



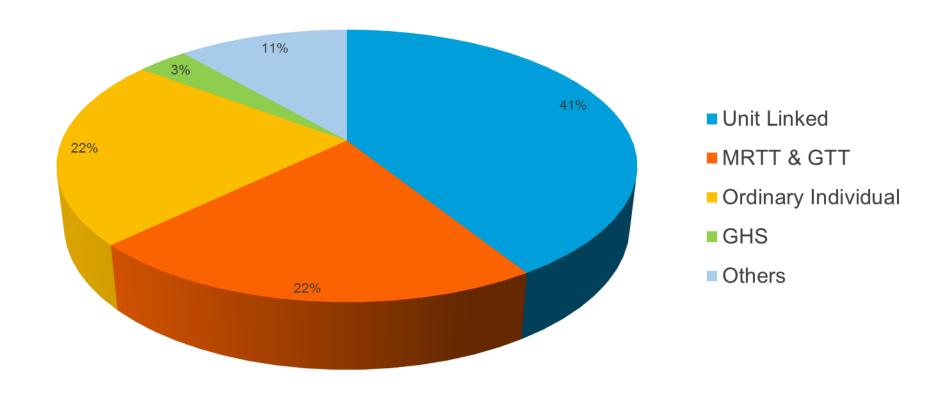
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# Family takaful: Product Development and ITCL issues

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# **Current Malaysia Family Market Split by Product**



Annual Contribution Equivalent Jan – June 2012

# **MRTT Long Term Risk Fund**

We can cross subsidize in a long term risk fund, but with a drip product there are less capital charges

# **MRTT Long Term Risk Fund Example**

Asset Class	Investment Return	Market plus Credit Risk Charges
Equity	8%	20%
GII	3.6%	0%
Corp AAA	4.3%	1.6%
Corp AA	5.0%	2.8%
Corp A	8.5%	4.0%
Property (inv)	6%	16%
Cash / Deposits	3%	0%
Others	3%	2%

- Bond returns from BNM website, average duration 10 years
- Corporate bond mix 42% AAA, 47% AA and 11% A from RAM
- Market plus credit charge grossed up to 180% in calculations (ITCL)
- Actual operator asset mix from recent annual report

# **Investment Returns versus Charges**

Operator	Exp. Inv. Return	Grossed up market and credit charges for RM100m
STM	5.0%	RM9.1 million
Etiqa	4.8%	RM6.0 million
PruBSN	4.2%	RM2.2 million
HLMT	4.2%	RM3.4 million
Ikhlas	4.0%	RM5.9 million
CATB	4.0%	RM2.8 million

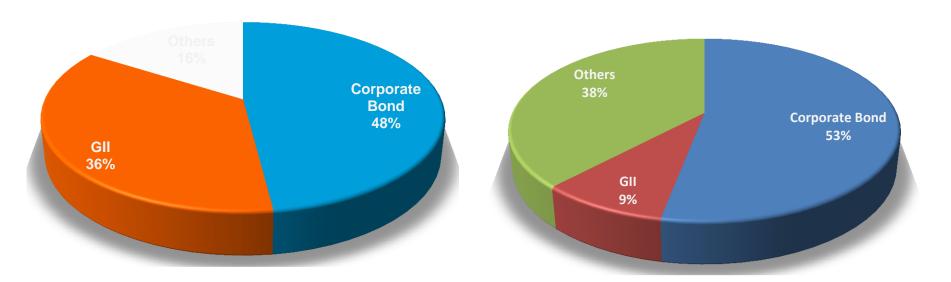
#### **MRTT Questions**

# Allocate capital where you really need it!

# **Comparing Strategies**

- STM and Etiqa expect higher returns but they require more capital
- PruBSN and HLMT have similar expected returns though PruBSN has less capital required.

PruBSN



# **Ideal Strategy**

- An ALM study would need to be done to determine the ideal mix of assets for a given return requirement.
- If a return of 4.2%p.a. is marketable a strategy such as used by PruBSN, may be reasonable, whereas if a higher return of say 4.8%p.a. is needed a strategy such as used by Etiqa may be best

Asset Class	PruBSN	Etiqa
Equity	0%	9%
GII	36%	16%
Corporate Bonds	48%	59%
Cash / Deposits	12%	12%
Others	4%	3%

#### **Use of Retakaful**

Under NPV retakaful was needed to reduce strains. Now it depends on how conservative you make your assumptions

# **Conservatism in assumptions**









Incur liability capital charges

Rely on retakaful Price tabarru'
more
conservatively
than best
estimate

# **Mismatching**

Thinking outside the box we can design and sell products to suit available assets

#### **Use of Subfunds**

We can increase fairness by using subfunds but this can be a costly use of capital

#### **Location of Surrender Values**

Surrender values are used where a participant 'overpays' in early years. In takaful we have both the risk fund and operators fund to consider.

# **Surrender Value Capital Charge (SVCC)**

Surrender value capital charges hint that the surrender value should be partly paid from the operators fund



## **Internal Target Capital Level (ITCL) Process**

Identify, mitigate or stress test risks from the bottom up

## **Clarity of Process**

ITCL quantifies risks but is only useful if the Board and management clearly understand the process

# **Risk mitigation**

Risk mitigation strategies include ensuring written processes are in place for such tasks as product development, reserving and RBCT calculation

#### **MRTT Drip Plans**

For drip products investment return of PA is not included in the risks being stressed in the appendix to the guideline. Thus this should be factored into ITCL

## What is plausible?

The board should define 'plausible', 90% confidence level, 99.5%...

# **Putting it all together**

TOF defines fairness, GPV removes the implicit conservatism from NPV and RBCT quantifies the ability of the operator to withstand its risks



# Questions

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