





"What's gets Measured gets Managed"

IPMS – Insurance Performance Management System

Our Value Proposition for :

"Achieving Clarity, Alignment and Accountability"

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23/2/2016

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 - Top Insurance Industry Issues in 2016
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IPMS – Insurance Performance Management System

Our Value Proposition for :

"Achieving Clarity, Alignment and Accountability"

The Insurance Market
Top Insurance Industry Issues in 2016
Implementation of an Effective Strategy into Action
Our Value Proposition

Top Insurance Industry Issues in 2016

Insurers are continuing to face marked changes in what customers expect in terms of products and service, how they obtain and utilize the information that informs business decisions, and their underlying business and operating models. Top Insurance Industry Issues in 2016 describe in detail the internal and external changes insurers face and how they can gain a competitive advantage.

Top issues include:

- > Creating an effective strategy, including innovation, technology and business models.
- Market segment challenges and opportunities
- Managing risk and regulatory complexity.
- Process and systems improvement.
- > Tax

Source: **pw**

Challenges for the Cyprus Insurance Industry:

- > Implementation of the European Directive for Solvency II.
- Process and Systems Improvement.
- Support of the Social Insurance,
- Support of the Health Insurance in collaboration with the Public Sector.

Source: IAC





Implementation of an Effective Strategy into Action

Successful execution of strategy has never been higher at the corporate agenda.

"Corporate Performance Management" should provide organizations with a complete picture of where they have been, where they are and where they are going.

The **goal of the proposed approach** is to introduce the concept of the Balanced Scorecard for a "total" Performance Management solution that will provide the management with:

- > A derivation of a strategy map and of its Key Performance Indicators
- A selection of the financial and non-financial measures required to set-up a BSC model
- A plan for introducing the BSC as the global enterprise management tool of the company.
- A tool to communicate strategy to all levels, ensuring fast and successful strategy execution,
- Align people's objectives and processes to drive the right actions to foster increased productivity and continuous improvement,
- Implement continuous performance monitoring, through transparency and an internal accountability,
- Combine qualitative and quantitative performance data with human knowledge, enabling fact based decision making,





Our value proposition

Our Approach: Our value proposition includes the development of a Balanced Scorecard Business model and its implementation through a Performance Management Suite.

Our value proposition: Through our approach we will help you:

- Confirm the key drivers that create value and enable continuous improvement,
- Develop the Balanced Scorecard Business model for the effective and efficient management and monitoring of business performance against Strategic Objectives,
- Align and assign accountabilities through a balanced and interdependent set of measures, focused on achieving the Strategic Objectives.

The **Performance Management suite** shall enable you to ...

- Achieve internal clarity and accountability against Strategic Objectives.
- Measure and monitor real time performance against Strategic Objectives,
- Link processes / activities / outputs to Strategic Objectives (Strategy Map),
- Deploy a seamless performance monitoring /review mechanism.









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Strategic Performance Management & Balanced Scorecard a Mechanism for Performance Management For the Insurance Industry

Strategic Performance Management Approach:

"The Balanced Scorecard is a Performance Management system of linked objectives, measures, targets and initiatives, which collectively describe the strategy of the organization and how this strategy will be achieved"



"If you can't measure it, you can't manage it.

If you can't manage it, you can't improve it."

DR. ROBERT KAPLAN & DR. DAVID NORTON





Balanced Scorecard Overview:

The Balanced Scorecard is a performance management tool that "translates strategy into action" by:

- Determining 15-20 (financial and non-financial) key performance measures
 that will contribute to successfully
 measuring and managing the
 implementation of strategy.
- Clustering similar types of measures into groups (perspectives) that can characterize any organization.

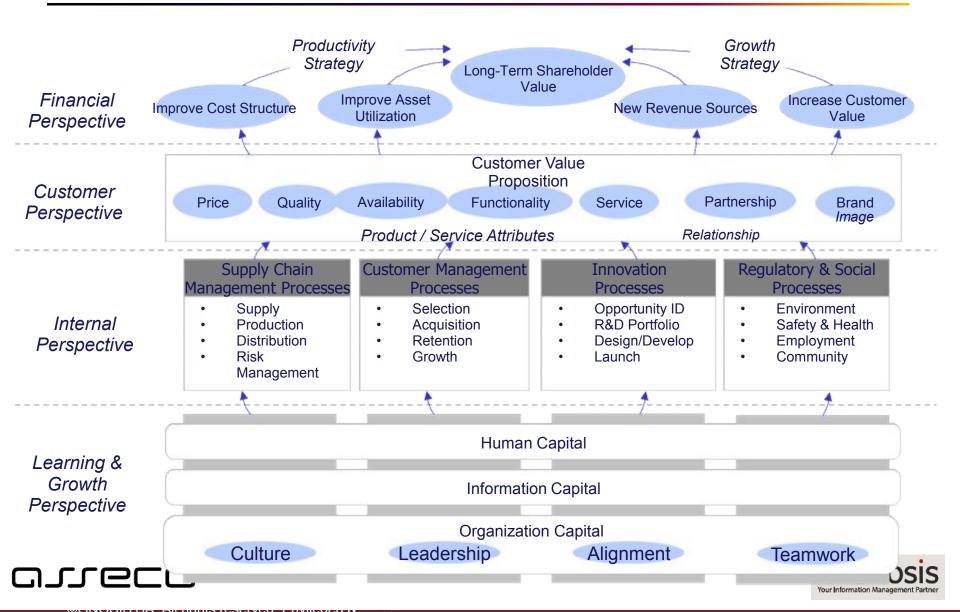


Balanced Scorecard Diagram

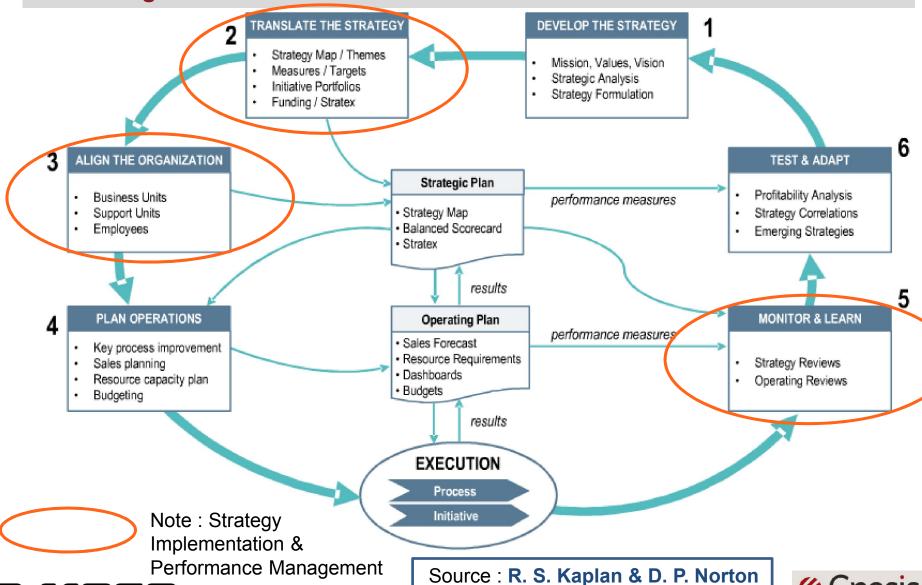




Strategy Maps describe how Value is created:



The project Scope Focus on Planning the Strategy, Aligning the Company & Monitoring the Performance :









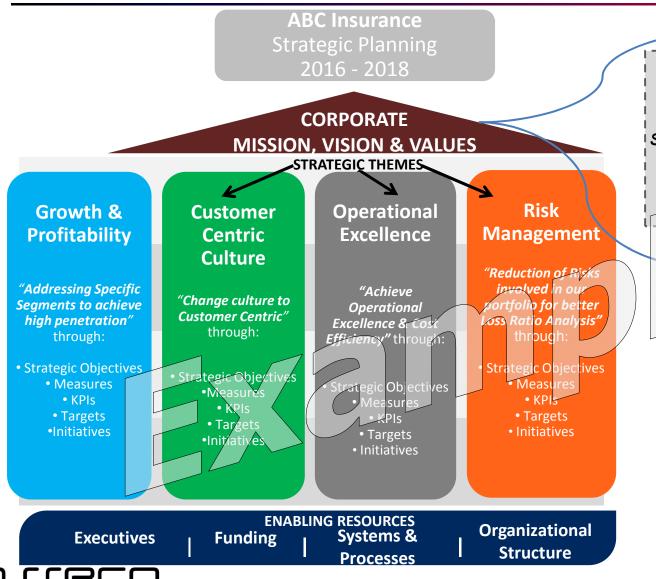
IPMS – Insurance Performance Management System

Our Value Proposition for :

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A Business Model for the Insurance Industry

....which should be fully customized, compatible and aligned to the company's major strategy framework



>Mission

ABC Insurance Mission: "
To provide innovative insurance products and services to our customers and our distribution network in the local market"

>Set of Values

Reliability

Respect for the environment

Quality in Customer Service

Invest in expertise

Improvement & Growth

Insurance Business Model & KPIs

Company Level :

Business area (e.g. Life and Savings or Property and Casualty)
Line of business (e.g. Motor, Fire, Health, Property etc.)
Product (e.g. Motor flexi, Basic household, Medical, etc.)
Package (e.g. Motor flexi classic, Medi+, etc.)
Cover (e.g. Liability, premium waiver, earthquake etc.)

> Analysis, Reporting & KPIs for :

- Policies and Premiums
- Claims
- Profitability
- Distribution Channels

Functional Areas

- Exposure Calculation (produce statistics and to run ad-hoc study)
- Pricing Analysis (Historical data based on Net Written Premiums vs Losses)
- Financial Analysis & Reporting (overall performance of the company (all channels) for each line of business)
- Commission Analysis (written commissions and the commission rate of the current year and to compare them with previous year's)
- In force Personal portfolio Analysis
- Loss Ratio Analysis
- Re-Insurance Reporting





Insurance Business Model & KPIs

- More than 200 KPIs monitoring for Corporate, as well as the departments for :
 - Operations,
 - Claims Performance Management,
 - > Accounting,
 - Marketing,
 - Actuarial & Underwriting,
 - Quality Assurance,
 - > Human Resources
 - Distribution Channels
- > The application will be also in the position to monitor each KPI for :
 - The Current Month or Selected period
 - > The relative Month of previous year
 - ➤ Their differences in Amounts and/or Percentages
 - ➤ The Year to Date (YTD)
 - ➤ The relative Last Year to Date (LYTD)
 - ➤ Their differences in Amounts and/or Percentages
 - The Year to Date Budget (YTD Budget)
 - > The YTD Actual vs YTD Budget differences in Amounts and/or Percentages





Insurance Business Model & KPIs

Olice O

rate Balanced Scorec	ard														
						Monthly evolution		YTD vs. previous year and budget							
KPIs	KPI Description	Formula	Unit of Measur ement	Min	Averag e	Max		Directi on	Current Month (Jan-Dec)	YTD actual	YTD actual vs. previous year absolute gap	YTD actual vs. previous year % gap	YTD budget	YTD actual vs. YTD budget absolute gap	YTD actual vs. YTD budget % gap
pic Theme 1. GROWTH															
pective 1. FINANCIAL															
Strategic Objective 1. TOTA	L REVENUE INCREASE														
Total Gross Premium Income	Total Premium on the insurance policies within measurement period per category	Total Aremium	amount						Source : Insurance System / File = NA, Data Input	System / File = NA, Data Input =Yes/ No /	System / File = NA, Data input =Yes/ No /	System / File = NA, Data Input =Yes/ No /	System / File = NA, Data input =Yes/ No /	Premium income / Forcasted premium	YTD Actual Gross Premium income - Forcasted premium income
C17.6	Average insurance policy size of policies closed within measurement period	Total Premiums/Count of Policies	amount				Monthly	Maximize							
	% growth of New Net written premium. The comparison can be with respect to last Month or Quarter or Year.		Percentag e					Maximize							
	Number of new insurance policies closed within measurement period.	Number of new insurance policies	Number					Maximize							
ic Theme 2. PRODUCTIVIT	Y & PROFITABILITY														
Strategic Objective 1. PROF	IT RATE INCREASE														
Operating profit before tax	Gross Premium Income minus Claims minus Operational Expenses	Grass Premium Income minus Claims minus Operational Expenses	amount					Maximize							
Strategic Objective 2. RETU	RN ON INVESTED CAPITAL														
	Risk-adjusted return on capital (RAROC) is a risk-based profitability measurement framework for analysing risk-adjusted financial performance	Expected Return / Value at Risk or Expected Return / Economic Capital (The economic capital is the													
ROE	Return on equity (ROE) measures the rate of return on the ownership interest (shareholders' equity)	=Net Income / Shareholder Equity													
trategic Objective 3. COST	LEADERSHIP	<u>, </u>	7												1
p S L	ic Theme 1. GROWTH pective 1. FINANCIAL Strategic Objective 1. TOTAL Total Gross Premium Income (GPI) Average insurance policy size %Growth - New Net written premium Number of new insurance policies ic Theme 2. PRODUCTIVITY Strategic Objective 1. PROFI Operating profit before tax Strategic Objective 2. RETUI RAROC (Risk-adjusted return on capital)	ic Theme 1. GROWTH pective 1. FINANCIAL Strategic Objective 1. TOTAL REVENUE INCREASE Total Gross Premium Income (GPI) Average insurance policy size Average insurance policy size of policies diosed within measurement period per category Average insurance policy size of policies closed within measurement period % growth - New Net written premium. The comparison can be with respect to last Month or Quarter or Year. Number of new insurance policies closed within measurement period. In theme 2. PRODUCTIVITY & PROFITABILITY Strategic Objective 1. 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IPMS – Insurance Performance Management System

Our Value Proposition for :

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IPMS Architecture& QlikView Business Discovery System

Proposed Architecture for the Data Warehouse and Data Warehousing Methodology

The Financial MIS Solution is based on the following technologies:

- Microsoft Visual Studio (Any Edition)
- SQL Server 2008 (Standard or Professional Edition)
- Microsoft Office 2010 (Excel, Powerpoint, Word) & Sharepoint
- QlikView Business Intelligence Software

Visual Studio is the tool that provides us with design capabilities with ease in a windows-based graphical environment.

MS - ETL packages will be implemented.

SQL Server 2008
release will be the
repository that Data
Warehouse will be
created in. Will be
consisted of multiple
Databases with tables
and user-defined
procedures and
views.

Microsoft Office 2010
is very powerful tool
providing us Word
Editor, Excel
Spreadsheet
administrator,
presentation
expertism using
Power Point, as well
as Sharepoint
Environment etc.

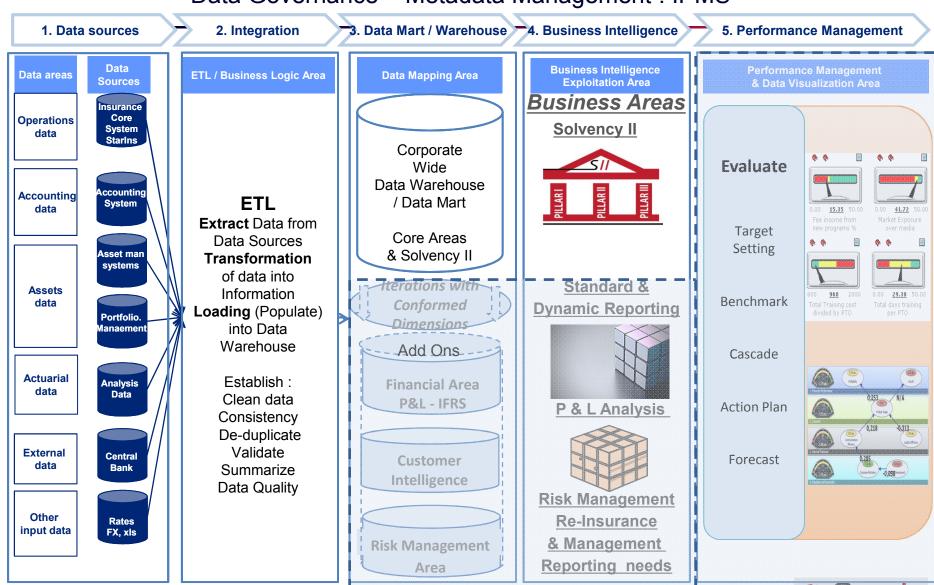
QlikView Business
Intelligence Software
v.11, is a powerfull
tool for the End-User,
easy to be used with
very strong Analysis &
reporting, as well as
Collaborative
functionality.
QlikView utilise Inmemory Analysis





Technical Architecture for the Data Warehouse

Data Governance – Metadata Management : IPMS



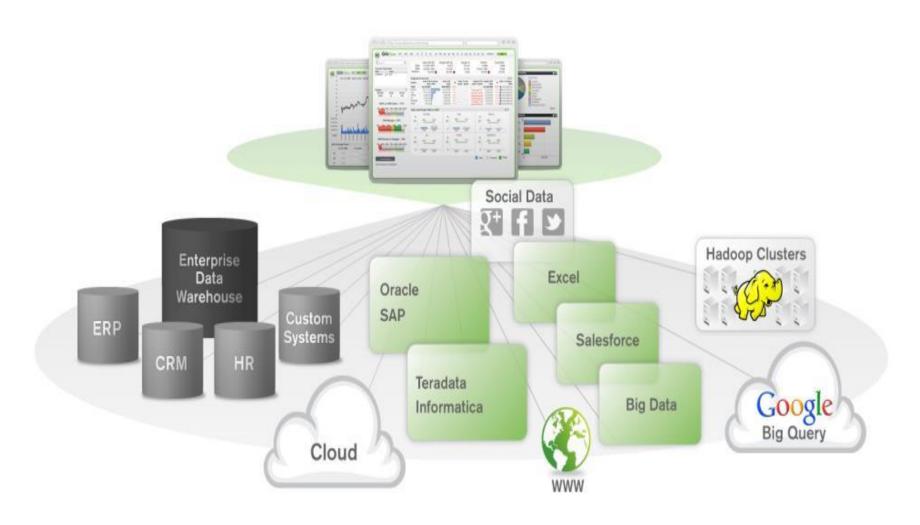
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Self-service data visualization & discovery



Qlik platform rapidly make data accessible, whatever the source







visualizes data so people can use it...

- Anytime, Anywhere
- Total freedom from the desktop
- Any business user can create a Qlik application
- Mash them up into complementary apps like Google Maps or SharePoint







Qlik use cases in Non-life and Life Insurers sample projects

Agency & Insurance Brokers

- Sales & Revenue Analysis
- Customer Targeting
- · Broker / Agency Analysis
- Sales Performance Analysis
- Online Channel Performance





Executive Management

- Executive Dashboards and Mobile
- Balanced Scorecards
- Predictive / What-If Analysis
- Product Performance
- · Performance, Margins, Commissions

Claims

- Integrating Underwriting & Claims
- · Fraud Investigation
- Subrogation
- Processing and Fast Tracking
- Reserve Adequacy





Risk Management & Compliance

- Solvency II Compliance
- Actuarial Loss Triangles
- Risk & Exposure Analysis
 - Credit, Market, Portfolio, Operational
 - Cross-Product / Counterparty Risk...

Underwriting

- Integrating Underwriting & Claims
- Loss Ratio Analysis
- Policy Portfolio Analysis
- Optimize Approval Process
- · Resource Allocation





Investments

- Portfolio Management & Analysis
- Investment Performance & Profitability
- Investment Research
- Scenario / What-if Analysis
- AUM Analysis / NAV Interpolation

Operations, IT, & Back Office

- Expense Management
- Financial & Management Reporting
- P&L Analysis by LOB
- Fund Accounting / GL
- IT Systems & SLA Management





Marketing & Product Management

- Customer Retention
- Cross-sell and Up-sell
- Customer Profitability & Segmentation
- Product Performance Analysis
- Marketing Campaign Analysis





ROI with Qlik Insurance examples











Top 25 U.S. Insurer

- \$221k projected cost savings not including reduction in time spent on manual budgeting and data reconciliation
- <8 week implementation</p>
- 25% improvement in lead conversion rates
- 60% reduction in time and IT resource requirements for regulatory reporting
- 17% overall business growth over 2 yrs attributed to QlikView
- \$400,000 savings achieved over a period of two years
- <4 week deployment to business users
- 10 days to achieve quantifiable ROI
- 6 days to deploy first application
- 1000+ complex data sources governed with QlikView Expressor
- \$300m of financial transactions reconciled down to the penny
- 4 weeks to deploy 5 QlikView Expressor data flows
- \$26m in claims fraud savings by QV discovery
- \$7m avoided in Cognos upgrade/maintenance costs











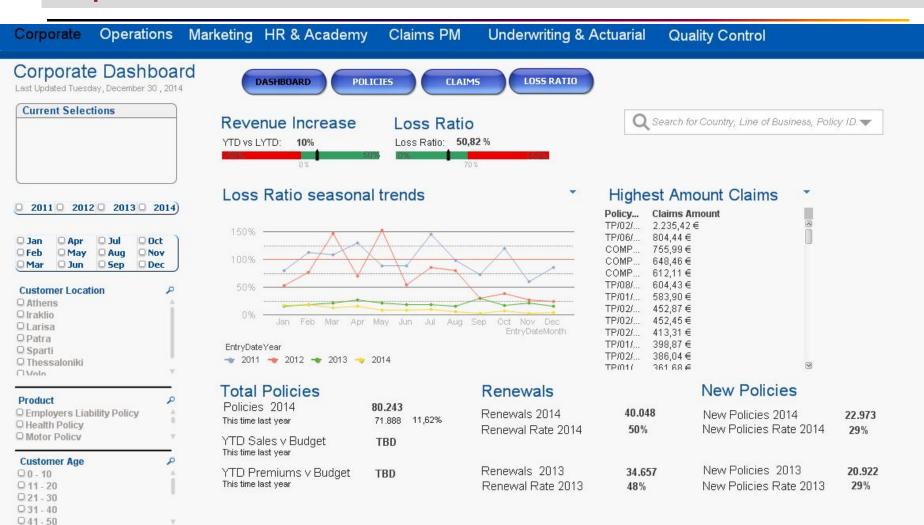
IPMS – Insurance Performance Management System

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IPMS Presentation

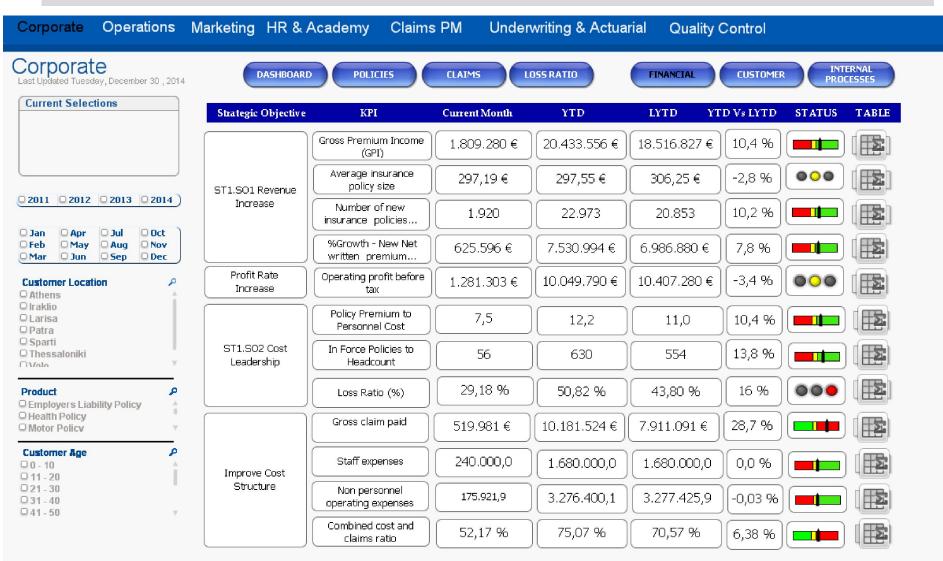
Strategic Management using a balanced Scorecard Approach : Corporate Dashboard :







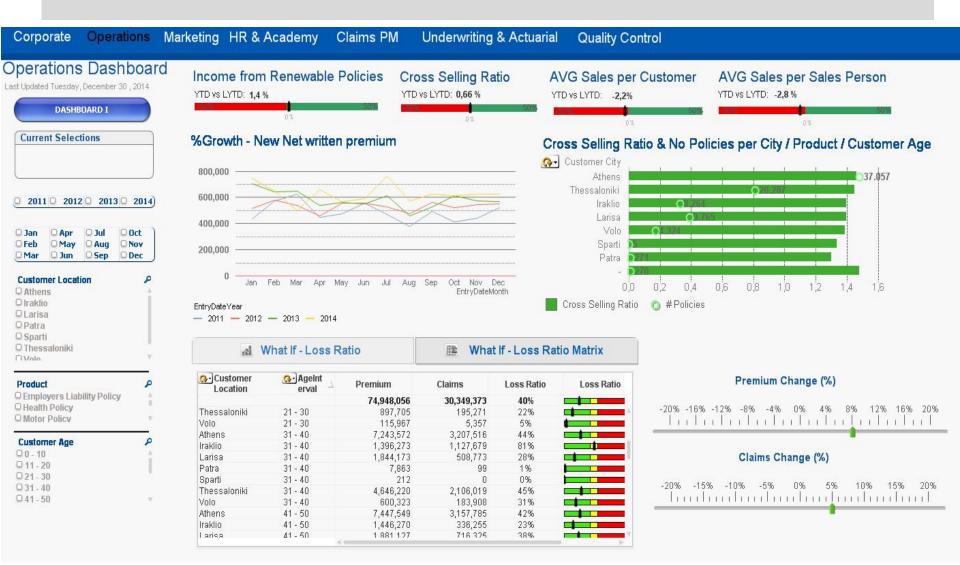
Strategic Management using a balanced Scorecard Approach : Corporate Dashboard :







Operations Department Dashboard I:







Operations Department Dashboard II:

Property Policy

Marketing HR & Academy **Underwriting & Actuarial** Operations Claims PM **Quality Control** Corporate Operations Dashboard Total Gross Premium Income (GPI) %Growth - New Net written premium New Policies from New Customers Last Updated Tuesday, December 30, 2014 YTD vs LYTD: 10,8 % YTD vs LYTD: 8,3 % YTD vs LYTD: 10,1 % DASHBOARD II **Current Selections** Gross Premium Income (GPI) Trends Average Premium & No Policies per City / Product / Custo... AgeInterval 2 - 31 - 40, 41 -50, 51 - 60 Customer City 1.500.000 21.000 Athens Thessaloniki 1.000.000 O 2011 O 2012 O 2013 O 2014) Patra Iraklio 500.000 Jan O Jul □ Oct Larisa □ Feb □ May O Aug □ Nov □ Mar □ Jun □ Sep □ Dec 0 Jan Feb Mar Apr May Jun Jul Aug Sep Sparti **Customer Location** EntryDateYear Athens — 2011 — 2012 — 2013 — 2014 □ Iraklio □ Larisa □ Patra Policies by Customer City & Product Policies by Customer Age & Product □ Sparti ☐ Thessaloniki □ Wolo AgeInterval • TroductDescription Premium (%) Premium Premium vs LY Policies Policies (%) Policies vs LY Product 35,81% 16.654 36,83% 31 - 40 4.671.211,86€ 16,48% 23,2% © Employers Liability Policy Employers Liability ... 589,39€ 0,00% -36,94% 10 0,02% -9,1% ☐ Health Policy Health Policy 62.124,99€ 0,48% 64,72% 134 0,30% 63,4% ☐ Motor Policy 4.342.605,92€ 13,47% 15,857 35,07% 21,1% Motor Policy 33,29% Property Policy 265.891,57€ 2,04% 83,91% 653 1,44% 95,5% **Customer Age** 41 - 50 4.297.273,23€ 32,94% 9,51% 14.672 32,45% 10.3% 31 - 40 Employers Liability ... 1.521,57 € 0,01% 4,15% 27 0,06% -3,6% 41 - 50 Health Policy 36.050,35€ 0,28% 38,20% 84 0,19% 18,3% 51 - 60 Motor Policy 3.948.383.42€ 30,27% 6,64% 13,719 30,34% 8,3% 0.10 Property Policy 311.090.51€ 2,38% 60,59% 840 1,86% 59.1% ■ 11 - 20 0,00% 0,00% Public Liability Policy 227,37€ 90,89% 100,0% ■ 21 - 30 51 - 60 4.076.876,77€ 31,25% 6,22% 13.891 30,72% 9.0% ■ 61 - 70 Employers Liability ... 7.885,44 € 0,06% 28 0.06% -20,67% -24,3% ■ 71 - 80 Health Policy 42 0,09% 31.573,73€ 0,24% 19,04% -2,3% ■ 81 - 90 28,59% Motor Policy 3.693.095,20€ 28,31% 4,48% 12.927 7,7%

344.117.48€

2,64%

29,18%

892

1,97%





37,0%

Operations Department DashBoard II:

Operations Marketing HR & Academy Corporate Claims PM **Underwriting & Actuarial Quality Control** Operations Dashboard Total Gross Premium Income (GPI) %Growth - New Net written premium New Policies from New Customers Last Updated Tuesday, December 30, 2014 YTD vs LYTD: 7,8 % YTD vs LYTD: 10,4 % YTD vs LYTD: 10,2 % DASHBOARD II **Current Selections** Gross Premium Income (GPI) Trends Average Premium & No Policies per City / Product / Custo... ♠ AgeInterval 71 - 80 2.000,000 11 - 20 61 - 70 2011 2012 2013 2014) 0 - 10 81 - 90 1.000.000 51 - 60 13.891 □ Jan □ Apr O Jul O Oct 41 - 50 14.672 31 - 40 16.654 □ Feb □ May ☐ Aug □ Nov 21 - 30 □ Jun □ Sep □ Dec 91 - 100 Jan Feb Mar Apr May Jun Jul Aug Sep **EntryDateMonth Customer Location** EntryDateYear 100 200 300 350 400 Athens — 2011 — 2012 — 2013 — 2014 □ Iraklio Avg. Prem. p # Policies □ Larisa □ Patra Policies by Customer City & Product Policies by Customer Age & Product □ Sparti □ Thessaloniki □Wolo ▼ ProductDescription PrimaryCity Premium (%) Policies Policies (%) Policies vs LY Premium Premium vs LY Product Total 20.433.556,16€ 100,00% 10,35% 68.673 100,00% 13,58% Employers Liability Policy 60.640,01€ 0,30% 5,81% 229 0,33% 14,50% ☐ Health Policy Motor Policy 55.521.74€ 0.27% 2,72% 211 0.31% 10,47% ☐ Motor Policy Property Policy 5.118,27 € 0.03% 57,12% 18 0,03% 100,00% Athens 9.523.335,28€ 46,61% 10,45% 31.518 45,90% 12,65% **Customer Age** Employers Liability Policy 17.763,20€ 0,09% -17,97% 139 0,20% 1,46% 00-10 Health Policy 114.195,45€ 0.56% 51,73% 248 0.36% 41,71% □ 11 - 20 Motor Policy 8.657.281,37€ 42,37% 8.61% 29.313 42,68% 11,15% Q21-30 Property Policy 730.601,59€ 3,58% 32,38% 1.791 2,61% 40,80% Q31-40 Public Liability Policy 3.493,67 € 0,02% 24,99% 27 0,04% 22,73% Q41-50

2.056.359,26€

1.387.66 €

Employers Liability Policy

10,06%

0.01%

4,86%

6.75%

6.939

21

10,10%

0.03%



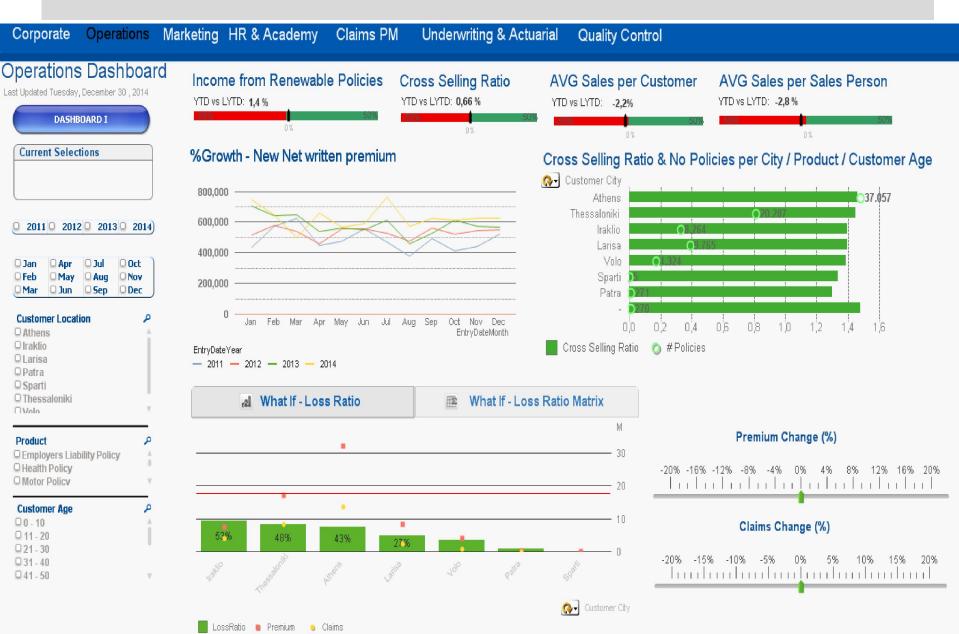
Iraklio



7,98%

40,00%

Operations Department DashBoard II:



Strategic Management using a balanced Scorecard Approach:

KPIS REPORT

Last Updated Tuesday, December 30, 2014



2011	2012	2013	□ 2014)

🗆 Jan	□ Apr	□ Jul	Oct
□ Feb	□ May	□ Aug	□ Nov
□ Mar	□ Jun	□ Sep	□ Dec

Guatornoi Locution
☐ Athens
□ Iraklio
□ Larisa
□ Patra
□ Sparti
□ Thessaloniki

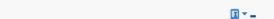
Customer Location

□ Volo

Product	
☐ Employers Liability Policy	
☐ Health Policy	
☐ Motor Policy	

Customer Age	
□ 0 - 10	
□ 11 - 20	
□ 21 - 30	
□ 31 - 40	
□ 41 - 50	

Annual	Com	parison	Rei	port
/ IIIII ICICI	00111	pariouri	110	0011



Strategic Theme	Perspective	Strategic Objective	_metrics	Current Month	YTD	LYTD	YTD vs LYTD
	=	Cross Selling	☐ Cross Selling	1,12	1,44	1,43	0,79%
	Customer	Increase Customer Penetration	■ New Policies Revenue	34,6 %	36,9 %	37,7 %	-2,32%
		Total Revenue Increase	Total Gross Premium Income	1.809.280,19 €	20.433.556,16 €	18.516.826,58 €	10,35%
O4b			AVG Insurance Policy Size	297,19 €	297,55 €	306,25€	-2,84%
Growth	Financial		Number of new Insurance Policies	1.920	22.973	20.853	10,17%
			% Growth - New Net Written Premium	625.595,90 €	7.530.994,44 €	6.986.880,00 €	7,79%
			AVG Sales per Customer	332,89 €	428,21 €	437,25 €	-2,07%
	Internal Processes & Inf	☐ Operational Excellence in Underwriting & Actuarial	☐ Average sales revenue per sales person	42.076,28 €	352.302,69 €	336,669,57 €	4,64%
	Customer	Customer Retention	Policy Renual Rate	61,2 %	58,3 %	57,1 %	2,13%
			Renewability	75,9 %	77,6 %	75,1 %	3,26%
Productivity &	-	Cost Leadership	E Loss Ratio	29,18 %	50,82 %	43,80 %	16,03%
Profitability	Financial	Improve Cost Structure Profit Rate Increase	Gross Claim Paid	519.980,51 €	10.181.524,09 €	7.911.090,91 €	28,70%
			Operating Profit before Tax	1.281.303,35 €	10.049.790,34 €	10.407.280,47 €	-3,44%
	Internal Processes & Inf	☐ Improve Claims Management	[⊞] % of escalated insurance claims	0,5 %	0,9 %	0,6 %	49,59%
Risk Management	Financial	Lower Risk Exposure	Income from Renewable Policies	69,8 %	67,9 %	66,9 %	1,44%



