ERM Seminar Survey on Risk Based Supervision

Presented by

Richard Holloway Iwan Juwono

10 September 2015







Are you aware of the new Risk Based Supervision (RBS) process?



ERM Seminar 2 Survey on Risk Based Supervision, Indonesia 10 September 2015



Risk Based Supervision

Regulation No.10/POJK.05/2014, enacted in August 2014, requires all non-bank financial institutions ("NBFI"), which includes insurance companies, to perform self risk assessment against a set of pre-defined risk categories. In addition, the regulator OJK will also perform its assessment of the risk level of NBFI's and provide feedback to each company.

Objective

- To understand the inherent risks of NBFI's.
- Enhance the supervisory process of NBFI's.
- Moving from 'compliance-based' supervision to 'risk-based' supervision.

Timeline

- Self-assessment to be performed each year as at 31 December and submitted by 28 February of the following year.
- Companies have submitted their first report by 28 February 2015. However, we understand that the OJK feedback has not been not issued yet (but is expected soon).

The implementation of the RBS framework is a step towards aligning to the risk management / monitoring framework adopted in some other more developed countries, such as in Singapore (ORSA) and Malaysia (ICAAP).



Risk Based Supervision

The risk categories stipulated in the regulation include:



According to the guidelines, except for Management and Governance risks, all other risks should be considered from two perspectives below:

Inherent risk

• Underlying risk closely linked to organisational activities, without considering mitigating actions taken by management.

Management and control

• How does the organisation / management identify, measure, monitor and control inherent risks, via policies, procedures, systems and administration practices



RBS: Management & Governance risks

Management risk

Risk of management failure in achieving the organisation's objectives as a result of a failure in preserving a team of managers who are competent and act with integrity.



Governance risk

Potential failure in implementing good governance practices across the organisation.



ERM Seminar 5 Survey on Risk Based Supervision, Indonesia 10 September 2015



RBS: Operational risk

Potential failure in fulfilling commitments to policyholders as a result of the failure of internal process, human error, IT systems, etc.

Inherent risk

- Complexity of organisation organisational structure, human resources, corporate actions
- IT and systems
- Fraud and legal issues
- Disruption to company's business

Management & Control

- · Policies and procedures
- Administrative activities
- Management of information systems and technology
- Management of human resources
- Management of third party service providers



ERM SeminarSurvey on Risk Based Supervision, Indonesia10 September 2015

RBS: Asset & Liability risks

Potential failure in management of assets and liabilities.

Inherent risk

- Asset management
- Liability management
- Mismatch of assets and liabilities

Management & Control

- Awareness among directors/management
- Management of asset and liability risks
- Management of investment risks
- Controls in asset valuation



ERM Seminar 7 Survey on Risk Based Supervision, Indonesia 10 September 2015

RBS: Insurance risk

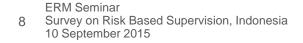
Potential failure in meeting policyholder liabilities due to inadequate underwriting, pricing, reinsurance and/or claims management processes.

Inherent risk

- Significance of insurance risk to the overall business
- Product mix and types of benefits
- Persistency, mortality, morbidity
- Structure of reinsurance in place

Management & Control

- Management's understanding of insurance risk and monitoring of insurance risk
- Product design
- Pricing
- Underwriting
- Liability valuation
- Reinsurance
- Claims
- Product distribution
- Independent review





RBS: Strategy & Capital risk

Strategy risk

 Potential failure in fulfilling policyholder liabilities as a result of failure in planning, setting and implementation of strategy, inappropriate decision making and/or the organisation being less responsive to external changes.

Inherent risk

- Appropriateness / suitability of strategy according to the business environment conditions
- Strategic positioning of organisation

Management & Control

- Planning and adopting of strategy
- Implementation of the strategic plan

Capital risk

- Capital adequacy
- Source of additional capital





RBS: Rating system

Each company is required to assign numerical rating from 0 to 4 according to its assessment of the risk levels in the organisation based on the following table:

| Risk Rating | Risk Level |
|--------------|-------------|
| 0 < x <= 1 | Low |
| 1 < x <= 1.5 | Medium Low |
| 1.5 < x <= 2 | Medium High |
| 2 < x <= 3 | High |
| 3 < x <= 4 | Very High |

Aggregation of each risk category is then performed using prescribed risk weightings.

An example is provided on the next slide.



RBS: Sample calculation

| | Risk Level (A) | Weighted Risk Level (B) | Weightage 1 (C) | Net Risk Level (D) | Weightage 2 (E) | Explanation |
|--|----------------------|-------------------------------|---------------------------|------------------------------------|-----------------------|---|
| (1) Management | 1.5 | 1.5 | 10% | 0.51 | | |
| (2) Governance | 1.6 | 1.6 | 15% | 0.98 | | |
| (3) Strategy(i) Inherent risk(ii) Management & control | 2.4 1.5 | 2.0 | 15% | 2.17 | | |
| (4) Operational(i) Inherent risk(ii) Management & control | 1.1 2.1 | 1.6 | 15% | 0.98 | | |
| (5) Asset & Liability(i) Inherent risk(ii) Management & control | 2.9 3.1 | 3.0 | 20% | 16.2 | | B = [A (i) + A (ii)] / 2 D = [B^4 * C] |
| (6) Insurance(i) Inherent risk(ii) Management & control | 2.0 1.8 | 1.9 | 25% | 3.26 | | |
| (7) Aggregate Net Risk Level | | | | 2.22 | 60% | D = [SUM (D(1) to D(6))] ^(1/4) |
| (8) Capital Funding(i) Capital Adequacy(ii) Future source of capital(iii) Total | 1.2 1.3 | 1.2 1.3 | 50% <u>50%</u> 100% | 1.04 <u>1.43</u> 1.25 | 40% | D (i) = B(i)^4 * C(i) D (ii) = B(ii)^4 * C(ii) D (iii) = (D (i) + D (ii)) ^ (1/4) |
| (9) Total Risk Level | | | | 1.98 | 100% | |

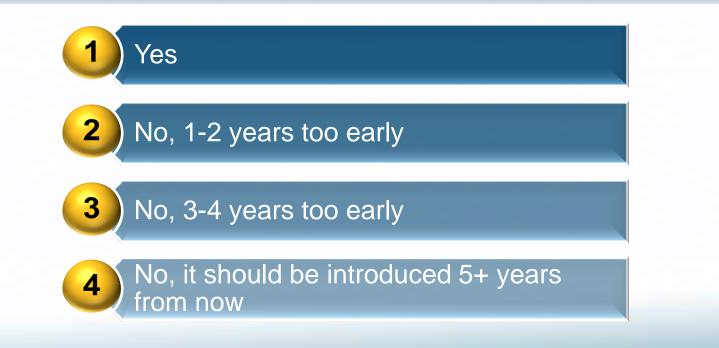
ERM Seminar 11 Survey on Risk Based Supervision, Indonesia 10 September 2015







Do you feel that now is the right time to introduce this RBS concept to Indonesia?







ERM Seminar 13 Survey on Risk Based Supervision, Indonesia 10 September 2015





To gain better understanding of the approach and response of the industry with regards to the Risk Based Supervision process. The survey contains 28 questions covering various topics:



- Survey questions sent to registered participants at this seminar, focusing on those working for insurance companies
 - 57 responses as at end 8 September 2015



ERM Seminar 14 Survey on Risk Based Supervision, Indonesia 10 September 2015

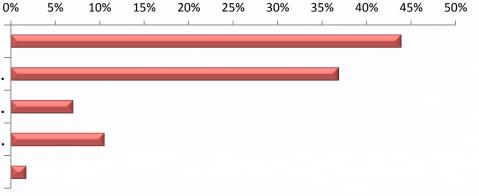


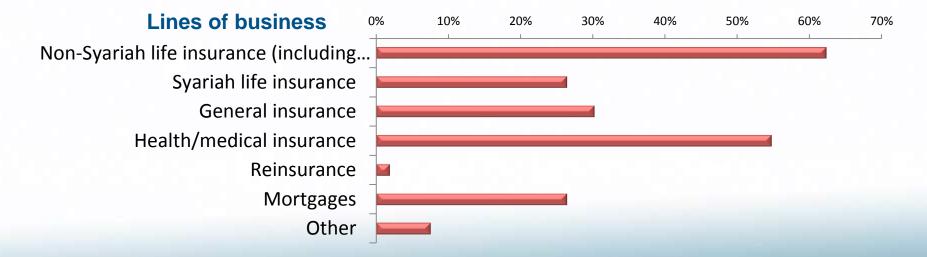
Respondents Profile

Please indicate the ownership structure of your organisation What lines of business does your organisation write?

Ownership structure

Majority owned by a foreign insurer Majority owned by a local financial or business... Equal joint venture between foreign insurer... Local insurer with no significant foreign partner... Others



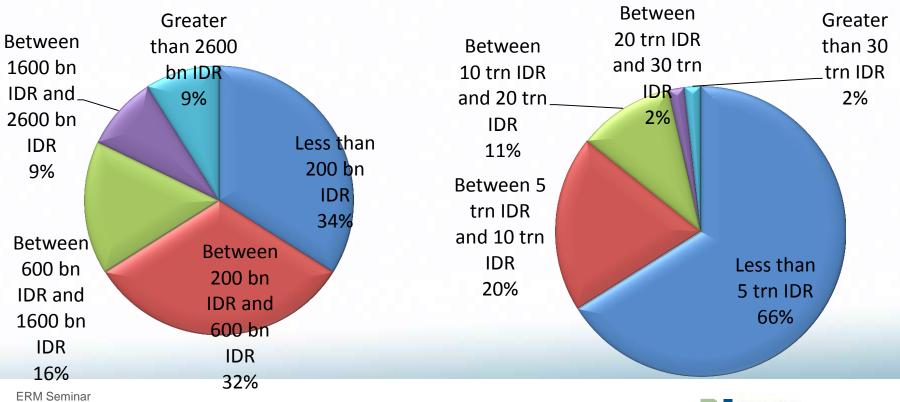






What was the total Weighted/Annualised Premium Equivalent (APE, 100% of regular premium + 10% of single premium) collected by your organisation in the 2014 calendar year? What was the total assets of your organisation as at 31 December 2014?

man



16 Survey on Risk Based Supervision, Indonesia 10 September 2015



What was your organisation's Total Risk Score (Nilai Risiko Keseluruhan)?

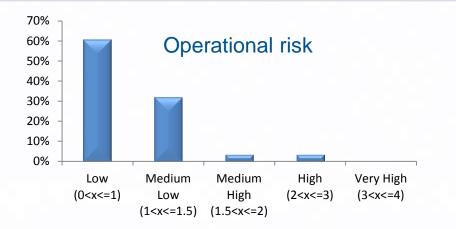




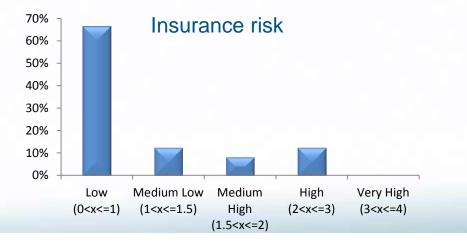


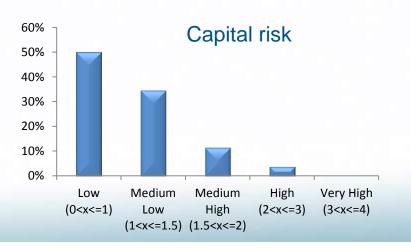


What was your organisation's Total Risk Score (Nilai Risiko Keseluruhan)?







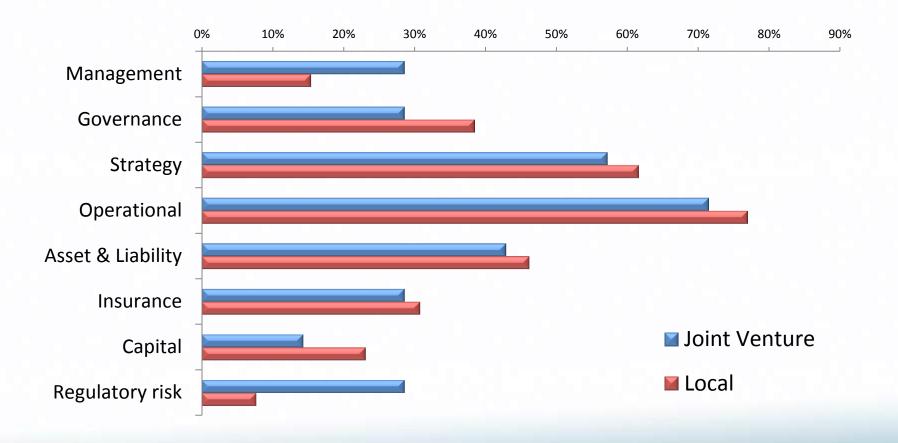




ERM Seminar 18 Survey on Risk Based Supervision, Indonesia 10 September 2015



Please indicate the top three risks that your organisation is currently prioritising, independent of the actual Nilai Resiko that your process has calculated for those risks.

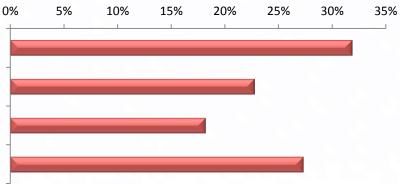




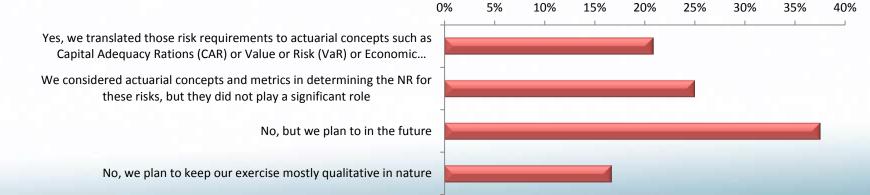


Broadly, how did your organisation translate the qualitative nature of the RBS guidance to calculate the NR?

- We have created our own numerical criteria/checklist/model based on the factors identified in the RBS paper at the sub-risk level and...
- We have created our own numerical criteria/checklist/model based on the factors identified in the RBS paper at the seven main risk levels
- We designated a committee of risk experts/owners to jointly determine the NR for each risk through a series of workshops or meetings
- We designated the risk or actuarial department to prepare the report, mostly through what it thought was appropriate scoring for each risk



For the risks that are more amenable to quantification in nature (e.g., the ALM and Dukungan Dana section), did your organisation relate the NR assigned to these risk categories to actuarial modelling?



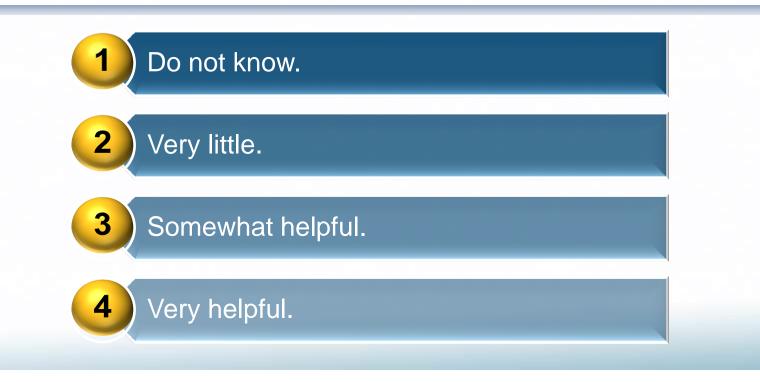


ERM Seminar 20 Survey on Risk Based Supervision, Indonesia 10 September 2015





To what extent do you think your organisation has benefited from this RBS exercise?

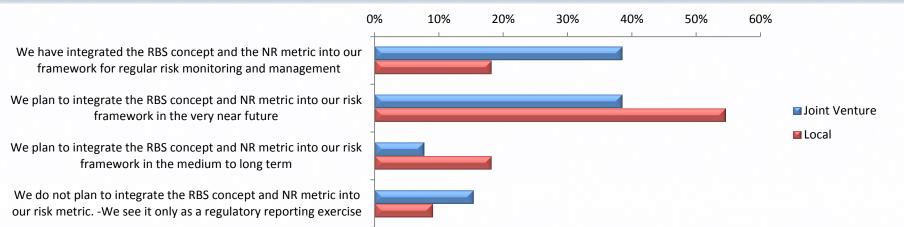


ERM Seminar 21 Survey on Risk Based Supervision, Indonesia 10 September 2015





To what extent has your organisation integrated the RBS concepts and regular reports to OJK into your day-to-day regular risk management process?

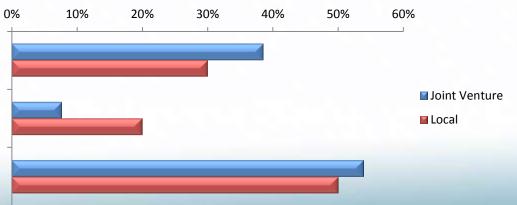


If your organisation already has an internal risk management framework, how does the RBS compare to it?

Our internal risk management is more useful for risk management (e.g., measuring, monitoring and mitigating risks)

The RBS concept is more useful for risk management than our own internal framework

N/A, We see them as somewhat separate in purpose





ERM Seminar 22 Survey on Risk Based Supervision, Indonesia 10 September 2015



Has your organisation decided to take any key actions as a result of the risk review done to support this RBS submission?



Did your organisation involve a third party (e.g., consultant, auditor) to help prepare or review your RBS submission?

| v your RBS Subri | nission? | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | |
|------------------|--|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
| Yes, to h | elp prepare and review our submission | | | | | I | I | | | | | | |
| Y | es, only to help prepare the submission | | | | | | | | | | | | |
| Yes, | to review our methodology and results | | | | | | | | | | | | |
| No | , the entire process was done internally | | | | _ | _ | _ | _ | _ | _ | | | |



ERM Seminar 23 Survey on Risk Based Supervision, Indonesia 10 September 2015



Interactive Question

How many people within your organisation have been involved in the preparation of your company's RBS submission?

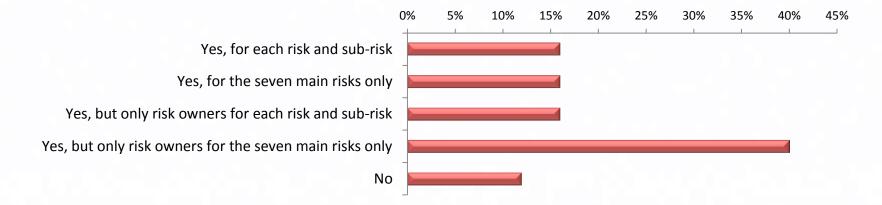


ERM Seminar 24 Survey on Risk Based Supervision, Indonesia 10 September 2015

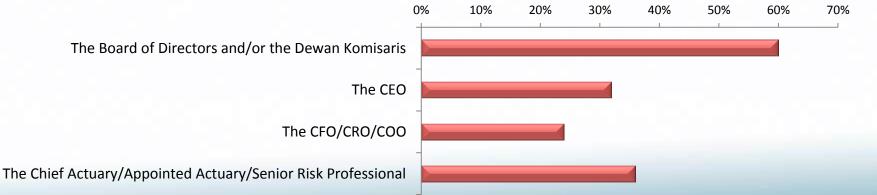




Has your organisation designated risk owners and risk reviewers for each of the risk and sub-risk modules of the RBS framework?



What was the highest level of executive involvement in the formulation or review of the RBS submission?



ERM Seminar 25 Survey on Risk Based Supervision, Indonesia 10 September 2015





To what extent were other non-risk and non-actuarial departments involved in the scoring and formulation of the RBS submission?

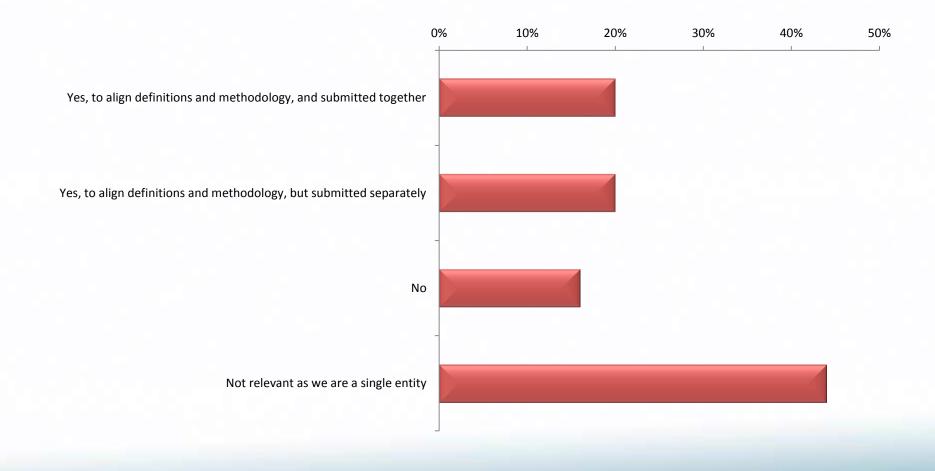


ERM Seminar 26 Survey on Risk Based Supervision, Indonesia 10 September 2015





If your organisation has multiple entities (e.g., Syariah, non-Syariah, life, non-life, health), did your organisation co-ordinate internally?



ERM Seminar 27 Survey on Risk Based Supervision, Indonesia 10 September 2015





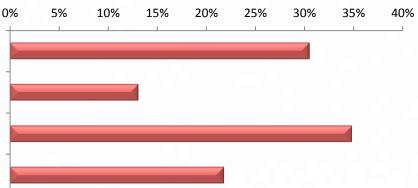
When preparing the submission, what extent has your organisation documented the process?

We have documented in detail all internal definitions, methodologies, supporting evidence and meeting minutes relating to the RBS process

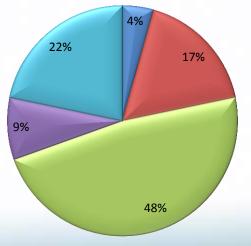
We have documented in detail most parts of the process (please specify which ones)

We have documented at a high level some parts of the process (please specify which ones and comment further)

We have documented very little of the process by which we formulated our NR and report (please comment why)



When submitting the RBS report to OJK, what have you included in addition to the basic template?



- A detailed commentary on each risk and sub-risk, detailing the methodology used and backing evidence such as policy documents
- A detailed commentary on each risk and sub-risk, detailing only methodology used
- A brief discussion on each risk, briefly outlining the reasoning behind the score
- A discussion on the overall NR only

None beyond the minimum



ERM Seminar 28 Survey on Risk Based Supervision, Indonesia 10 September 2015





To what extent is your organisation looking to enhance its ERM framework?

Yes, very topical internally.

Yes, but little progress to date.

No, ERM Not seen as a key objective currently.

ERM Seminar 29 Survey on Risk Based Supervision, Indonesia 10 September 2015

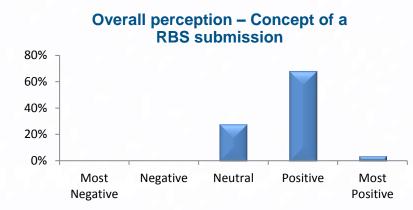
2

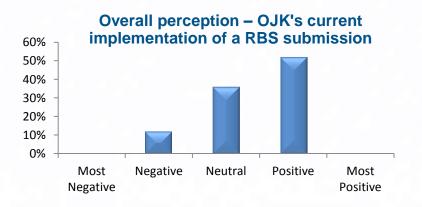
3



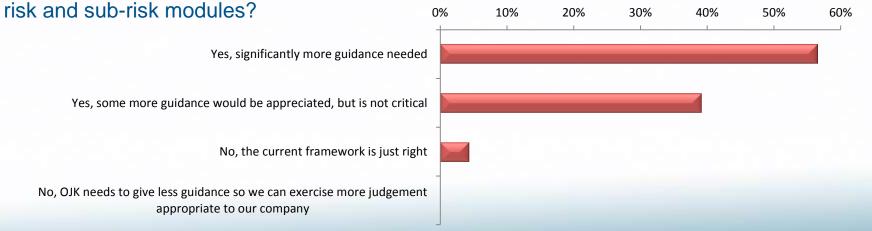


What is your overall perception on the concept of a RBS submission? What is your overall perception on OJK's current implementation of a RBS submission?





Do you feel that more guidance should be given by OJK on how to calculate the individual





ERM Seminar 30 Survey on Risk Based Supervision, Indonesia 10 September 2015



A bold move by the OJK, moving in the direction of enhanced risk-based supervision, as practiced in markets such as Singapore, Malaysia, China etc. However the survey shows this should be viewed as a preliminary step, with scope for further enhancements.

Qualitative assessment

Current RBS framework

Some integration with RBC

• E.g. C-ROSS with RBC risk multipliers

Quantified risk management

• E.g. ORSA with use test for internal ORSA models

- All participants identified Operational, Strategic Risk and ALM Risk as their biggest concerns independent of the actual risk scoring;
- The industry response to the RBS concept were overwhelmingly **positive**, and the majority have indicated that they plan or already have integrated the RBS exercise into their internal risk management practices.
- However, the majority of participants indicated that they would appreciate more guidance from the OJK on how to determine their Risk Scores insurers are currently using a wide variety of approaches; And hence there may be a lack of consistency comparability of results across companies





Milliman Insights....

- Majority of companies also plan to increase their internal risk management capabilities and staffing in response to this RBS concept. Good initiative but resourcing may be challenging
- Interestingly, for most companies, the entire process were driven entirely by the actuarial or risk teams, with **limited involvement from other functions** such as operations, strategy and legal. Best practice would suggest a coordinated approach across all aspects of the business. In other markets the risk function reports to the Board, which has ultimate responsibility.
- Documentation of the submissions varied considerably, ranging from the submission of the template (only) to a more comprehensive document with methodology/commentary/backing evidence. A consistent format across with industry (with some documentation) would help the OJK to understand the approaches adopted and help make its assessment of companies' submissions more efficient. More detailed documentation internally is essential as companies develop the entire ERM process.



ERM Seminar 32 Survey on Risk Based Supervision, Indonesia 10 September 2015

Disclaimer

This presentation is intended solely for educational purposes and presents information of a general nature. It is not intended to guide or determine any specific individual situation and persons should consult qualified professionals before taking specific actions. Neither the presenters, nor the presenters' employer, shall have any responsibility or liability to any person or entity with respect to damages alleged to have been caused directly or indirectly by the content of this presentation.



ERM Seminar 33 Survey on Risk Based Supervision, Indonesia 10 September 2015

Contact Information

Richard Holloway FIA, FSAS, FASM, FIAI Managing Director South East Asia & India, Life

 Tel
 +65 6327 2301

 Mobile
 +65 9732 0150

 Email
 richard.holloway@milliman.com

Iwan Juwono FIAA, FSAS Consulting Actuary

| Tel | +65 6527 2315 |
|--------|--------------------------|
| Mobile | +65 9712 1165 |
| Email | iwan.juwono@milliman.com |





ERM Seminar 34 Survey on Risk Based Supervision, Indonesia 10 September 2015