T I G I R

A New Approach to Risk, Vulnerabilities and Security

Advanced Risk Intelligence Software

TIGIR
Advanced Risk Intelligence Software
Threat Information Gathering and Intelligence Reporting

LEADERSHIP: ABOUT VALARIE

Valarie Findlay was born in Ottawa, Canada. Having high professional aspirations and little idea where to start, she dropped out of Grade nine and explored the world. later going to college, she began her career as a graphic designer and media communications professional for Nortel, in spite of being a computer hobbyist – there can't be any future in that!

After her manager realized Valarie's skills in information technology and security, she was promoted into Nortel's Information Security group and fostered as a valued resource with Nortel Global. Later, she went south, taking a director's position in Houston, TX, leading a team of developers in the Security, Energy and Healthcare sectors. In 2001, she returned to Canada and moved into government security and intelligence, going back to university for her undergraduate degree, a Masters in Terrorism Studies, then a Masters in Sociology. Currently, she is a doctoral student in sociology with her thesis focusing on terrorism as a social phenomenon.

Professionally, she has twenty years in national security and cyber-threats, FVEY intelligence and threat analysis for US and Canadian governments. From this experience, she developed the methodology and functionality for TIGIR to meet a known risk assessment issue in public and private sector. She filed her patent and proceeded to develop the beta and prototype that garnered positive reviews and user acceptance. In her extensive network as a member of the Canadian Assoc. Chiefs of Police, eCrimes Committee, AFCEA Cyber Committee (Washington DC) and cyber research fellow, Police Foundation, her invention has received positive input.

Valarie is analytical, creative and diverse in her pursuits. An avid equestrian and dog trainer, she has a diploma in canine behaviour and is president of a US 501c3 rescue. Here, she initiated unique promotional activities: producing an adoption video and negotiating music licensing rights from Don Henley of the Eagles; self-publishing of her book that selling 15,000 copies to benefit the rescue, saving hundreds of dogs -- Valarie tackles the "impossible"..

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THE WORLD HAS CHANGED

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TIGIR IS THE ESSENTIAL TOOL FOR LARGE EVENT IMPACT AND PANDEMIC MANAGEMENT

TO IDENTIFY, MITIGATE AND MANAGE ONGOING ORGANIZATIONAL RISK

Decision makers must be prepared for cycles of openings, closings, downstream risks and repercussions such as large events unfold - new regulations, employee strikes, supply-chain, pandemics and critical infrastructure disruptions – that make risk fluid and with varying impacts.

BECAUSE …

AUDIT AND BUDGET CONSTRAINTS WILL MAKE RISK MANAGEMENT ACTIVITIES TOP PRIORITIES

ACCORDING TO LEADING EXPERTS IN BUSINESS FORECASTING

Before a single dollar is spent, it will be essential to prove why certain safeguards are critical and the need to assure partners of risk and security management activities will become core to all business relationships.

THE (RISK) PROBLEMS

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1 NO ONE SINGLE SOLUTION

THAT PERFORMS ALL COMPLEX RISK ASSESSMENT AND EVALUATION ACTIVITIES IN SIMPLE FORM

Many risk activities have data and valuation overlaps and interdependencies. Performing these activities and developing these outputs in isolation and apart wastes time, money and resources.

2 OUT-DATED AND INCOMPLETE FORMULAS

PERSIST IN CURRENT RISK ACTIVITIES

Risk formulas have not kept up with organizations changing needs, emerging technologies, asymmetry of threats and disasters and their impact on lines of business, revenues, resources and traditional and digital assets.

3 HIGH ERROR RATES AND INCONSISTENCY

DUE TO MANY MANUAL PROCESSES AND MULTIPLE STANDARDS

Manual processes, multiple standards and lack of constrained selections and inputs allow for individual interpretation, inconsistency and higher error rates, resulting in flawed or skewed risk outputs and impede repeatability and frequency.

4 COSTLY AND LABOUR INTENSIVE

REDUNDANT, ISOLATED PROCESSES MAKE RISK ACTIVITIES INFREQUENT OR ONE-OFFS

The disconnectedness of risk activities is time consuming and costly in a climate where skilled resources are both expensive and scarce. Integrity of risk activities hinges on agility, dynamism and timely, relevant data.

THE (RISK) CONUNDRUM

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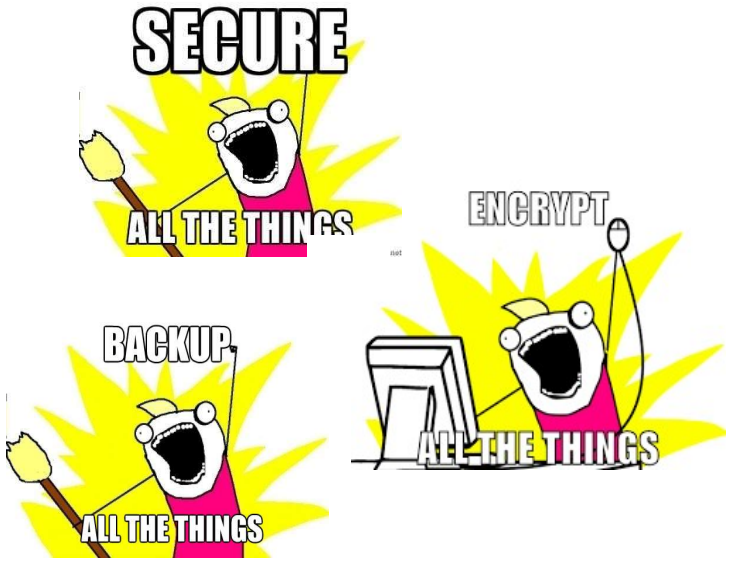
HOPELESS REACTIVITY



VS.

PROACTIVE CALCULATED DECISION-MAKING

value of assets (A^v) + *sophistication of threats* (T^s) + *number of vulnerabilities* (V^n) = *total residual risk* (R^t) - *Implemented recommendations / resulting security posture* (Recommendations)

THE SOLUTION: TIGIR…

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1
2
3
4

Does it all in one application. Performs assessment and analysis by valuing the organization, its assets and vulnerabilities against threat scenarios and providing prioritized recommendations to reduce risk.

Dynamic and updateable record. All risk outputs can be re-assessed as often as needed, can be compared to other assessments within the organization and maintain audit logs and AI controls for integrity.

Comprehensive data and calculations. Designed on industry standards, one database collects risk data and best practices across an organization converting it into useable risk intelligence and another collects forensic incident data for managers not techies.

Costs 80% less and reduces work effort by 70%. A new risk formula, decision-based design, patented functions and algorithm performs all risk activities organizations need to do - faster, cheaper and accurately, replacing manual processes and specialized skills.

THE SOLUTION … IN DETAIL

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5

Sorry, Likert -- Its More Than A One-to-Five Risk Rating Scale:
TIGIR's algorithm values an organization and its assets – materials, equipment, products, services, IP, data, intelligence and humans - and how they contribute to revenue, liability, reputation and external factors like economies, partners, intermediaries. It is the most fulsome valuation system available on the market meeting up to date and current standards and demands!

6

All Exploit Vectors Start With A Human:
Threat and vulnerability values are paired with deductive values to assess all security domains (Physical, Personnel Security and Screening, Application, Infrastructure …) not just cyber!
Two important domains receiving a lot of attention are **Supply Chain Security (SCS)** and the **Human Insider Threat (HIT)** – TIGIR assesses the risks and probabilities associated with both and provides recommendations to build a program framework that includes job shadowing/sharing, segmentation of information, contractor and vendor management, auditing, monitoring, screening intervals and behaviour analysis. We love humans – they are the backbone of TIGIR's risk algorithm!

THE SOLUTION: … IN DETAIL

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Non-Malicious Events Are As Dangerous And Costly As Malicious Ones

An unforeseen and unexpected event, like a pandemic, can bench an entire workforce or can wipe out critical infrastructure, like a tornado, resulting in costly asset and revenue loss, service disruption or infrastructure destruction to an organization. TIGIR provides for continuity planning and recovery, various disaster scenarios, including loss costing, to ensure your organization has a plan for the unexpected!

8

The Best Bang For The Buck

Knowing the value of assets and all of the things that can go wrong directs spending that prioritizes, mitigates and reduces risks. TIGIR provides a vast array of deliverables and reports – Threat Risk Assessments, Statements of Sensitivity, Asset Valuations, Vulnerability Assessments, Continuity and Maturity Ratings, Forensic Frameworks and more – that give your organization the data it needs to make sound risk and security decisions! With all risk outputs and values being interdependent, TIGIR automates those complex relationships and does the thinking for you!

THE MARKETS

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Sector Agnostic

Asset Agnostic

Cross-Domain

Public and Private Sectors

Values Derived From Actual Costs

1

need: Any organization whose assets contribute to its revenues, services, reputation and economy or is/will be regulated to perform risk assessment for legislative or reasons (insurance coverage, procurement or contracts, sharing of information, etc.)

2

types of customers who benefit from TIGIR's time/cost savings:

1. Those already doing risk assessments and SA&A - low hanging fruit!

2. Those who are NOT due to time/cost, but see the value, are/will be legislated to or are required for stakeholder or reputational reasons.

3

general markets: Sector-agnostic and compatible with US, UK and Canadian standards, TIGIR was designed and is scalable for Small, Medium and Large businesses and Government departments and agencies, and is available as affordable platforms - Web, SAAS and Enterprise.

THE CANADIAN MARKETS

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CANADA

They're already spending on risk:

Canadian businesses spend about **$2B on data security**, mostly with security consultants and professional services.

Canadian Financial Executives Research Foundation (CFERF) reported **20%** of organizations have no risk management program.

Wide Markets: Over 20 Canadian sectors there are:

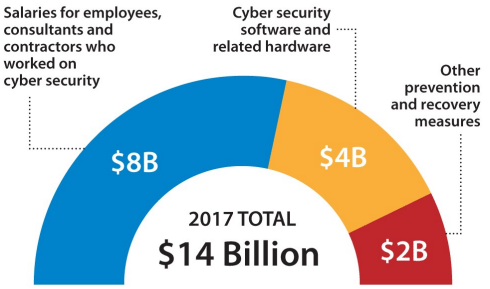
- **1,143,630** small-size businesses (1-99 employees)
- **21,415** (100-499 employees) medium-size businesses
- **3,000+** large-size business (500+ employees)

The **Canadian Government** earmarked **$144.9M** over 5 years to protect critical systems in finance, telecomm, energy and transportation sectors. Total spending is **$14B.**

Over 50 government departments and agencies are mandated to perform risk and SA&A activities on all of their assets.

CYBERSECURITY SPENDING IN CANADA

Statistics Canada says Canadian businesses reported spending $14 billion on cybersecurity in 2017. Here is a breakdown of the spending:



SOURCE: STATISTICS CANADA

THE CANADIAN PRESS

THE US MARKETS

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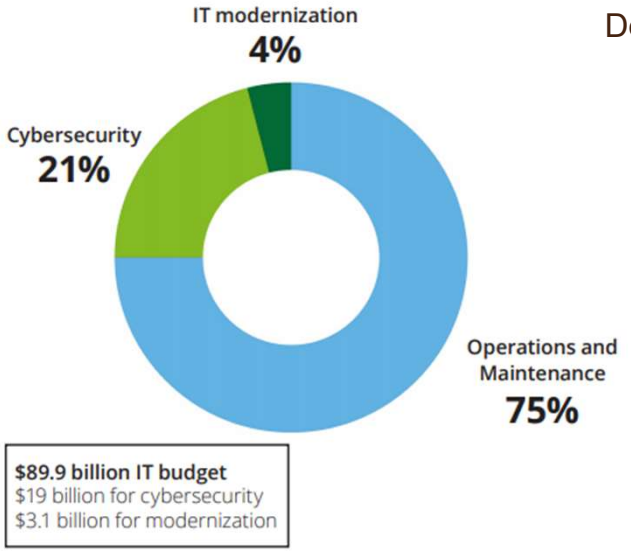
US



The US Government has **96 independent executive units** and **220 components** of executive departments plus State and City. Most are required to perform risk and SA&A activities, especially the Department of Defence for Supply Chain Security, requiring vendors and contractors to do the same.

The 2019 US budget includes **$19B** for **cybersecurity** and **$3.1B** for **modernization**.

Private Sector Blossoms: In the US private sector, across 20+ sectors, there are approximately:

- **16M** small-size businesses (1-99 employees)
- **1M** (100-499 employees) medium-size businesses
- **50k+** large-size business (500+ employees)

TIGIR SWOT

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Strengths

- Developed by a 20 year security practitioner
- Solves immediate problem already being procured
- Reduces time and money spent on current process by 60% plus
- Reduces need for specialized skills and consultants
- Encourages multiple purchases and subscriptions due to comparability
- Patent and trademark protected
- Provides additional reports beyond a TRA
- Provides database of threat attribution gathered from customers
- Complies with all security standards

Weaknesses

- Time to market pressure
- Volume potential pressures
- immediate salesforce and support need
- Secondary product)threat attribution database) relies on customer opt-in
- Lack of secondary funding to fully commercialize

Opportunities

- US and Canadian legislation pointed toward self-assessment for partners and SMEs in cyber security
- US government has already instituted vendor and contractor compliance for supply chain
- SMEs are shown to be committed to cyber assurance and risk management
- Secondary product (threat attribution database) poised to be a revenue source
- Multi-domain algorithm and cross-sector application opens many markets (food, utilities, insurance, manufacturing, etc)

Threats

- Potential for duplication of functionality (but not algorithm)
- Changes in regulations or legislation in US and Canada (minimal risk)
- Changes in standards in US and Canada (minimal risk)

TIGIR SCREEN

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Threat Incident Gathering and Information Reporting

- Organization Profile
- Asset Profile
- Threat Scenarios
- Current State
- Vulnerability Profile
- Residual Risk Profile
- Recommendations
- **Report Tools**
  - Attractiveness Rating
  - Continuity Assessment
  - Threat/Risk Assessment
  - Threat Scenario Modelling
  - Senisitivity Rating (CIAH)
  - Vulnerability Assessment
  - Resumption Preparedness
  - Disaster Response
  - Disaster Recovery

Organization Profile

25% Complete

Organization Information

Organization Name	test biz		
Legal Name	test legal		
Country	Canada		
Region	Ontario		
City	Athens		
Organization Type	Private Sector	Sub-Type	Profit
Size	Medium	Employees	4563
Industry	Major Transportation	Sub-Industry	Ship/Boat/Water

Financial Details

Revenue	789679		
Fixed Assets	357578	Current Assets	789760
Current Liabilities	67876	Long Term Liabilities	54547
Shareholder Equity	568568		

Line of Business Details

Edit Record

Go to Asset Profile