Appendix: Financial soundness indicators58

Table 1: Domestic Banks

Unit: %

Table 1. Domestic Banks						O1111. 70
Year (end of year)	2016	2017	2018	2019	2020	2021
Asset size						
Assets to GDP*	260.61	264.95	r 270.89	r 275.32	r 284.89	277.41
Earnings and profitability						
Return on assets (ROA)	0.66	0.66	0.68	0.70	0.58	0.58
Return on equity (ROE) (Pretax)	9.23	9.03	9.34	9.49	7.84	8.14
Return on equity (ROE) (After tax)*	7.94	7.80	8.09	8.11	6.82	7.11
Net interest income to gross income	60.04	60.03	59.33	56.59	59.95	62.11
Non-interest expenses to gross income	52.01	52.74	51.55	51.30	53.93	53.88
Gains and losses on financial instruments to gross income	11.37	14.85	11.23	18.78	17.06	12.93
Employee benefits expenses to non-interest expenses	56.29	56.75	57.15	56.76	57.05	58.36
Spread between lending and deposit rates (basis points)	1.37	1.36	1.35	1.32	1.22	1.24
Spread between the highest and the lowest interest rates of interbank O/N lending*	0.18	0.13	0.13	0.11	0.12	0.22
Asset quality						
Non-performing loans to total loans	0.27	0.28	0.24	0.22	0.22	0.17
Provision coverage ratio	503.45	490.59	573.67	650.30	623.74	781.47
Capital adequacy						
Regulatory capital to risk-weighted assets	13.33	14.17	13.99	14.07	14.84	14.80
Tier 1 capital to risk-weighted assets	10.97	11.78	11.86	12.08	12.79	12.97
Common equity Tier 1 capital to risk-weighted assets	10.50	11.19	11.19	11.32	11.84	11.96
Non-performing loans net of provisions to equity	-2.49	-2.18	-1.86	-1.78	-0.51	0.09
Leverage ratio	6.29	6.42	6.56	6.71	6.82	6.46

⁵⁸ In consideration of the IMF 2019 Financial Soundness Indicators Compilation Guide (FSI Guide), two categories of indicators comprising life insurance companies and bills finance companies have been added to the financial soundness indicators while the category market liquidity has been removed since 2020. Thus, the number of indicators increased from 42 to 58. The time series data of removed and pre-adjusted indicators are available on the CBC's website (https://www.cbc.gov.tw/en/cp-486-862-AE8D1-2.html). For more details about explanatory notes for the compilation of financial soundness indicators, please refer to the CBC Financial Stability Report May 2021 (https://www.cbc.gov.tw/en/cp-970-140474-7ae08-2.html).

Table 1: Domestic Banks (cont.)

Unit: %

Year (end of year)	2016	2017	2018	2019	2020	2021
Liquidity						
Customer deposits to total loans	137.25	138.76	135.75	137.27	142.04	144.30
Liquid assets to total assets	10.55	9.75	9.46	9.05	9.44	9.74
Liquid assets to short-term liabilities	14.98	13.37	13.36	12.53	13.19	13.37
Liquidity coverage ratio	125.81	134.54	133.89	134.82	141.60	136.60
Net stable funding ratio	-	-	132.44	132.71	136.51	138.56
Credit risk concentration						
Loan concentration by economic activity*	69.48	71.29	70.94	71.43	71.95	72.04
Large exposures to tier 1 capital**	-	-	-	-	8.60	8.06
Gross asset positions in financial derivatives to regulatory capital*	11.27	5.69	6.38	6.53	8.75	4.32
Gross liability positions in financial derivatives to regulatory capital*	11.58	7.02	8.64	7.66	9.36	4.51
Geographical distribution of loans to total loans*						
Domestic economy*	80.21	80.62	80.33	79.49	80.96	81.23
Advanced economies*	13.79	13.30	13.49	14.01	12.66	12.45
Emerging economies						
Emerging Asia*	4.75	4.91	5.12	5.42	5.31	5.30
Emerging Europe*	0.08	0.06	0.04	0.04	0.02	0.02
Latin America and the Caribbean*	0.54	0.48	0.44	0.40	0.37	0.31
Middle East and Central Asia*	0.24	0.31	0.27	0.35	0.42	0.47
Sub-Saharan Africa*	0.39	0.33	0.32	0.29	0.26	0.22
Credit of private sector to GDP*	140.73	146.27	150.92	r 155.13	r 160.16	159.52

Table 1: Domestic Banks (cont.)

Unit: %

Items Year (end of year)	2016	2017	2018	2019	2020	2021
Sensitivity to market risk						
Net open position in foreign exchange to capital	4.21	3.95	3.78	3.20	3.45	3.58
Foreign-currency-denominated loans to total loans	20.80	20.35	20.14	20.67	18.80	18.06
Net open position in equities to capital	21.73	21.42	22.51	24.56	26.93	31.71
Foreign-currency-denominated liabilities to total liabilities	29.49	26.31	29.21	26.57	26.53	25.80

Notes:1. Items with "*" and "**" are new indicators starting from 2020 with data traced back to 2016 and 2020 respectively.

- Figures for "Spread between lending and deposit rates" exclude the data of preferred deposits rates of retired government empolyees and central government lending rates.
- 3. Non-performing loans net of provisions to equity:
- (1) For data before 2019, specific provisions for credit losses refers to minimum provisions that a bank should allocate for classified loans and liabilities on guarantees in accordance with Regulations Governing the Procedures for Banking Institutions to Evaluate Assets and Deal with Non-performing/Non-accrual Loans.
- (2) Beginning 2020, specific provisions for credit losses, based on the IFRSs 9, refers to the provisions for expected credit losses of financial assets whose credit is impaired.
- 4. Figures for "Net stable funding ratio" are published from 2018.
- 5. Credit concentration:
- (1) For the data before 2019, large exposures prior refer to the total amount of credit exposures to the first 20 private enterprises at domestic banks (after integration).
- (2) Beginning 2020, large exposures are revised to the total amount of credit exposures to an enterprise at domestic banks (after integration) exceeding 10% of its Tier 1 capital.
- 6. Figures with "r" are revised data, which is based on GDP updated by DGBAS.

Table 2: Life Insurance Companies

Units: %

Year (end of year)	2016	2017	2018	2019	2020	2021
Assets to GDP	126.51	136.03	143.22	r 155.44	r 160.39	153.58
Return on assets (ROA)	0.50	0.50	0.33	0.55	0.67	1.19
Return on equity (ROE) (pretax)	9.98	9.42	6.82	10.24	9.27	14.83
Return on equity (ROE) (after tax)	9.86	9.92	7.81	9.65	9.38	13.78
Risk based capital (RBC) ratio	301.25	304.90	268.43	292.54	299.13	335.17
Equity to investment assets	5.57	6.20	4.60	7.29	8.80	9.10

Notes: 1. FSIs of life insurance companies are newly added from 2020 with data traced back to 2016.

- 2. Investment assets include financial assets such as cash, bank deposits, loans, securities, derivatives, and non-financial assets for investment.
- 3. Figures with "r" are revised data, which is based on GDP updated by DGBAS.

Table 3: Bills Finance Companies

Units: %

Year (end of year)	2016	2017	2018	2019	2020	2021
Assets to GDP	5.62	5.75	5.52	r 5.31	r 5.58	4.85
Return on assets (ROA)	1.13	1.06	0.96	0.99	1.18	1.27
Return on equity (ROE) (pretax)	9.14	8.80	8.00	8.05	9.33	9.78
Return on equity (ROE) (after tax)	7.66	7.46	6.72	6.67	7.56	8.01
Capital adequacy ratio	13.90	13.93	13.63	13.37	13.38	13.27
0-30 day maturity gap to assets (NTD)	-23.76	-24.27	-26.66	-21.39	-18.01	-16.80

Notes: 1. FSIs of bills finance companies are newly added from 2020 with data traced back to 2016.

Table 4: Non-financial Corporate Sector

Units: %, times

Year (end of year)	2016	2017	2018	2019	2020	2021
Total liabilities to equity						
TWSE-listed companies	98.33	100.07	99.48	104.61	107.85	106.85
OTC-listed companies	82.52	82.73	82.36	88.55	89.88	98.81
Return on equity						
TWSE-listed companies	14.38	15.81	14.92	12.62	14.60	23.01
OTC-listed companies	10.39	10.44	13.02	12.23	13.95	17.78
Net income before interest and tax / interest expenses (times)						
TWSE-listed companies	13.18	13.60	11.18	9.35	15.70	34.58
OTC-listed companies	12.59	12.88	16.23	15.99	21.99	30.23
Foreign liabilities to equity**						
TWSE-listed companies	-	-	-	-	32.48	32.62
TPEx-listed companies	-	-	-	-	20.11	21.64

Notes: 1. Data of TWSE-listed and OTC-listed companies are from TEJ.

^{2.} Figures with "r" are revised data, which is based on GDP updated by DGBAS.

^{2.} Item with "**" is a new indicator to be disseminated from 2020 onward and the reference date of figures in 2021 is the end of September 2021.

Table 5: Household Sector

Unit: %

Year (end of year)	2016	2017	2018	2019	2020	2021
Household debt to GDP	81.57	83.43	r 85.11	r 86.70	r 89.04	87.69
Debt service and principal payments to total disposable income	46.32	46.67	45.23	r 46.13	r 46.54	46.14
Household debt to total disposable income*	1.37	1.37	r 1.36	r 1.39	r 1.46	1.44

Notes: 1. Figures for "total disposable income" are the sum of household disposable income, rent expense and interest expense.

Table 6: Real Estate Market

Unit: index, %

Year (end of year)	2016	2017	2018	2019	2020	2021
National housing price index*	99.09	100.60	100.80	104.14	108.17	117.50
Residential real estate loans to total loans	29.35	29.82	29.73	29.44	32.04	32.52
Commercial real estate loans to total loans	16.60	17.54	17.78	17.73	19.37	19.69

Note: Item with "*" is a new indicator starting from 2020 with data traced back to 2016.

^{2.} Figure for "total disposable income" for 2021 is a CBC estimate.

^{3.} Item with "*" is a new indicator starting from 2020 with data traced back to 2016.

^{4.} Figures with "r" are revised data, which is based on GDP and total disposable income updated by DGBAS.