

Case Studies in Financial Engineering

CASE 7

Principal-Protected Equity-Linked Note

Darden School of Business, University of Virginia, Case No. UV7126, March 10, 2016

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- 1. Characterize the structured product, namely by identifying the options embedded and the upside and the risks for investors.
- 2. Estimate the volatility you would use for the pricing of this product, by employing at least two different methodologies.
- 3. Present the valuation of the product, by using:
 - a) Monte Carlo simulation;
 - b) Binomial tree;
 - c) Closed formula.
- 4. What is the probability at the issuance date of an investor to:
 - a) lose more than 20% of the investment?
 - b) obtain a positive return?
- 5. What is the minimum and the maximum potential returns? Please explain your calculations.
- 6. Detail a risk hedging strategy from the buyer and seller perspectives.