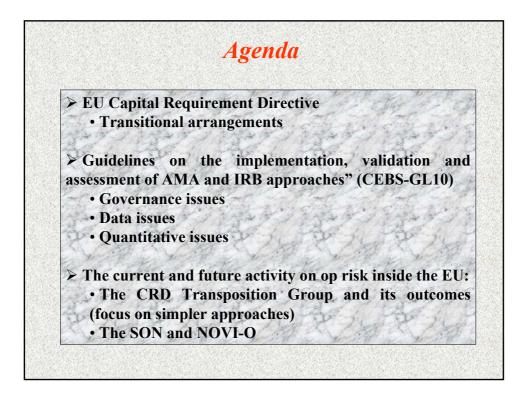
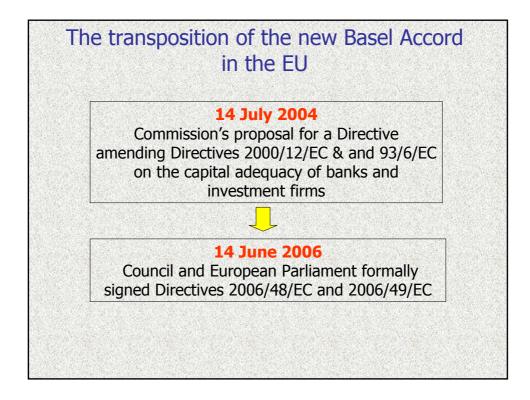
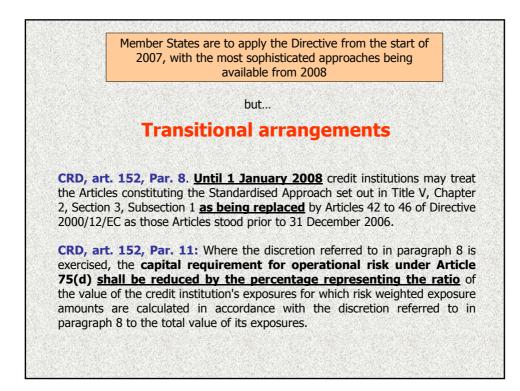
Recent Developments on the Implementation of Operational Risk Capital Requirements in Europe

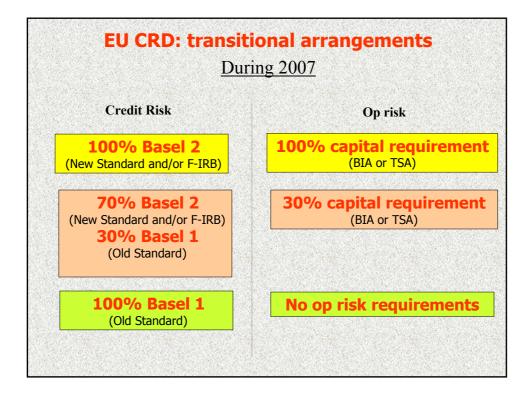
> Marco Moscadelli Bank of Italy

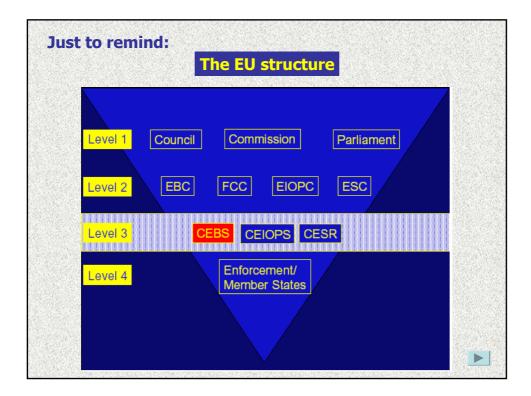
Seminar on practical techniques for the management and measurement of operational risk FSI, Basel - 24 October 2006

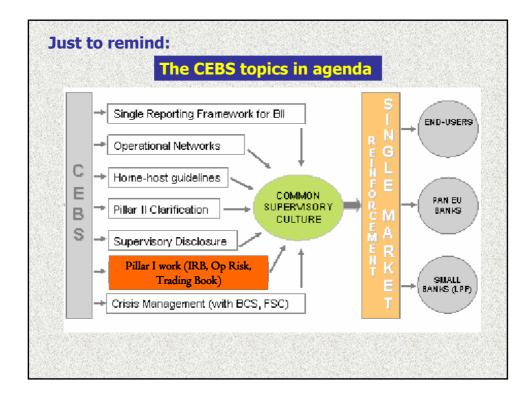




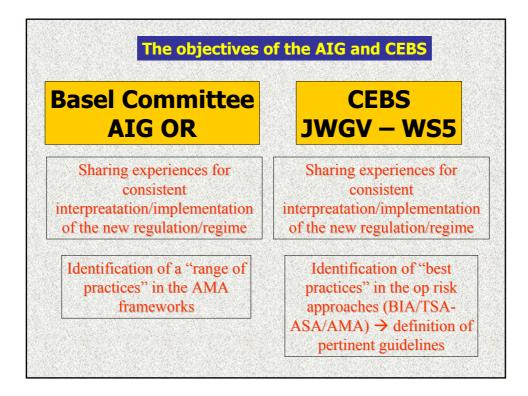


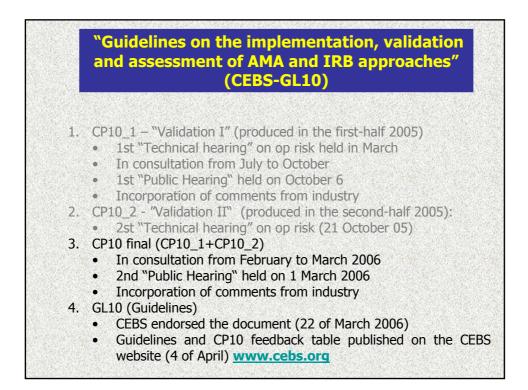


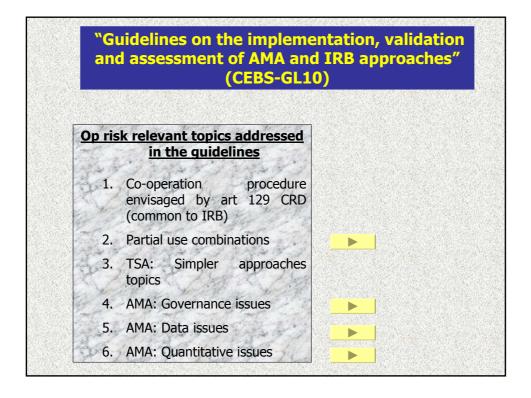






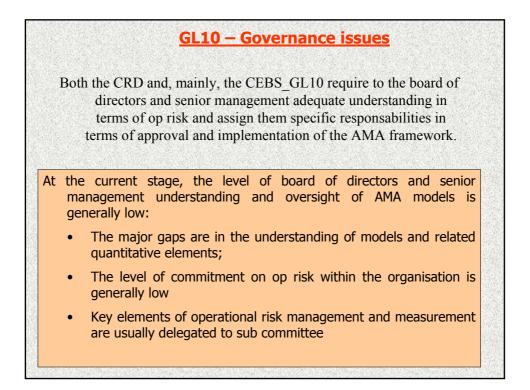


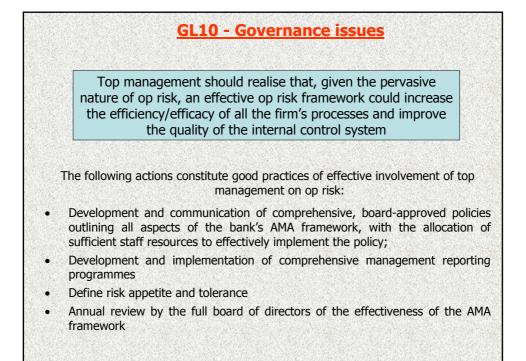


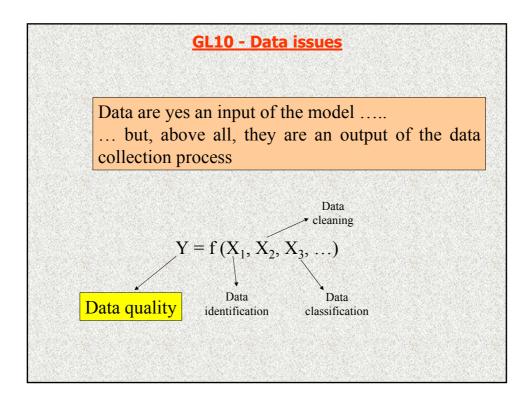


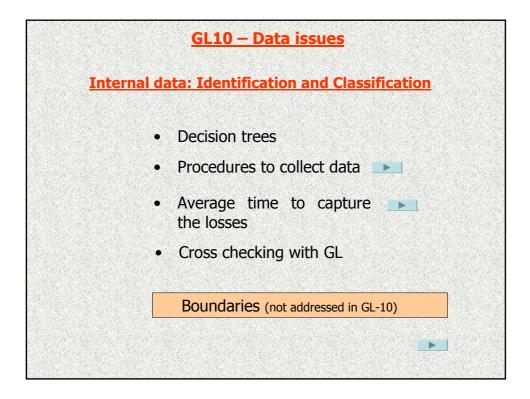
<u>Table 1</u>			
GROUP WIDE basis:	Partial use combin	nations and "Consolidate	d capital requirement
	Group level appr	roach	
Subsidiary/Busine ss line level approach	Group uses BIA	Group uses TSA (o ASA) ²⁰	Group uses AMA ²¹
Subsidiary locally uses BIA	-	Partial use acceptable	Partial use acceptable
Subsidiary/business line locally uses TSA (or ASA)	Partial use not acceptable	-	Partial use acceptable
Subsidiary/business ine locally uses AMA	Partial use acceptable	Partial use acceptable	-
<u>Table 2</u>			
LEGAL ENTITY basi Business Line/Branch	Legal entity leve	inations and "Solo capit I approach IA Legal entity uses TSA (or ASA)	
Table 2 LEGAL ENTITY basi Business Line/Branch approach Branch uses BIA	Legal entity leve	l approach IA Legal entity uses TSA (or ASA) Partial use not	
LEGAL ENTITY basi Business Line/Branch approach	Legal entity leve Legal entity uses B.	l approach IA Legal entity uses TSA (or ASA)	Legal entity uses AMA





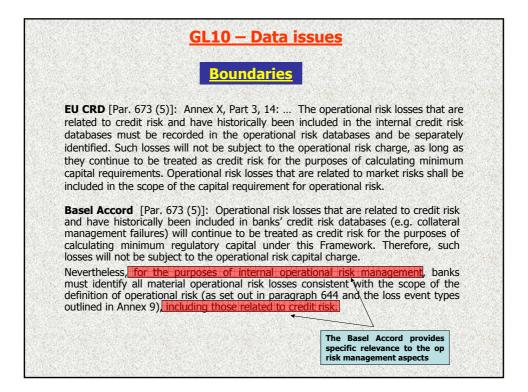


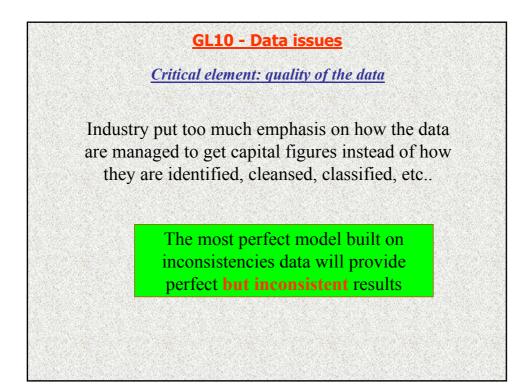


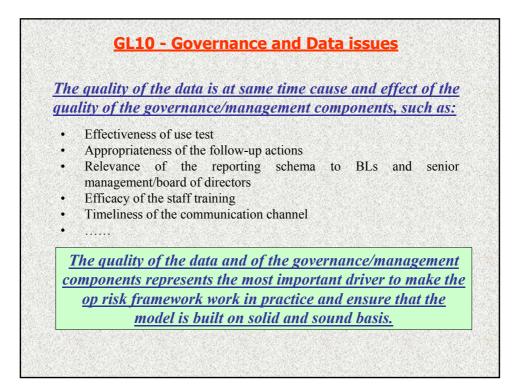


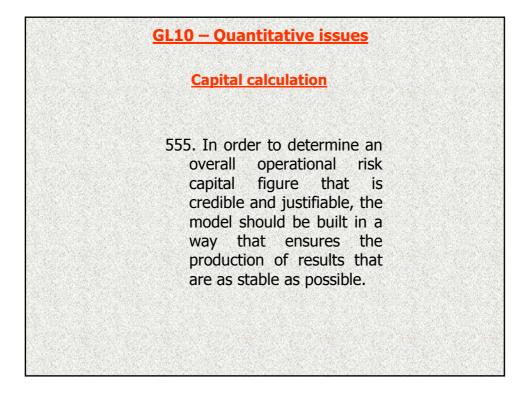
Procedures	to collect internal dat	a
	Manual procedures	Automation procedure
n the parent undertaking	73%	27%
In the whole group	71%	29%

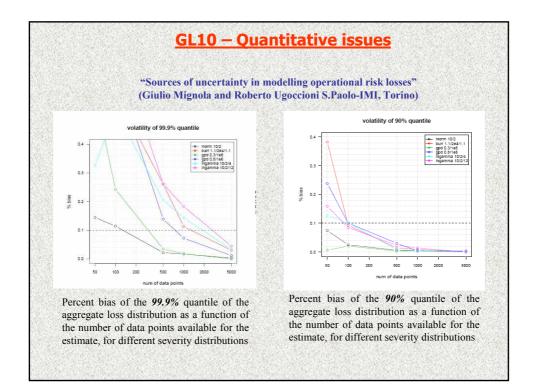
30 banking groups/individua	<u>al institutio</u>
verage time between loss occurre	ence and capt
	n. of days
Globally on the 7 ETs	150
Internal Fraud	247
External Fraud	27
Employment Practices and Workplace Safety	158
Clients, Products & Business Practices	155
Damage to Physical Assets	185
Business disruption and system failures	144
Execution, Delivery & Process Management	104







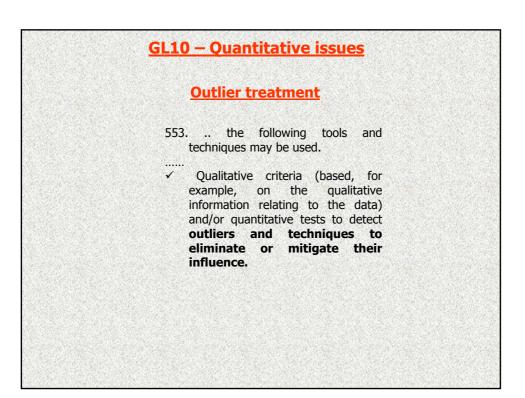


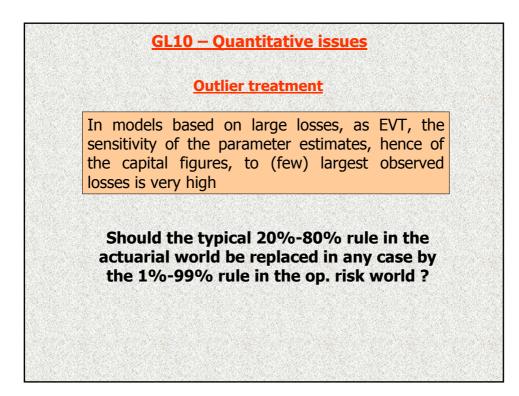


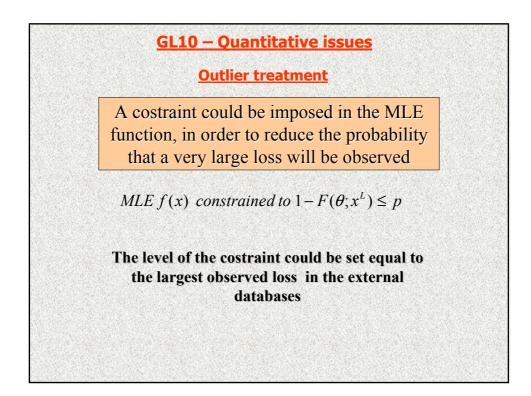
GL10 – Quantitative issues

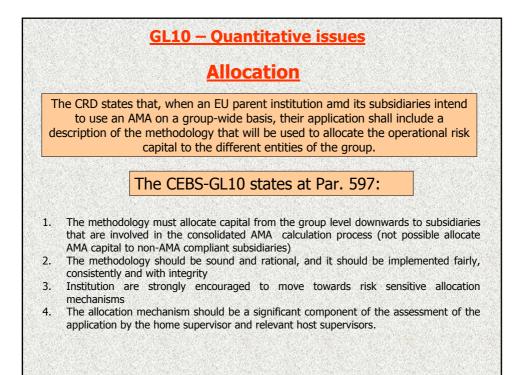
Confidence level

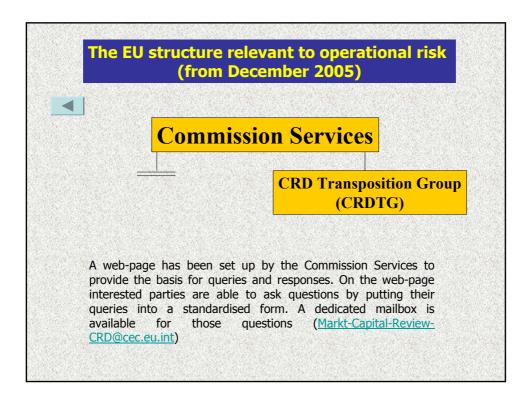
CEBS-GL10 Par. 561. In order to generate a regulatory operational risk measure at a soundness standard comparable to a 99.9 percent confidence level, institutions can perform a direct calculation at the 99.9 percent confidence level, or they can calculate an initial measure at a lower confidence level, located in the right end of the loss distribution, and then <u>scale it</u> <u>up to the 99.9 percent</u> confidence level using appropriate methods.







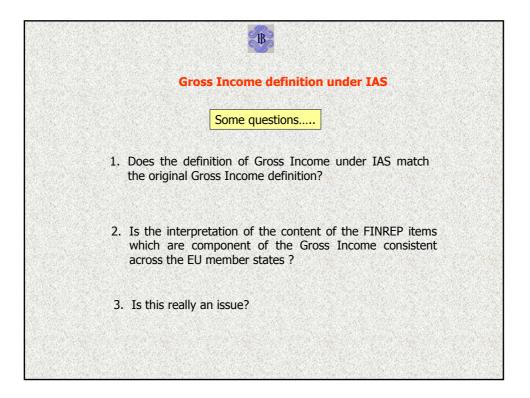




Area:	Directive 2006/48/EC, Annex X, Part 1, point 5
Issue:	Calculation of the indicator for the Basic Indicator Approach to operational risk
Question number:	91
Date of question:	31 May 2006
Publication of answer:	11 September 2006
Question:	The relevant indicator for calculation of operational risk capital charge should be expressed as the sum of the elements listed in Table 1. Could you provide any examples of items which should be included into "other operating income"?
Answer:	The following are examples of items that could, under the IAS/IFRS framework, be included in 'other operating income':
	• Rental income from investment property (IAS 40.75 (f) (i));
	Lease income from operating leases (IAS 17.50).
	When considering the items for inclusion in 'other operating income' for the purposes of Directive 2006/48/EC, credit institutions have to take into account the qualifications of paragraphs 7 and 8 of Annex X and ensure that the elements included do not go beyond what is foreseen therein.
	For these reasons it is considered, for example, that income from tangible assets measured using the revaluation and fair value model (IAS 16 39: IAS 40 76 (d)) should not be included in 'oth
	operating income' when determining the relevant indicator for the calculation of the operational risk capital requirement.

Area:	Directive 2006/48/EC, Annex X, Part 1, points 5 to 9
Issue:	Operational risk income indicator – use of IFRS/IAS
Question number:	60
Date of question:	30 March 2006
Publication of answer:	7 July 2006
Question:	According to point 9, when credit institutions apply IFRS and IAS they should calculate the relevant indicator on the basis of data that best reflect the definition expressed within the framework established by the Directive 86/635/EEC. In that context, please explain what would be the adequate treatment of the following items:
	 realised profits/losses from the sale of financial assets at fair value through profit and loss account which are not in the trading book (Fair Value Option);
	- impairments of available-for-sale financial assets;
	 realised profits/losses from derivatives and embedded derivatives;
	 realised profits/losses from hedging;
	 difference between "revaluation of trading items" mentioned i paragraph 8 and revaluation of items in the trading book.

Janning table (included fo	or illustrative purposes only)	ander den er inslander det er inslander i den er inslander i den er inslander i den er inslander i den er insla
It should be clarified that the Directive or of IAS/IFRS. question – which stem from (FINREP) has been used a framework. More precisely	he following table is not intended to In order to determine the appropriate	treatment of the items listed in the rork for consolidated financial reportin of Annex X, Part 1 and the IFRS mapped to the items of the line
	Corresponding FINREP items	Treatment for the calculation of the relevant indicator
1. Interest receivable and similar income	Interest income	Inclusion ²
2. Interest payable and	Interest expenses	Inclusion ²
similar charges	Expenses on share capital repayable on demand	No inclusion
 Income from shares and other variable/fixed yield securities 	Dividend income	Inclusion
 Commissions/fees receivable; 	Fee and commission income	Inclusion
 Commissions/fees payable; 	(Fee and commission expenses)	Inclusion
Net profit or loss on financial operations	Realised gains (losses) on financial assets & liabilities not measured at fair value through profit or loss, net	Partial inclusion, if included in regulatory trading book ²³
	Gains (losses) on financial assets and liabilities held for trading, net	Inclusion
	Gains (losses) on financial assets and liabilities designated at fair value through profit or loss, net	Partial inclusion, if included in regulatory trading book ²³
	Gains (losses) from hedge accounting, net	Inclusion
	Exchange differences, net	Inclusion ⁴
7. Other operating income.	Gains (losses) on derecognition of assets other than held for sale, net	No inclusion ⁵
	Other operating income	Inclusion ²⁶
	Other operating expenses	No inclusion ⁷



Meaning	of income derived from insurance
Area:	2006/48/EC, Annex X, Part 1, point 8(c)
Issue:	Meaning of "income derived from insurance"
Question number:	22
Date of question:	20 February 2006
Publication of answer:	12 April 2006
Question:	According to point 8, income derived from insurance shall not be used in the calculation of the indicator. What does this item cover:
	i) Ancillary activities of banks in terms of insurance brokerage?
	ii) Income arising from insurance damage policies?
Answer:	The purpose of point 8 is to exclude items which are not 'normal business' for the firm in question, so that the income indicator more properly reflects the business of the firm.
	Ancillary activities of the firm, such as insurance broking, are part of the normal activities and so <u>should</u> be included in the income indicator.
	On a consolidated basis, where there are insurance activities in other legal entities in the group, premiums receivable for insurance cover written <u>should not</u> be included (consistent with the fact that insurance business is not one of the identified business lines in Part 2 of Annex X) in the consolidated income indicator.
	Payments receivable as a result of claims under insurance policies purchased by the firm (including those policies to cover operational risk losses) <u>should not</u> be included in the income indicator.

	ASA calculation
Area:	Annex X, Part 2, point 6-7
Issue:	Operational risk: alternative standardised approach
Question number:	141
Question category:	1
Date of question:	10 August 2006
Deadline for answer:	20 October 2006
Question:	According to point 6, the relevant indicators for retail banking and commercial banking business lines should be calculated as average over three years of the total nominal amount of loans an advances multiplied by 0.035. That means that there will be only one figure for each of these business lines which should be multiplied by appropriate percentage for this business line and that will be the capital requirement for this business line. According to changes made to the CRD by lawyers/linguists in points 1 and 2, for other business lines in accordance with Standardised approach the capital requirement should be calculated as average over three years of the sum of the aggregat capital charge calculated each year across the business lines. Do we understand correctly that the capital requirement, under the Alternative standardised approach, is the sum of the capital requirements calculated according to point 6 for retail banking and commercial banking business lines and of the capital requirement calculated according to points 1 and 2 for other business lines?

		- OA		ion method	CAGINPI	CLEMPIC TO SAL	
		STEP 1				STEP 2	1023311833
	Releva	ant Indicator p	er year	TSA regulatory	Weighte	d amounts per year	
Business line	Year X-2	Year X-1	Year X	coefficients	Anno t-2	Anno t-1	Anno t
Corporate finance	10	10	10	18%	1,80	1,80	1,80
Trading and sales	20	-60	30	18%	3,60	-10,80	5,40
Retail banking	20	-00	30	12%	2,40	2,40	3,60
Commercial banking	20	20	10	15%	3,00	2,25	1,50
ayment and settlement	10	-40	10	18%	1,80	-7,20	1,80
Agency services	20	15	0	15%	3,00	2,25	0,00
Asset management	0	20	30	12%	0,00	2,40	3,60
Retail brokerage	-10	10	20	12%	-1,20	1,20	2,40
					14,40	STEP 3 m of weighted a -5,70 on for negative v	20,10
Step 1			ne per year pe ts can be positi	er business line (3 ve or negative	14,40 Correctio	m of weighted a -5,70	20,10 values
Step 1 Step 2	times 8 Multiply	cells); amoun the 24 cells	ts can be positi	ve or negative	14,40 Correctic Final 14,40	m of weighted a -5,70 on for negative v 0,00 STEP 4 weighted amou 0,00 STEP 5 apital requirem	20,10 values nts 20,10
	times 8 Multiply factors ; Add the into acc	cells); amoun the 24 cells amounts rem weighted an count the pos	ts can be positi by the corres ain positive or nounts verticall itive and nega	ve or negative	14,40 Correctic Final 14,40	m of weighted a -5,70 in for negative v 0,00 STEP 4 weighted amour 0,00 STEP 5	20,10 values nts 20,10
Step 2	times 8 Multiply factors ; Add the into acc total wei On the	cells); amoun the 24 cells amounts rem weighted an count the pos ighted amount basis of the	ts can be positi by the corres ain positive or no nounts verticall titive and nega for a year are e 3 steps, se	ve or negative sponding weighting negative y (per year) taking tive signs.Negative	14,40 Correctic Final 14,40	m of weighted a -5,70 on for negative v 0,00 STEP 4 weighted amou 0,00 STEP 5 apital requirem	20,10 values nts 20,10



