

Private Sector Engagement

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PPP Project Dilemma



Public Sector

 A method of procuring and delivering both public assets and public services



Private Sector

 A method of investing capital to capture above average risk-adjusted return



PRIVATE SECTOR'S VIEW



PPP Project Looks Like:

Government Guarantee

 5% return of asset (ROA) per annual

Profit Entitlement

Project partner share up side of the project.

Buy Back Option

 Government can buy back the project at a fixed amount of money



PPP Project Looks Like:

Bond Component

- 5% return of asset (ROA) per annual
- Maturity 15 Year

Convertible Option

- Project partner share upset of the project.
- Expired in 15 Year

Buy Back Option

- Government can buy back the project at a fixed amount of money
- Expired in 15 Year



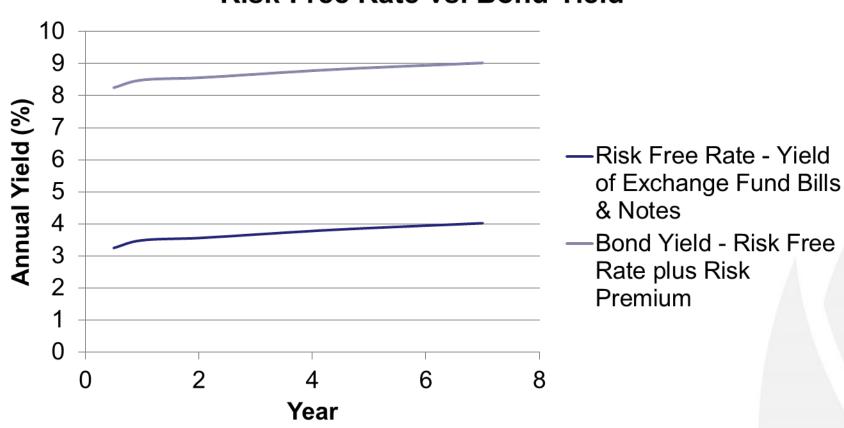
PPP Project Looks Like:

- PPP Project looks like a financial instrument (such as: convertible bond) from the private sector's view.
- PPP Project is about <u>Bond Component</u>
 <u>Value</u>, <u>Convertible Option Value</u>, <u>Buy</u>
 <u>Back Option Value</u>, and their correlation matrices.



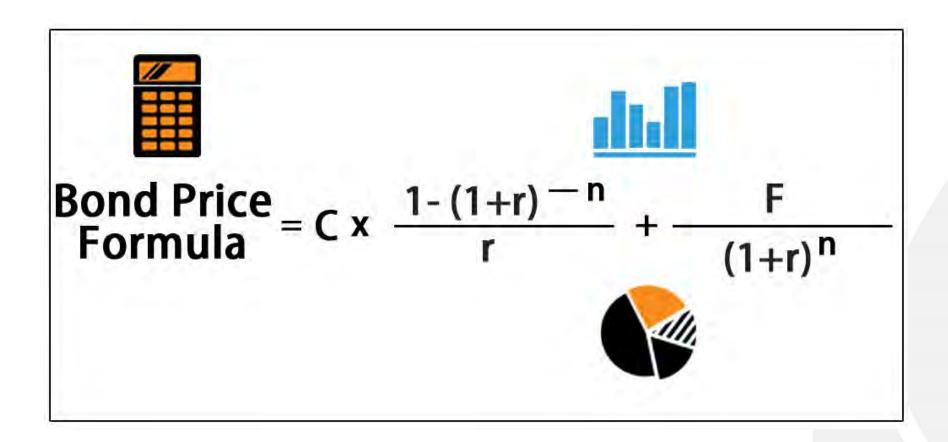
Bond Component Value

Risk Free Rate vs. Bond Yield





Bond Component Value





Derivative Value

Black-Sholes-Merton Model

Continuous
Model

Binomial Model

- "Discrete Time" Model
- Flexible
- Suitable for dividends, and other specific situation

Monte Carlo Model

- Path Dependent Option Pricing
- Suitable for valuating option with large number of parameters



HOW TO IMPROVE THE VALUATION?



Reduce Risk & Improve Upside

- Make Payment On Time
- Reduce Policy Ambiguity
- Exercise Financial Prudence
- Foster Economic Growth
- Etc...



Thank you!

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