

RISKY RATINGS?

*Reducing Over-Reliance by using
the Agencies' analysis sensibly*

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‘Lessons from the Financial Crisis’

Lesson 1: **Use of Credit Rating agencies (CRAs)**

Lesson 2: **What are CRAs?**

Lesson 3: **Inter-agency comparability?**

Lesson 4: **Super Seniors (Intra-agency comparability)?**

Lesson 5: **Definition of ‘Rating’**

Lesson 6: **Captured risks**

Lesson 7: **Constructive criticism**

Lesson 8: **Failures**

Lesson 9: **Risk of Over-Reliance & Mitigants**

Lesson 10: **Using CRAs’ analysis sensibly**

Appendix: **Origin & History, Global CRAs, Rating scope,
Rating actions & Process, Benefits, Limitations**

LESSON 1:

Use of Credit
Rating agencies

Q) Do you use Rating agencies (CRAs)?



WHO uses ratings ...

Banks, Other Financial Institutions, Originators & Issuers,
Investors, Financial Regulators, Other Rating agencies, etc.

...

WHY are ratings used...

- **Outsource analysis**
- Determine required **economic** and **regulatory capital charges**
- **Manage** individual credit & portfolio **risks**
- Feature as **input into** Structured Finance **models**
(CDO² etc.)

LESSON 2:

What are CRAs?



Q) HOW many CRAs exist globally?



- 1) A.M. Best Company, Inc.
- 2) Agosto & Co. Ltd.
- 3) Ahbor Rating
- 4) Apoyo & Asociados Internacionales S.A.C.
- 5) Bank Watch Ratings S.A.
- 6) BRC Investor Services S.A.
- 7) Calificadora de Riesgo, PCA
- 8) Capital Intelligence, Ltd.
- 9) Caribbean Information & Credit Rating Services Ltd. (CariCRIS)
- 10) Central European Rating Agency (CERA)
- 11) Chengxin International Credit Rating Co., Ltd.
- 12) China Lianhe Credit Rating, Co. Ltd.
- 13) Clasificadora de Riesgo Humphreys, Ltda.
- 14) Class y Asociados S.A. Clasificadora de Riesgo
- 15) CMC International, Ltd.
- 16) Companhia Portuguesa de Rating, SA (CPR)
- 17) Credit Analysis & Research Ltd (CARE)
- 18) "Credit-Rating": A Ukrainian rating agency
- 19) Credit Rating Agency of Bangladesh, Ltd. (CRAB)
- 20) Credit Rating Information and Services, Ltd. (CRISL)
- 21) CRISIL, Ltd.
- 22) Dagong Global Credit Rating Co., Ltd.
- 23) Demotech, Inc.
- 24) Dominion Bond Rating Service (DBRS)
- 25) Duff & Phelps de Colombia, S.A., S.C.V
- 26) Ecuability, SA
- 27) Egan-Jones Rating Company
- 28) Equilibrium Clasificadora de Riesgo
- 29) European Rating Agency (ERA)
- 30) Feller Rate Clasificadora de Riesgo
- 31) Fitch Ratings, Ltd.
- 32) Global Credit Rating Co.
- 33) HR Ratings de Mexico, S.A. de C.V.
- 34) Interfax Rating Agency (IRA)
- 35) Investment Information and Credit Rating Agency (ICRA)
- 36) Islamic International Rating Agency, B.S.C. (IIRA)

- 37) Istanbul International Rating Services, Inc.
- 38) Japan Credit Rating Agency, Ltd. (JCR)
- 39) JCR Avrasya Derecelendime A.S.
- 40) JCR-VIS Credit Rating Co. Ltd.
- 41) Kobirate Uluslararası Kredi Derecelendirme ve Kurumsal Yönetim Hizmetleri A.Ş.
- 42) Korea Investors Service, Inc. (KIS)
- 43) Korea Ratings Corporation
- 44) LACE Financial Corp,
- 45) Lanka Rating Agency, Ltd. (LRA)
- 46) Malaysian Rating Corporation Berhad (MARC)
- 47) Mikuni & Co., Ltd.
- 48) Moody's Investors Service
- 49) National Information & Credit Evaluation, Inc. (NICE)
- 50) ONICRA Credit Rating Agency of India, Ltd.
- 51) P.T. Kasnic Credit Rating Indonesia -- Indonesia
- 52) P.T. PEFINDO Credit Rating Indonesia
- 53) Pacific Credit Rating (PCR) Pakistan Credit Rating Agency, Ltd.
- 54) Philippine Rating Services, Corp. (PhilRatings)
- 55) RAM Rating Services Berhad (RAM)
- 56) Rapid Ratings International, Inc.
- 57) Rating and Investment Information, Inc. (R&I)
- 58) Realpoint, LLC
- 59) Rus Ratings
- 60) Saha Kurumsal Yönetim ve Kredi Derecelendirme Hizmetleri A.Ş
- 61) Seoul Credit Rating & Information, Inc.
- 62) Shanghai Credit Information Services Co., Ltd.
- 63) Shanghai Far East Credit Rating Co., Ltd.
- 64) Slovak Rating Agency, a.s. (SRA)
- 65) SME Rating Agency of India Limited (SMERA)
- 66) Sociedad Calificadora de Riesgo Centroamericana, S.A.
- 67) Standard and Poors (S&P)
- 68) Taiwan Ratings, Corp. (TCR)
- 69) Thai Rating and Information Services Co., Ltd. (TRIS)
- 70) TheStreet.com Ratings, Inc.
- 71) TCR Kurumsal Yönetim ve Kredi Derecelendirme Hizmetleri A.S.
- 72) Veribanc, Inc.

WHAT are Credit Rating Agencies?

- Rating agencies are **intermediaries** in capital markets
- They **collate and evaluate information** on the issuer, and **disseminate opinions** to investors (and other interested parties)
- Other intermediaries are banks and insurance companies
- Issuers expect **reduced cost of funds**
- Issuers expect **access to broader investor pool**
- **Increased role** of rating agencies:
 - Financial disintermediation; bank/ borrower to issuer/ buyer
 - Regulation

LESSON 3:
Inter-agency
comparability

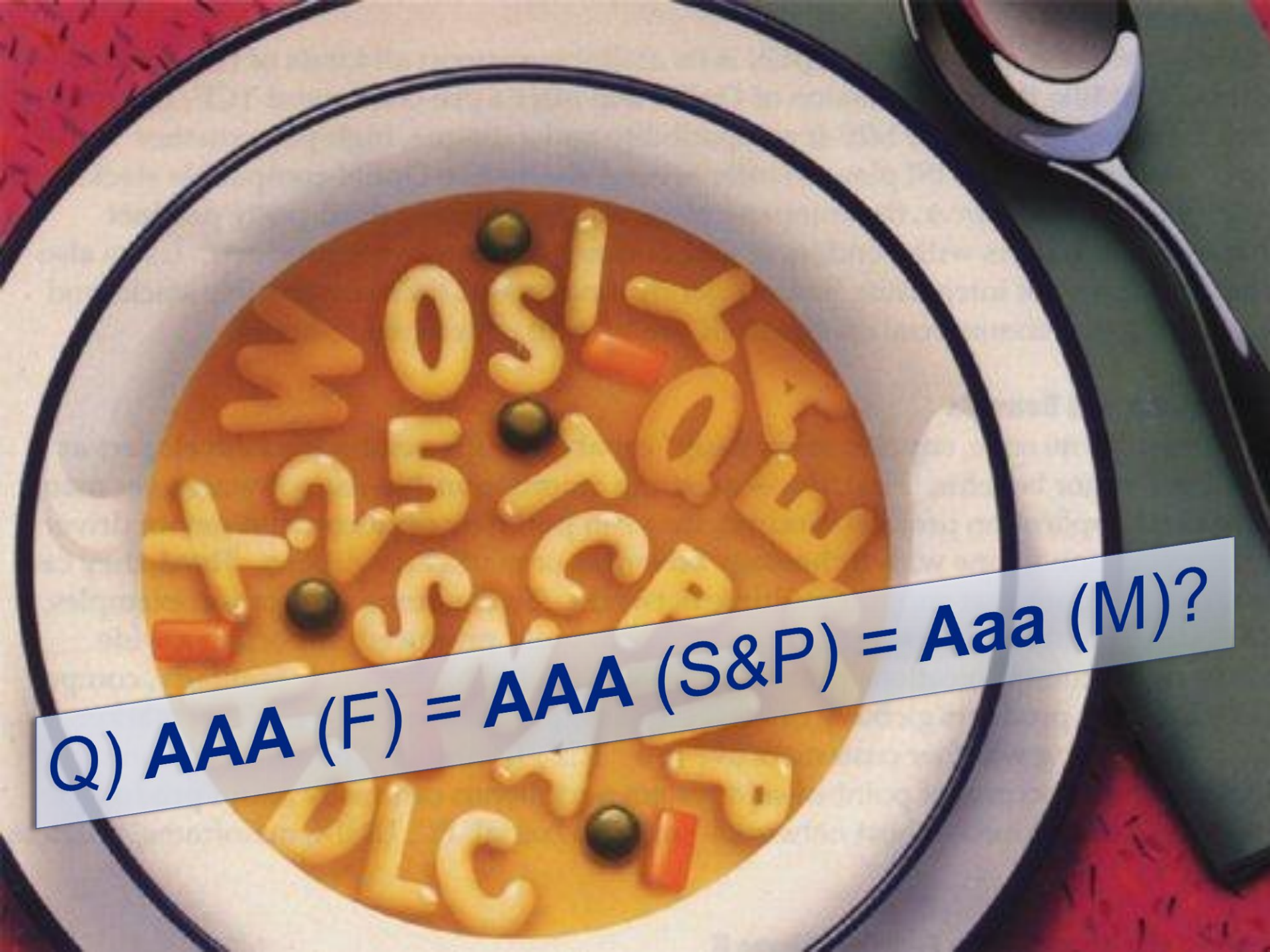
Q) $D(F) = D(S\&P) = D(M)$



RATINGS 'MAPPING' TABLE

Investment Grade	Fitch Ratings		Moody's		Standard & Poors		Mapped internal rating
	Long-term rating	Short-term rating	Long-term rating	Short-term rating	Long-term rating	Short-term rating	
	AAA	F1+	Aaa	P1	AAA	A-1+	iAAA
	AA+		Aa1		AA+		iAA+
	AA		Aa2		AA		iAA
	AA-	F1+ or F1	Aa3		AA-	A-1	iAA-
	A+		A1		A+		iA+
	A	F1	A2	P-1 or P-2	A	A-1 or A-2	iA
	A-	F1 or F2	A3	P-2	A-	A-2	iA-
	BBB+	F2	Baa1	P-2 or P-3	BBB+	A-2 or A-3	iBBB+
	BBB	F2 or F3	Baa2	P-3	BBB	A-3	iBBB
	BBB-	F3	Baa3		BBB-		iBBB-
Speculative Grade	BB+	B	Ba1	Not Prime	BB+	B Ranges within B-1, B-2 and B-3	iBB+
	BB		Ba2		BB		iBB
	BB-		Ba3		BB-		iBB-
	B+	C	B1		B+		iB+
	B		B2		B		iB
	B-		B3		B-		iB-
	CCC+		Caa1		CCC+	C	iCCC+
	CCC		Caa2		CCC		iCCC
	CCC-		Caa3		CCC-		iCCC-
	CC		Ca		CC		iCC
	C		C		C		iC
	DDD, DD, D	D			D	D	iD

Moody's 



Q) **AAA (F) = AAA (S&P) = Aaa (M)?**

ANALYTICAL DIFFERENCES

FitchRatings
KNOW YOUR RISK



**Rating
Analysis**



**STANDARD
& POOR'S**

RATING PRINCIPLES

Fitch Ratings, Standard & Poor's:

Probability of default (PD) = First dollar of loss

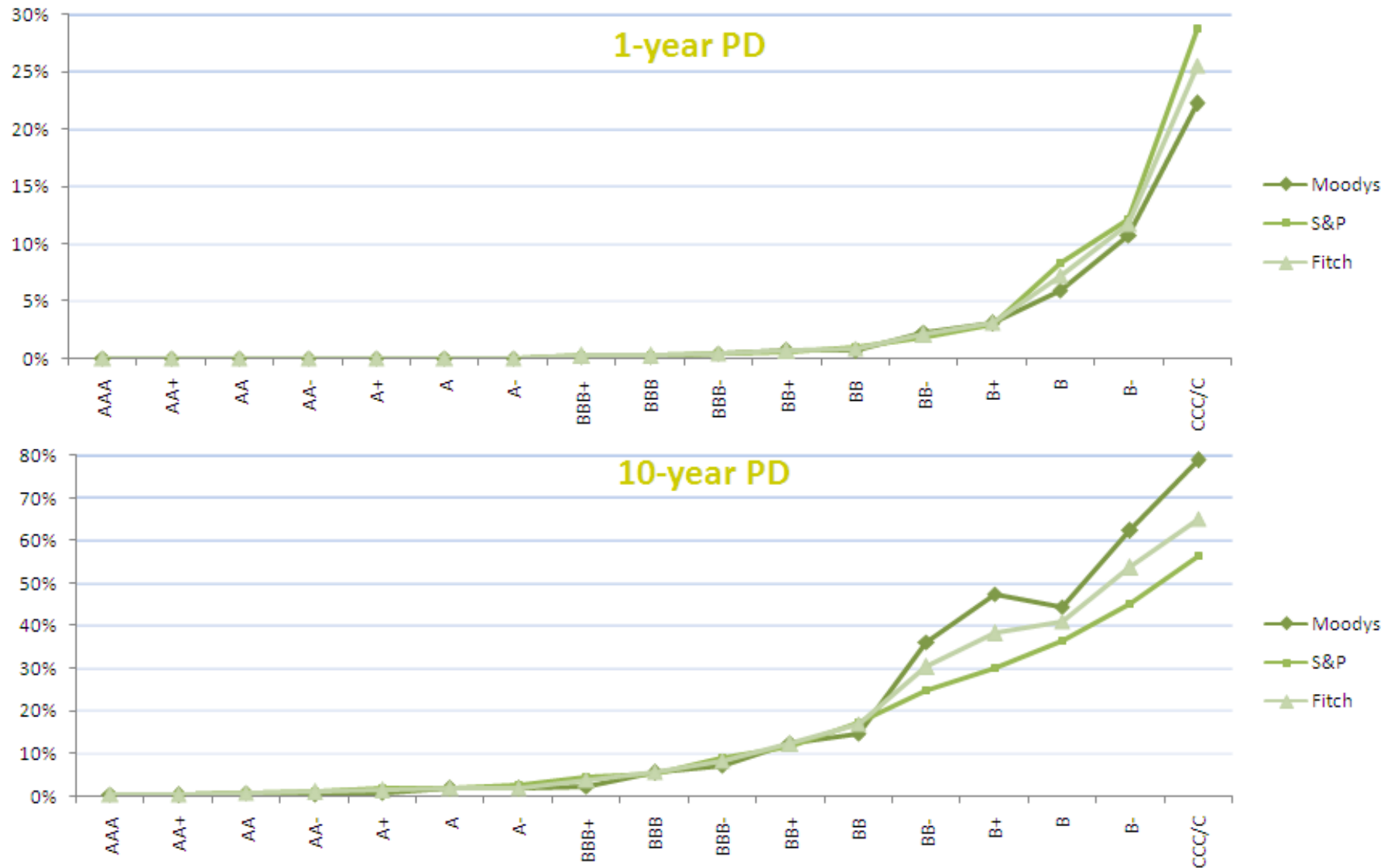
➔ *What is the ultimate default risk?*

Moody's:

Expected loss (EL) = [(PD) X (LGD)]

➔ *What is the amount of net loss suffered?*

STATISTICAL : Probability of Default



LESSON 4:

SUPER SENIORS

(or: Intra-agency
comparability)

Q) SF Bond 1 rated AAA (same CRA)



= SF Bond 2 rated AAA (same CRA)?

SUPER-SENIOR RATINGS

SF Bond 1

Tranche 1:	AAA
Tranche 2:	AA+
Tranche 3:	A
Tranche 4:	BBB-
Tranche 5:	BB
Tranche 6:	B+
First Loss piece:	NR

SF Bond 2

Tranche 1:	AAA
Tranche 2:	AAA
Tranche 3:	AAA
Tranche 4:	AA+
Tranche 5:	A
Tranche 6:	BBB-
Tranche 7:	BB
Tranche 8:	B+
First Loss piece:	NR

LESSON 5:

Definition of
'Rating'

Q) How would you define 'rating'?

*A) Benchmark measure
for LGD*

*B) Benchmark measure
for PD*

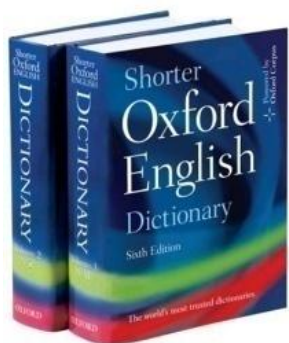
C) Opinion

*D) Not necessarily based on facts or
knowledge*



RATING DEFINITION

- An opinion...* [Financial journalists]
- ...on the relative ability...
- ...of an entity to meet financial commitments.



*...view not necessarily based on fact or knowledge

Ratings are benchmark measures of...

- **Probability of default** (PD)
- **Expectations of Loss given default** (LGD)

LESSON 6:

Captured Risks

Q) Which RISKS are captured by credit ratings?

A) *Credit & Market risk*

B) *Credit, Market & Operational risk*



C) *Credit, Market, Operational, Liquidity & Basis risk*

D) *None of the above*

RATINGS...



...can capture:

...do NOT capture:

**Credit risk
only !**

⚡ Market risk ⚡
⚡ Liquidity risk ⚡
⚡ Operational risk ⚡
⚡ Basis risk (IR risk) ⚡

...but, even so, are '**hard-wired**'...

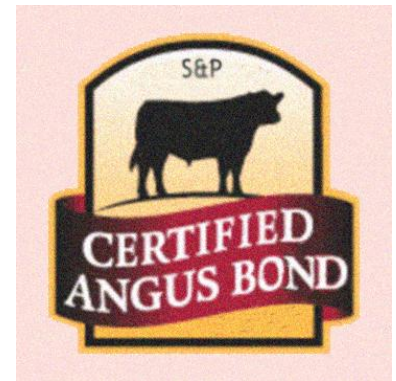
- by Basel II
- into banks' credit rating models
- Investment guidelines and Asset management mandates

LESSON 7:

Constructive
Criticism

CONSTRUCTIVE CRITICISM

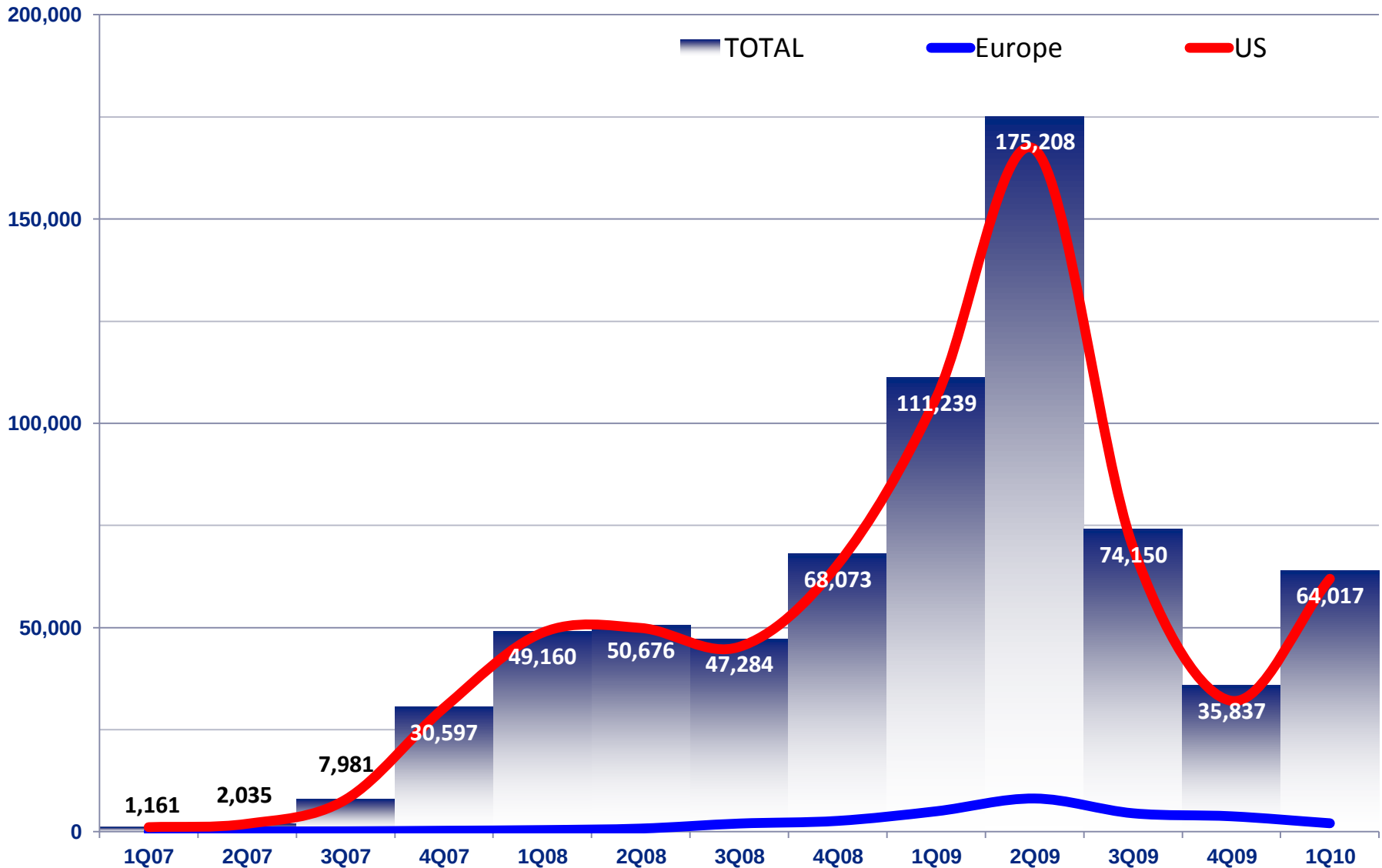
- Business model: Too slow to react
- Assumptions, methodologies & models
- Conflict of interest ('issuer-pays' model)
- Limited capture
- Split ratings
- Notching of competitor's ratings
- Implied ratings & internal competition
- etc.



Regional problem (Sub-prime mortgages)



GLOBAL IMPACT (SF Bond Tranche Downgrades)



(Since January 2007 - Source: Bloomberg / RATT function)

LESSON 8:

Failures

ABCDEFGHIJKLMNOPQRSTUVWXYZ

FAILURES

AIG, Bear Stearns, Bradford & Bingley, Enron, Icelandic banks, Lehman Bros., Monolines, Northern Rock, Parmalat, PIIGS, Sub-prime bonds etc.

In their own words...

Fitch: “... **did not foresee** the magnitude of the decline...or the dramatic shift in borrower behavior...”

Moody's: “...We **did not . . . anticipate** the magnitude and speed of the deterioration in mortgage quality or the suddenness of the transition to restrictive lending...”

S&P: “...It is now clear that **a number of assumptions** used in preparing ratings on mortgage-backed securities issued between 2005 and mid-2007 **did not work**...”

LESSON 9:

THE RISKS OF

OVER-RELIANCE

- AND SUITABLE

MITIGANTS



OPERATIONAL RISKS

- **Changing** Rating methodologies and assumptions
- **Time lag** of rating actions
- **Rating model risks**
- Striking the right balance between **non-** and **over-**regulation

RISK MITIGANTS

- Understanding the **meaning & limitations** of ratings
- Understanding **instruments' risks**
- Independent **analysis**
- **Internal** ratings
- **Disputing rating decisions** with the agencies
- **Awareness** that agencies **CAN** and **DO** get their ratings wrong (Operational risk scenario)

LESSON 10:

using
CRAs'
analysis
sensibly



SENSIBLE USE of CRAs' Analysis

- **Fully understand the instrument** you are investing in
- **Understand ratings' limitations** and know how to **mitigate rating-related risks** (previous slide)
- **'Ignore ratings** designators' (i.e. AAA etc.) and focus on **CRAs' analytical narrative** instead
- Look out for **what is NOT there in the narrative but should**
e.g. Why are obvious issues missing in the analysis?
Why has this bond not been rated by all three CRAs?
- Apply **common sense** and trust your **gut feeling**

Q) Would you now give CRAs more or less credit?



CLOSE

Thank you very much

for your attention, contribution and listening today!



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- Author and passionate reviewer/editor of several risk workbooks
- Frequent contributor to various industry working groups consulting regulators, exchanges and central banks

Publications

- 'Securitisation & Structured Finance post Credit Crunch: A Best Practice Deal Lifecycle Guide', John Wiley & Sons Inc., exp.1Q11
- 'Investor Requirements for 2011 and beyond: Due diligence and Risk analysis in a post-crisis world', Euromoney Yearbook chapter
- 'IT in Investment Operations', Jun 2010 (Senior reviewer), 'Operational Risk', Oct 2009 (Senior reviewer) & 'Risk in Financial Services', Aug 2009 (Technical Reviewer) - Workbooks of the Chartered Institute for Securities & Investments (CISI)
- 'Frontiers of Risk management – Chapter 14: Credit rating agencies and the IRB approach', Euromoney Book, 2007
- Numerous special, research and criteria reports on Fitch Rating's website as Performance & Rating analyst, Aug 2004 to Oct 2006
- SAP Risk Analyzer Manual (in-house publication, in German), Jan 2002

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- Individually Chartered Member of the Chartered Securities and Investment Institute (CISI)
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- 'Train the Trainers' Certificate
- 'Banking in Britain' Certificate
- German Banking Certificate ('Bankkaufmann')
- Volunteer at and Member of the Professional Risk Manager's International Association (PRMIA)
- Member of the Global Association of Risk Professionals (GARP)

Assignments (Past & current)

- The World Bank
- Deutsche Bank
- Lloyds Banking Group
- Bank of Scotland Treasury
- The Royal Bank of Scotland Group
- HypoVereinsbank / Unicredit
- Dresdner Bank
- Primary insight (Subsidiary of Bear Stearns)
- De Matteo Monness (Subsidiary of Goldman Sachs)
- Fitch Ratings
- Vista Research (Subsidiary of Standard & Poor's)

APPENDIX:

Origin & History

Global Rating Agencies

The Rating Process

Benefits

Limitations

ORIGIN & HISTORY

1841 – 1st mercantile rating agency

- Founded by Louis Tappan
- Rating merchants' ability to pay
- Taken over by Robert Dun

1849 – 2nd rating agency established

- By John Bradstreet

1859 – 1st rating guide published

- By Robert Dun's agency

1909 – Moody's founded

- By John Moody
- 'Manual of Railroad Securities'

1916 – Poor's Publishing Company

- Publishes its first ratings guide

1922 – Standard Statistics company

1924 – Fitch Publishing company

1933 – Merger: Dun & Bradstreet

- Becomes owner of Moody's in 1962

1941 – Merger: Standard & Poor's

1966 – Takeover: S&P by McGraw Hill

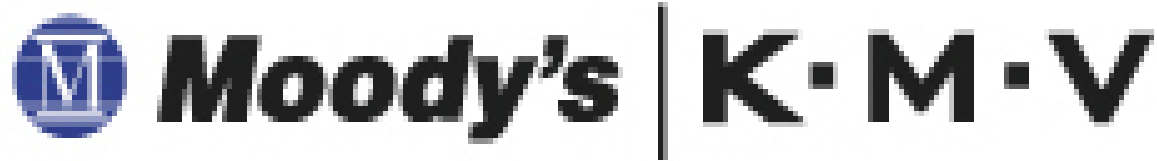
1975 – Fundamental change

- Business model
- 'Subscriber-pays' to 'Issuer-pays'

2007 to 2009 – Global credit crisis

- Part blame for market collapse
- New rating agency regulation

WHO PROVIDES RATINGS?



- More than 2,400 institutions worldwide
- Ratings and analysis track debt covering more than:
 - 100 sovereign nations
 - 11,000 company issuers
 - 25,000 public finance issuers
 - 70,000 structured finance obligations
- Employs more than 2,400 people worldwide, ~1,000 analysts.
- Rates 170,000 corporate, government and structured finance securities

- 6,300 employees
- Located in 21 countries and markets
- Has played a leading role for more than 90 years
- Ratings on US\$ 34 trillion of debt issued in 100+ countries
- Issuers and debt obligations of corporations, states and municipalities, financial institutions, insurance companies and sovereign governments
- Ratings, indices, equity research, risk solutions
 - ✓ S&P U.S. Indices
 - ✓ S&P/Citigroup Global Equity Indices
 - ✓ S&P Emerging Market Indices
 - ✓ S&P Alternative Indices



www.ratingsdirect.com or www.globalcreditportal.com

- Dual-headquartered in NY & London

- 90 countries 1,500 employees

- ✓ 3,100 financial institutions

- ✓ 1,600 banks

- ✓ 1,400 insurance companies.

- ✓ 1,200 corporates, 89 sovereigns, 45,000 municipal transactions.

- ✓ 8,600 structured finance transactions under surveillance, including 4000 RMBS pools, 440 CMBS, 1600 ABS, and 600 CDOs.

- ✓ 1200 European & 200 Asian structured finance transactions

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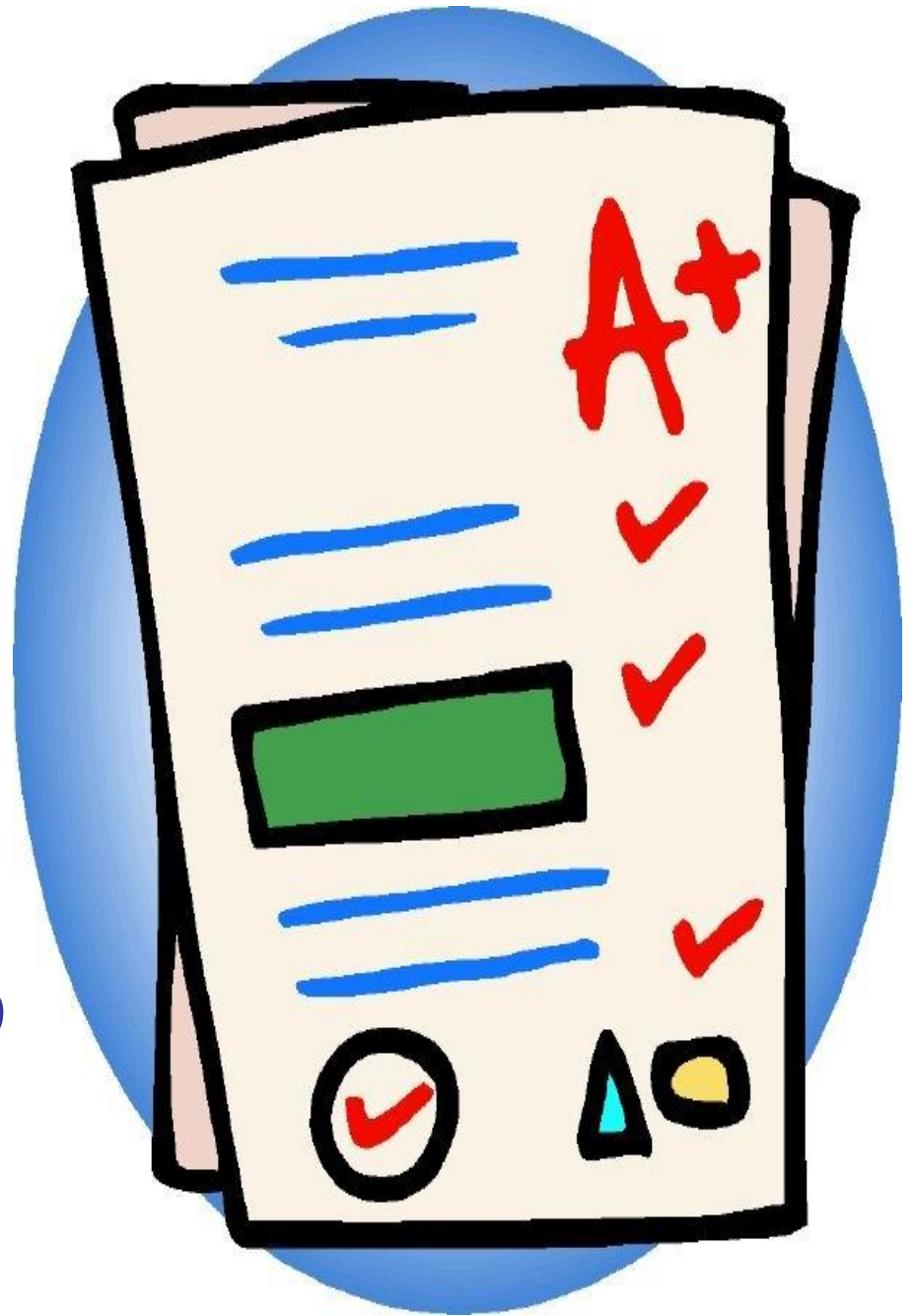
RATINGS SCOPE

Publicly rated

Privately rated

Credit assessment

Market-Implied ratings
(CDS, Equity, Spread, Price etc.)



RATING ACTIONS

Rating

DEAL STAGE

- Preliminary
- Final
- **Paid in Full (PIF) / Redemption**

INDICATORS

- Upgrade, Downgrade
- Affirmation / Confirmation
- Withdrawn

Suffix

RATING WATCH *(1-6 months)*

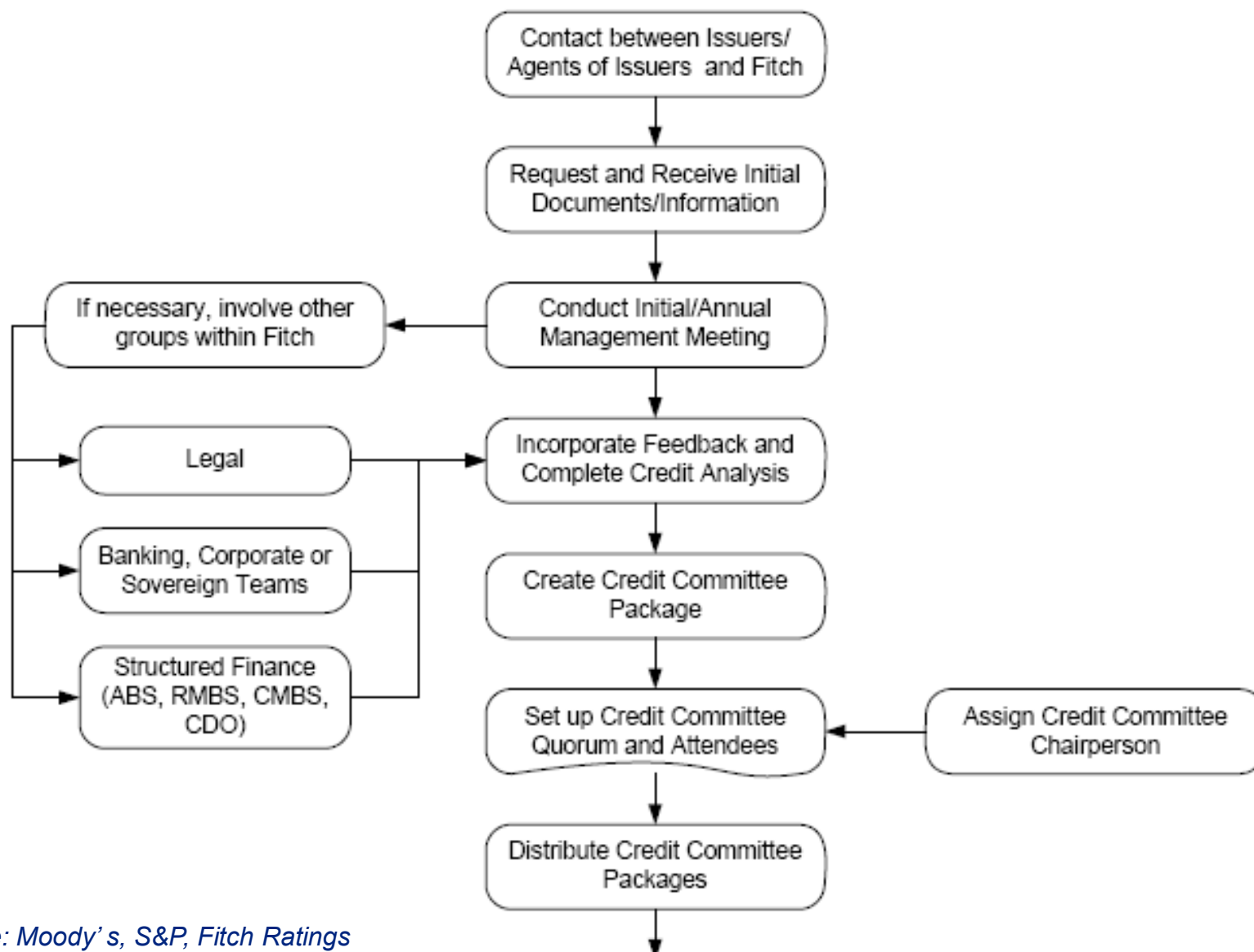
- Positive
- Negative
- Evolving / Uncertain

OUTLOOK *(1-2 years)*

- Positive
- Negative
- Stable

THE RATING PROCESS: A detailed view

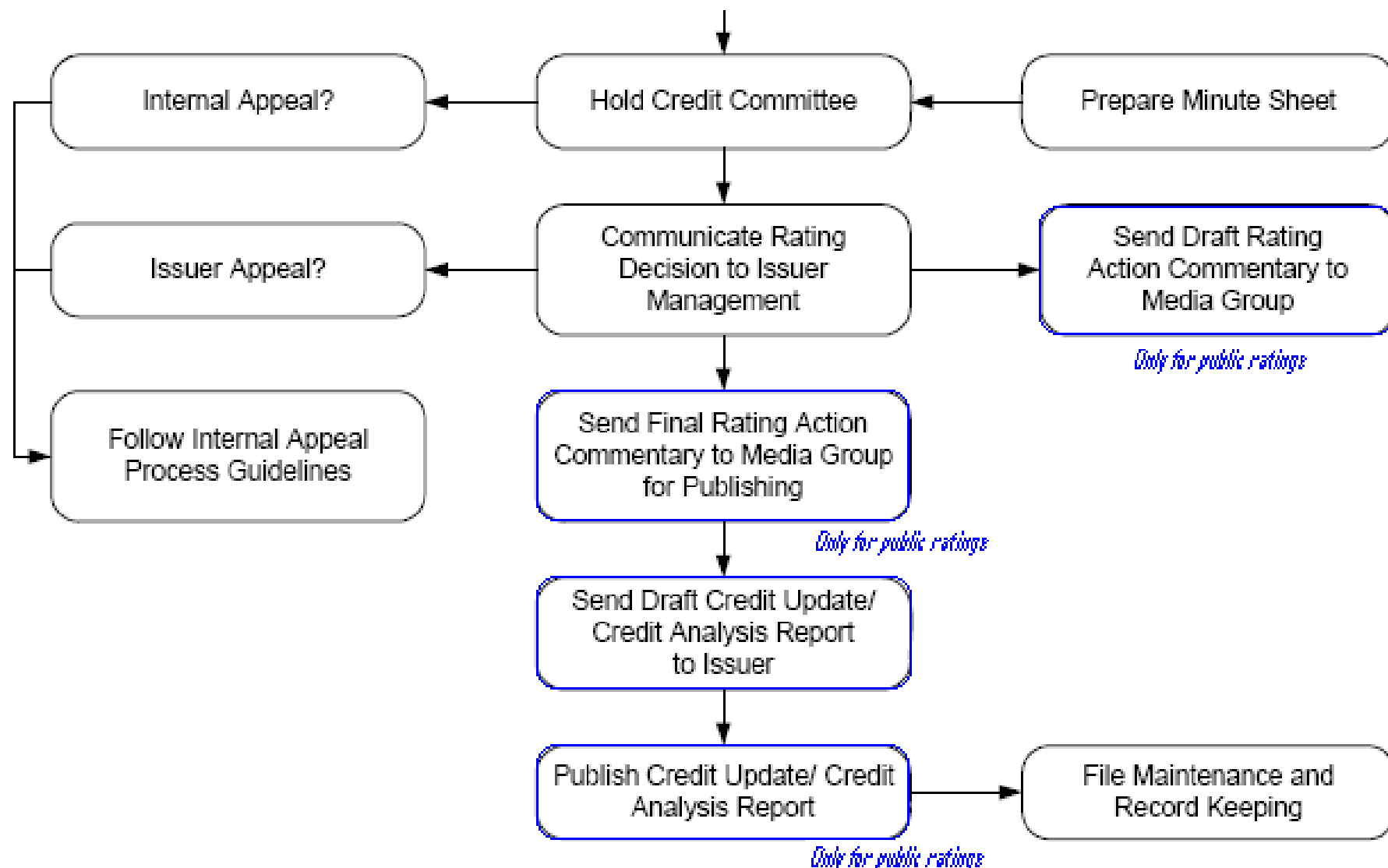
(Part 1)



Source: Moody's, S&P, Fitch Ratings

THE RATING PROCESS: A detailed view

(Part 2)



Source: Moody's, S&P, Fitch Ratings

BENEFITS

To Investors

- **Safety** to investments
- Recognition of **Risk & Returns**
- **Freedom** of investment decisions
- **Wider choice** of investments
- **Dependable credibility** of issuer
- Easy understanding of **investment proposals**
- **Continuous** monitoring (Surveillance)

To the company (issuer)

- Easier to raise **funding**
- Reduced cost of **borrowing**
- Reduced cost of **public issuance (bonds)**
- Ratings help increase **image & reputation**
- Facilitation of **growth**
- Access to **wider investor base**
- **Recognition** of relatively unknown companies

LIMITATIONS

- Non-disclosure of **significant information**
- Static study of present and past historic data **at one particular point in time**
- **Rating is no certificate of soundness** and users of ratings should form an independent view of the meaning of the particular rating
- **Rating may be biased** due to certain views of the lead analysts
- **Rating under unfavourable conditions** which may not always be representative of the true image of the company
- **Differences in rating grades:** split ratings between different rating agencies which may confuse investors

TIMELY ACTIONS and DEFERRAL

Timeliness of Rating changes

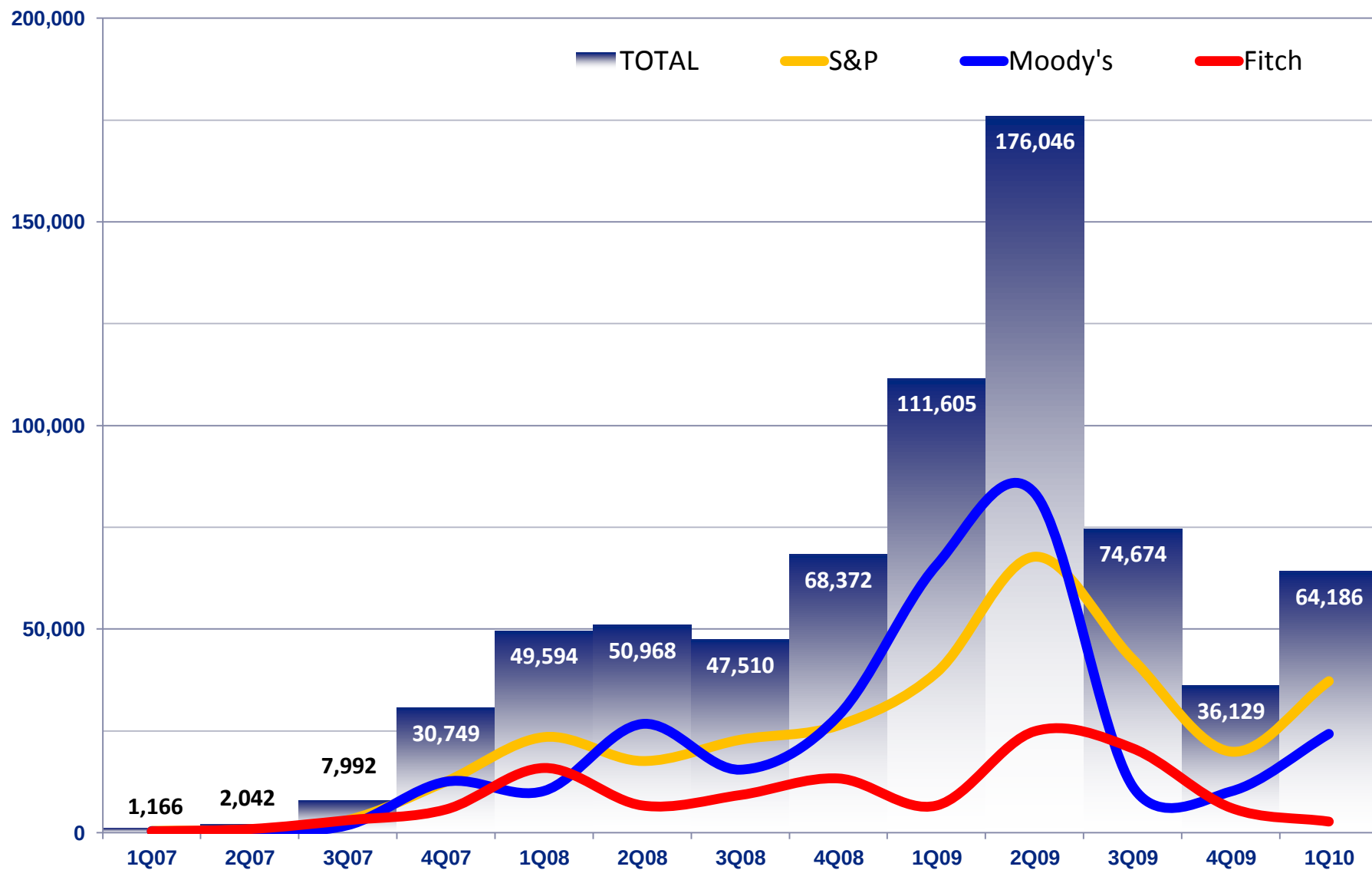
- Process stages to reach rating decisions
- Detection of bond- vs. asset class-specific and/or systemic issues

Bond maturity profile

- Legal final vs. expected maturity
- Life-time ratings (40+ years)
- Timely payment of interest & ultimate payment of principal



GLOBAL SF BOND TRANCHE DOWNGRADES



(Since January 2007 - Source: Bloomberg / RATT function)