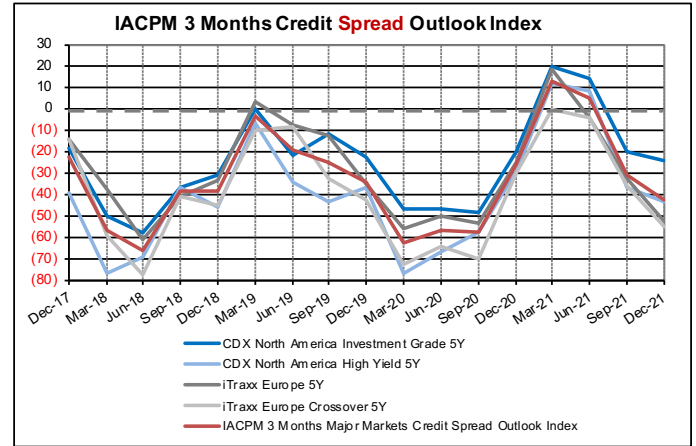




Fourth Quarter 2021 Credit Outlook

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 <i>(positive numbers indicate credit improvement)</i>				
	Dec-21	Dec-21	Dec-21	Dec-21	Sep-21	Jun-21	Mar-21	Dec-20
CDX North America Investment Grade 5Y	38%	48%	14%	(24.1)	(20.0)	14.3	20.0	(20.0)
CDX North America High Yield 5Y	61%	21%	18%	(42.9)	(36.7)	8.8	12.1	(29.4)
iTraxx Europe 5Y	57%	39%	4%	(52.2)	(32.1)	(3.6)	18.8	(25.0)
iTraxx Europe Crossover 5Y	59%	36%	4%	(54.5)	(35.7)	(3.8)	0.0	(29.6)
IACPM 3 Months Major Markets Credit Spread Outlook Index <i>(weighted average based on number of responses)</i>				(42.2)	(31.0)	4.9	13.2	(25.8)



Expected direction **Credit Default Rates** will move over the course of the next 12 months

*(annual twelve month trailing) * starting Jun-20, averages include expected credit default rate direction for South/Central America and Africa.*

Percent of total respondents selecting the option.	Up	Unchanged	Down	IACPM 12 Months Credit Default Outlook Index <i>(positive numbers indicate credit improvement)</i>				
	Dec-21	Dec-21	Dec-21	Dec-21	Sep-21	Jun-21	Mar-21	Dec-20
Average Corporate *	43%	42%	14%	(28.8)	(9.4)	6.0	(19.5)	(51.1)
North America Corporate	39%	42%	18%	(21.2)	(14.7)	7.7	16.7	(44.7)
Europe Corporate	37%	44%	19%	(18.5)	(6.3)	12.1	(31.4)	(58.1)
Asia Corporate	52%	29%	19%	(33.3)	(17.4)	9.1	(13.0)	(42.9)
Australia Corporate	40%	53%	7%	(33.3)	(5.6)	15.0	0.0	(31.3)
Average Retail/ Consumer Mortgage *	42%	45%	13%	(28.7)	(10.3)	2.9	(39.5)	(67.7)
Average Commercial Real Estate *	47%	42%	11%	(36.4)	(29.6)	(1.5)	(62.4)	(74.6)
IACPM Aggregate Credit Default Outlook Index * <i>(weighted average based on number of responses)</i>				(31.2)	(16.2)	2.6	(39.7)	(64.2)

