## Internet Appendix A223: Funds: FX Risk Illustrative Reverse Engineered Pitch Template Example

Pitcher's Name	Xinyuan Zhang (UQ Winter Scholar) F	FoR category	Finance	Date Completed	17/7/17	
(A) Full Reference	Karen L. Benson, Robert W. Faff "The relationship between exchange rate exposure, currency risk management and performance					
	of international equity funds" Pacific-Basin Finance Journal 12 (2004) 333-357.					
(B) Basic Research	To what extent are international funds exposed to exchange rate risk? More importantly, to what extent do FX risk management					
Question	policies affect the exchange rate exposure and performance of these funds?					
(C) Key paper(s)	Benson, K.L., Faff, R.W., 2003. Exchange rate sensitivity of Australian international equity funds. Global Finance Journal 14 (1),					
	95–120.					
	Koski, J. and J. Pontiff (1999), 'How are derivatives used? Evidence from the mutual fund industry'. Journal of Finance 54, 791–					
	Cumby, R.E., Glen, J.D., 1990. Evaluating the performance of the international mutual funds. Journal of Finance 45, 497–521.					
(D) Motivation/Puzzle	While numerous studies have examined the exchange rate exposure and risk management policies of individual corporations and					
	Industry portfolios (generally they have found some evidence of exposure), limited work exists looking at equity funds. Koski and					
THDEE	Ponuli (1999) is one notable exception – they investigate the use of share derivatives within equity mutual funds.					
THREE (E) Idea 2	Three core aspects of any empirical research project i.e. the IDIOIS guide					
(E) Idea:	(a) Survey/Questionnaire: to determine whether fund managers amplexed apositic surrency risk management techniques and if as					
	(a) Survey/Questionnane. to determine whether rund managers employed specific currency fisk management techniques and it so,					
	(b) Exchange rate sensitivity and performance evaluation: identify four major characterizations namely (1) neutral risk					
	management: (2) 'nerfect' hedging: (3) 'asymmetric' hedging and (4) 'systematic' speculation					
	(c) comparison of groups					
	(d) The importance of the type of risk management techniques.					
	Hypothesis: type of risk management techni	niques employed in	fluences the leve	el of exchange rate exposur	re.	
(F) Data?	• 1995-2001					
	The data on currency risk management policies were gathered via a questionnaire, focusing on the previous five to six years.					
	• questionnaire was distributed to 128 of the	e 137 funds and red	ceived 62 useab	le responses representing 1	6 managers.	
	•Price data were obtained from the Morning	gstar database, this	sample compris	sed 137 funds represented b	by 35 managers.	
	•Monthly exchange rate data were obtained	l from the IMF and	Reserve Bank of	of Australia Web sites. All	exchange rates were quoted	
	in terms of the units of foreign currency per	r Australian Dollar	•			
(G) Tools?	1. Questionnaire analysis					
	2. Exchange rate sensitivity: assessed via model developed by Jorion (1990, JoB)					
	3. Performance evaluation: assessed in the context of the Treynor and Mazuy (1966) and Henriksson and Merton (1981)					
	models.					
	4. Comparison of groups - t-test was use	ed to compare fur	nds that do mai	hage currency risk vs. fur	nds that do not.	

	5. The importance of the type of risk management techniques: cross-sectional regressions were estimated in which the absolute value of the exchange rate sensitivity coefficients related to five risk management techniques => diversification of Shares (SH). Futures (FL), Swaps (SW), Forwards (FW) and Options (OP):				
	$ \lambda_i  = \delta_1 + \delta_2 SH_i + \delta_3 OP_i + \delta_4 FU_i + \delta_5 FO_i + \delta_6 SW_i + \varepsilon_i,$	(8)			
	For hedging purposes:				
	$ \lambda_i  = \varsigma_1 + \varsigma_2 \operatorname{HE}_i + \varepsilon_i.$	(9)			
	speculation purposes, Specifically:				
	$\lambda_i = \partial_1 + \partial_2 \mathbf{SP}_i + \varepsilon_i.$	(10)			
	The selectivity coefficients from the T&M and H&M models provide a measure of relative performance and they were used as the dependent variables in regressions similar to (8), (9) & (10)				
	Cross-sectional regression equations were estimated using weighted least squares (WLS).				
TWO	Two key questions				
(H) What's New?	This study is first to explicitly assess the relationship between exchange rate exposure and currency risk management policies and				
	the relationship between the performance of the funds and the currency risk management policies.				
(1) So What?	Insights beneficial to individual investors and fund managers, and Australian international equity trusts (no matter their purpose is				
	could possibly also decrease fund exposure and enhance their fund's performance				
ONE	One bottom line				
(J) Contribution?	Expands our knowledge and understanding of the relationship between exchange rate exposure, curry risk management and performance of international equity funds based on a sample of Australian international equity trusts.				
(K) 3 Key Findings	Questionnaire: international equity fund managers do specifically manage currency risk, with forward contracts and options				
	most frequently employed. Hedging is the primary reason for using derivatives.				
	• Assessment of exchange rate exposure and performance: significant exchange rate exposure for a number of funds - not				
	consistent with a 'perfect' hedging strategy.				
	• Relationships between risk management policies and the exchange rate exposure of funds and between risk management				
	policies and fund performance: risk management dos not greatly impact exchange rate exposure of funds. There is some limited				
	evidence that applying FX risk management policies will enhance the measured (selectivity) abnormal performance of				
	international funds.				