Basel III & CRD IV the impact for the Investment Firms

Link N’ Learn

03rd November 2016
Objectives of the presentation

1. Give a brief overview of Basel III / CRD IV

2. Highlight the Regulatory implications of CRD IV for Investment Firms/Managers of funds
   - Defining the investment firm
   - Improving the Quality and Quantity of Capital
   - Corporate Governance
   - Liquidity Requirements
   - Leverage Ratio
   - Implementation timetable
   - Deloitte CRD IV Services

3. Basel III / CRD IV indirect impacts for investment funds

4. Solvency II: A short introduction on the indirect impacts for asset managers

5. Q&A
Basel III framework
The 3-pillar approach

**Basel Accord** are recommendations on banking laws and regulations issued by the Basel Committee on Banking Supervision. Current Basel framework uses a 3 pillars concepts which are:

**Pillar 1**
**Minimum Regulatory Requirement**
- Eligible own funds should be sufficient to cover capital requirements for
  - Credit Risk
  - Operational Risk
  - Market Risk
- Liquidity requirements
  - Liquidity Coverage Ratio (LCR)
  - Net Stable Funding Ratio (NSFR)
- Leverage requirements
- Large Exposures

**Pillar 2**
**Supervisory review process**
- Review from regulators
- Internal Capital Adequacy Assessment Process (ICAAP) to deal with all types of risks (not only Pillar I), including (but not limited to):
  - Concentration risk
  - Strategic risk
  - Reputation risk
  - Liquidity risk
  - Legal risk
- Internal Liquidity Adequacy Assessment Process (ILAAP)*

**Pillar 3**
**Market discipline**
- To enhance transparency
- Public reporting/ information:
  - Capital structure
  - Capital adequacy
  - Risk profile
  - Remuneration
  - Others
- IFRS 7

*Not applicable to all EU countries yet*
Overview: CRD IV Package within the EU

Key components of the CRD IV package

1. Improve the quality & quantity of the Capital Base
2. Improved short & long term Liquidity standards
3. Reduce Leverage in the banking system
4. Enhancing Risk Coverage, notable counterparty risk

Regulatory Reporting: COREP / FINREP and other reporting requirements

Regulation – CRR (directly applicable)

+ Directive – CRD IV (transposition to national law)
# Types of Investment Firm

According to Art. 4 of the CRR, investment firm means a person which is subject to the following requirements:

Firms that are authorized to provide one of the following investment services:
- Dealing on own account
- Underwriting of financial instruments and/or placing of financial instruments on a firm commitment basis
- Operation of Multilateral Trading Facilities

AND all firms authorised to provide the following ancillary service:
- Safekeeping and administration of financial instruments for the account of clients, including custodianship and related services such as cash/collateral management;

Investment firms that are not authorized to provide one of the following investment services:
- Dealing on own account
- Underwriting of financial instruments and/or placing of financial instruments on a firm commitment basis

**Investment firms with limited authorisation to provide investment services (Art. 95 of the CRR)**

Investment firms that are not authorized to provide one of the following investment services:
- Dealing on own account
- Underwriting of financial instruments and/or placing of financial instruments on a firm commitment basis

**Investment firms which is subject to Art. 96 of the CRR**

Firms that are authorized to provide one of the following investment services:
- Dealing on own account
- Underwriting of financial instruments and/or placing of financial instruments on a firm commitment basis

AND do not hold client money or securities, only undertake dealing on own account and have no external customers (Art. 96 of the CRR)

**Investment firms with no limitations on activities**

Firms that are authorized to provide one of the following investment services:
- Dealing on own account
- Underwriting of financial instruments and/or placing of financial instruments on a firm commitment basis

**Definition**

**Scope of reporting**

- Own funds + capital requirements (C01/C02/C03/C04/C05)
- Exposures and losses from lending collateralized by immovable property (C15) + Asset encumbrance (C32)
- Own funds + capital requirements (C01/C02/C03/C04/C07/C09…)
- Exposures and losses from lending collateralized by immovable property (C15) + Asset encumbrance (C32)
- Liquidity reporting (LCR)
- Liquidity reporting (LCR, NSFR)
- Leverage Ratio (from C40 to C46)
- Large exposure (from C26 to C31)

**Minimum Capital Requirement**

- Higher of:
  - Fixed Overhead Requirement
  - Sum of Market and Requirement

**Investment firms which is subject to Art. 96 of the CRR**

- The sum of:
  - the Fixed Overhead Requirement
  - market and credit risk requirements

**Investment firms with no limitations on activities**

- Own funds + capital requirements (C01/C02/C03/C04/C05/C07/C09…)
- Exposures and losses from lending collateralized by immovable property (C15) + Asset encumbrance (C32)
- Liquidity reporting (LCR, NSFR)
- Leverage Ratio (from C40 to C46)
- Large exposure (from C26 to C31)

The sum of Market, Credit and Operational Risk as required by the rules in the CRR.
Basel III contains various measures aimed at improving the quality of capital, with the ultimate aim to improve loss-absorption capacity in both going concern and liquidation scenarios.

**Tier 1 Capital**
- Tier 1 capital (i.e. common equity) as highest component of Capital
- Common equity = common shares (or equivalent for other legal forms) & retained earnings + other comprehensive income
- Minimum eligibility criteria for inclusion in common equity or additional Tier 1 capital
- Reduction of innovative capital components (e.g. step-up hybrids)

**Tier 2 Capital**
- Tier 2 will be simplified (subcategories “upper & lower Tier 2” will be removed)
- One set of eligibility criteria (less stringent)
- Subordinated to depositors and general creditors
- Restriction that Tier 2 cannot exceed Tier 1 will be removed

**Tier 3 Capital**
- Tier 3 abolished

**Capital Deductions** – should also be considered

**Implications**
Assessment of current capital instruments required, along with an appropriate funding strategy.
## Improving the quantity of Capital

### Total: 10.5% - 16.5% of RWA

<table>
<thead>
<tr>
<th>Tier 1</th>
<th>Tier 2</th>
<th>Capital conservation</th>
<th>Countercyclical buffer</th>
<th>SIFI Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorb losses: going concern</td>
<td>Absorb losses gone concern</td>
<td>Rainy Day</td>
<td>Cooling Credit Cycle</td>
<td></td>
</tr>
<tr>
<td>2013-2015</td>
<td>Min at 8% throughout</td>
<td>2016-2019</td>
<td>2016-2019</td>
<td></td>
</tr>
</tbody>
</table>

### Total Capital min 8% of RWA

- Tier 2 CET1 4.5% RWA
- Tier 2 2.0% RWA

### Buffers: 2.5% - 8.5% of RWA

- Tier 2 CET1 0-2.5%
- Tier 1 CET1 0-2.5%
- 1% CET1 1-2.5%

- Designed to anticipate a potential financial downturn
- Designed to counter the build up of credit in the system at a national level
- Systemically Important banks

- Extension of capital conservation buffer
Corporate Governance

**OBJECTIVE:** CRD IV strengthens the requirements with regard to corporate governance arrangements and processes and introduces new rules aimed at increasing the effectiveness of risk oversight by Boards, improving the status of the risk management function and ensuring effective monitoring by supervisors of risk governance.

**Regulatory Requirements**

The new Directive introduces clear corporate governance arrangements and mechanisms for institutions:

- These rules concern the composition of boards, their functioning and their role in risk oversight and strategy in order to improve the effectiveness of risk oversight by Boards. The status and the independence of the risk management function is also enhanced. Supervisors will play an explicit role in monitoring risk governance arrangements of institutions.
- The measures adopted should help avoid excessive risk-taking by individual institutions and ultimately the accumulation of excessive risk in the financial system. The principle of proportionality, taking into account the size and complexity of the activities of the institution as well as different corporate governance models, applies to all measures.
- Diversity in board composition should contribute to effective risk oversight by boards, providing for a broader range of views and opinion and therefore avoiding the phenomenon of group think.
- Increased transparency regarding the activities of institutions which operate on a multinational basis.

**Transitional Arrangements**

- Rules will apply when the Directive enters into force
- The Directive introduces the concept of ‘significance’

**Key Impacts**

- Impact on board composition, diversity and segregation of duties
- Impact on risk management, oversight and risk governance
Liquidity ratios

Basel III / CRD IV (CRR) introduces two new liquidity ratios with which some investment firms must comply as well as requiring additional data to be reported to regulatory for the purpose of identifying potential liquidity problems. These ratios represent minimum standards of liquidity risk management and must be met on a continuous basis.

<table>
<thead>
<tr>
<th>Liquidity Coverage Ratio (LCR)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquidity Coverage Ratio (LCR)</td>
<td>• Aims to strengthen short-term liquidity profile</td>
</tr>
<tr>
<td>Stock of highly Liquid assets</td>
<td>• Defines level of liquidity buffer to be held to cover short-term funding gaps under severe liquidity stress</td>
</tr>
<tr>
<td>Net cash outflows over 30-day horizon</td>
<td>• Cash flow perspective</td>
</tr>
<tr>
<td>≥ 100%</td>
<td>• Predefined stress scenario</td>
</tr>
<tr>
<td></td>
<td>• Time horizon: 30 days</td>
</tr>
<tr>
<td></td>
<td>• Monthly reporting with the operational capacity to report daily</td>
</tr>
<tr>
<td></td>
<td>• Gradual implementation with a minimum LCR of 70% in 2016 to 100% in 2018</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Net Stable Funding Ratio (NSFR)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Stable Funding Ratio (NSFR)</td>
<td>• Aims to strengthen medium- to long-term funding profile</td>
</tr>
<tr>
<td>Available amount of stable funding</td>
<td>• Assesses the adequacy of the resources of funding compared to the maturity profile of assets</td>
</tr>
<tr>
<td>Required amount of stable funding (Assets)</td>
<td>• Balance sheet perspective</td>
</tr>
<tr>
<td>≥ 100%</td>
<td>• Quarterly reporting</td>
</tr>
<tr>
<td></td>
<td>• Implementation date scheduled for 2018</td>
</tr>
</tbody>
</table>

The regulator also requires to report information on additional liquidity monitoring metrics in order to identify potential rising liquidity stresses in the financial markets.
Leverage ratio

**OBJECTIVE:** Introduce a simple, transparent, non-risk based leverage ratio, acting as a supplementary measure to the risk based capital requirements. It aims at avoiding excessive leverage by firms while still showing strong risk-based capital ratios.

\[
\text{Leverage Ratio} = \frac{\text{Tier 1 Capital}}{\text{Exposure}} \geq 3\%
\]

- Aim to limit risks to financial stability arising from excessive leverage
- The ratio measures the size of the total exposure (without risk measure) to the size of Tier 1
- Quarterly reporting
- Implementation date scheduled for 2018
- Proposition of a minimum of 3%
Definition and structure of the ICAAP (Pillar 2)

definition of the ICAAP

“The ICAAP is a set of sound, effective and complete strategies and processes that allow institutions assessing and maintaining on an ongoing basis the levels, types and distribution of own funds that they consider adequate to cover the nature and level of the risks to which they are or might be exposed.” (CRD, art. 73)

- While no formal structure of the ICAAP is yet defined by the CRD, a typical framework can be described as follows:

- Definition

- Internal own funds adequacy
  - Risk management
    - Exhaustive identification
    - Assessment
    - Stress testing
  - Capital and liquidity management
    - Risk appetite
    - Capital planning
    - Contingency plan

- Internal risk governance
  - Management oversight
  - Roles and responsibilities
  - Documentation
Public Disclosure Requirements (Pillar 3)

Increased disclosures on risk management include:

- Declaration by the management body on the adequacy of risk management arrangements
- Statement of risk profile vis-à-vis risk appetite approved by the Board including key ratios and figures
- Description of the flow of risk information to the Board

**Annual disclosures to be published in conjunction with financial statements**

- Disclosures on governance arrangements
- More extensive disclosures on own funds
- Disclosures on capital buffers
- Summary results of the ICAAP subject to disclosure at discretion of the CBI
- Exposure to credit and dilution risk, operational risk, counterparty credit risk, market risk, non-trading book equities, interest rate risk, securitisations
- Disclosure on remuneration policy
### CRD IV package timetable

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAPITAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leverage</td>
<td>Supervisory monitoring</td>
<td>Parallel run</td>
<td>Disclosure</td>
<td>Introduce minimum standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Equity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conservation buffer</td>
<td></td>
<td>4.0%</td>
<td>4.5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deductions from Common Equity Tier 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tier 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phase out of capital instruments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LIQUIDITY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCR</td>
<td>Observation period Introduce minimum requirement of 60% rising to 100% by 2018</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSFR</td>
<td>Observation period Introduce minimum standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. As proposed in PRA CP 5/13, all CRR deductions are expected to be introduced with immediate effect, except for own funds instruments issued by financial sector entities subject to consolidated supervision. FCA proposal is to retain CRR transitional timetable.
A wide range of Deloitte services to address CRD IV needs

What are the principles that enable the organization to create, deliver and capture value?

What vision drives the organization?

What shared values guide the organization?

What oversight ensures the strategy is executed?

How should execution be structured?

What data, analytics and technology infrastructure enables execution?

CRD IV services and products proposed by Deloitte:

**Strategy**
- What is risk to the strategy and risk of the strategy:
  - Strategic optimisation toolkit (SOT)
  - Investment strategy review (e.g. set up of trading book)
  - Pillar I impact assessment: quick analysis of key changes introduced by CRD IV

**Governance & culture**
- How are risk oversight ensured and behaviors guided by the risk culture:
  - Review / enhance internal governance arrangements (Board risk oversight)
  - Set up Risk Management function
  - Updates of remuneration policies

**Business & operating model**
- How is risk managed:
  - Support in risk appetite definition
  - Liquidity ratios: LCR / NSFR design and implementation
  - RTP / FTP Implementation
  - Pillar II and stress testing: ICAAP / ILAAP enhancement
  - Collateral Management
  - Risk model validation

**Data, analytics and technology**
- How is risk measured and monitored:
  - Package selection
  - Risk analytics – Improving internal dashboarding for risk oversight
  - New regulatory reporting: FINREP / COREP (extended)
  - Optimizing IT architecture (Treasury / Accounting) and data management
  - Data aggregation, reporting and taxonomy

CRD IV Gap Analysis

CRD IV Implementation
Basel III / CRD IV impacts for investment funds
### Impacts for investment firms

<table>
<thead>
<tr>
<th>Impact on financial system</th>
<th>Impact on investment firms</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reduced risk of systemic banking crisis</strong></td>
<td><strong>Additional reporting requirements for investment firms</strong></td>
</tr>
<tr>
<td>• The changes should make a safe system</td>
<td>• COREP, LCR, NSFR</td>
</tr>
<tr>
<td><strong>Reduce lending capacity</strong></td>
<td><strong>Additional disclosure requirements for investment funds</strong></td>
</tr>
<tr>
<td>• Despite the extended timeline expect reduced lending</td>
<td>• Fund managers will need to provide additional information to their institutional investors (e.g. RWA, CVA-risk, exposure to financial sector entities)</td>
</tr>
<tr>
<td><strong>Reduced investor appetite for bank debt and equity</strong></td>
<td><strong>Re-design of investment funds offering</strong></td>
</tr>
<tr>
<td>• Reduced RoE equals Reduced Dividends</td>
<td>• Understanding the impacts of funds offering on the capital structure of institutional investors (use of OTC derivatives, high risk items, use of leverage, exposure to credit institutions of financial sector entities)</td>
</tr>
<tr>
<td><strong>Inconsistent implementation of the Basel III proposals leading to international arbitrage</strong></td>
<td></td>
</tr>
<tr>
<td>• Already been seen with excess capital reserves</td>
<td></td>
</tr>
</tbody>
</table>
Basel III for investment funds
Look-through approaches

The supervisor has given the possibility under some criteria\(^1\) to define the risk-weight of an UCI through to the Look-Through Approach. There are two methods:

The **Full Look-Through** Approach calls for the risk-based capital requirement to be calculated by determining the requirement for each underlying exposure. Therefore, by using the Standardized Approach in order to assess the capital requirement related to the credit risk, assets are grouped into a few categories based on the type of obligor (or type of obligation) and assigned risk-weights ranging from 0% to 100%.

The **Partial Look-Through** Approach calculates capital based on the highest risk weight that applies to any exposures in the fund. Where Fund’s documents indicate maximum percentages that may be invested in different types of exposures, you may use the Partial Look-Through approach, which assumes that the fund will invest the maximum amount permitted in the highest risk weight exposure, and works backward until 100% of the fund is accounted for.

---

1 Criteria are:
- UCI is managed by a company regulated in a member state or in a third country with equivalent supervision
- UCI prospectus indicates permitted assets and investment limits
- At least, annual activity report
But in order to reduce this risk weight, UCI can have different alternatives:
- Being rated by a recognized ECAIs
- Apply the look-through approach.

### Decision Tree to Assess Risk Weights

**Undertaking for collective Investment**

- **Assessment by a nominated ECAI**
  - Yes
  - **Risk Weight based regulation**
  - **150 %**

- **High Risk Assessment**
  - Yes
  - **Average weight of underlying risks**

- **Respect of eligibility criteria**
  - Yes
  - **Transparency**
  - Yes
  - **Average weight with maximum investment limits**

- **Based on investment rules**
  - Yes
  - **100 %**
Basel III for investment funds
Examples under Standardized Approach

For example, the document of the fund stated that it invests in 40% in Shares and 60% in sovereign bonds rated between AAA to A.

<table>
<thead>
<tr>
<th>Partial look-through</th>
<th>We take the highest risk weight for each asset class:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composition (Fund document)</strong></td>
<td><strong>Risk Weight</strong></td>
</tr>
<tr>
<td>40% in shares</td>
<td>100%</td>
</tr>
<tr>
<td>60% sovereign bonds (AAA – A)</td>
<td>20% (A sovereign bonds)</td>
</tr>
</tbody>
</table>

Solvency ratio: 52%

<table>
<thead>
<tr>
<th>Full look-through</th>
<th>We assess the risk weight for each line of the portfolio:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composition (Fund portfolio)</strong></td>
<td><strong>Risk Weight</strong></td>
</tr>
<tr>
<td>40% in shares</td>
<td>100%</td>
</tr>
<tr>
<td>30% Govt. bonds AAA</td>
<td>0%</td>
</tr>
<tr>
<td>25% Govt. Bonds AA</td>
<td>0%</td>
</tr>
<tr>
<td>5% Govt. Bonds A</td>
<td>20%</td>
</tr>
</tbody>
</table>

Solvency ratio: 41%
### Basel III for investment funds

**Illustration with a fixed income fund**

<table>
<thead>
<tr>
<th>Description</th>
<th>Nominal</th>
<th>Currency</th>
<th>Price</th>
<th>Dirty Market Value</th>
<th>Rating</th>
<th>Risk-Weight</th>
<th>Risk-Weighted Asset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria 2020 MTN 144A</td>
<td>3,000,000.00</td>
<td>EUR</td>
<td>103.69</td>
<td>3,165,133.15</td>
<td>AAA</td>
<td>0%</td>
<td>-</td>
</tr>
<tr>
<td>HSBC Cov BOND 10/17</td>
<td>4,000,000.00</td>
<td>EUR</td>
<td>99.84</td>
<td>4,121,572.60</td>
<td>AAA</td>
<td>10%</td>
<td>412,157</td>
</tr>
<tr>
<td>TELECOM ITALIA 09/14 MTN</td>
<td>1,000,000.00</td>
<td>EUR</td>
<td>108.04</td>
<td>1,133,270.41</td>
<td>BBB</td>
<td>100%</td>
<td>1,133,270</td>
</tr>
<tr>
<td>TELEFONICA EM. 09/19 MTN</td>
<td>1,000,000.00</td>
<td>EUR</td>
<td>97.75</td>
<td>984,057.34</td>
<td>A-</td>
<td>50%</td>
<td>492,029</td>
</tr>
<tr>
<td>RHEINL.PF.SCHATZ.V.2004</td>
<td>10,000,000.00</td>
<td>EUR</td>
<td>106.10</td>
<td>10,866,623.29</td>
<td>AAA</td>
<td>0%</td>
<td>-</td>
</tr>
<tr>
<td>SPANIEN 14-25</td>
<td>1,000,000.00</td>
<td>EUR</td>
<td>87.77</td>
<td>897,446.58</td>
<td>BBB-</td>
<td>0%</td>
<td>-</td>
</tr>
<tr>
<td>GRIECHENLAND 10-17</td>
<td>5,000,000.00</td>
<td>EUR</td>
<td>66.70</td>
<td>3,552,410.96</td>
<td>B-</td>
<td>0%</td>
<td>-</td>
</tr>
<tr>
<td>EIB EUR.INV.BK 05/37 MTN</td>
<td>4,000,000.00</td>
<td>EUR</td>
<td>98.68</td>
<td>3,981,471.78</td>
<td>AAA</td>
<td>0%</td>
<td>-</td>
</tr>
<tr>
<td>7.875% BRESIL -GLOBAL-05/15</td>
<td>3,958,871.30</td>
<td>USD</td>
<td>119.75</td>
<td>3,584,153.14</td>
<td>BBB</td>
<td>50%</td>
<td>1,792,077</td>
</tr>
<tr>
<td>FNMA TBA 4.5%</td>
<td>2,850,000.00</td>
<td>USD</td>
<td>102.27</td>
<td>2,158,940.97</td>
<td>AAA</td>
<td>20%</td>
<td>431,788</td>
</tr>
<tr>
<td>Current Account</td>
<td>398,732.31</td>
<td>EUR</td>
<td>100.00</td>
<td>388,732.31</td>
<td>A</td>
<td>20%</td>
<td>79,748</td>
</tr>
</tbody>
</table>

**Net Asset Value:** 34,873,812.53  
**Total Risk-Weighted Assets:** 4,341,067.57  
**Solvency Ratio:** 12.45%
### Basel III for investment funds

**Illustration with a fund of funds**

<table>
<thead>
<tr>
<th>Description</th>
<th>Nominal</th>
<th>Currency</th>
<th>Price</th>
<th>Dirty Market Value</th>
<th>Rating</th>
<th>Risk-Weight</th>
<th>Risk-Weighted Asset</th>
</tr>
</thead>
<tbody>
<tr>
<td>DONG ENER 4.63% 21/06/14</td>
<td>300,000</td>
<td>EUR</td>
<td>101.34</td>
<td>311,347.79</td>
<td>BBB</td>
<td>100%</td>
<td>311,348</td>
</tr>
<tr>
<td>BP CB COVERED REGS 06/15 3.875</td>
<td>500,000</td>
<td>EUR</td>
<td>100.42</td>
<td>507,954.21</td>
<td>AAA</td>
<td>10%</td>
<td>50,795</td>
</tr>
<tr>
<td>BARCLAYS BANK PLC COVERED 01/15 3.125</td>
<td>500,000</td>
<td>EUR</td>
<td>100.44</td>
<td>504,146.20</td>
<td>AAA</td>
<td>10%</td>
<td>50,415</td>
</tr>
<tr>
<td>EURO BUND FUTURES MAR15</td>
<td>5.00</td>
<td>EUR</td>
<td>125.31</td>
<td>30,000.00</td>
<td>AA</td>
<td>20%</td>
<td>7,880</td>
</tr>
<tr>
<td>ITALY 3.5% 15/03/15</td>
<td>2,000,000</td>
<td>EUR</td>
<td>100.38</td>
<td>2,025,634.68</td>
<td>BBB</td>
<td>0%</td>
<td>-</td>
</tr>
<tr>
<td>Bond fund</td>
<td>49,966</td>
<td>EUR</td>
<td>9.86</td>
<td>492,664.76</td>
<td>NR</td>
<td>12.45%</td>
<td>63,672</td>
</tr>
<tr>
<td>Absolute Retrun Fund</td>
<td>155,000</td>
<td>EUR</td>
<td>10.56</td>
<td>1,636,900.00</td>
<td>NR</td>
<td>57.64%</td>
<td>121,599</td>
</tr>
<tr>
<td>Global Balanced Fund</td>
<td>31,800</td>
<td>USD</td>
<td>11.73</td>
<td>500,532.00</td>
<td>NR</td>
<td>19.27%</td>
<td>373,101</td>
</tr>
<tr>
<td>Dynamic</td>
<td>149,900</td>
<td>EUR</td>
<td>9.59</td>
<td>1,437,541.00</td>
<td>NR</td>
<td>100%</td>
<td>1,437,541</td>
</tr>
<tr>
<td>SPAIN 5.4% 30/07/14</td>
<td>1,000,000</td>
<td>EUR</td>
<td>101.09</td>
<td>1,033,642.06</td>
<td>BBB</td>
<td>0%</td>
<td>-</td>
</tr>
<tr>
<td>Current Account</td>
<td>20,000</td>
<td>EUR</td>
<td>100.00</td>
<td>20,000.00</td>
<td>AA</td>
<td>20%</td>
<td>4,000</td>
</tr>
</tbody>
</table>

**Net Asset Value:** 8,500,262.90  
**Total Risk-Weighted Assets:** 2,420,350.48

**Solvency Ratio:** 28.47%
Additional impact of Basel III on the asset management industry

### Credit Valuation Adjustment

- Basel III / CRD IV will have further impacts on the Credit Counterparty Risk (CCR) exposure and related capital requirements. More precisely, institutions will be required to calculate the **own funds requirements for Credit Valuation Adjustment** (or CVA) risk for all **OTC derivative instruments**. CVA means an adjustment to the mid-market valuation of the portfolio of OTC transactions with a counterparty. That adjustment reflects the current market value of the credit risk of the counterparty to the institution.
- Own funds requirements for CVA risk are calculated either according to the advanced method (IRB) or to the standardized one. Impact in the standardized approach is assessed to be around 4% of total Risk Weighted Assets (RWA).
- The CVA can be reduced through hedging, with two types of eligible hedges: Single Credit Default Swap (CDS) or Index CDS.
- Note that transactions with a **central counterparty are excluded** from the own funds requirements for CVA risk.
- These requirements are in force since **January 1, 2014**.

### Eligibility of CIU’s shares as “liquid assets” in the calculation of the forthcoming Liquid Coverage Ratio (LCR)

Shares or units in CIUs may be treated as liquid assets up to an **absolute amount of 500 million EUR** in the portfolio of liquid assets of each institution if:
- CIU is managed by a company that is subject to supervision in a Member State or equivalent in the case of a third country CIU.
- The CIU discloses documents (prospectus, …) that details the categories of assets in which CIU invests as well as the investment limits (if any) and the way to calculate them.
- The CIU reports, at least on an annual basis, information to enable an assessment to be made of the assets and liabilities, income and operations over the reporting period.
- The CIU only invest in **liquid assets** or **derivatives to mitigate its risks** (interest rate, credit, FX).
Solvency II for asset managers
What is Solvency II?

- Solvency II is based on three guiding principles which cut across undertaking risks, market, liquidity, operational...
- The new system is intended to offer insurance undertaking incentives to better measure and manage their risk situation - i.e. lower capital requirements, lower pricing etc.
- The new solvency system will include both quantitative and qualitative aspects of risks. Each pillar focusing on a different regulatory component.

**SOLVENCY II**

<table>
<thead>
<tr>
<th>PILLAR I</th>
<th>PILLAR II</th>
<th>PILLAR III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital requirements</td>
<td>Governance &amp; supervision</td>
<td>Disclosures</td>
</tr>
<tr>
<td>Assets &amp; liabilities valuation</td>
<td>Technical provisions</td>
<td>Governance system</td>
</tr>
<tr>
<td>Own funds</td>
<td>Solvency capital requirements</td>
<td>Supervisory review</td>
</tr>
<tr>
<td>Minimum capital requirement</td>
<td>Investment rules</td>
<td>Groups control</td>
</tr>
<tr>
<td>Supervisory reporting</td>
<td>Public information</td>
<td></td>
</tr>
</tbody>
</table>

**Two thresholds:**
- Solvency capital requirements (SCR)
- Minimum capital requirements (MCR)

Harmonised standards for:
- Valuation of assets and liabilities
- Eligibility criteria of own funds

- Effective risk management system
- Own risks and solvency assessment (ORSA)
- Supervisory review & intervention

- Insurers are required to publish details on risks, capital adequacy and risk management
- Transparency and open information are intended to assess market forces in imposing greater discipline to the industry
Insurance market share in the investment funds industry

- 29% of life Insurance undertaking’s portfolios are composed of investment funds
- The share of investment funds in the insurer portfolio increased of 11% over the last four years
- Assets under management for the life insurance sector (Euro area) > EUR 8.5 bn

Structure life insurer’s investment portfolio

Euro area

<table>
<thead>
<tr>
<th>Year</th>
<th>Investment funds shares</th>
<th>Shares and other equity</th>
<th>Securities other than shares</th>
<th>Loans</th>
<th>Deposits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>26%</td>
<td>13%</td>
<td>42%</td>
<td>12%</td>
<td>12%</td>
</tr>
<tr>
<td>2011</td>
<td>26%</td>
<td>12%</td>
<td>42%</td>
<td>12%</td>
<td>12%</td>
</tr>
<tr>
<td>2012</td>
<td>28%</td>
<td>12%</td>
<td>43%</td>
<td>12%</td>
<td>11%</td>
</tr>
<tr>
<td>2013</td>
<td>28%</td>
<td>12%</td>
<td>43%</td>
<td>6%</td>
<td>10%</td>
</tr>
<tr>
<td>2014-02</td>
<td>29%</td>
<td>12%</td>
<td>43%</td>
<td>6%</td>
<td>10%</td>
</tr>
</tbody>
</table>

Weight of the life insurance in the funds industry

<table>
<thead>
<tr>
<th>Year</th>
<th>Non insurance</th>
<th>Insurance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008-12</td>
<td>0%</td>
<td>10%</td>
</tr>
<tr>
<td>2009-12</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>2010-12</td>
<td>20%</td>
<td>30%</td>
</tr>
<tr>
<td>2011-12</td>
<td>30%</td>
<td>40%</td>
</tr>
<tr>
<td>2012-12</td>
<td>40%</td>
<td>50%</td>
</tr>
<tr>
<td>2013-12</td>
<td>50%</td>
<td>60%</td>
</tr>
</tbody>
</table>

Source: ECB

© 2015 Deloitte Tax & Consulting
Solvency II – Implementation phase and reporting frequency

One of the major challenges for Asset Managers is to be able to cope with the frequency and timeframe of the reporting imposed on insurance undertakings.

There are two different frequencies for the reports:

- **Annual Reports** – to be provided within 22 weeks after the end of the year. The first annual report should be produced beginning 2015 during the preparatory phase of Solvency II
- **Quarterly Reports** – to be provided within 8 weeks after the end of the quarter beginning Q3 2015. In 2016, the reports will have to be provided within 7 weeks
# Solvency II for investment funds
## Challenges & opportunities for asset managers

## Pillar 1
### Quantitative Requirements

**Opportunities**
- Creating bespoke products
  
  Insurers will need tailor made products that reflect their risk tolerances and minimise capital requirements

**Challenges**
- Availability and quality of input data
  
  Updated quantitative methodologies may require more detail on investment strategy and investments data from the investment manager which may require new processes with custodians and administrators

- Granularity of data and analysis
  
  The regulation requires more detailed analysis of risks and sensitivities, which increases the volume of modelling data that needs to be processed by actuaries

- Different requirements
  
  Different Insurers are likely to have different information requirements for their models

## Pillar 2
### Supervisor Review

**Opportunities**
- Insurers will want to invest with managers that can evidence minimal operational risks

**Challenges**
- Evidencing risk management to clients

  ISAE 3402 generally cover financial reporting risks, so evidencing risk management over investment risks will be a challenge (regular DD reviews are not likely to fulfil this requirement). Insurers need to quantify the risks embedded in the asset manager

- On-going risk management

  Insurers will need to monitor asset managers and their products on an on-going basis

## Pillar 3
### Market Discipline

**Opportunities**
- Insurers need managers who can provide quality data in a timely fashion

**Challenges**
- Report delivery time and frequency

  In general, the current report delivery timelines are not satisfactory for public disclosure requirements and the frequency does not allow the management to react quickly to changes in business or environment. Insurers will need quality data within days of quarter end to meet current proposed reporting requirements to regulators of 20 business days

- On-demand capability

  A compliant insurer must be able to answer supervisor’s queries promptly and provide supportive quantitative information
Questions?