



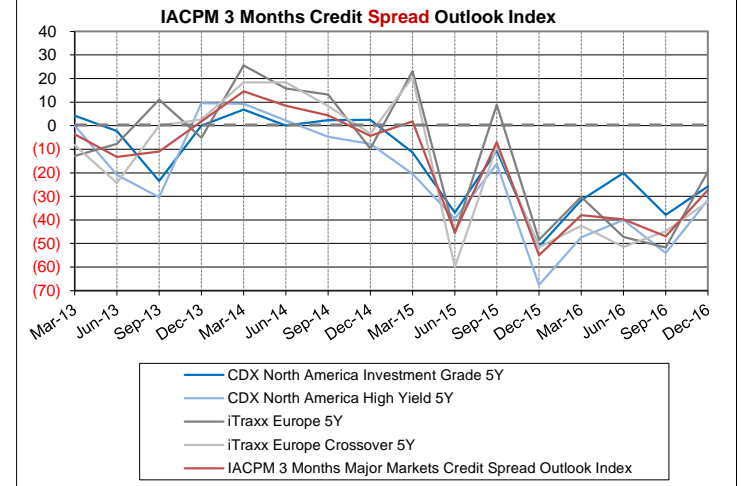
Fourth Quarter 2016 Credit Outlook

Expected direction Credit Spreads will move over the course of the next 3 months

Percent of total respondents selecting the option.	Up (widen)	Unchanged	Down (narrow)	IACPM 3 Months Credit Spread Outlook Index (positive numbers indicate credit improvement)				
	Dec-16	Dec-16	Dec-16	Dec-16	Sep-16	Jun-16	Mar-16	Dec-15
CDX North America Investment Grade 5Y	40%	46%	14%	(25.7)	(37.8)	(20.0)	(31.6)	(51.4)
CDX North America High Yield 5Y	51%	29%	20%	(31.4)	(54.1)	(40.0)	(47.4)	(67.6)
iTraxx Europe 5Y	35%	48%	16%	(19.4)	(51.7)	(47.2)	(30.3)	(48.5)
iTraxx Europe Crossover 5Y	48%	35%	16%	(32.3)	(44.8)	(51.4)	(42.4)	(51.5)

IACPM 3 Months Major Markets Credit Spread Outlook Index (weighted average based on number of responses)

(27.3) (47.0) (39.7) (38.0) (55.0)



Expected direction Credit Default Rates will move over the course of the next 12 months (annual twelve month trailing)

Percent of total respondents selecting the option.	Up	Unchanged	Down	IACPM 12 Months Credit Default Outlook Index (positive numbers indicate credit improvement)				
	Dec-16	Dec-16	Dec-16	Dec-16	Sep-16	Jun-16	Mar-16	Dec-15
Average Corporate	45%	40%	15%	(29.6)	(50.0)	(54.5)	(64.6)	(63.9)
North America Corporate	36%	42%	22%	(13.9)	(55.3)	(48.7)	(82.1)	(65.0)
Europe Corporate	50%	33%	17%	(33.3)	(45.2)	(64.9)	(40.0)	(47.2)
Asia Corporate	65%	29%	6%	(58.8)	(55.6)	(56.0)	(71.4)	(80.8)
Australia Corporate	33%	60%	7%	(26.7)	(41.2)	(45.0)	(66.7)	(70.0)
Average Retail/ Consumer Mortgage	47%	48%	5%	(41.3)	(44.4)	(50.0)	(53.8)	(52.7)
Average Commercial Real Estate	50%	43%	7%	(43.5)	(49.4)	(53.6)	(49.5)	(46.8)

IACPM Aggregate Credit Default Outlook Index (weighted average based on number of responses)

(37.9) (48.1) (52.8) (56.2) (54.8)

