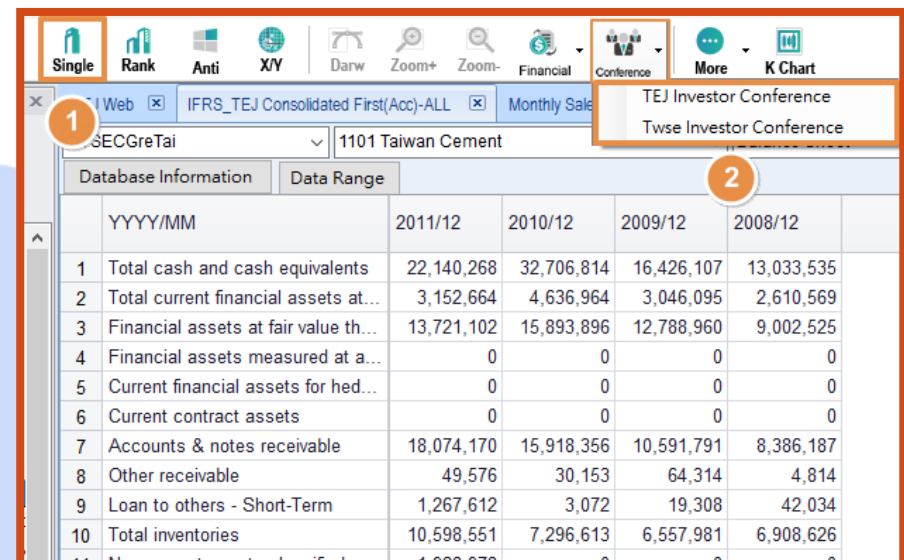


► Auxiliary functions : Conference

Step 1 : Click “Single”.

Step 2 : Click “Conference” and Select “TEJ Investor Conference” or “Twse Investor Conference”.

Step 3 : Automatically connect to “TEJ Investor Conference” or “Twse Investor Conference” web page.



Data Query (I): Search for data based on company and column



Step 1 : Select “Country”.

Step 2 : Enter field or #from in “Search”.

Step 3 : Click database

Step 4 : Left window display preview screen (part of data) , and Click that show the complete data.

TEJ Pro (Version 1.0.0.128) Server:220.130.178.203 - [Form]

Menu: Edit View Setting Search Option Interface Technique Document E-Learning Contact us

Main Menu: Country (TW, CN, HK) 1

Search: Input field or #form 2

Database Information: 2.TSEC 1101 Taiwan Cement Monthly Sales & Earnings Monthly Sales Info.

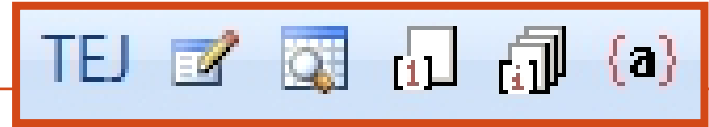
Data Range:

YYMM	2021/11	2021/10	2021/09	2021/08	2021/07
1 Announcement Date - S...	2021/12/10	2021/11/10	2021/10/12	2021/09/10	2021/08/10
2 Sale-Monthly	9,752,687	9,565,047	9,597,804	8,964,476	8,319,971
3 Sale-Monthly, Last Year	9,904,802	9,466,748	9,034,955	9,206,588	9,391,351
4 YoY%-Monthly Sale	-1.54	1.04	6.23	-2.63	-11.41
5 MoM%-Monthly Sale	1.96	-0.34	7.06	7.75	-1.90
6 Months of MoM%-Mont...	1	-1	2	1	-2
7 Sale-Accumulated	96,223,350	86,470,663	76,905,616	67,307,812	58,343,336
8 Sale-Accu..L.Y.	95,805,296	85,900,494	76,433,746	67,398,791	58,192,203
9 YoY%-Acc. Sales	0.44	0.66	0.62	-0.13	0.26
10 Highest Monthly Sales	12,349,908	12,349,908	12,349,908	12,349,908	12,349,908
11 Highest Monthly Sales ...	2019/12	2019/12	2019/12	2019/12	2019/12
12 (Month Sales/H.Month ...	-21.03	-22.55	-22.28	-27.41	-32.63
13 Lowest Monthly Sales	3,632,053	3,632,053	3,632,053	3,632,053	3,632,053
14 Lowest Monthly Sales ...	2016/02	2016/02	2016/02	2016/02	2016/02
15 (Month Sales/L.Month ...	152	163.35	164.25	146.82	129.07
16 Highest/Lowest(All Time)					
17 Highest/Lowest>Last 12...					
18 Highest/Lowest(Month)					
19 Hit New High / Low in N...		-1	3	2	-4
20 Sale-Accu. Last 12M	108	530	109,897,383	110,044,726	110,965,263
	793	114,115,089	115,137,297		
	1.77	-3.57	-3.62		
	251	25,765,268	26,633,556		
	894	27,886,259	28,552,536		
25 YoY%-Acc. Sales L 3M	1.79	1.51	-2.72	-7.61	-6.72
26 MoM%-Acc. Sales L 3M	2.80	4.63	4.34	-3.26	-4.83
27 QoQ%-Acc. Sales L 3M	12.23	5.61	-3.94	-12.02	11.03

預覽畫面(部分資料)
(點擊載入完整資料)

Preview screen (part of data)
Click that show the complete data

Quick Start to TEJ Smart Wizard



1

- Introduction to Smart Wizard Toolbar

2

- Criteria Setting-information, company, date, others

3




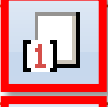


- Modify Criteria Setting –Function of lowercase a

4

- Example: Cross data base download

TEJ Smart Wizard Toolbar



Function Button	Function Description
	TEJ: Link to TEJ Official website-Download TEJ Smart Wizard example
	Parameter: System parameter setting: change languages/ select database country(Language selection: Traditional Chinese, Simplified Chinese, English; Country Selection: based on the DB purchase)
	DB Query: Setting up required data criteria
	Update Worksheet: Update single worksheet only
	Update Workbook: Update the current Excel file
	a: Edit function When the cursor stops at the red mark on the upper left corner in the exported table by TEJ Smart Wizard, tap on lowercase a button to call for the former setting and edit again.

*TEJ Smart Wizard Toolbar will be installed in the Add-ins of Excel 2007 (TEJ Smart Wizard Toolbar shows directly in Excel 2003 Toolbar). If TEJ Smart Wizard Toolbar fails to be executed, please call TEJ Customer Service line @ 02-87681088#120, our professional will provide assistance.

TEJ Smart Wizard-Criteria Setting



TEJ Smart Wizard (Version 3.5.1.0) -- 活頁簿1

Main Page Transformation Style Format Preview File Manager

Step 1: Information source

Data Source
Type: TSEC+GreTai
SmartID: TEJ TOP DB Key=2
Data: High Risk Stock Screening DB
Search: Market ID Search

Industry Type
Stock Price
ROI%_Daily
AP 20
AV 20
Book Value
Recurring EPS
RM_Attention

Select Select All Clear All Clear

Adv. Date Option Adv. Date Option

Step 3: Date setting

Date Setting
Date Range: 2015/03/02 to 2016/03/02 Descending Search
Frequency: Daily Weekly Monthly Quarterly Yearly
Date: Last Period Last Calendar Date

20160302
20160301
20160229
20160228
20160227
20160226
20160225
20160224
20160223
20160222

Select Select All Clear All Clear

Step 2: Company setting

Company Setting
☐ Set Industry
Common Stock
Common Stock(Include ETF)
Common Stock(Excluding TDF)
Common Stock(Excluding TDF)
Non Fin & Ele (Excluding TDF)
Reverse enterprise IPO

Sector: Common Stock Import Codes
Search Code/Name: 1101=>Taiwan Cement Select

Companies: 1101=>Taiwan Cement 1102=>Asia Cement 1103=>Asia Cement 1104=>Asia Cement 1108=>Asia Cement 1109=>Asia Cement 1110=>Asia Cement 1201=>Wei Chuan Foods 1203=>Ve Wong 1210=>Great Wall

Selected Companies

Select Select All Clear All Clear

Step 4: Other setting

Single Code/Date: No Designation Code Date
☐ New Worksheet Load ☐ New Table

Macro Name: Excel Range

Clear All Setting Next Export to Excel Preview

TEJ Smart Wizard -Criteria Setting 1: Information Source

Main Page Transformation Style Format Preview File Manager

Data Source

Type TSEC+Gre Tai+Emerging+Others

SmartID TEJ Equity Key=2

Data TSE/OTC Adjusted_Price(Daily)-ROI

Search Day ☐ ID Search

UOM -

field	Selected Field
Day	Day
Unadj Close Price	Unadj Close Price
ROI_D%	ROI_D%
ROI_Weekly %	ROI_Weekly %
ROI_Monthly %	ROI_Monthly %
ROI_Quarterly %	ROI_Quarterly %
ROI_Yearly %	ROI_Yearly %
ROI_W Begin %	ROI_W Begin %
ROI_M Begin %	ROI_M Begin %

Select Select All Clear All Clear

Information Type:

Select sample range, the Smart ID list below will change with the company list on the right simultaneously.

For example:

- 1.If Macroeconomics DB is required, info type needs to be changed into Macroeconomics.
- 2.When checking a listed and GRETAI listed company during a certain period, please select **listed+ GRETAI listed + delisted** company

Type & Data: Category is as the same as the TEJ main menu.

Type: Database category

Data : Database

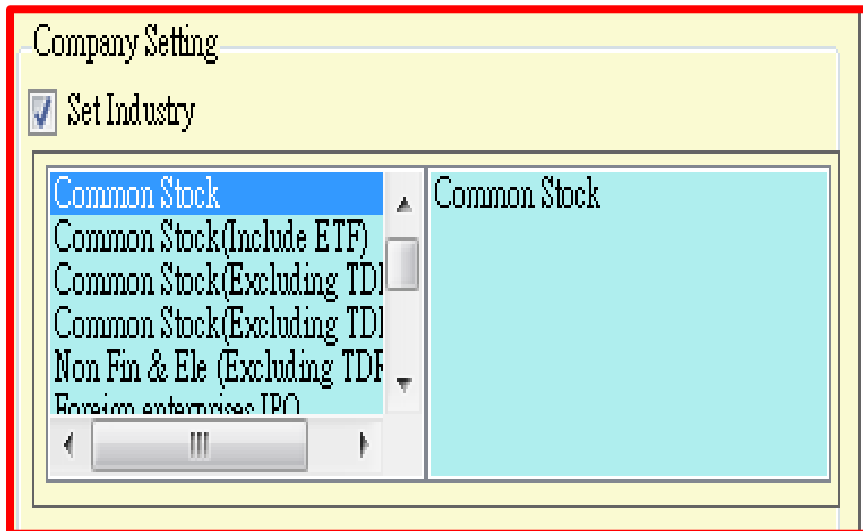
Select Field:

Left-clicking the mouse twice can select or remove the required info while press Ctrl or Shift can select fields consecutively.

Mobile Arrow Keys:

can adjust field order, but only one field at a time.

TEJ Smart Wizard -Criteria Setting 2: Company



Company Setting

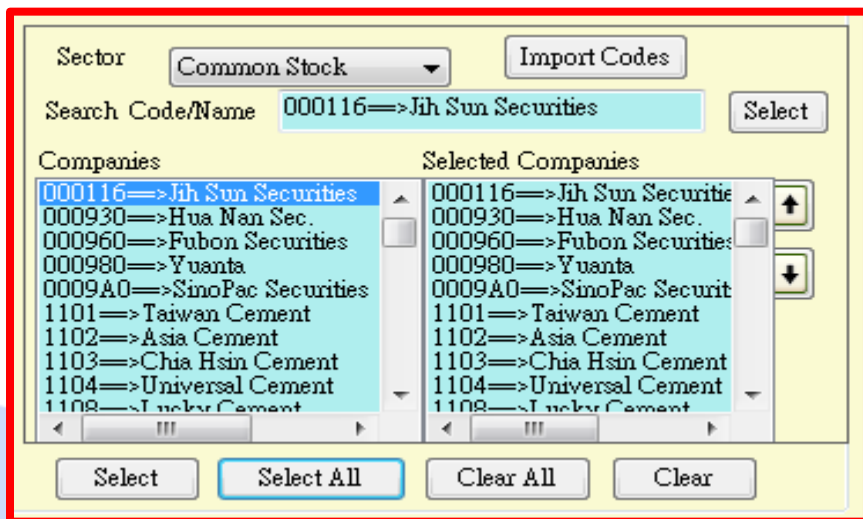
☒ Set Industry

Common Stock
Common Stock(Include ETF)
Common Stock(Excluding TDI)
Common Stock(Excluding TDI)
Non Fin & Ele (Excluding TDI)
Revision enterprises IPO

Common Stock

Designate industry:

If the sample criterion is fixed as common stock or certain industry, tick off Designate Industry. For example, when the user **designates-steel industry**, the file will update company list automatically whenever a new company joins or the old one drops out.



Sector: Common Stock Import Codes

Search Code/Name: 000116=>Jih Sun Securities Select

Companies	Selected Companies
000116=>Jih Sun Securities	000116=>Jih Sun Securities
000930=>Hua Nan Sec.	000930=>Hua Nan Sec.
000960=>Fubon Securities	000960=>Fubon Securities
000980=>Yuanta	000980=>Yuanta
0009A0=>SinoPac Securities	0009A0=>SinoPac Securities
1101=>Taiwan Cement	1101=>Taiwan Cement
1102=>Asia Cement	1102=>Asia Cement
1103=>Chia Hsin Cement	1103=>Chia Hsin Cement
1104=>Universal Cement	1104=>Universal Cement
1108=>Lucky Cement	1108=>Lucky Cement

Select Select All Clear All Clear

Designate Individual Stock:

- Method 1:** Select a certain industry based on the required company
- Method 2:** Import selected company groups-> copy the company list with company code-> right click the mouse-> import the info from Clipboard

TEJ Smart Wizard -Criteria Setting 3: Date

Date interval: Default interval is the current year, the interval can be changed manually.

Ascending/Descending order: The default is in descending order, if ascending order is required, untick the default box and re-select the date. Exported data will adhere to this setting and show in ascending/descending order accordingly.

Frequency:
Custom frequency

Select date:
Left-clicking the mouse twice can select or remove the required date while press Ctrl or Shift can select dates consecutively.

☐ Adv. Date Option Adv. Date Option

Date Setting

Date Range 2015/03/02 to 2016/03/02 ☒ Descending Search

Frequency ☒ Daily ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly

Date ☐ Last Period Last ☐ Calendar Date

20160302
20160301
20160226
20160225
20160224
20160223
20160222

Most recent period: The most recent data setting will be extracted from all the selected fields.

Select Select All Clear All Clear

TEJ Smart Wizard -Criteria Setting 3: Date (Advanced)

Step 1: Tick off advanced field for date selection

Adv. Date Option ☒ Adv. Date Option

Date Setting

Date Range 2015/03/02 to 2016/03/02 ☒ Descending Search

Frequency ☒ Daily ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly

Date ☐ Calendar Date

20160302
20160301
20160226
20160225
20160224
20160223
20160222

Select Select All Clear All Clear

Step 2: Set up date range

Advanced Settings

	Field Name	Date Type	No.
1	Day	LAST	
2	Unadj Close Price	LAST - Actual Dates	
3	ROI_D%	DATE	
4	ROI_Weekly %	DATE RANGE	

Apply

MONTHLY
QUARTERLY
HALF-YEARLY
YEARLY

Step 4: Apply to all fields

Step 3: Choose return type

End Date Return Type

noNull

noNull
SUM
AVG
MAX
MAX (Actual Date)
MIN
MIN (Actual Date)
DIFF
GROWTH
COUNT

Step 5: Okay OK

Example 1: Data required in recent periods

Date range: Choose **Recent N Periods**

Transactions: enter required periods
(e.g. 5 stands for the recent 5 periods)

Example 2: Search for data in a certain period

Date range: select Date Interval

Start date: yyyyymmdd (e.g. 20120101)

End date: 99999999

->the field shows data from 20120101 to the recent period

Date range: Weekly frequency

Start date: 20120101

End date: 20120731

Return type: average

->If the data is arranged in daily frequency (e.g. stock price), the exported data will be the weekly average

***Note: Choose ONLY ONE out of these two options: Date setting and Date setting-advanced**

TEJ Smart Wizard -Criteria Setting 4: others

Single Code/Date ☒ No Designation ☐ Code ☐ Date

☐ New Worksheet ☐ New Table

Macro Name Separated with III

Co. ID Date

Produce new sheet: When exporting data, open a new sheet in the current file to export data.
*Recommended

Designate company code/ date position:
The system default starts from cell A1, the cell position can be changed to, such as B30/H5, based on the user's need.
*Function introduction:
Do not designate: search for data cross companies and cross time periods
Designate company code: search for individual company
Designate date: search for single date

Automatic Macros Execution:
If the file comes with related macros setup, adding macros to the File Note will enable macros to be automatically executed as data updates.

TEJ Smart Wizard -Criteria Setting 5: Format

- After setting company, date, field (variants), click “Next” to select array and then click “Export to Excel”.

Macro Name Separated with |||

Excel Range Co. ID Date

TEJ Smart Wizard (Version 3.5.1.0) -- 活頁簿1

Main Page Transformation **Style Format** Preview File Manager

☒ Pre-set ☐ Style 13_for 3 Key ☐ Style 14_for 3 Key

	Field 1	Field 2	Field 3
ID_A	Date 1		
ID_B	Date 1		
ID_A	Date 2		
ID_B	Date 2		

☐ Style 1 - Code as Key ☐ Style 2 - Date as Key ☐ Style 3 - Field as Key

	Field A	Field A	Field B	Field B
	Date 1	Date 2	Date 1	Date 2
ID_1				
ID_2				
ID_3				

	ID_A	ID_A	ID_B	ID_B
	Field 1	Field 2	Field 1	Field 2
Date 1				
Date 2				
Date 3				

	ID_A	ID_A	ID_B	ID_B
	Date 1	Date 2	Date 1	Date 2
Field 1				
Field 2				
Field 3				

☐ Style 4 - Code as Key ☐ Style 5 - Date as Key ☐ Style 6 - Field as Key

	Date 1	Date 1	Date 2	Date 2
	Field A	Field B	Field A	Field B
ID_1				
ID_2				
ID_3				

	Field 1	Field 1	Field 2	Field 2
	ID_A	ID_B	ID_A	ID_B
Date 1				
Date 2				
Date 3				

	Date 1	Date 1	Date 2	Date 2
	ID_A	ID_B	ID_A	ID_B
Field 1				
Field 2				
Field 3				

☐ Style 7 ☐ Style 8 ☐ Style 9

	Date 1	Date 2	Date 3
ID_A	Field 1		
ID_A	Field 2		
ID_B	Field 1		
ID_B	Field 2		

		ID_1	ID_2	ID_3
Field A	Date 1			
Field A	Date 2			
Field B	Date 1			
Field B	Date 2			

		ID_1	ID_2	ID_3
Date 1	Field A			
Date 1	Field B			
Date 2	Field A			
Date 2	Field B			

☐ Style 10 ☐ Style 11 ☐ Style 12

	Date 1	Date 2	Date 3
Field 1	ID_A		
Field 1	ID_B		
Field 2	ID_A		
Field 2	ID_B		

		ID_1	ID_2	ID_3
Date 1	Field A			
Date 1	Field B			
Date 2	Field A			
Date 2	Field B			

	Field 1	Field 2	Field 3
ID_A	Date 1		
ID_A	Date 2		
ID_B	Date 1		
ID_B	Date 2		

TEJ Smart Wizard –Demonstration for Cross Data Base Download (Example)

➤ **Research time: 2000-2012**

➤ **Frequency: Year**

➤ **Research Sample:** Taiwan's paper-making companies that became listed and GRETAI listed during this research.

➤ **Required Variants:** Based on the financial ratios in the consolidated financial statements, including ROA, ROE, R&D expense, EPS, revenues, current ratio, year-end market value, shares outstanding, annual return, shareholding ratio of board member, manager shareholding ratio, shareholding ratio of institutional investors, right to share profit, control level and one-year Beta.

TEJ Smart Wizard –Demonstration for Cross Data Base Download→Step 1

- Data type:**

Given to the need for listed and GRETAI listed companies during a certain of period in the past and the sample integrity, please select

TSEC+GreTai+Emerging+Others to cover all the relevant information as well as to include delisted companies after this period of time.

- DB type and info name:**

i.e. DB category and info name in TEJ+ Main (please refer to the pictures)

The figure shows four screenshots of the TEJ Smart Wizard interface, illustrating the selection of data sources and fields for download. Red boxes and arrows highlight specific selections.

- Top Left Screenshot:**
 - Data Source:** Type: TSEC+GreTai+Emerging+Others, SmartID: TEJ Finance DB, Key=2, Data: TEJ Consolidated First_General(Acc)-3, Search: Current %, Sector: ALL, UOM: -.
 - field / Selected Field:**

field	Selected Field
Other Current Ass.	consolidation
Total Current Assets	ROA(C)-EBIDA %
Total Current Liab.	ROE(A)-NI
Current Income	OperatingExp.-R&D
Net Income Current	Earning Per Share
Tax Exp.-Current	Net Sales
Current %	Current %
- Top Right Screenshot:**
 - Data Source:** Type: TSEC+GreTai+Emerging+Others, SmartID: TEJ Equity, Key=2, Data: TSE/OTC Adjusted_Price(Yearly)-EX-R&D, Search: Market Cap., Sector: ALL, UOM: -.
 - field / Selected Field:**

field	Selected Field
Volume_Year	ROA(C)-EBIDA %
Amount_Year	ROE(A)-NI
ROI_Year	OperatingExp.-R&D
Turn Over_Year	Earning Per Share
Shares	Net Sales
Market Cap.	Current %
Last Bid	ROI_Year
Last Offer	Shares
ROI-Ln_Year	Market Cap.
- Bottom Left Screenshot:**
 - Data Source:** Type: TSEC+GreTai+Emerging+Others, SmartID: TEJ Equity, Key=2, Data: TSE/OTC Adjusted_Price(Daily)-Beta, Search: CAPM_Beta 1Y, UOM: -.
 - field / Selected Field:**

field	Selected Field
CAPM_Beta 1M	ROE(A)-NI
CAPM_Beta 2M	OperatingExp.-R&D
CAPM_Beta 3M	Earning Per Share
CAPM_Beta 6M	Net Sales
CAPM_Beta 9M	Current %
CAPM_Beta 1Y	ROI_Year
CAPM_Beta 2Y	Shares
CAPM_Beta 3Y	Market Cap.
CAPM_Beta 5Y	CAPM_Beta 1Y
- Bottom Right Screenshot:**
 - Data Source:** Type: TSEC+GreTai+Emerging+Others, SmartID: TEJ Corporate Governance, Key=2, Data: Ultimate Control and Board Composition, Search: Group Name, Sector: ALL, UOM: -.
 - field / Selected Field:**

field	Selected Field
Group Name	Shares
No.of Seats in Board	Market Cap.
No.of Directors	CAPM_Beta 1Y
No.of Supervisor	Board %
Board %	Managers' Sharehold %
Director %	Legal Ent. Share %
Supervisor %	Seating Rights %
Board Pledged %	Voting Rights %
	Cash Flow Rights %

TEJ Smart Wizard –Demonstration for Cross Data Base Download→Step 2

- **Company setting:** Given to designation of a certain industry, the company list of the paper-making industry will based on this download, no matter the stock market fluctuation in the future, therefore choose “Paper-Making Company” in the “Company Category” and then press “Select All”

Company Setting

☐ Set Industry

Foreign enterprises IPO
TDR
Cement
Foods
Plastics
Textiles

Sector: Textiles

Search Code/Name: 1402=>FENC

Companies: 1402=>FENC, 1409=>Shinkong Synthetic, 1410=>Nan Yang D&F, 1413=>H.C., 1414=>Tung Ho Textile, 1416=>Kwong Fong, 1417=>Carnival, 1418=>Tong-Hwa, 1419=>Shinko. Textile, 1422=>Raward Wool

Selected Companies

Select Select All Clear All Clear

Sector: Textiles

Import Codes

Search Code/Name: 1402=>FENC

Select

Companies: 1402=>FENC, 1409=>Shinkong Synthetic, 1410=>Nan Yang D&F, 1413=>H.C., 1414=>Tung Ho Textile, 1416=>Kwong Fong, 1417=>Carnival, 1418=>Tong-Hwa, 1419=>Shinko. Textile, 1422=>Raward Wool

Selected Companies: 1402=>FENC, 1409=>Shinkong Synthetic, 1410=>Nan Yang D&F, 1413=>H.C., 1414=>Tung Ho Textile, 1416=>Kwong Fong, 1417=>Carnival, 1418=>Tong-Hwa, 1419=>Shinko. Textile, 1422=>Raward Wool

Select Select All Clear All Clear

TEJ Smart Wizard –Demonstration for Cross Data Base Download→Step 3

- **Date setting:**

Step 1: Enter 20000101-20121231 in the date interval.

Step 2: Choose “Year” for the frequency.

Step 3: Untick the box on the left side of descending order and press search for the data arrangement starting from 2000.

Step 4: Select all the appeared dates to the right side.

The screenshot shows the 'Date Setting' dialog box with the following elements and annotations:

- Annotation ①:** Points to the 'Date Setting' title bar.
- Annotation ②:** Points to the 'Date Range' input field, which contains '2000/01/01 to 2012/12/31'.
- Annotation ③:** Points to the 'Frequency' section, where 'Yearly' is selected with a radio button.
- Annotation ④:** Points to the 'Select All' button at the bottom.

The dialog box includes a 'Descending' checkbox (unchecked), a 'Search' button, and two list boxes showing years from 2000 to 2006. The 'Select All' button is highlighted with a red box.

TEJ Smart Wizard –Demonstration for Cross Data Base Download→Step 4

- **Step 1:** At designate company code/date position: click “Do Not Designate”

Description: This example needs as many companies and intervals as possible, and thus choose “Do Not Designate”

- **Step 2:** Tick off “Produce New Sheet”

Description: Please tick off “Produce New Sheet” to **avoid overwriting the original worksheet.**

- **Step 3:** Click “Next”

The screenshot shows the 'Step 4' interface of the TEJ Smart Wizard. It features a yellow background with various input fields and buttons. Red circles with numbers 1, 2, and 3 are used as annotations. A red rectangle highlights the 'No Designation' radio button. Another red rectangle highlights the 'New Worksheet' checkbox. A third red rectangle highlights the 'Export to Excel' button. The 'Excel Range' text is highlighted in green.

Single Code/Date ① ☒ No Designation ☐ Code ☐ Date

② ☒ New Worksheet ☐ New Table

Macro Name Separated with |||

Excel Range Co. ID Date

③

TEJ Smart Wizard –Demonstration for Cross Data Base Download→Step 5

- **Format Setting:**

According to the data types, the system provides nine ways of data arrangement. Please choose the arrangement based on personal requirement and then press “Export to Excel”.

TEJ Smart Wizard (Version 3.5.1.0) -- 活頁簿1

Main Page Transformation Style Format Preview File Manager

☐ Pre-set

	Field 1	Field 2	Field 3
ID_A	Date 1		
ID_B	Date 1		
ID_A	Date 2		
ID_B	Date 2		

☐ Style 13_for 3 Key

☐ Style 14_for 3 Key

☐ Style 1 - Code as Key

	Field A	Field A	Field B	Field B
	Date 1	Date 2	Date 1	Date 2
ID_1				
ID_2				
ID_3				

☐ Style 2 - Date as Key

	ID_A	ID_A	ID_B	ID_B
	Field 1	Field 2	Field 1	Field 2
Date 1				
Date 2				
Date 3				

☐ Style 3 - Field as Key

	ID_A	ID_A	ID_B	ID_B
	Date 1	Date 2	Date 1	Date 2
Field 1				
Field 2				
Field 3				

☐ Style 4 - Code as Key

	Date 1	Date 1	Date 2	Date 2
	Field A	Field B	Field A	Field B
ID_1				
ID_2				
ID_3				

☐ Style 5 - Date as Key

	Field 1	Field 1	Field 2	Field 2
	ID_A	ID_B	ID_A	ID_B
Date 1				
Date 2				
Date 3				

☐ Style 6 - Field as Key

	Date 1	Date 1	Date 2	Date 2
	ID_A	ID_B	ID_A	ID_B
Field 1				
Field 2				
Field 3				

☐ Style 7

		Date 1	Date 2	Date 3
ID_A	Field 1			
ID_A	Field 2			
ID_B	Field 1			
ID_B	Field 2			

☐ Style 8

		ID_1	ID_2	ID_3
Field A	Date 1			
Field A	Date 2			
Field B	Date 1			
Field B	Date 2			

☐ Style 9

		Field 1	Field 2	Field 3
ID_A	Date 1			
ID_A	Date 2			
ID_B	Date 1			
ID_B	Date 2			

☐ Style 10

		Date 1	Date 2	Date 3
Field 1	ID_A			
Field 1	ID_B			
Field 2	ID_A			
Field 2	ID_B			

☐ Style 11

		ID_1	ID_2	ID_3
Date 1	Field A			
Date 1	Field B			
Date 2	Field A			
Date 2	Field B			

☐ Style 12

		Field 1	Field 2	Field 3
Date 1	ID_A			
Date 1	ID_B			
Date 2	ID_A			
Date 2	ID_B			

☐ Style 13_for 3 Key

☐ Style 14_for 3 Key

☒ Style 8

Back

Next

Export to Excel

Preview

TEJ Smart Wizard –Demonstration for Cross Data Base Download→Step 6

- Export Result is shown in the picture below:

Excel window: 活頁簿1 - Excel

TEJ Database: TEJ

功能表命令: 自訂工具列

XX_TEJ1 : CO_ID

	A	B	C	D	E	F	G	H	I	J	K	L
1	CO_ID	YYYYMM	consolidation	ROA(C)-EBIDA%	ROE(A)-NI	OperatingExp.-R&D	Earning Per Share	Net Sales	Current %	ROI_Year	Shares	Market Cap.
2	1402 FENC	2000/12/30	Y	7.79	3.17	147,006	0.07	71,348,277	94.82	-64.7718	3,080,382	72,080
3	1402 FENC	2001/12/31	Y	9.69	6.57	205,909	0.23	75,116,235	86.27	-41.3427	3,203,523	41,645
4	1402 FENC	2002/12/31	Y	11.51	8.97	274,333	0.7	77,841,238	79.84	-3.1535	3,361,024	39,660
5	1402 FENC	2003/12/31	Y	11.4	10.64	317,452	1.17	83,609,382	107.45	54.3906	3,590,677	59,964
6	1402 FENC	2004/12/31	Y	18.51	18.16	374,882	2.25	121,461,235	77.07	67.5169	3,799,660	96,891
7	1402 FENC	2005/12/30	Y	16.34	13.99	801,834	2.04	136,008,005	93.13	-2.7941	4,103,633	90,485
8	1402 FENC	2006/12/29	Y	11.98	12.01	756,663	1.92	140,227,309	106.06	42.3808	4,349,851	123,970
9	1402 FENC	2007/12/31	Y	14.37	12.78	809,058	2.54	161,814,257	119.7	42.445	4,480,346	170,477
10	1402 FENC	2008/12/31	Y	10.97	7.44	722,921	1.01	169,922,497	102.45	40.459	4,569,953	95,969
11	1402 FENC	2009/12/31	Y	13.23	10.66	683,311	1.74	165,423,874	105.58	98.7544	4,661,352	186,454
12	1402 FENC	2010/12/31	Y	14.74	13.67	678,762	2.7	199,754,390	115.07	30.5059	4,754,579	234,876
13	1402 FENC	2011/12/30	Y	12.74	11.1	732,281	2.26	235,561,246	118.9	-22.7917	4,897,217	172,137
14	1402 FENC	2012/12/28	Y	9.89	8.81	701,324	1.73	236,204,948	124.97	2.0509	5,044,133	166,960
15	1409 Shinkong Synthetic	2000/12/30	Y	4.76	-8.44		-0.77	14,165,090	73.8	-65.3405	1,330,640	4,058
16	1409 Shinkong Synthetic	2001/12/31	Y	4.33	-3.18		-0.28	13,266,141	68.57	-19.6717	1,325,340	3,247
17	1409 Shinkong Synthetic	2002/12/31	Y	6.09	5.03		0.44	15,788,530	95.39	124.4884	1,325,340	7,289
18	1409 Shinkong Synthetic	2003/12/31	Y	4.49	2.17		0.24	18,779,926	121.5	45.4536	1,325,340	10,602
19	1409 Shinkong Synthetic	2004/12/31	Y	4.03	3.67		0.4	20,837,366	126.51	13.1245	1,325,340	11,994
20	1409 Shinkong Synthetic	2005/12/30	Y	4.53	0.54		0.06	23,617,128	109.68	-27.2926	1,325,340	8,720
21	1409 Shinkong Synthetic	2006/12/29	Y	2.34	0.65		0.12	27,363,605	132	30.243	1,325,340	11,358
22	1409 Shinkong Synthetic	2007/12/31	Y	4.11	3.44		0.46	32,162,909	220.4	20.7222	1,454,073	14,904
23	1409 Shinkong Synthetic	2008/12/31	Y	1.95	-0.2		-0.05	32,251,701	174.74	-54.0004	1,454,073	6,543
24	1409 Shinkong Synthetic	2009/12/31	Y	3.18	4.44		0.44	29,812,930	164.29	150.0001	1,454,073	16,358
25	1409 Shinkong Synthetic	2010/12/31	Y	4.85	8.96		1.21	38,231,363	165.37	45.471	1,630,185	26,245
26	1409 Shinkong Synthetic	2011/12/30	Y	3.71	5.45		0.71	42,420,386	202.73	-44.81	1,828,207	14,698
27	1409 Shinkong Synthetic	2012/12/28	Y	3.2	4.83		0.55	41,105,778	183.56	25.2329	1,760,484	17,094

工作表1 工作表2



QUICK START TO EVENT STUDY

1

- Introduction to Event Study

2

- What is event day, event period and estimation period?

3

- 4 simple steps to TEJ Event Study System

4

- I. Set up data type

5

- II. Event Day selection

6

- II. Event Day selection-A. import custom samples

7

- II. Event Day selection-B1. financial news index

8

- II. Event Day selection-B2. specific events

9

- II. Event Day selection-B3. stock market chronicles

10

- III. Setting up Estimation model

11

- IV. Calculation check and storage

Introduction to Event Study

What is Event Study?

- **Event Study** is the research result derived from Verification Methodology which could be traced back to Ball and Brown, Fama, Fisher, Jensen and Roll in 1960s, as it is still widely applied by the recent empirical researches in accounting and financial field.

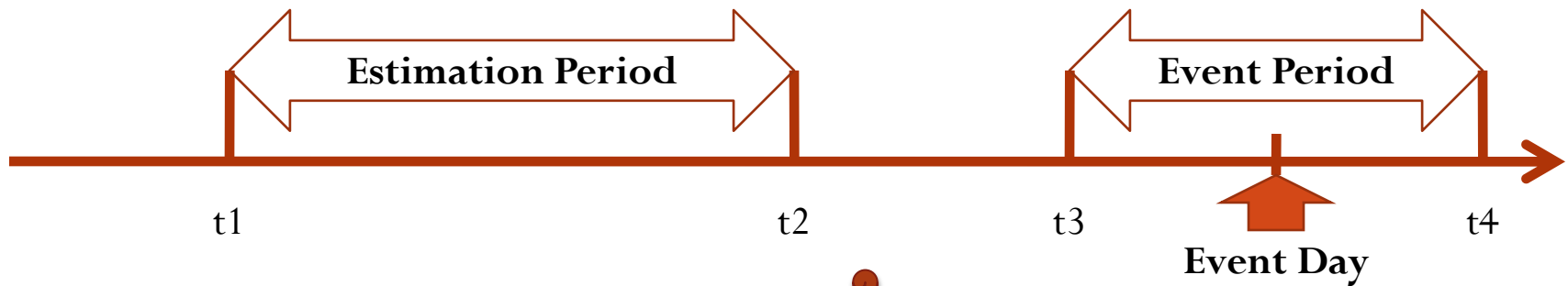
What is the purpose for Event Study?

- Event Study aims to **examine abnormal returns through statistics**, as well as to confirm if a certain event **affects the company's stock price** in which proves if there is a correlation between stock price fluctuation and this event.

The procedure for Event Study

- 1. Decide event and event day
- 2. Estimate abnormal returns
- 3. Verify abnormal returns
- 4. Analyze result and provide explanation

What is Event Day, Event Period & Estimation Period?



How to set up the length of event period and estimation period?

Event period should include event intervals affected by the event, such as repurchase of treasury stock and announcement date of M&A. Event period is usually broader than occurred day (event day), as it includes a period of time before and after the event in which the variations of the dependent variable (i.e. stock price and profit) would be produced after the event. Meanwhile, the stock price before the event will be a good reference for examining the effect of presage and information disclosure over the event.

Estimation period or **estimation window** is to apply the statistics derived from this period to calculate the dependent variable if the event does not occur, i.e. the expected rate of return. As expected rate of return compares with the dependent variable changed during the event (i.e. realized rate of returns), the abnormal return of this event will be calculated.

In general estimation interval will be longer than event interval, as there is no evaluation standard for most of the event studies, interval set-up needs to be based on individual research as well as relevant literature and discussed with the advisor.

4 Steps to TEJ Event Study System

1. Set up data source

- Select Security Market
- Data frequency selection
- Return rate type selection

2. Event Day selection

- Customize upload
- News index
- Specific event day index

3. Setting for Estimation Model

- Mean-Adjusted Model
- Market Adjusted Returns model
- OLS Risk-Adjusted Returns Model
- Garch Risk-Adjusted Returns Model
- Scholes-Williams OLS Risk-Adjusted Returns Model
- Estimation period & event period setting
- the shortest period setting for estimation period
- Set up missing return for event period

Start to calculate

4. Calculation check and storage

- Result list: estimation statistics, estimation summary, residual data, abnormal return data, deleted record review, original return (or turnover rate) data.
- Results can be stored in the designated folder

I. Set up Data Type

Step 1 Market: colored flags represent applicable market information.

Step 2 Data frequency: breaking down into three kinds of frequency: day, week and month. (Special Note: frequency type will affect the event and the unit of estimation period.)

Step 3 Return Type Selection: continuously compounded return, simple return, and turnover rate.

PS. For further instructions or explanation of event study, please click the [Technical Document](#) and [Guidebook](#) in the upper right corner.

TEJ Event Study (Version 1.3.0.5)

Event Study Name: Event Study Project

Data type | Select the event date | Expected model

Markets

- ☐ China
- ☒ Taiwan
- ☐ Hong Kong
- ☐ Singapore
- ☐ Korea
- ☐ Malaysia

Frequency

Daily (selected)
Daily
Weekly
Monthly

Return Type

Continuous Compounding (selected)
Continuous Compounding
Simple
Turnover

Next

II. Event Day Selection

- Setting up event day can be carried out in two ways:

A: Import Samples:
establish custom TXT or CSV sample list and import to the system.

B: Event Day Index:
the system provides three indices(financial news index, specific event, stock market chronicles) to select event day.

TEJ Event Study (Version 1.3.0.5)

Event Study Name: Event Study Project

Data type | Select the event date | Expected model

Stock Sample

Security Code: Add Select All Unselect All Delete Save

Event Date: 20160302

Security Code	Security Name	Event Date	Delete
---------------	---------------	------------	--------

☐ Allow Duplicate?
☒ Notify If Duplicate?

Number Of Stocks:0 Records

Samples Import Search

Next

II. Event Day selection:

A. Import Custom Samples

CVS Format produced by Excel

Enter stock symbol (4 numbers)
in field A

Enter event date (8 numbers)
in field B

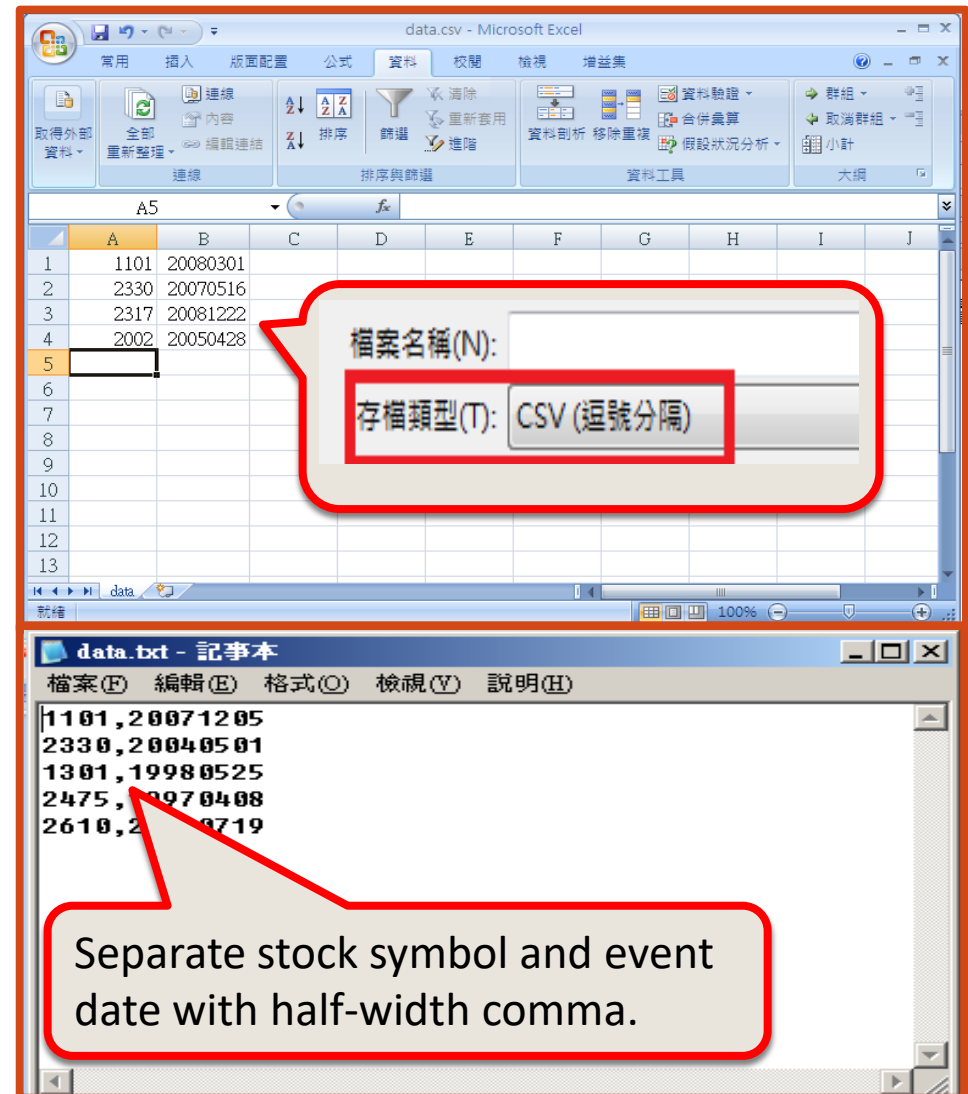
Please do not change settings once
information is entered

Choose **CVS (separated with comma)**
in Save File Type

TXT Format produced by Notepad

Enter stock symbol (4 numbers) first,
break with a **half-width comma**, and
then enter event date (8 numbers).

Choose **TXT** in Save File Type



II. Event Day Selection:

B1. Financial News Index

STEP1 : enter query criteria

- Enter **date interval**
- Enter **news key words**
- Set for search **Title or Content**

STEP2 : Set for Securities Sample (two out of one)

(A) Enter the ticker symbol for securities to search
Or (B) Select industry to search

- Select industries
- Tick off set for sample
- Click **"Add"** tab

STEP3 : Click and add to sample list.

新聞檢索 - 台灣市場

金融新聞檢索 特定事件 股票市場大事記

金融新聞檢索-根據不同公司碼, 關鍵詞與日期區間查詢

輸入查詢條件

日期區間: 20080616 20090616

證券代碼: 2330

選擇產業: []

關鍵詞: 購併

☒ 標題 ☒ 內文

全部清除 查詢

新聞標題

日期	公司碼	新聞標題
2008/11/03	2330	* 因應明年半導體市況 聯電、日月光採購併與策略聯盟
2009/02/24	2330	* 亞光: DSC 和新產品是今年成長動力, 任何M&A 都是好機會
2009/04/21	2330	* 訂單回春 台積電百億買設備
2009/06/12	2330	* 大將陸續到位 台積電切入綠能產業 這次來真的!

目前新聞筆數: 4筆

新聞內容

台灣各家半導體大廠對於2009年半導體產信衰退的看法已成共識, 為因應苦日子來臨, 提高現金部位的持盈保泰策略是各家有目共睹, 然不同的是, 半導體廠對於購併或合作看法有所不同, 台積電和力成表明暫無購併計畫, 矽品也明確表態對競爭對手沒興趣; 而日月光和聯電相對積極, 聯電宣稱已做好購併準備, 而日月光認為透過與國際客戶策略聯盟, 可降低成本, 在聯電和聯電將會是這波不景氣中在購併或策略聯盟扮演重要角色。

證券樣本清單

證券代碼: []

事件日: 20090616

加入 全選 全不選 刪除

證券代碼	公司名稱	事件日	刪除
2330	台積電	20081103	<input type="checkbox"/>
2330	台積電	20090224	<input type="checkbox"/>
2330	台積電	20090421	<input type="checkbox"/>

產業分類

請選擇產業分類: 水泥工業

代碼	名稱	勾選
1101	台泥	<input checked="" type="checkbox"/>
1102	亞泥	<input checked="" type="checkbox"/>
1103	嘉泥	<input checked="" type="checkbox"/>
1104	環泥	<input checked="" type="checkbox"/>
1108	幸福	<input checked="" type="checkbox"/>

全選 全不選

確定加入

回到主選單

II. Event Day Setting:

B2. Specific Events

The screenshot shows the 'News Search -Taiwan Market' application. It features a 'Particular Event' section on the left with a date range (20140101 - 20160302) and a dropdown for 'TSE Treasury Stocks'. Below this is a 'Security Code Filter' with a list of codes. The main area displays a table of securities with columns for Security Code, Name, Actual Date, and a 'Select' checkbox. A red circle '1' points to the 'Particular Event' section. A red circle '2' points to the 'Select' checkbox in the table. A red circle '3' points to the 'Add' button in the table's header. An 'Event Date Option' dialog box is open, showing options to 'Use Announcement Date' (selected) or 'Use Actual Date'. The dialog has a 'Delete Missing Value' dropdown and an 'OK' button. A 'Back To' button is visible in the top right corner of the main window.

STEP1: Event interval

- Enter query interval
- Set for specific event categories
- Set for securities sample
- Click "Search" tab

STEP2 :

- Tick off research sample
- Click "Add to Sample" tab

STEP3 : Set the event day as date of declaration or transaction date and click "O.K." tab.

II. Event Day Selection:

B3. Stock Market Chronicles

新聞檢索 - 台灣市場

金融新聞檢索 | 特定事件 | 股票市場大事記 | 回到主選單

資料區間

①

20000611 - 20090611

事件分類

手續費、證交稅、證所稅

外資投資法規

手續費、證交稅、證所稅

股票漲跌幅

融資融券

期貨、債券、衍生性商品

國內人物記事

央行利率

國內指數

公司碼選擇

證券代碼

自行輸入

選擇產業

匯入

全部清除

	代碼
1	1333
2	1336
3	1435
4	1437
5	1471

市場大事記

全選

全不

刪除

加入樣本

日期	大事記	勾選
2008/09/11	* 行政院宣布，決向立法院提出修改證券交易稅條例修正案，將證券半課徵，由現行千分之3降為千分之1.5，期限半年。	②
2003/07/09	* 立法院三讀通過不動產證券化條例，同時免徵證交稅。	
2002/01/04	* 立法院三讀通過買賣公司債與金融債券，免徵證券交易稅。	
2000/10/18	* 證期會放寬二類股票交易限制：只要在證券商受託買進金額不超過備金的三倍，券商可取消向投資人預收款券。	

目前樣本

證券代碼

加入

全選

全不選

刪除

事件日

20090611

證券代碼

公司名稱

事件日

刪除

1333	恩得利	20080911	<input type="checkbox"/>
1336	台翰	20080911	<input type="checkbox"/>
1435	中福	20080911	<input type="checkbox"/>
1437	勤益	20080911	<input type="checkbox"/>
1471	首利	20080911	<input type="checkbox"/>
1569	濱川	20080911	<input type="checkbox"/>
1582	信錦	20080911	<input type="checkbox"/>
1585	鎧鉅	20080911	<input type="checkbox"/>
1604	聲寶	20080911	<input type="checkbox"/>
1785	光洋科	20080911	<input type="checkbox"/>

☐ 允許重複樣本
☒ 重複樣本提示

目前證券數：869筆

STEP1：Data Interval

I. Enter date interval

II. Select event categories

III. Set for securities sample and search

STEP2：Selection

I. Tick off research sample

II. Click "Add to Sample" tab

* Stock Market Chronicles (TEJ will divided major events in the stock market into different categories)

回到主選

III. Set up Estimation Mode

Step 1: Select estimation model

Step 2: Based on the estimation model, enter **category, index code, estimation period, event period** accordingly.

Step 3: Decide minimum sample size during the estimation period.

Step 4: Set up samples when the missing return arises during event period.

Step 5: Click “Calculate” tab

P.S

1. It is not mandatory to select two index codes.
2. Estimation period and event period is based on individual research design. The picture is for reference only and are not considered the only one standard.

TEJ Event Study (Version 1.3.0.5)

Event Study Name: Event Study Project

Data type | Select the event date | Expected model

Method ①

- ☐ The average adjustment model
- ☐ Market index adjustment model
- ☒ OLS risk adjustment model
- ☐ GARCH risk adjustment model
- ☐ Scholes-Williams OLS risk adjustment model

OLS Adjusting Model ②

Index Classification: TSEC | TSEC

Index Code: TSE Taiex | Please Select ...

Estimation period: -1000 | Period ~ 1000 | Period

Event period: -600 | Period ~ 600 | Period

③

The minimum samples of the estimated period:
100

④

Deal with the missing data of the event date

- ☒ Delete Samples
- ☐ Replace missing value by zero

☐ Tips to save samples

⑤ Calculate

IV. Calculation check and storage

- Calculation is shown as the picture on the right, including estimation data, estimation summary, residual data, abnormal return and delete record review.
- Click Save will allow exported sheets to be saved in designated locations.
- Please click right mouse button on the picture to “Save As Picture” if needed.

