

Risk based approach to regulating structured products

Marcello Minenna - Head of Quantitative Analysis Unit, Consob

The Eighth Annual StructuredRetailProducts.com Conference 94 10 February 2011. The Granes St Party London

Syllabus

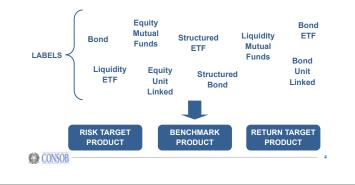
- Preliminaries: closing the gap between risk representation inside prospectus and banks' mark to market valuations
- Investment returns maximization via probabilistic scenarios
- Assessing the comfortable level of risk for the retail investor: a volatility based criterion
- Optimal exit strategies for the retail investor: the recommended investment time horizon

Syllabus

- Preliminaries: closing the gap between risk representation inside prospectus and banks' mark to market valuations
- Investment returns maximization via probabilistic scenarios
- Assessing the comfortable level of risk for the retail investor: a volatility based criterion
- Optimal exit strategies for the retail investor: the recommended investment time horizon

Preliminaries

Non-equity Investment products should be classified according to their financial characteristics and not by "**labels**" assigned by the issuer or by the regulatory framework.



Preliminaries

CONSOB – STRATEGIC PLAN 2010-2012

CONSOB aims at «promoting an enhancement of the transparence levels on non-equity products, particularly on the most complex ones which often incorporate components of derivative nature (also implicitly) linked to market and/or credit risk, on the basis of the so-called "<u>three pillars approach</u>"» beyond a narrative approach.

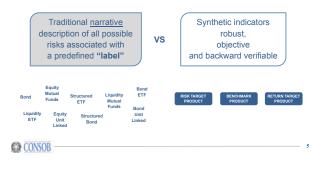


The *risk-based* transparency approach adopted by CONSOB, by privileging substance over form (**'labels''**) when dealing with risks, represents an opportunity also for issuers, which can take advantage of the best opportunities in the market (even though complex in their structure) in order to offer added value to investors.

Preliminaries

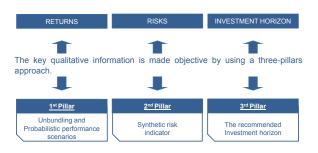
CONSOB

Consob transparency regulation on the risk profile of non-equity products is based on synthetic indicators – defined through specific quantitative methods – in order to allow investors to take informed investment decisions.





CONSOB



Preliminaries

CONSOB

The transparency approach which is developing at <u>the level of the European</u> <u>Community</u>, through the revision of the reference Directives (UCITS, Prospectus, MiFID, PRIPs), seems to drift again towards a logic based on form ("tabel") as opposed to substance, as regards the risks which characterize a given product.

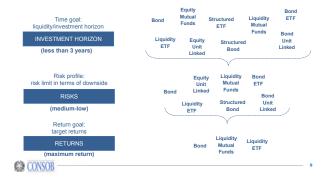
Non-simple products, for which an enhanced transparency supervision is viewed as necessary, are identified among different working groups by means of terms which often display a lack coherence, e.g.:

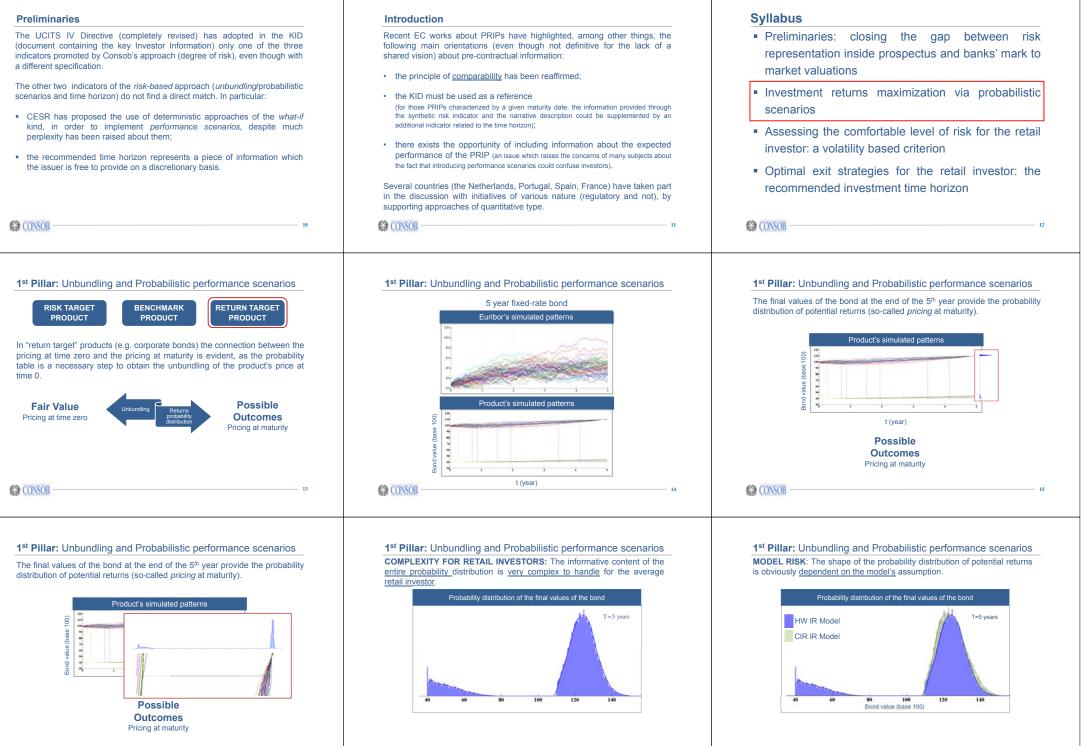


Preliminaries

CONSOB

These metrics provide a guide to investors in the interpretation of complex information conveyed in the offering document, supporting the decision process by means of a sequential filtering procedure:



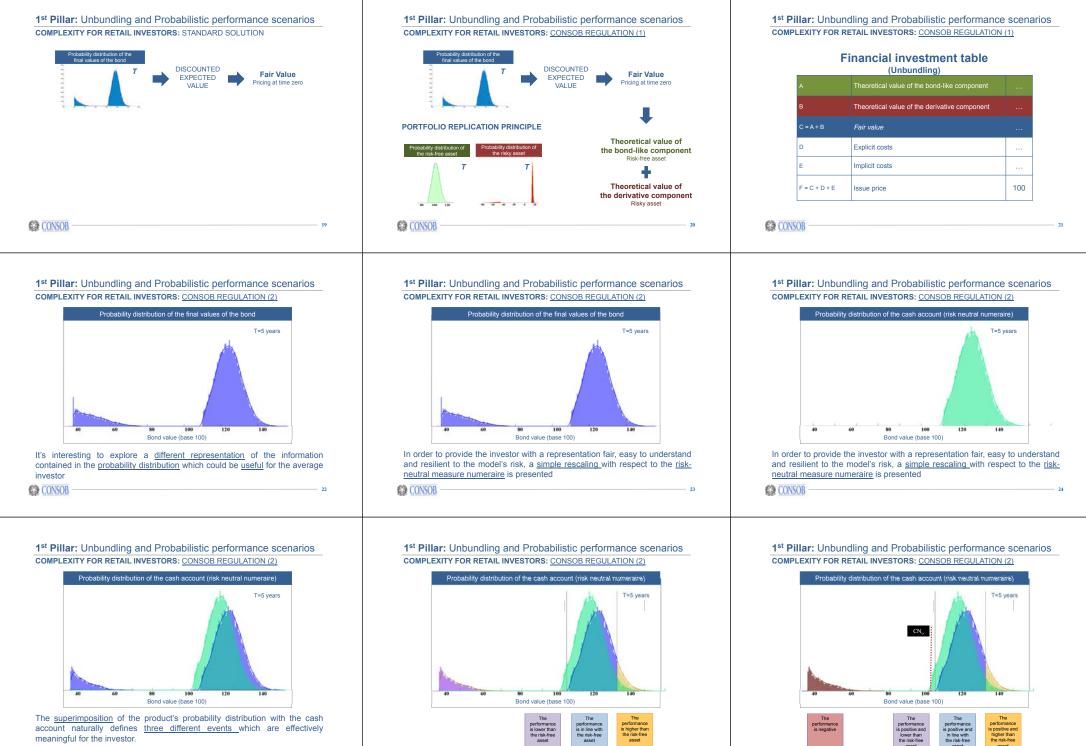


CONSOB -

CONSOB

CONSOB

- 18



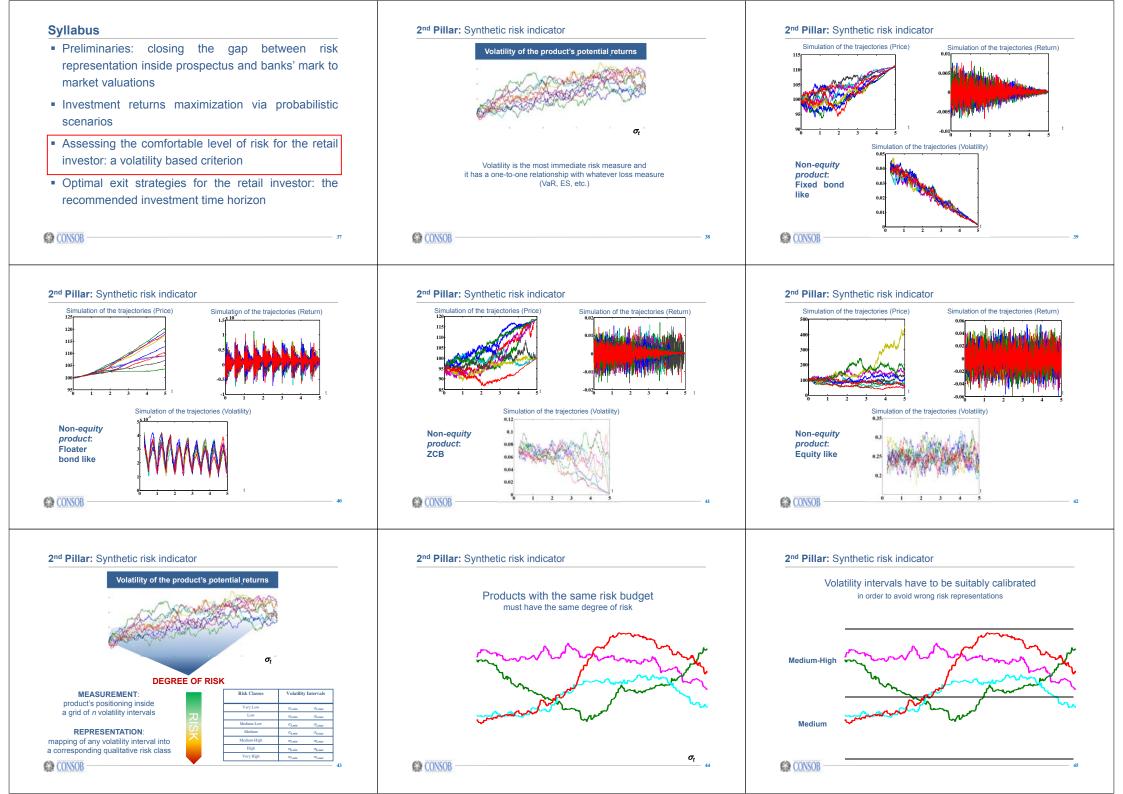
CONSOB -

CONSOB

CONSOE

____ 27

1st **Pillar:** Unbundling and Probabilistic performance scenarios 1st **Pillar:** Unbundling and Probabilistic performance scenarios 1st Pillar: Unbundling and Probabilistic performance scenarios **COMPLEXITY FOR RETAIL INVESTORS:** CONSOB REGULATION (2) COMPLEXITY FOR RETAIL INVESTORS: CONSOB REGULATION (1) e (2) MODEL RISK: CONSOB REGULATION Connection between the pricing at time zero and the The model risk arising from the right to freely use the proprietary models is Probabilistic performance scenario table pricing at the end of recommended investment horizon solved with the reduction in granularity of events SCENARIOS PROBABILITY Many possible choices. The performance is <u>positive but</u> lower than the risk-free asset € CN₀ - C + D + I The performance is <u>positive and</u> in line with the risk-free asset % € e performance is <u>positive and</u> g<u>her</u> than the risk-free asset 1:1 Relationship CONSOB CONSOB CONSOB 1st **Pillar:** Unbundling and Probabilistic performance scenarios 1st Pillar: Unbundling and Probabilistic performance scenarios 1st Pillar: Unbundling and Probabilistic performance scenarios MODEL RISK: CONSOB REGULATION Probabilistic Performance What-if VS The results of the various models show differences between each box of less Scenarios than 5% Example: Narrative description of the product's features. the following output is obtained: The structured product, whose maturity is 7 years, presents returns which are linked to the Dow Jones **Probabilistic** Eurostoxx Index. Performance What-if VS The fund gives annual coupons, equal to 3% of the initial invested capital, but: **Scenarios** if, at any time in the fund life, the reference index falls below 50% of its initial value; tive 43.91 the payment of coupons is interrupted; the S 90.5 at the end of the 7th year the fund will pay back the value of the initial invested capital . increased or reduced on the basis of the index performance; extra hut 4.74% 4 ever than the isk-free asset wer than the sk-free asset o if the index never falls below 50% of its initial value, at the end of the 7th year the fund will pay: the initial value of the investment: moreover, if at the maturity date the index value is greater or equal to twice its initial value. the fund will pay an additional coupon equal to the initial value of the investment. CONSOB CONSOB CONSOB 33 1st Pillar: Unbundling and Probabilistic performance scenarios 1st Pillar: Unbundling and Probabilistic performance scenarios 1st Pillar: Unbundling and Probabilistic performance scenarios Probabilistic Probabilistic Probabilistic Performance What-if Performance What-if vs vs Performance vs What-if Scenarios Scenarios Scenarios What_if" represe 8.6 Performance scenarios relate to a particular form of communicating risk and reward for structured Unfavourable scenario Neutral scenario Favourable scenario remainance scenarios materio o particular nem of comminicating risk and remain as subcased funds. The key considerations for performance scenarios concern the relative effectiveness of communicating risk through () a table showing the likelihood of achieving different rates of return; ii) Research on Kil Representation through the probabilistic performance scenarios table at the end of the 7th year The Dow Jones Eurostoxx value falls below 50% during the first year of the fund's life and at the end of the 7th year Dow Jones Eurostoxx value ne Dow Jones Euro 50% during the life of the fund falls below 50% during the life of the fund and at the end of the 7th year the SCENARIOS PROBABILITY MEDIAN VALUES YIELD reparet to graphs to show the possible return of the fund under favourable and less favourable conditions; and iii) a graph displaying backlesting data showing how the fund would have performed under historic and at the end of the 7th year the performance of the Dow Jone toxx index is equal to 55%. Dow Jones Eurostoxx index is less performance of the Dow Jones Eurosto index is equal to 130%. The performance is negative 38.71% 55.52 -8.06% s initial value market conditions. The follo e fund pays every year a 3% coup The performance is positive but lower 8.45% 110.58 1.45% The fund does not pay any coupon and at and at maturity it pays the initial value of The fund pays every year a 3% coupo than the risk-free asset naturity, it pays 45 on an initial investment and at maturity it pays twice the initia On the test of clarity the evidence shongly supports the use of a table. Investors suggest this form of communication could be insproved by defining technical terms and explaining probability in more detail. In relation to comprehension, improvements need to be wording of messages about product guarantees which are set out in the initial strategy section. × The performance is positive and in line of 100 alue of the investment 36.09% 123.13 3.02% with the risk-free asset The performance is positive and higher 16 75% 223.27 12 16% than the risk-free asset These are poorly understood by investors. anding a graph displaying the table showing different rates of return versus graphs to show possible returns unde different conditions. On the basis of the guardina. mart proved labular version for communicating risk and B However, given that there are mixed consumer prefe man man _____ ames amoz amoz ames amos amos amos Index di rélevine Infradi discourt Index & division CONSOB CONSOB CONSOB







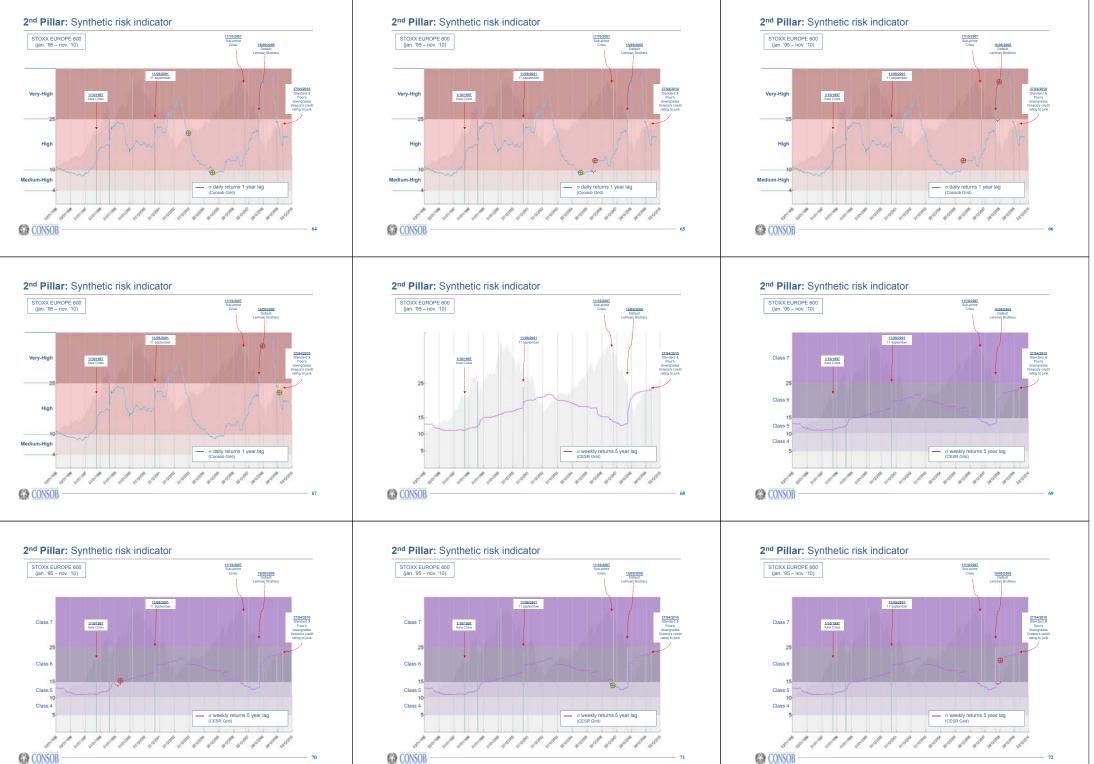
CONSOB

CONSOB

-

li -

CONSOB



CONSOB

CONSOB

