



125R/2023/AR

March 22, 2023

Company	LT fundamental recommendation	12M EFV (PLN)	ST market-relative bias	Analyst
Asseco BS	Hold	41.6 (from 36.0)	Neutral	Sobiesław Pająk, CFA +48 22 504 32 72

Event: 12M EFV update.

Our 12M EFV for Asseco BS, **increases** by 15% to **PLN 41.6** (from PLN 36.0 previously) per share.

Regarding the potential sources of conflict of interest, please refer to the disclaimer section of the attached research report.

BASIC DEFINITIONS

A/R turnover (in days) = $365 / (\text{sales}/\text{average A/R})$
 Inventory turnover (in days) = $365 / (\text{COGS}/\text{average inventory})$
 A/P turnover (in days) = $365 / (\text{COGS}/\text{average A/P})$
 Current ratio = $(\text{current assets} - \text{ST deferred assets})/\text{current liabilities}$
 Quick ratio = $((\text{current assets} - \text{ST deferred assets}) - \text{inventory})/\text{current liabilities}$

Interest coverage = $(\text{pre-tax profit before extraordinary items} + \text{interest payable})/\text{interest payable}$
 Gross margin = gross profit on sales/sales
 EBITDA margin = EBITDA/sales
 EBIT margin = EBIT/sales
 Pre-tax margin = pre-tax profit/sales
 Net margin = net profit/sales
 ROE = net profit/average equity
 ROA = (net income + interest payable)/average assets

EV = market capitalization + interest bearing debt – cash and equivalents

EPS = net profit/ no. of shares outstanding

CE = net profit + depreciation

Dividend yield (gross) = pre-tax DPS/stock market price

Cash sales = accrual sales corrected for the change in A/R

Cash operating expenses = accrual operating expenses corrected for the changes in inventories and A/P, depreciation, cash taxes and changes in the deferred taxes

DM BOŚ S.A. generally values the covered non bank companies via two methods: comparative method and DCF method (discounted cash flows). The advantage of the former is the fact that it incorporates the current market assessment of the value of the company's peers. The weakness of the comparative method is the risk that the valuation benchmark may be mispriced. The advantage of the DCF method is its independence from the current market valuation of the comparable companies. The weakness of this method is its high sensitivity to undertaken assumptions, especially those related to the residual value calculation. Please note that we also resort to other valuation techniques (e.g. NAV-, DDM- or SOTP-based), should it prove appropriate in a given case.

KEY TO INVESTMENT RANKINGS

This is a guide to expected price performance in absolute terms over the next 12 months:

Buy – fundamentally undervalued (upside to 12M EFV in excess of the cost of equity) + catalysts which should close the valuation gap identified;

Hold – either (i) fairly priced, or (ii) fundamentally undervalued/overvalued but lacks catalysts which could close the valuation gap;

Sell – fundamentally overvalued (12M EFV < current share price + 1-year cost of equity) + catalysts which should close the valuation gap identified.

This is a guide to expected relative price performance:

Overweight – expected to perform better than the benchmark (WIG) over the next quarter in relative terms

Neutral – expected to perform in line with the benchmark (WIG) over the next quarter in relative terms

Underweight – expected to perform worse than the benchmark (WIG) over the next quarter in relative terms

The recommendation tracker presents the performance of DM BOŚ S.A.'s recommendations. A recommendation expires on the day it is altered or on the day 12 months after its issuance, whichever comes first.

Relative performance compares the rate of return on a given recommended stock in the period of the recommendation's validity (i.e. from the date of issuance to the date of alteration or – in case of maintained recommendations – from the date of issuance to the current date) in a relation to the rate of return on the benchmark in this time period. The WIG index constitutes the benchmark. For recommendations that expire by an alteration or are maintained, the ending values used to calculate their absolute and relative performance are: the stock closing price on the day the recommendation expires/ is maintained and the closing value of the benchmark on that date. For recommendations that expire via a passage of time, the ending values used to calculate their absolute and relative performance are: the average of the stock closing prices for the day the recommendation elapses and four directly preceding sessions and the average of the benchmark's closing values for the day the recommendation expires and four directly preceding sessions.

Distribution of DM BOŚ's current recommendations

	Buy	Hold	Sell	Suspended	Under revision	Not rated
Numbers	40	32	7	9	0	2
Percentage	44%	36%	8%	10%	0%	2%

Distribution of DM BOŚ's current recommendations for the companies which DM BOŚ has supplied with material investment services within the last 12 months

	Buy	Hold	Sell	Suspended	Under revision	Not rated
Numbers	6	6	1	1	0	2
Percentage	38%	38%	6%	6%	0%	13%

Distribution of DM BOŚ's current market relative recommended weightings

	Overweight	Neutral	Underweight	Suspended	Under revision	Not rated
Numbers	31	34	14	9	0	2
Percentage	34%	38%	16%	10%	0%	2%

Distribution of DM BOŚ's current market relative recommended weightings for the companies which DM BOŚ has supplied with material investment services within the last 12 months

	Overweight	Neutral	Underweight	Suspended	Under revision	Not rated
Numbers	5	4	4	1	0	2
Percentage	31%	25%	25%	6%	0%	13%

Banks

Net Interest Margin (NIM) = net interest income/average assets

Non interest income = fees&commissions + result on financial operations (trading gains) + FX gains

Interest Spread = (interest income/average interest earning assets)/(interest cost/average interest bearing liabilities)

Cost/Income = (general costs + depreciation)/(profit on banking activity + other net operating income)

ROE = net profit/average equity

ROA = net income/average assets

Non performing loans (NPL) = loans in 'basket 3' category

NPL coverage ratio = loan loss provisions/NPL

Net provision charge = provisions created – provisions released

DM BOŚ S.A. generally values the covered banks via two methods: comparative method and fundamental target fair P/E and target fair P/BV multiples method. The advantage of the former is the fact that it incorporates the current market assessment of the value of the company's peers. The weakness of the comparative method is the risk that the valuation benchmark may be mispriced. The advantage of the fundamental target fair P/E and target fair P/BV multiples method is its independence of the current market valuation of the comparable companies. The weakness of this method is its high sensitivity to undertaken assumptions, especially those

related to the residual value calculation. Assumptions used in valuation can change, influencing thereby the level of the valuation. Among the most important assumptions are: GDP growth, forecasted level of inflation, changes in interest rates and currency prices, employment level and change in wages, demand on the analysed company products, raw material prices, competition standing of the main customers and suppliers, legislation changes, etc. Changes in the environment of the analysed company are monitored by analysts involved in the preparation of the recommendation, estimated, incorporated in valuation and published in the recommendation whenever needed.

LT fundamental recommendation tracker

Analyst	Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Performance	Relative performance	Price at issue/reiteration*	EFV (12 months)
Asseco BS									
-	Hold	-	7.02.2008	-	11.05.2008	0%	1%	12.50	13.20
-	→	-	21.02.2008	-	-	-	-	13.50	14.20
-	→	-	13.03.2008	-	-	-	-	13.30	14.10
-	→	-	30.03.2008	-	-	-	-	12.67	14.00
-	→	-	08.04.2008	-	-	-	-	12.66	14.00
-	Buy	↑	11.05.2008	-	09.11.2008	-30%	18%	12.50	14.60
-	→	-	01.06.2008	-	-	-	-	12.97	14.60
-	→	-	29.06.2008	-	-	-	-	11.45	14.50
-	→	-	02.07.2008	-	-	-	-	11.30	14.30
-	→	-	28.07.2008	-	-	-	-	10.40	14.30
-	→	-	07.08.2008	-	-	-	-	11.30	14.30
-	→	-	31.08.2008	-	-	-	-	12.45	14.30
-	→	-	28.09.2008	-	-	-	-	10.80	14.30
-	→	-	01.10.2008	-	-	-	-	10.00	12.80
-	→	-	29.10.2008	-	-	-	-	8.55	12.80
-	Hold	↓	09.11.2008	-	07.01.2009	-41%	-41%	8.80	10.30
-	→	-	30.11.2008	-	-	-	-	8.59	10.30
-	→	-	15.12.2008	-	-	-	-	6.20	9.30
-	Buy	↑	07.01.2009	-	24.02.2009	40%	86%	5.20	9.30
-	→	-	11.01.2009	-	-	-	-	5.34	9.30
-	→	-	08.02.2009	-	-	-	-	6.39	9.30
-	Hold	↓	24.02.2009	-	05.11.2009	11%	-39%	7.29	8.80
-	→	-	08.03.2009	-	-	-	-	6.00	8.80
-	→	-	05.04.2009	-	-	-	-	5.95	8.80
-	→	-	14.04.2009	-	-	-	-	5.62	8.30
-	→	-	17.05.2009	-	-	-	-	6.80	8.30
-	→	-	08.06.2009	-	-	-	-	6.70	7.90
-	→	-	08.07.2009	-	-	-	-	6.20	7.90
-	→	-	14.07.2009	-	-	-	-	6.14	6.70
-	→	-	02.08.2009	-	-	-	-	6.57	6.70
-	→	-	24.08.2009	-	-	-	-	7.11	6.70
-	→	-	31.08.2009	-	-	-	-	7.55	6.70
-	→	-	06.10.2009	-	-	-	-	8.53	8.70
-	→	-	12.10.2009	-	-	-	-	8.12	8.70
-	Buy	↑	05.11.2009	-	07.01.2010	18%	13%	7.64	9.40
-	→	-	08.12.2009	-	-	-	-	7.90	9.40
-	→	-	14.12.2009	-	-	-	-	8.00	9.40
-	Hold	↓	07.01.2010	-	30.06.2010	8%	12%	9.05	9.80
-	→	-	03.02.2010	-	-	-	-	8.79	9.80
-	→	-	01.03.2010	-	-	-	-	9.25	9.80
-	→	-	29.03.2010	-	-	-	-	9.99	9.80
-	→	-	31.03.2010	-	-	-	-	9.82	10.40
-	→	-	05.05.2010	-	-	-	-	10.00	9.65
-	→	-	17.05.2010	-	-	-	-	8.50	9.65
-	→	-	14.06.2010	-	-	-	-	9.03	9.65
-	Buy	↑	30.06.2010	-	02.01.2011	44%	19%	9.00	10.50
-	→	-	19.07.2010	-	-	-	-	9.20	10.50
-	→	-	31.08.2010	-	-	-	-	10.00	10.50
-	→	-	03.10.2010	-	-	-	-	10.70	12.20
-	→	-	12.10.2010	-	-	-	-	11.08	12.20
-	→	-	15.11.2010	-	-	-	-	11.20	12.20
-	→	-	13.12.2010	-	-	-	-	10.74	12.80
-	→	-	15.12.2010	-	-	-	-	11.20	12.80
-	Hold	↓	02.01.2011	-	11.12.2011	-19%	0%	12.93	12.80
-	→	-	28.01.2011	-	-	-	-	12.16	12.80
-	→	-	01.03.2011	-	-	-	-	12.25	12.80
-	→	-	10.03.2011	-	-	-	-	12.10	12.80
-	→	-	13.03.2011	-	-	-	-	12.56	14.20
-	→	-	24.03.2011	-	-	-	-	12.44	14.20
-	→	-	20.04.2011	-	-	-	-	13.20	14.20
-	→	-	11.05.2011	-	-	-	-	13.50	13.30
-	→	-	16.05.2011	-	-	-	-	12.30	13.30
-	→	-	20.06.2011	-	-	-	-	12.08	13.30
-	→	-	25.07.2011	-	-	-	-	10.92	13.30
-	→	-	31.08.2011	-	-	-	-	9.90	11.60
-	→	-	03.10.2011	-	-	-	-	10.00	11.60
-	→	-	24.10.2011	-	-	-	-	10.02	11.60
-	→	-	02.11.2011	-	-	-	-	9.91	11.60
-	→	-	14.11.2011	-	-	-	-	10.43	11.60
-	Hold	→	11.12.2011	-	14.11.2012	9%	-4%	9.61	11.60
-	→	-	01.01.2012	-	-	-	-	9.29	10.50
-	→	-	25.01.2012	-	-	-	-	9.52	10.50
-	→	-	29.02.2012	-	-	-	-	10.50	10.50
-	→	-	09.03.2012	-	-	-	-	10.22	10.50
-	→	-	20.03.2012	-	-	-	-	10.75	10.50
-	→	-	15.04.2012	-	-	-	-	10.55	10.50
-	→	-	09.05.2012	-	-	-	-	9.60	9.54
-	→	-	15.05.2012	-	-	-	-	9.61	9.54
-	→	-	21.06.2012	-	-	-	-	9.13	9.54
-	→	-	19.07.2012	-	-	-	-	8.74	9.54
-	→	-	02.09.2012	-	-	-	-	9.20	9.54
-	→	-	01.10.2012	-	-	-	-	8.90	9.10
-	→	-	10.10.2012	-	-	-	-	8.37	9.10

LT fundamental recommendation tracker (continued)

Analyst	Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Performance	Relative performance	Price at issue/reiteration*	EFV (12 months)
-	-	-	-	05.11.2012	-	-	-	9.35	9.10 →
-	-	-	-	06.11.2012	-	-	-	9.80	9.10 →
-	Hold	→ 14.11.2012	-	-	14.11.2013	47%	21%	9.50	9.10 →
-	-	-	-	13.12.2012	-	-	-	10.65	10.20 ↑
-	-	-	-	23.01.2013	-	-	-	10.31	10.20 →
-	-	-	-	18.02.2013	-	-	-	11.09	10.20 →
-	-	-	-	21.03.2013	-	-	-	11.19	10.20 →
-	-	-	-	02.04.2013	-	-	-	11.55	11.60 ↑
-	-	-	-	17.04.2013	-	-	-	11.08	11.60 →
-	-	-	-	13.05.2013	-	-	-	10.70	10.80 ↓
-	-	-	-	15.05.2013	-	-	-	11.39	10.80 →
-	-	-	-	17.06.2013	-	-	-	11.69	10.80 →
-	-	-	-	14.07.2013	-	-	-	10.80	11.70 ↑
-	-	-	-	25.07.2013	-	-	-	11.18	11.70 →
-	-	-	-	01.09.2013	-	-	-	11.98	11.70 →
-	-	-	-	20.10.2013	-	-	-	12.50	11.70 →
-	Hold	→ 14.11.2013	-	-	08.04.2014	-4%	-3%	13.20	11.70 →
-	-	-	-	12.12.2013	-	-	-	12.85	13.80 ↑
-	-	-	-	14.01.2014	-	-	-	13.17	13.80 →
-	-	-	-	21.01.2014	-	-	-	13.29	13.80 →
-	-	-	-	17.02.2014	-	-	-	12.10	13.80 →
-	-	-	-	23.03.2014	-	-	-	12.47	13.80 →
-	Buy	↑ 08.04.2014	-	-	26.03.2015	24%	21%	12.65	14.40 ↑
-	-	-	-	13.04.2014	-	-	-	12.60	14.40 →
-	-	-	-	11.05.2014	-	-	-	12.86	13.60 ↓
-	-	-	-	15.05.2014	-	-	-	12.00	13.60 →
-	-	-	-	16.06.2014	-	-	-	11.59	13.60 →
-	-	-	-	20.07.2014	-	-	-	11.16	13.60 →
-	-	-	-	01.09.2014	-	-	-	11.49	13.60 →
-	-	-	-	07.10.2014	-	-	-	12.00	15.00 ↑
-	-	-	-	14.10.2014	-	-	-	12.22	15.00 →
-	-	-	-	16.11.2014	-	-	-	12.30	15.00 →
-	-	-	-	14.12.2014	-	-	-	12.87	15.00 →
-	-	-	-	18.01.2015	-	-	-	12.61	15.00 →
-	-	-	-	10.02.2015	-	-	-	13.50	15.00 →
-	-	-	-	23.03.2015	-	-	-	14.49	15.00 →
-	Buy	→ 26.03.2015	-	-	17.05.2015	2%	-4%	14.90	15.70 ↑
-	-	-	-	19.04.2015	-	-	-	15.20	15.70 →
-	-	-	-	13.05.2015	-	-	-	15.15	14.85 ↓
Sobiesław Pajak	Hold	↓ 17.05.2015	-	18.05.2015	01.07.2015	-10%	-3%	14.30	14.85 →
Sobiesław Pajak	-	→ -	-	21.06.2015	22.06.2015	-	-	13.95	14.85 →
Sobiesław Pajak	Buy	↑ 01.07.2015	-	02.07.2015	04.08.2015	26%	26%	12.94	15.80 ↑
Sobiesław Pajak	-	→ -	-	16.07.2015	17.07.2015	-	-	13.70	15.80 →
Sobiesław Pajak	Hold	↓ 04.08.2015	-	05.08.2015	04.10.2015	-13%	-6%	16.35	15.80 →
Sobiesław Pajak	-	→ -	-	31.08.2015	01.09.2015	-	-	13.32	15.80 →
Sobiesław Pajak	Buy	↑ 04.10.2015	-	05.10.2015	31.08.2016	75%	80%	14.30	16.50 ↑
Sobiesław Pajak	-	→ -	-	15.10.2015	16.10.2015	-	-	15.00	16.50 →
Sobiesław Pajak	-	→ -	-	16.11.2015	17.11.2015	-	-	15.93	16.50 →
Sobiesław Pajak	-	→ -	-	13.12.2015	14.12.2015	-	-	15.70	18.80 ↑
Sobiesław Pajak	-	→ -	-	17.01.2016	18.01.2016	-	-	15.45	18.80 →
Sobiesław Pajak	-	→ -	-	15.02.2016	16.02.2016	-	-	13.50	18.80 →
Sobiesław Pajak	-	→ -	-	02.03.2016	03.03.2016	-	-	14.84	18.80 →
Sobiesław Pajak	-	→ -	-	21.03.2016	22.03.2016	-	-	18.30	18.80 →
Sobiesław Pajak	-	→ -	-	23.03.2016	24.03.2016	-	-	18.40	23.00 ↑
Sobiesław Pajak	-	→ -	-	13.04.2016	14.04.2016	-	-	18.99	23.00 →
Sobiesław Pajak	-	→ -	-	11.05.2016	11.05.2016	-	-	19.50	22.00 ↓
Sobiesław Pajak	-	→ -	-	16.05.2016	17.05.2016	-	-	18.88	22.00 →
Sobiesław Pajak	-	→ -	-	27.06.2016	28.06.2016	-	-	18.00	22.00 →
Sobiesław Pajak	-	→ -	-	24.07.2016	25.07.2016	-	-	19.71	22.00 →
Sobiesław Pajak	-	→ -	-	04.08.2016	04.08.2016	-	-	22.44	26.00 ↑
Sobiesław Pajak	Buy	→ 31.08.2016	-	01.09.2016	15.03.2017	16%	-6%	23.99	26.00 →
Sobiesław Pajak	-	→ -	-	12.10.2016	13.10.2016	-	-	23.01	26.00 →
Sobiesław Pajak	-	→ -	-	02.11.2016	03.11.2016	-	-	23.10	26.00 →
Sobiesław Pajak	-	→ -	-	04.12.2016	05.12.2016	-	-	23.00	26.20 ↑
Sobiesław Pajak	-	→ -	-	12.01.2017	13.01.2017	-	-	24.01	26.20 →
Sobiesław Pajak	-	→ -	-	08.02.2017	09.02.2017	-	-	23.01	26.20 →
Sobiesław Pajak	-	→ -	-	07.03.2017	08.03.2017	-	-	26.20	26.20 →
Sobiesław Pajak	Hold	↓ 15.03.2017	-	16.03.2017	13.02.2018	-3%	-9%	27.76	29.40 ↑
Sobiesław Pajak	-	→ -	-	11.04.2017	12.04.2017	-	-	26.73	29.40 →
Sobiesław Pajak	-	→ -	-	10.05.2017	11.05.2017	-	-	31.38	28.10 ↓
Sobiesław Pajak	-	→ -	-	30.05.2017	31.05.2017	-	-	30.50	28.10 →
Sobiesław Pajak	-	→ -	-	11.06.2017	12.06.2017	-	-	28.98	29.70 ↑
Sobiesław Pajak	-	→ -	-	12.07.2017	13.07.2017	-	-	28.50	29.70 →
Sobiesław Pajak	-	→ -	-	03.09.2017	04.09.2017	-	-	27.50	29.70 →
Sobiesław Pajak	-	→ -	-	15.10.2017	16.10.2017	-	-	27.30	29.70 →
Sobiesław Pajak	-	→ -	-	15.11.2017	16.11.2017	-	-	25.85	29.70 →
Sobiesław Pajak	-	→ -	-	10.12.2017	11.12.2017	-	-	26.20	28.20 ↓
Sobiesław Pajak	-	→ -	-	10.01.2018	11.01.2018	-	-	27.60	28.20 →
Sobiesław Pajak	-	→ -	-	14.01.2018	15.01.2018	-	-	28.30	30.20 ↑
Sobiesław Pajak	Buy	↑ 13.02.2018	-	14.02.2018	15.03.2018	11%	15%	25.60	30.20 →
Sobiesław Pajak	-	→ -	-	12.03.2018	13.03.2018	-	-	28.90	30.20 →
Sobiesław Pajak	Hold	↓ 15.03.2018	-	16.03.2018	29.05.2018	-14%	-10%	28.50	30.20 →
Sobiesław Pajak	-	→ -	-	16.04.2018	17.04.2018	-	-	28.30	30.20 →
Sobiesław Pajak	-	→ -	-	13.05.2018	14.05.2018	-	-	26.30	28.90 ↓
Sobiesław Pajak	Buy	↑ 29.05.2018	-	30.05.2018	31.08.2018	11%	6%	23.10	28.90 →

LT fundamental recommendation tracker (continued)

Analyst	Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Performance	Relative performance	Price at issue/reiteration*	EFV (12 months)
Sobiesław Pajak	-	→	-	16.07.2018	17.07.2018	-	-	26.90	28.90 →
Sobiesław Pajak	-	→	-	02.08.2018	03.08.2018	-	-	26.00	28.90 →
Sobiesław Pajak	Hold	↓	30.08.2018	-	31.08.2018	09.12.2018	-5%	-1%	25.60 28.90 →
Sobiesław Pajak	-	→	-	11.10.2018	12.10.2018	-	-	24.10	28.90 →
Sobiesław Pajak	-	→	-	23.10.2018	24.10.2018	-	-	24.40	28.90 →
Sobiesław Pajak	-	→	-	14.11.2018	15.11.2018	-	-	24.50	28.90 →
Sobiesław Pajak	Buy	↑	09.12.2018	-	10.12.2018	07.01.2019	22%	20%	24.20 29.50 ↑
Sobiesław Pajak	Hold	↓	07.01.2019	-	08.01.2019	08.12.2019	2%	7%	28.00 29.90 ↑
Sobiesław Pajak	-	→	-	10.01.2019	11.01.2019	-	-	27.90	29.90 →
Sobiesław Pajak	-	→	-	04.02.2019	05.02.2019	-	-	29.50	29.90 →
Sobiesław Pajak	-	→	-	26.02.2019	27.02.2019	-	-	29.50	29.90 →
Sobiesław Pajak	-	→	-	13.03.2019	14.03.2019	-	-	29.50	30.30 ↑
Sobiesław Pajak	-	→	-	26.03.2019	27.03.2019	-	-	29.80	30.30 →
Sobiesław Pajak	-	→	-	22.04.2019	23.04.2019	-	-	29.20	30.30 →
Sobiesław Pajak	-	→	-	24.04.2019	25.04.2019	-	-	28.60	30.30 →
Sobiesław Pajak	-	→	-	29.05.2019	30.05.2019	-	-	27.30	28.80 ↓
Sobiesław Pajak	-	→	-	30.05.2019	31.05.2019	-	-	28.00	28.80 →
Sobiesław Pajak	-	→	-	17.07.2019	18.07.2019	-	-	27.60	28.80 →
Sobiesław Pajak	-	→	-	30.07.2019	31.07.2019	-	-	27.40	28.80 →
Sobiesław Pajak	-	→	-	01.09.2019	02.09.2019	-	-	27.60	28.80 →
Sobiesław Pajak	-	→	-	13.10.2019	14.10.2019	-	-	28.00	28.80 →
Sobiesław Pajak	-	→	-	24.10.2019	25.10.2019	-	-	27.00	28.80 →
Sobiesław Pajak	-	→	-	17.11.2019	18.11.2019	-	-	28.00	28.80 →
Sobiesław Pajak	Hold	→	08.12.2019	-	09.12.2019	06.12.2020	33%	35%	27.00 31.50 ↑
Sobiesław Pajak	-	→	-	09.01.2020	10.01.2020	-	-	28.40	31.50 →
Sobiesław Pajak	-	→	-	14.01.2020	15.01.2020	-	-	28.80	31.50 →
Sobiesław Pajak	-	→	-	04.02.2020	05.02.2020	-	-	33.60	31.50 →
Sobiesław Pajak	-	→	-	06.02.2020	07.02.2020	-	-	33.60	31.50 →
Sobiesław Pajak	-	→	-	03.03.2020	04.03.2020	-	-	35.60	31.50 →
Sobiesław Pajak	-	→	-	30.03.2020	31.03.2020	-	-	31.00	31.50 →
Sobiesław Pajak	-	→	-	22.04.2020	23.04.2020	-	-	35.80	31.50 →
Sobiesław Pajak	-	→	-	17.05.2020	18.05.2020	-	-	34.00	29.70 ↓
Sobiesław Pajak	-	→	-	19.05.2020	20.05.2020	-	-	34.60	29.70 →
Sobiesław Pajak	-	→	-	15.06.2020	16.06.2020	-	-	31.80	29.70 →
Sobiesław Pajak	-	→	-	24.06.2020	25.06.2020	-	-	33.00	35.20 ↑
Sobiesław Pajak	-	→	-	13.07.2020	14.07.2020	-	-	32.60	35.20 →
Sobiesław Pajak	-	→	-	01.09.2020	02.09.2020	-	-	32.70	35.20 →
Sobiesław Pajak	-	→	-	08.10.2020	09.10.2020	-	-	34.20	35.20 →
Sobiesław Pajak	-	→	-	08.11.2020	09.11.2020	-	-	32.80	35.20 →
Sobiesław Pajak	Hold	→	06.12.2020	-	07.12.2020	09.03.2021	15%	7%	34.20 36.30 ↑
Sobiesław Pajak	-	→	-	05.01.2021	05.01.2021	-	-	38.20	36.30 →
Sobiesław Pajak	-	→	-	28.01.2021	29.01.2021	-	-	38.40	36.30 →
Sobiesław Pajak	-	→	-	28.02.2021	01.03.2021	-	-	39.00	36.30 →
Sobiesław Pajak	Buy	↑	09.03.2021	-	09.03.2021	07.02.2022	10%	-3%	39.20 44.20 ↑
Sobiesław Pajak	-	→	-	16.04.2021	16.04.2021	-	-	37.50	44.20 →
Sobiesław Pajak	-	→	-	30.05.2021	31.05.2021	-	-	35.90	44.20 →
Sobiesław Pajak	-	→	-	16.06.2021	17.06.2021	-	-	35.00	42.20 ↓
Sobiesław Pajak	-	→	-	09.07.2021	09.07.2021	-	-	35.00	42.20 →
Sobiesław Pajak	-	→	-	31.08.2021	31.08.2021	-	-	35.80	42.20 →
Sobiesław Pajak	-	→	-	07.10.2021	07.10.2021	-	-	35.30	42.20 →
Sobiesław Pajak	-	→	-	04.11.2021	04.11.2021	-	-	40.00	42.20 →
Sobiesław Pajak	-	→	-	05.12.2021	06.12.2021	-	-	39.50	45.00 ↑
Sobiesław Pajak	-	→	-	16.01.2022	17.01.2022	-	-	42.80	45.00 →
Sobiesław Pajak	Buy	→	07.02.2022	-	07.02.2022	18.03.2022	2%	8%	41.10 45.00 →
Sobiesław Pajak	-	→	-	28.02.2022	28.02.2022	-	-	37.70	45.00 →
Sobiesław Pajak	Hold	↓	18.03.2022	-	18.03.2022	31.10.2022	-26%	-7%	42.00 42.30 ↓
Sobiesław Pajak	-	→	-	14.04.2022	14.04.2022	-	-	42.80	42.30 →
Sobiesław Pajak	-	→	-	26.05.2022	26.05.2022	-	-	40.00	42.30 →
Sobiesław Pajak	-	→	-	08.06.2022	09.06.2022	-	-	39.88	40.10 ↓
Sobiesław Pajak	-	→	-	07.07.2022	07.07.2022	-	-	39.50	36.90 ↓
Sobiesław Pajak	-	→	-	15.07.2022	15.07.2022	-	-	38.40	36.90 →
Sobiesław Pajak	-	→	-	16.08.2022	16.08.2022	-	-	39.10	36.90 →
Sobiesław Pajak	-	→	-	02.09.2022	02.09.2022	-	-	36.00	36.90 →
Sobiesław Pajak	-	→	-	22.09.2022	22.09.2022	-	-	34.00	34.40 ↓
Sobiesław Pajak	-	→	-	07.10.2022	07.10.2022	-	-	30.30	34.40 →
Sobiesław Pajak	-	→	-	28.10.2022	28.10.2022	-	-	29.00	34.40 →
Sobiesław Pajak	Buy	↑	01.11.2022	-	01.11.2022	03.02.2023	26%	4%	28.80 34.40 →
Sobiesław Pajak	-	→	-	04.12.2022	05.12.2022	-	-	31.70	36.00 ↑
Sobiesław Pajak	-	→	-	13.01.2023	13.01.2023	-	-	36.20	36.00 →
Sobiesław Pajak	Hold	↓	03.02.2023	-	03.02.2023	Not later than 03.02.2024	9%	14%	36.40 36.00 →
Sobiesław Pajak	-	→	-	10.03.2023	10.03.2023	-	-	38.00	36.00 →
Sobiesław Pajak	-	→	-	14.03.2023	14.03.2023	-	-	39.50	41.60 ↑

* prices at issue/reiteration are the closing prices at the report or reiteration date
pre-June 2014 recommendations issued at DM IDMSA

Market-relative recommendation tracker

Analyst	Relative Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Price at issue/reiteration*	Relative performance
Asseco BS							
-	Overweight	-	07.02.2008	-	-	21.02.2008	12.50 4%
-	Neutral	↓	21.02.2008	-	-	11.05.2008	13.50 -3%
-	→	-	13.03.2008	-	-	-	13.30
-	→	-	30.03.2008	-	-	-	12.67
-	→	-	08.04.2008	-	-	-	12.66
-	Overweight	↑	11.05.2008	-	-	07.08.2008	12.50 5%
-	→	-	01.06.2008	-	-	-	12.97
-	→	-	29.06.2008	-	-	-	11.45
-	→	-	02.07.2008	-	-	-	11.30
-	→	-	28.07.2008	-	-	-	10.40
-	Neutral	↓	07.08.2008	-	-	09.11.2008	11.30 12%
-	→	-	31.08.2008	-	-	-	12.45
-	→	-	28.09.2008	-	-	-	10.80
-	→	-	01.10.2008	-	-	-	10.00
-	→	-	29.10.2008	-	-	-	8.55
-	Underweight	↓	09.11.2008	-	-	07.01.2009	8.80 -41%
-	→	-	30.11.2008	-	-	-	8.59
-	→	-	15.12.2008	-	-	-	6.20
-	Overweight	↑	07.01.2009	-	-	24.02.2009	5.20 86%
-	→	-	11.01.2009	-	-	-	5.34
-	→	-	08.02.2009	-	-	-	6.39
-	Neutral	↓	24.02.2009	-	-	17.05.2009	7.29 -29%
-	→	-	08.03.2009	-	-	-	6.00
-	→	-	05.04.2009	-	-	-	5.95
-	→	-	14.04.2009	-	-	-	5.62
-	Overweight	↑	17.05.2009	-	-	08.06.2009	6.80 0%
-	Neutral	↓	08.06.2009	-	-	08.07.2009	6.70 -4%
-	Underweight	↓	08.07.2009	-	-	24.08.2009	6.20 -12%
-	→	-	14.07.2009	-	-	-	6.14
-	→	-	02.08.2009	-	-	-	6.57
-	Neutral	↑	24.08.2009	-	-	08.12.2009	7.11 8%
-	→	-	31.08.2009	-	-	-	7.55
-	→	-	06.10.2009	-	-	-	8.53
-	→	-	12.10.2009	-	-	-	8.12
-	→	-	05.11.2009	-	-	-	7.64
-	Overweight	↑	08.12.2009	-	-	15.11.2010	7.90 28%
-	→	-	14.12.2009	-	-	-	8.00
-	→	-	07.01.2010	-	-	-	9.05
-	→	-	03.02.2010	-	-	-	8.79
-	→	-	01.03.2010	-	-	-	9.25
-	→	-	29.03.2010	-	-	-	9.99
-	→	-	31.03.2010	-	-	-	9.82
-	→	-	05.05.2010	-	-	-	10.00
-	→	-	17.05.2010	-	-	-	8.50
-	→	-	14.06.2010	-	-	-	9.03
-	→	-	30.06.2010	-	-	-	9.00
-	→	-	19.07.2010	-	-	-	9.20
-	→	-	31.08.2010	-	-	-	10.00
-	→	-	03.10.2010	-	-	-	10.70
-	→	-	12.10.2010	-	-	-	11.08
-	Overweight	→	15.11.2010	-	-	02.01.2011	11.20 15%
-	→	-	13.12.2010	-	-	-	10.74
-	→	-	15.12.2010	-	-	-	11.20
-	Neutral	↓	02.01.2011	-	-	10.03.2011	12.93 -5%
-	→	-	28.01.2011	-	-	-	12.16
-	→	-	01.03.2011	-	-	-	12.25
-	Overweight	↑	10.03.2011	-	-	11.05.2011	12.10 17%
-	→	-	13.03.2011	-	-	-	12.56
-	→	-	24.03.2011	-	-	-	12.44
-	→	-	20.04.2011	-	-	-	13.20
-	Neutral	↓	11.05.2011	-	-	31.08.2011	13.50 -15%
-	→	-	16.05.2011	-	-	-	12.30
-	→	-	20.06.2011	-	-	-	12.08
-	→	-	25.07.2011	-	-	-	10.92
-	Overweight	↑	31.08.2011	-	-	02.11.2011	9.90 4%
-	→	-	03.10.2011	-	-	-	10.00
-	→	-	24.10.2011	-	-	-	10.02
-	Neutral	↓	02.11.2011	-	-	25.01.2012	9.91 -1%
-	→	-	14.11.2011	-	-	-	10.43
-	→	-	11.12.2011	-	-	-	9.61
-	→	-	01.01.2012	-	-	-	9.29
-	Overweight	↑	25.01.2012	-	-	29.02.2012	9.52 5%
-	Neutral	↓	29.02.2012	-	-	09.03.2012	10.50 -2%
-	Underweight	↓	09.03.2012	-	-	21.06.2012	10.22 1%
-	→	-	20.03.2012	-	-	-	10.75
-	→	-	15.04.2012	-	-	-	10.55
-	→	-	09.05.2012	-	-	-	9.60
-	→	-	15.05.2012	-	-	-	9.61
-	Neutral	↑	21.06.2012	-	-	02.09.2012	9.13 -3%
-	→	-	19.07.2012	-	-	-	8.74
-	Underweight	↓	02.09.2012	-	-	05.11.2012	9.20 -3%
-	→	-	01.10.2012	-	-	-	8.90
-	→	-	10.10.2012	-	-	-	8.37

Market-relative recommendation tracker (continued)

Analyst	Relative Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Price at issue/reiteration*	Relative performance
-	Overweight ↑	05.11.2012	-	-	06.11.2012	9.35	5%
-	Neutral ↓	06.11.2012	-	-	20.10.2013	9.80	12%
-	- →	-	14.11.2012	-	-	9.50	-
-	- →	-	13.12.2012	-	-	10.65	-
-	- →	-	23.01.2013	-	-	10.31	-
-	- →	-	18.02.2013	-	-	11.09	-
-	- →	-	21.03.2013	-	-	11.19	-
-	- →	-	02.04.2013	-	-	11.55	-
-	- →	-	17.04.2013	-	-	11.08	-
-	- →	-	13.05.2013	-	-	10.70	-
-	- →	-	15.05.2013	-	-	11.39	-
-	- →	-	17.06.2013	-	-	11.69	-
-	- →	-	14.07.2013	-	-	10.80	-
-	- →	-	25.07.2013	-	-	11.18	-
-	- →	-	01.09.2013	-	-	11.98	-
-	Neutral →	20.10.2013	-	-	08.04.2014	12.50	1%
-	- →	-	14.11.2013	-	-	13.20	-
-	- →	-	12.12.2013	-	-	12.85	-
-	- →	-	14.01.2014	-	-	13.17	-
-	- →	-	21.01.2014	-	-	13.29	-
-	- →	-	17.02.2014	-	-	12.10	-
-	- →	-	23.03.2014	-	-	12.47	-
-	Overweight ↑	08.04.2014	-	-	07.10.2014	12.65	-1%
-	- →	-	13.04.2014	-	-	12.60	-
-	- →	-	11.05.2014	-	-	12.86	-
-	- →	-	15.05.2014	-	-	12.00	-
-	- →	-	16.06.2014	-	-	11.59	-
-	- →	-	20.07.2014	-	-	11.16	-
-	- →	-	01.09.2014	-	-	11.49	-
-	Neutral ↓	07.10.2014	-	-	01.07.2015	12.00	17%
-	- →	-	14.10.2014	-	-	12.22	-
-	- →	-	16.11.2014	-	-	12.30	-
-	- →	-	14.12.2014	-	-	12.87	-
-	- →	-	18.01.2015	-	-	12.61	-
-	- →	-	10.02.2015	-	-	13.50	-
-	- →	-	23.03.2015	-	-	14.49	-
-	- →	-	26.03.2015	-	-	14.90	-
-	- →	-	19.04.2015	-	-	15.20	-
-	- →	-	13.05.2015	-	-	15.15	-
Sobiesław Pajak	- →	-	17.05.2015	18.05.2015	-	14.30	-
Sobiesław Pajak	- →	-	21.06.2015	22.06.2015	-	13.95	-
Sobiesław Pajak	Overweight ↑	01.07.2015	-	02.07.2015	04.08.2015	12.94	26%
Sobiesław Pajak	- →	-	16.07.2015	17.07.2015	-	13.70	-
Sobiesław Pajak	Neutral ↓	04.08.2015	-	05.08.2015	04.10.2015	16.35	-6%
Sobiesław Pajak	- →	-	31.08.2015	01.09.2015	-	13.32	-
Sobiesław Pajak	Overweight ↑	04.10.2015	-	05.10.2015	13.12.2015	14.30	22%
Sobiesław Pajak	- →	-	15.10.2015	16.10.2015	-	15.00	-
Sobiesław Pajak	- →	-	16.11.2015	17.11.2015	-	15.93	-
Sobiesław Pajak	Neutral ↓	13.12.2015	-	14.12.2015	02.03.2016	15.70	-8%
Sobiesław Pajak	- →	-	17.01.2016	18.01.2016	-	15.45	-
Sobiesław Pajak	- →	-	15.02.2016	16.02.2016	-	13.50	-
Sobiesław Pajak	Overweight ↑	02.03.2016	-	03.03.2016	08.02.2017	14.84	32%
Sobiesław Pajak	- →	-	21.03.2016	22.03.2016	-	18.30	-
Sobiesław Pajak	- →	-	23.03.2016	24.03.2016	-	18.40	-
Sobiesław Pajak	- →	-	13.04.2016	14.04.2016	-	18.99	-
Sobiesław Pajak	- →	-	11.05.2016	11.05.2016	-	19.50	-
Sobiesław Pajak	- →	-	16.05.2016	17.05.2016	-	18.88	-
Sobiesław Pajak	- →	-	27.06.2016	28.06.2016	-	18.00	-
Sobiesław Pajak	- →	-	24.07.2016	25.07.2016	-	19.71	-
Sobiesław Pajak	- →	-	04.08.2016	04.08.2016	-	22.44	-
Sobiesław Pajak	- →	-	31.08.2016	01.09.2016	-	23.99	-
Sobiesław Pajak	- →	-	12.10.2016	13.10.2016	-	23.01	-
Sobiesław Pajak	- →	-	02.11.2016	03.11.2016	-	23.10	-
Sobiesław Pajak	- →	-	04.12.2016	05.12.2016	-	23.00	-
Sobiesław Pajak	- →	-	12.01.2017	13.01.2017	-	24.01	-
Sobiesław Pajak	Overweight ↑	08.02.2017	-	09.02.2017	30.05.2017	23.01	27%
Sobiesław Pajak	- →	-	07.03.2017	08.03.2017	-	26.20	-
Sobiesław Pajak	- →	-	15.03.2017	16.03.2017	-	27.76	-
Sobiesław Pajak	- →	-	11.04.2017	12.04.2017	-	26.73	-
Sobiesław Pajak	- →	-	10.05.2017	11.05.2017	-	31.38	-
Sobiesław Pajak	Neutral ↓	30.05.2017	-	31.05.2017	15.11.2017	30.50	-18%
Sobiesław Pajak	- →	-	11.06.2017	12.06.2017	-	28.98	-
Sobiesław Pajak	- →	-	12.07.2017	13.07.2017	-	28.50	-
Sobiesław Pajak	- →	-	03.09.2017	04.09.2017	-	27.50	-
Sobiesław Pajak	- →	-	15.10.2017	16.10.2017	-	27.30	-
Sobiesław Pajak	Overweight ↑	15.11.2017	-	16.11.2017	30.08.2018	25.85	7%
Sobiesław Pajak	- →	-	10.12.2017	11.12.2017	-	26.20	-
Sobiesław Pajak	- →	-	10.01.2018	11.01.2018	-	27.60	-
Sobiesław Pajak	- →	-	14.01.2018	15.01.2018	-	28.30	-
Sobiesław Pajak	- →	-	13.02.2018	14.02.2018	-	25.60	-
Sobiesław Pajak	- →	-	12.03.2018	13.03.2018	-	28.90	-
Sobiesław Pajak	- →	-	15.03.2018	16.03.2018	-	28.50	-
Sobiesław Pajak	- →	-	16.04.2018	17.04.2018	-	28.30	-
Sobiesław Pajak	- →	-	13.05.2018	14.05.2018	-	26.30	-

Market-relative recommendation tracker (continued)

Analyst	Relative Recommendation	Report date	Reiteration date	Distribution date	Expiry date	Price at issue/reiteration*	Relative performance
Sobiesław Pająk	-	→	-	29.05.2018	-	23.10	-
Sobiesław Pająk	-	→	-	16.07.2018	17.07.2018	26.90	-
Sobiesław Pająk	-	→	-	02.08.2018	03.08.2018	26.00	-
Sobiesław Pająk	Neutral	↓	30.08.2018	-	31.08.2018	30.07.2019	25.60 15%
Sobiesław Pająk	-	→	-	11.10.2018	12.10.2018	24.10	-
Sobiesław Pająk	-	→	-	23.10.2018	24.10.2018	24.40	-
Sobiesław Pająk	-	→	-	14.11.2018	15.11.2018	24.50	-
Sobiesław Pająk	-	→	-	09.12.2018	10.12.2018	24.20	-
Sobiesław Pająk	-	→	-	07.01.2019	08.01.2019	28.00	-
Sobiesław Pająk	-	→	-	10.01.2019	11.01.2019	27.90	-
Sobiesław Pająk	-	→	-	04.02.2019	05.02.2019	29.50	-
Sobiesław Pająk	-	→	-	26.02.2019	27.02.2019	29.50	-
Sobiesław Pająk	-	→	-	13.03.2019	14.03.2019	29.50	-
Sobiesław Pająk	-	→	-	26.03.2019	27.03.2019	29.80	-
Sobiesław Pająk	-	→	-	22.04.2019	23.04.2019	29.20	-
Sobiesław Pająk	-	→	-	24.04.2019	25.04.2019	28.60	-
Sobiesław Pająk	-	→	-	29.05.2019	30.05.2019	27.30	-
Sobiesław Pająk	-	→	-	30.05.2019	31.05.2019	28.00	-
Sobiesław Pająk	-	→	-	17.07.2019	18.07.2019	27.60	-
Sobiesław Pająk	Neutral	→	30.07.2019	-	31.07.2019	14.01.2020	27.40 6%
Sobiesław Pająk	-	→	-	01.09.2019	02.09.2019	27.60	-
Sobiesław Pająk	-	→	-	13.10.2019	14.10.2019	28.00	-
Sobiesław Pająk	-	→	-	24.10.2019	25.10.2019	27.00	-
Sobiesław Pająk	-	→	-	17.11.2019	18.11.2019	28.00	-
Sobiesław Pająk	-	→	-	08.12.2019	09.12.2019	27.00	-
Sobiesław Pająk	-	→	-	09.01.2020	10.01.2020	28.40	-
Sobiesław Pająk	Overweight	↑	14.01.2020	-	15.01.2020	24.06.2020	28.80 42%
Sobiesław Pająk	-	→	-	04.02.2020	05.02.2020	33.60	-
Sobiesław Pająk	-	→	-	06.02.2020	07.02.2020	33.60	-
Sobiesław Pająk	-	→	-	03.03.2020	04.03.2020	35.60	-
Sobiesław Pająk	-	→	-	30.03.2020	31.03.2020	31.00	-
Sobiesław Pająk	-	→	-	22.04.2020	23.04.2020	35.80	-
Sobiesław Pająk	-	→	-	17.05.2020	18.05.2020	34.00	-
Sobiesław Pająk	-	→	-	19.05.2020	20.05.2020	34.60	-
Sobiesław Pająk	-	→	-	15.06.2020	16.06.2020	31.80	-
Sobiesław Pająk	Neutral	↓	24.06.2020	-	25.06.2020	30.05.2021	33.00 -17%
Sobiesław Pająk	-	→	-	13.07.2020	14.07.2020	32.60	-
Sobiesław Pająk	-	→	-	01.09.2020	02.09.2020	32.70	-
Sobiesław Pająk	-	→	-	08.10.2020	09.10.2020	34.20	-
Sobiesław Pająk	-	→	-	08.11.2020	09.11.2020	32.80	-
Sobiesław Pająk	-	→	-	06.12.2020	07.12.2020	34.20	-
Sobiesław Pająk	-	→	-	05.01.2021	05.01.2021	38.20	-
Sobiesław Pająk	-	→	-	28.01.2021	29.01.2021	38.40	-
Sobiesław Pająk	-	→	-	28.02.2021	01.03.2021	39.00	-
Sobiesław Pająk	-	→	-	09.03.2021	09.03.2021	39.20	-
Sobiesław Pająk	-	→	-	16.04.2021	16.04.2021	37.50	-
Sobiesław Pająk	Neutral	→	30.05.2021	-	31.05.2021	26.05.2022	35.90 36%
Sobiesław Pająk	-	→	-	16.06.2021	17.06.2021	35.00	-
Sobiesław Pająk	-	→	-	09.07.2021	09.07.2021	35.00	-
Sobiesław Pająk	-	→	-	31.08.2021	31.08.2021	35.80	-
Sobiesław Pająk	-	→	-	07.10.2021	07.10.2021	35.30	-
Sobiesław Pająk	-	→	-	04.11.2021	04.11.2021	40.00	-
Sobiesław Pająk	-	→	-	05.12.2021	06.12.2021	39.50	-
Sobiesław Pająk	-	→	-	16.01.2022	17.01.2022	42.80	-
Sobiesław Pająk	-	→	-	07.02.2022	07.02.2022	41.10	-
Sobiesław Pająk	-	→	-	28.02.2022	28.02.2022	37.70	-
Sobiesław Pająk	-	→	-	18.03.2022	18.03.2022	42.00	-
Sobiesław Pająk	-	→	-	14.04.2022	14.04.2022	42.80	-
Sobiesław Pająk	Neutral	→	26.05.2022	-	26.05.2022	07.07.2022	40.00 10%
Sobiesław Pająk	-	→	-	08.06.2022	09.06.2022	39.88	-
Sobiesław Pająk	Underweight	↓	07.07.2022	-	07.07.2022	22.09.2022	39.50 -7%
Sobiesław Pająk	-	→	-	15.07.2022	15.07.2022	38.40	-
Sobiesław Pająk	-	→	-	16.08.2022	16.08.2022	39.10	-
Sobiesław Pająk	-	→	-	02.09.2022	02.09.2022	36.00	-
Sobiesław Pająk	Neutral	↑	22.09.2022	-	22.09.2022	Not later than 22.09.2023	34.00 -1%
Sobiesław Pająk	-	→	-	07.10.2022	07.10.2022	30.30	-
Sobiesław Pająk	-	→	-	28.10.2022	28.10.2022	29.00	-
Sobiesław Pająk	-	→	-	01.11.2022	01.11.2022	28.80	-
Sobiesław Pająk	-	→	-	04.12.2022	05.12.2022	31.70	-
Sobiesław Pająk	-	→	-	13.01.2023	13.01.2023	36.20	-
Sobiesław Pająk	-	→	-	03.02.2023	03.02.2023	36.40	-
Sobiesław Pająk	-	→	-	10.03.2023	10.03.2023	38.00	-
Sobiesław Pająk	-	→	-	14.03.2023	14.03.2023	39.50	-

* prices at issue/reiteration are the closing prices at the report or reiteration date
pre-June 2014 recommendations issued at DM IDMSA

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