Oceanfile Marine

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Effective Management Tools for the Statistical and Analytical Requirements of TMSA3

# Effective Management Tools - Key Benefits:

- Complete TMSA Workflow

- Streamlined TMSA Audits

- Human Resource Savings

- Vessel Management Cost Savings

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- TMSA Process
- What does TMSA 3 require?
- Raising the Bar
- Meeting TMSA requirements - Options
- Oceanfile TMSA Manager
- Data Collection Requirements
- Audit Forms – Definition
- Audit Forms – Data Collection
- Data Analysis – Business Intelligence
- TMSA – Follow Up

TMSA Process Model

TMSA High Level Process
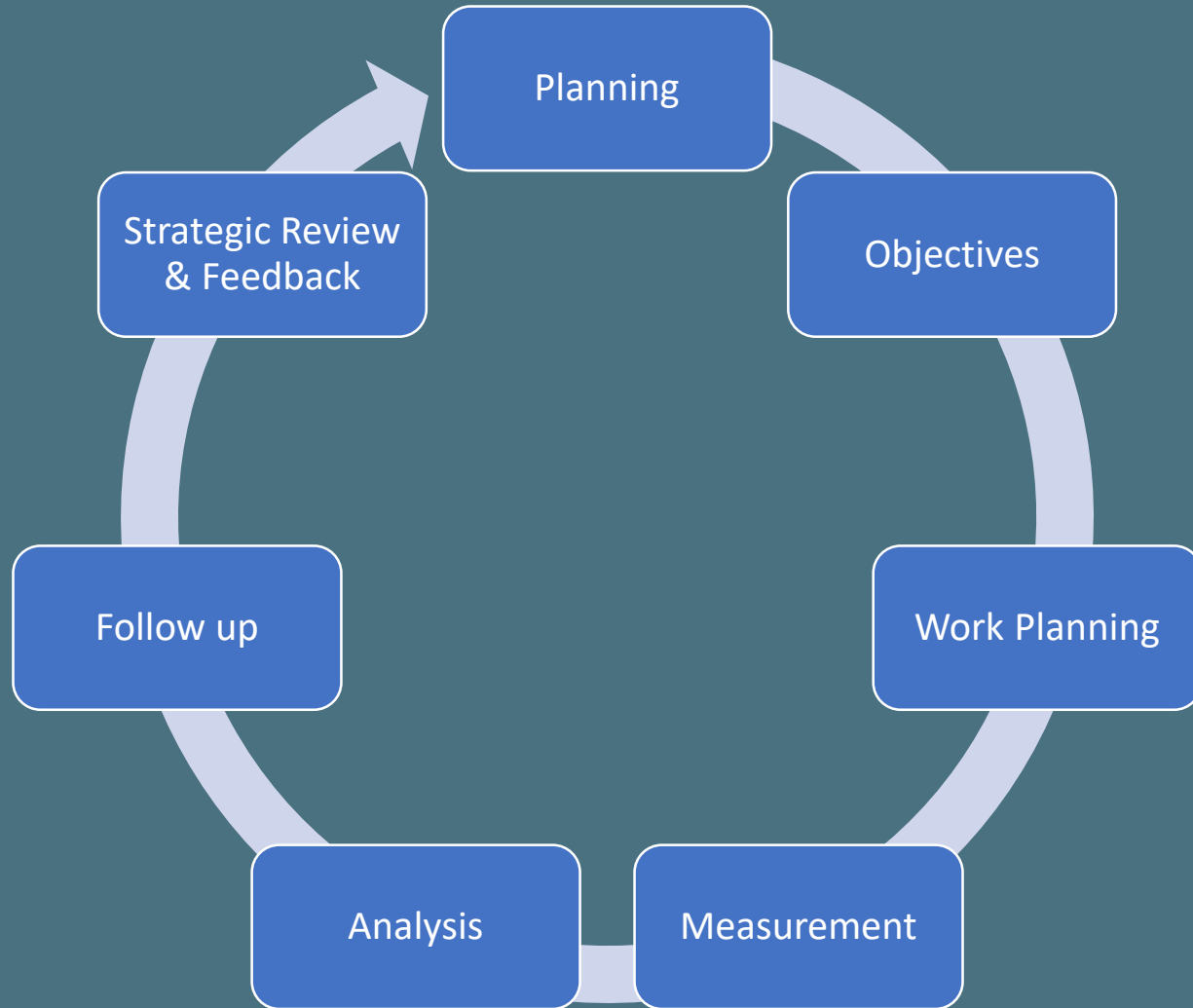
Element	Topic	Main Requirements
1	Management	Planning and Business Intelligence
2	Shore Personnel	Management Assessments Training Requirements
3	Vessel Personnel	Officer Competency Assessments and Appraisals Training Requirements D&A Audits/Health Audits
4	Vessel Maintenance	Audits & Inspections Equipment Defects and Reliability Maintenance Risk Assessments
5	Navigation	Navigational Audits
6	Cargo & Mooring	Cargo Audits Mooring Audits
7	Management of Change	Risk Assessments
8	Incidents	Incident Analysis
9	Safety	Risk Assessments Safety Inspections
10	Environmental	Environmental and Energy Measurement and Analysis
11	Emergency Planning	Contingency Planning and Exercises
12	Measurement and Analysis	Non Conformity Analysis Remedial Actions Performance
13	Security	Risk Assessments

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TMSA Levels 1 and 2
– Process, Documentation, Workflow, Worklists

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TMSA Levels 3 and 4
- Various audits, assessments, checklists and risk analysis

Competency Assessments

Officer Appraisals
Officer Quality Assessments
Senior Officers Appraisals
Job Competency Assessments
Officer Competency Assessments

Training Requirements

Training Matrix
Training Assessments for Mandatory Requirements
Training Assessments for Additional Requirements
Training Assessments for Safety, Security and Environmental
Training Assessments for Bridge Resource Management
Training Assessments for Navigational Skills
Training Effectiveness Assessments

Audits and Inspections

Working and Rest Hours Audits
Drug and Alcohol Audits
Hygiene Audits
Cargo, Void and Ballast Audits
Comprehensive Engineeering Audits
Audits and Testing of Non Continuous Use Plant
Navigational Audits
Cargo and Tank Operations Audits
Mooring Equipment and Testing Audits
Mooring Operations Audits
Safety Inspections
Environmental and Energy Targets and Measurement
Deficiency Management
Security Audits and Assessments

Risk Assessments

Vessel Health Risk Assessments
Hazard Risk Assessment
Risk Assessment of Equipment taken out of Use
Mooring Operations Risk Assessments
Risk Mitigation Management
Management of Change

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TMSA – Levels 3 and 4 raise the bar significantly

TMSA 2

TMSA 3

Measurement

- Audits
- Risk Assessments
- Inspections
- Competency Assessments
- Checklists

- Questionnaires
- Observations
- Scoring
- Risk Measurement
- Non Conformities
- Root Cause
- Remedial Work
- Training Requirements

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Analysis

- Dashboards
- Reports
- Gap Analysis
- Performance vs Targets
- Performance vs Benchmarks

- Business Intelligence
  - Dashboards
  - Charts
  - Reports
  - Spreadsheets

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Follow Up

- Task Management
- Responsibilities
- Timescales

→

- Task Manager
- Non Conformities Manager
- Defect Management
- Training Plans
- Documents

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TMSA Elements – Data Collection

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Questionnaires – Required Functions

- Questions/Topics/Items
- Guidance and Best Practice
- Observations and Responses
- Non Conformities/SMS
- Root Causes
- Remedial Actions
- Lead Responsibilities
- Defect Management
- Competency Assessments
- Training Requirements
- Risk Assessments and Impact Assessments
- Photos and Attachments

TMSA Data Collection and Analysis – What are the Options?

Documents (eg Word)
- Simple to create
- Simple to collect data
- BUT – No data validation and collation and BI presentation is challenging

Spreadsheets (eg Excel)
- Simple to create (Worksheet per Chapter or Section)
- Better data validation
- BUT – Collation of data and BI presentation remains challenging
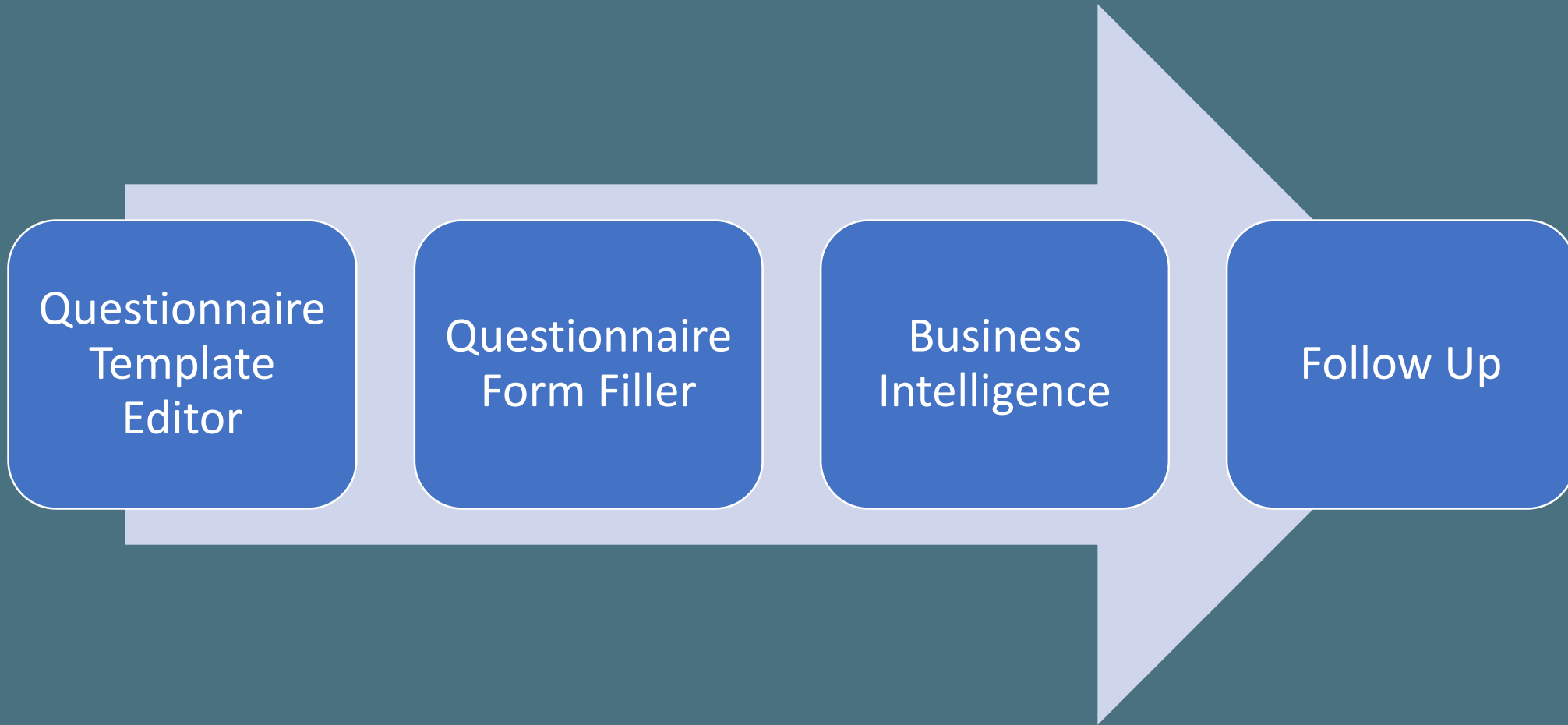
Bespoke Forms
- Good data validation
- Collation of data and BI presentation can be automated
- BUT – each form needs bespoke development and any changes requires IT resources

Templated Forms
- Very flexible
- Good data validation
- Collation of data and BI presentation can be automated using Question Topic Tags
- Additions and changes can be done in similar manner to Office type applications
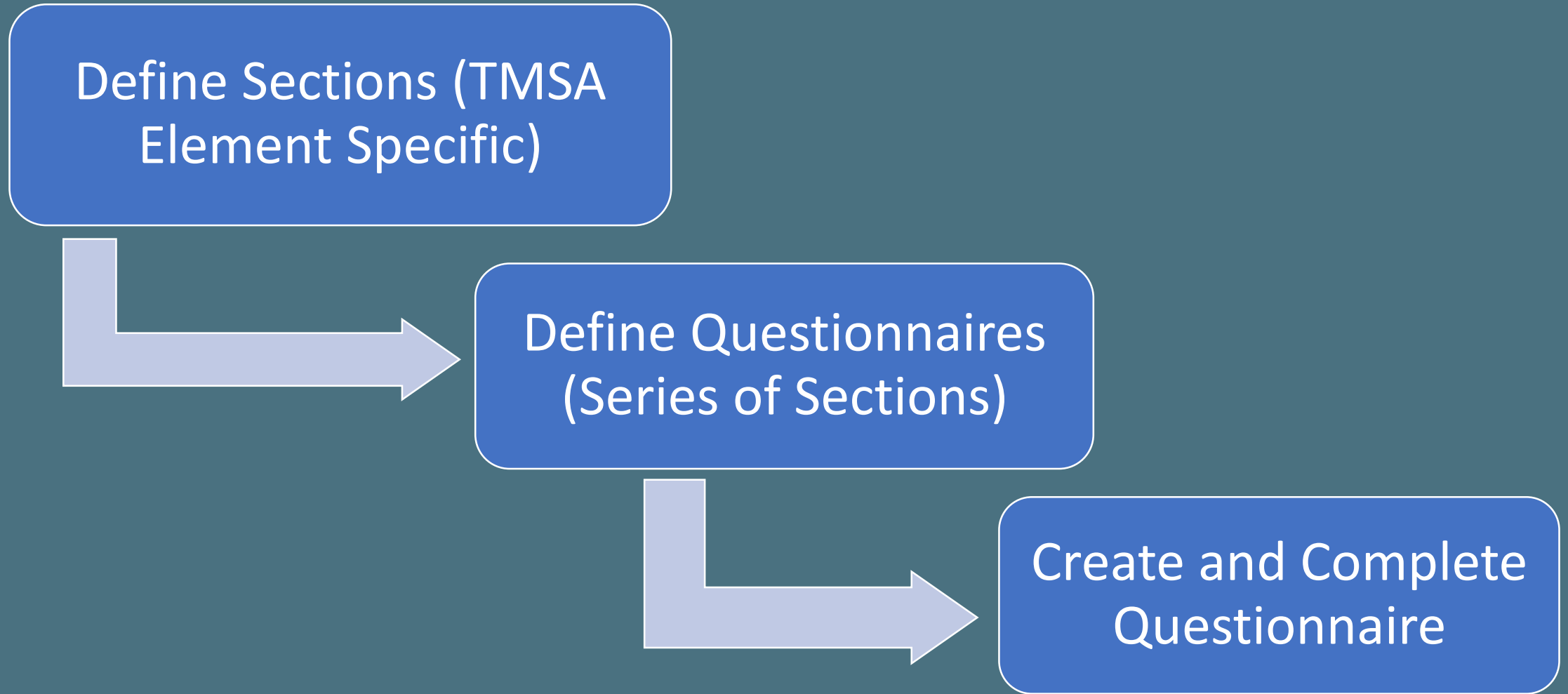
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Audits – Questionnaire Creation

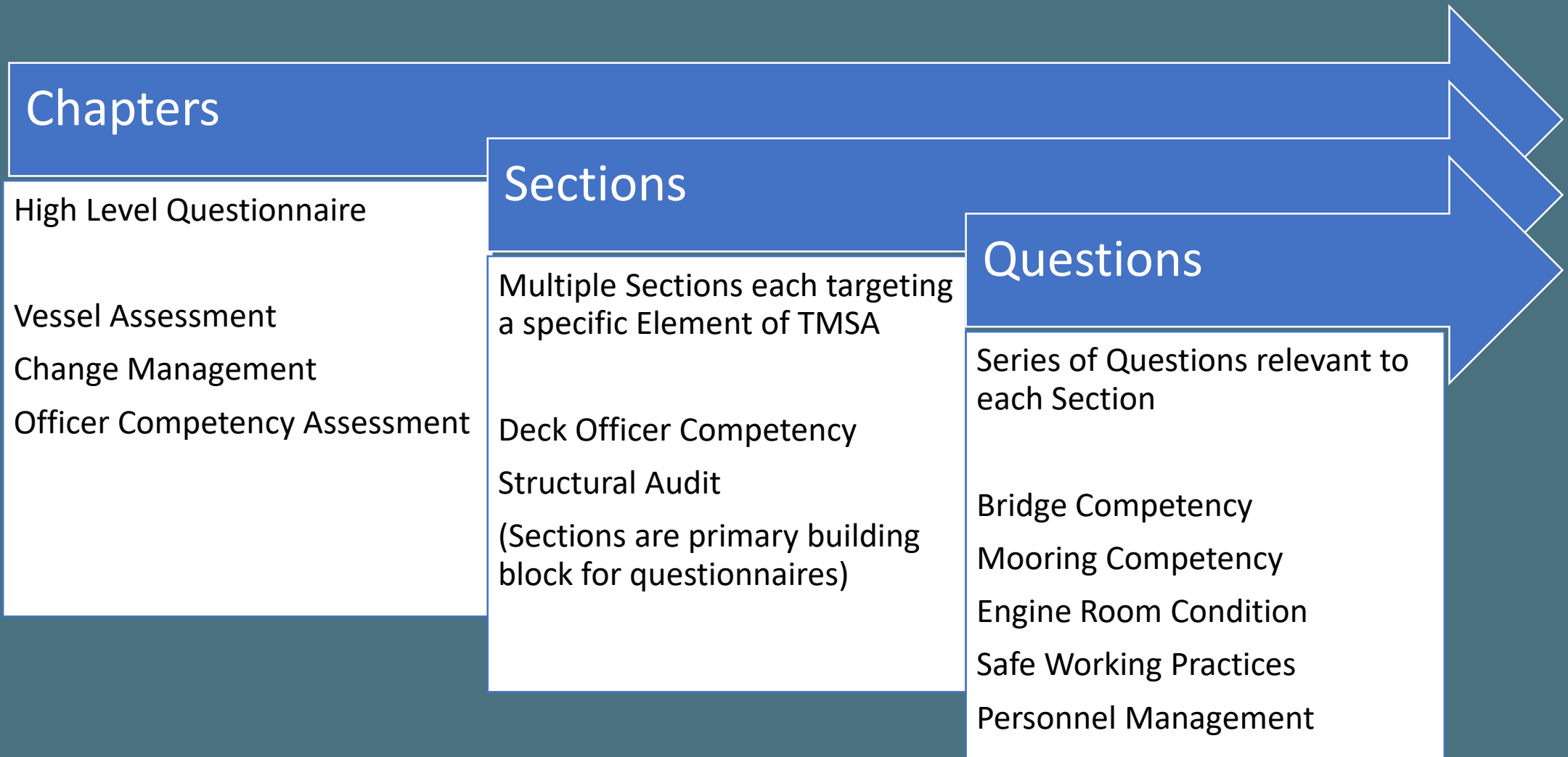oceanfile

Questionnaire Definition and Data Collection

Define Sections (TMSA Element Specific)

Define Questionnaires (Series of Sections)

Create and Complete Questionnaire

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Questionnaires

Chapters

High Level Questionnaire

Vessel Assessment

Change Management

Officer Competency Assessment

Sections

Multiple Sections each targeting a specific Element of TMSA

Deck Officer Competency

Structural Audit

(Sections are primary building block for questionnaires)

Questions

Series of Questions relevant to each Section

Bridge Competency

Mooring Competency

Engine Room Condition

Safe Working Practices

Personnel Management

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Questionnaire Form Editor

Questionnaire Definition

- Questions/Topics/Items
- Guidance and Best Practice
- Observations and Responses – Support for over 30 Question Types
- Optional specific data tabs:

  - Non Conformity/SMS
  - Root Cause
  - Remedial and Follow Up Actions
  - Lead Responsibility
  - Defect Management
  - Competency Assessments
  - Training Requirements
  - Risk Assessments and Impact Assessments
  - Photos and Attachments

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Questionnaire Form Filler

Audit Editor V3

Close

Full Vessel Audit

Chapter : Section

- 1. General Condition
    - Hull
    - Decks
    - Hatch Comings
    - Hatch Covers
    - Holds
    - Deck Machinery
    - Maintenance Equipment
- ▶ 2. Tank Condition
- ▶ 3. Accommodation and Safety
- ▶ 4. Radio and Navigation
- ▶ 5. Engine Room
- ▶ 6. Certificates
- 7. Crew Evaluation
    - Master's Competency
    - Chief Engineer
    - Chief Officer's Competency
    - 1st Engineer
    - Comments on Other Crew
    - Masters Training Assessment
- 8. Mooring
- 9. Bridge
- ▶ 10. Conclusion

Question

Question ▼	Question Text ▼
5.4.1.1	Master
5.4.1.1.1	Name
5.4.1.1.2	Actively Involved in Day to Day running of the Vessel
5.4.1.1.3	Actively Overseas Cargo Operations
5.4.1.1.4	Implements Maintenance Work
5.4.1.1.5	Follow up on Work Lists
5.4.1.1.6	Ensures instructions are followed and concluded
5.4.1.1.7	Closes Worklist Correctly
5.4.1.1.8	Manages Work/Rest policy Correctly
5.4.1.1.9	Knows and Follows Company Procedures
5.4.1.1.10	General Comments

| ◄◄ | ◄ | Page | 1 | of 1 | ► | ►► | | 1 - 11 of 11 items |

Observations

| Yes | No | N/A | N/S |

Observations   Excellent awareness of detailed day to day operations

Comments

Risk   0   1   2   3   4   5

Non Conformity   ☐
Condition of Class   ☐
SMS Code   SMS 1.2.2   ▼
Root Cause   ▼

Follow Up

Remedial Actions   ☐
Training Assessment   ☑
Risk Assessment   ☐

Observations   Training Assessment   Attachments

Chapter : Section

Question

Question	Question Text
5.4.1.1	Master
5.4.1.1.1	Name
5.4.1.1.2	Actively Involved in Day to Day running of the Vessel
5.4.1.1.3	Actively Overseas Cargo Operations
5.4.1.1.4	Implements Maintenance Work
5.4.1.1.5	Follow up on Work Lists
5.4.1.1.6	Ensures instructions are followed and concluded
5.4.1.1.7	Closes Worklist Correctly
5.4.1.1.8	Manages Work/Rest policy Correctly
5.4.1.1.9	Knows and Follows Company Procedures
5.4.1.1.10	General Comments

Observations

1.16   Date Of Last Test

12 Mar 2018

Observations

Comments

Risk

    ◀   0   1   2   3   4   5   ▶

Non Conformity   ☑

Condition of Class   ☑

SMS Code   ▼

Root Cause   ▼

Follow Up

Remedial Actions   ☑

Training Assessment   ☑

Risk Assessment   ☑

| Observations | Remedial Actions | Competency Assessment | Training Assessment | Risk Assessment | Impact Assessment |

| Approval Levels | Additional Resources | Attachments |

| Observations | Remedial Actions | Competency Assessment | Training Assessment | Risk Assessment | Impact Assessment |
| Approval Levels | Additional Resources | Attachments |

Remedial Action

Remedial Action	Replace Main Compass
Lead	Marine Superintendent ▼
Defective Equipment	☑
Defect Type	Replace ▼
Defer until Drydock	☐
Target Closeout	28 Feb 2018 📅

Observations | Remedial Actions | Training Assessment | Risk Assessment | Attachments
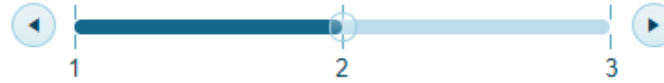
Training Assessment

Competency Gap

Lacking awareness of mooring operations

Training Requirements

Mooring Procedures (102) ▼

Urgency

◀ ━━━━━━━○━━━━━━━ ▶

1   2   3

Specialist Training
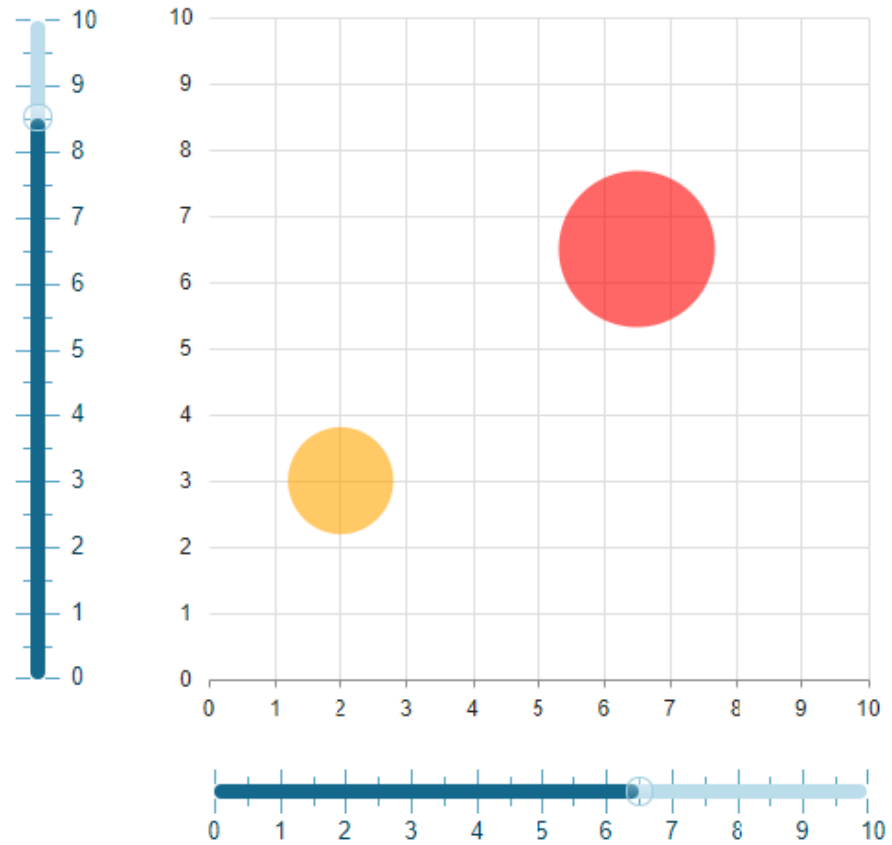
N/A

| Observations | Remedial Actions | Training Assessment | Risk Assessment | Attachments |

Risk Assessment

Risk Control Measures

Ensure that Master is reviews detailed hot work plans before implementation

Attachments

Select files...

PDF	Hemmelskamp-J.-TMSA-and-KPI-... 1.45 MB	✕

Submit

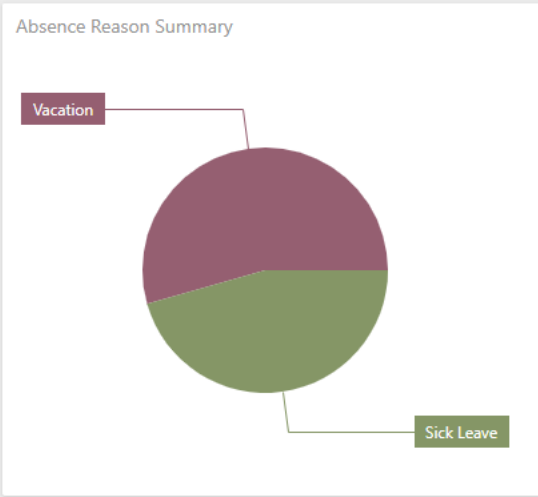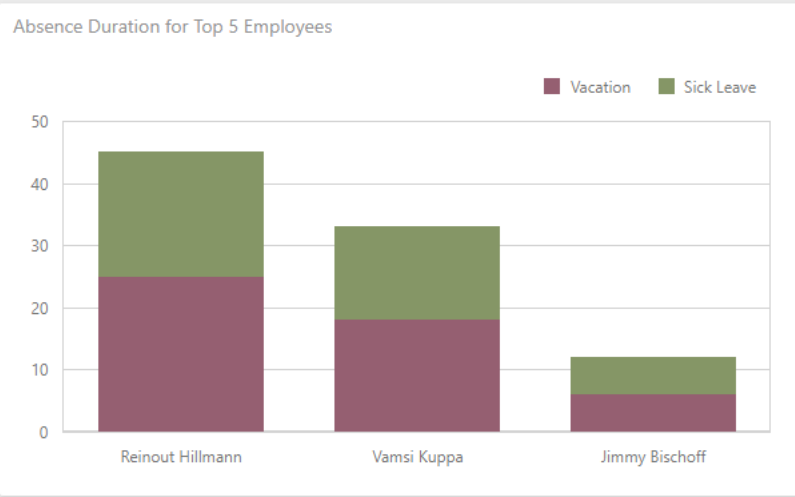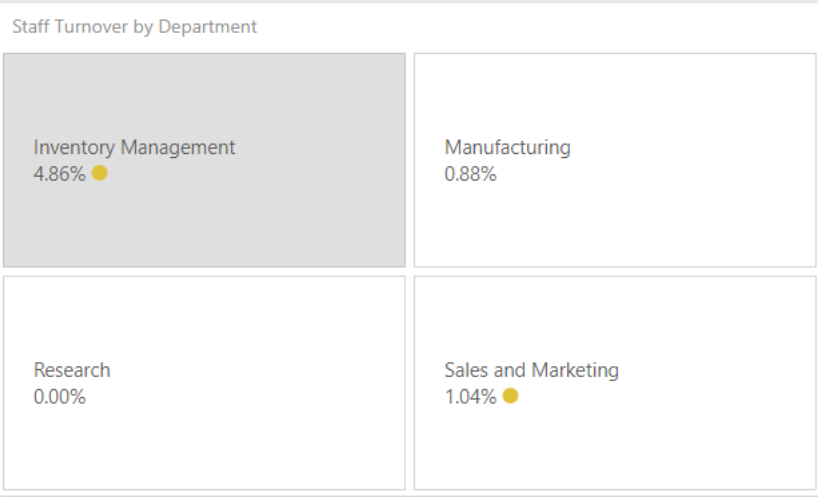Observations | Remedial Actions | Competency Assessment | Training Assessment | Risk Assessment | Impact Assessment
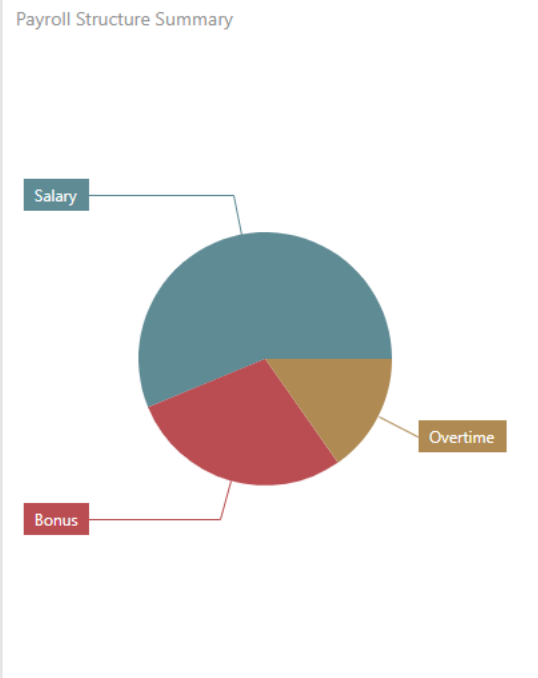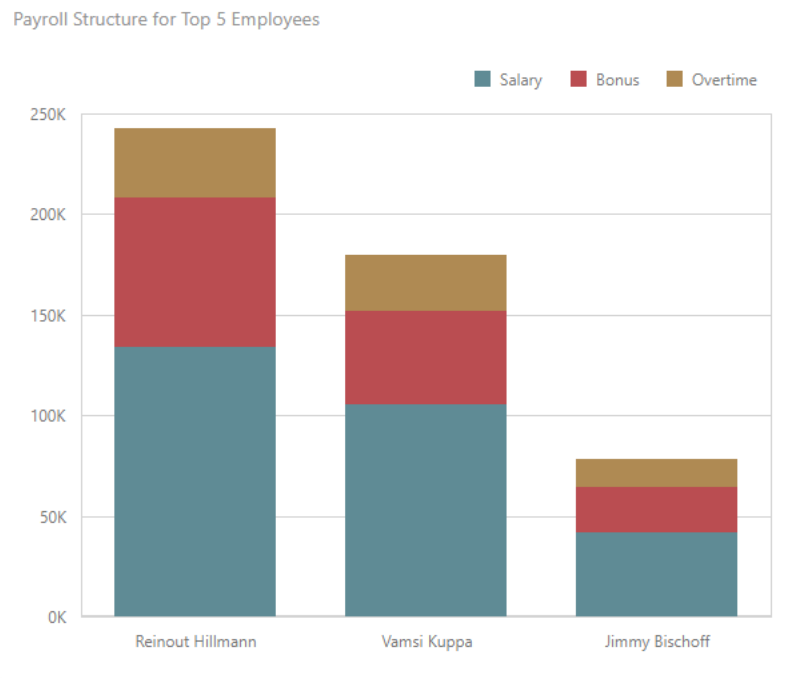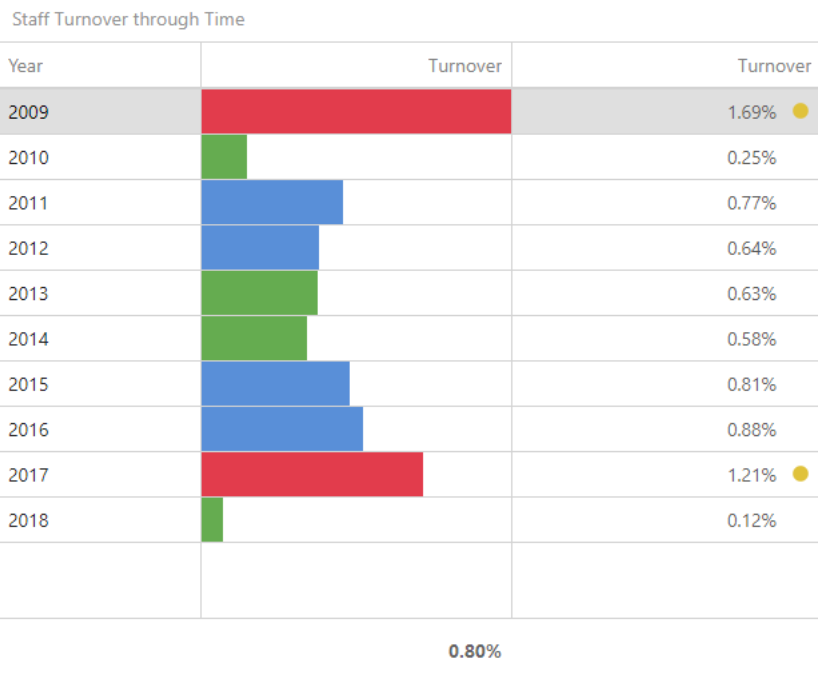
Approval Levels | Additional Resources | Attachments

Business Intelligence
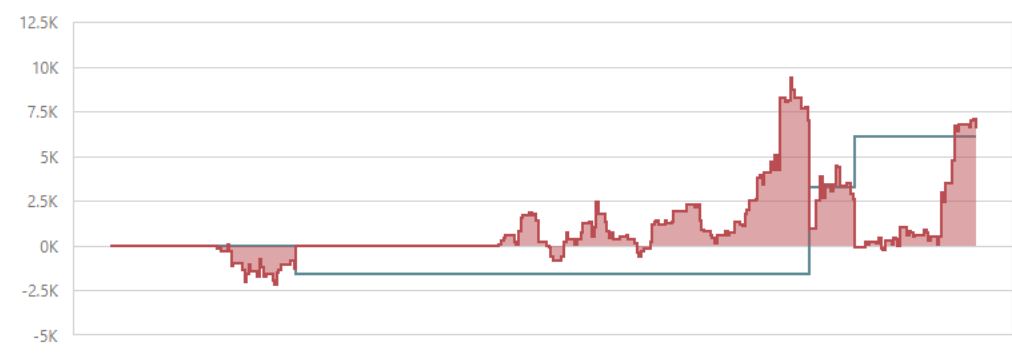
Sales Overview

Sales Performance

Sales Details

Revenue Analysis

Human Resources

Customer Support

Revenue by Industry

Energy Consumption

Energy Statistics

Website Statistics

Champions League Statistics

Product Details

EU Trade Overview 2015

Financial Dashboard

Professional Football League Overview

Edit in Designer

Human Resources ▼

Staff Turnover through Time

Year	Turnover	Turnover
2009		1.69% ●
2010		0.25%
2011		0.77%
2012		0.64%
2013		0.63%
2014		0.58%
2015		0.81%
2016		0.88%
2017		1.21% ●
2018		0.12%

0.80%

Payroll Structure for Top 5 Employees

Legend: ■ Salary ■ Bonus ■ Overtime

Reinout Hillmann, Vamsi Kuppa, Jimmy Bischoff

Payroll Structure Summary

Salary

Overtime

Bonus

Staff Turnover by Department

Inventory Management 4.86% ●	Manufacturing 0.88%
Research 0.00%	Sales and Marketing 1.04% ●

Absence Duration for Top 5 Employees

Legend: ■ Vacation ■ Sick Leave

Reinout Hillmann, Vamsi Kuppa, Jimmy Bischoff

Absence Reason Summary

Vacation

Sick Leave

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Financial Dashboard

Ticker	Company	Price	Change
ADBE	Adobe Systems Inc.	$41.4 ▼	-0.07 / -0.17%
AXP	American Express Company	$66.1 ▲	+0.45 / +0.69%
AIG	American International Group	$39 ▲	+0.19 / +0.49%
AMT	American Tower Corporation	$75.6 ▼	-0.49 / -0.64%
AAPL	Apple Inc.	$444 ▲	+5.73 / +1.31%
BAC	Bank of America Corporation	$12.6 ▲	+0.05 / +0.40%
C	Citigroup Inc.	$47.3 ▼	-0.26 / -0.55%
GOOG	Google Inc.	$814 ▼	-4.2 / -0.51%

Chart axis dates: 1/12/2015, 1/26/2015, 2/9/2015, 2/23/2015, 3/9/2015, 3/23/2015, 4/6/2015, 4/20/2015, 5/4/2015, 5/18/2015, 6/1/2015, 6/15/2015, 6/29/2015, 7/13/2015, 7/27/2015, 8/10/2015, 8/24/2015

Realized Profit vs Book Profit

Profit axis: 12.5K, 10K, 7.5K, 5K, 2.5K, 0K, -2.5K, -5K

Profit & Loss

Current Assets

Ticker		Profit
AAPL	▼	-$25.6K
ADBE	▲	$6.56K
AIG	▲	$1.96K
AMT	▼	-$1.76K
AXP	▲	$8.91K
BAC	▲	$7.2K
C	▲	$3.27K

Sales Overview

Sales by Product Category

Legend:
- Accessories
- Bikes
- Clothing
- Components
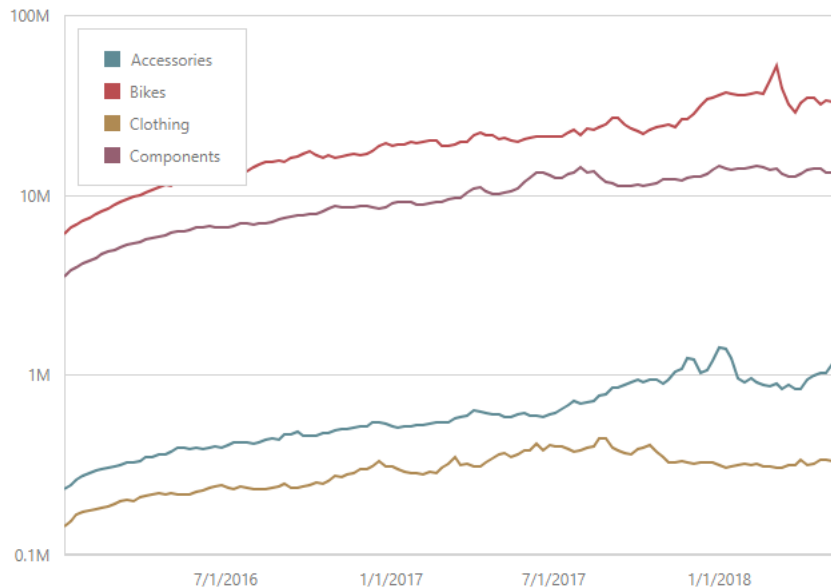
Sales by State

State	Sales vs Target		Sales	Trend
Wisconsin	+0.45%	▲	$456M	
Maine	+0.26%		$167M	
New Hampshire	+3.28%	▲	$147M	
California	+1.63%	▲	$134M	
Texas	+3.69%	▲	$134M	
Washington	-2.36%	▼	$132M	
Idaho	+3.95%	▲	$126M	
Rhode Island	+0.26%		$119M	
Oregon	+0.84%	▲	$111M	
Indiana	+2.77%	▲	$109M	
Wyoming	-0.18%		$108M	

Sum = $3.84B

Sales vs Target by Product Category

Accessories	Bikes	Clothing	Components
▲ +1.29%	▲ +0.97%	▲ +1.72%	+0.20%

Filter by Date

January 2016 — May 2018

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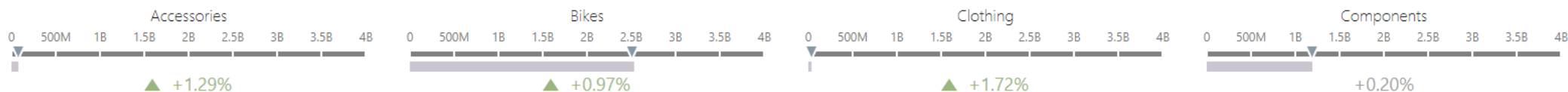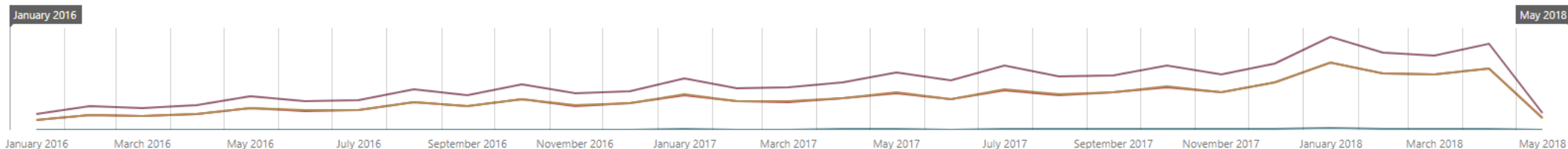
Follow Up

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Oceanfile TMSA – Features and Benefits

Oceanfile TMSA – Features and Benefits

Function	Benefits
Questionnaire Creation	Simple Questionnaire Form Creation Support for Chapters, Sections and Questions Each Section targets specific TMSA elements
Questionnaire Form Filling	Simplified data collection and validation Series of Tabs for Responses, Observations, Remedial Work, Training Needs, Risk Assessments, Attachments etc Can be used 'off line' or 'on-line' Automatic synchronisation of data to Oceanfile
Business Intelligence	Integral BI – Dashboards, Charting, Reporting Automatic generation of KPIs Support for Targets and Benchmarks Comprehensive Reports supporting TMSA audits
Follow Up	Unified Tasks Manager Personal Tasks Lists for each User/Superintendent Coming Due Alerts

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Oceanfile TMSA
— Preview available July 2018
— Free Trial Version

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