CGE Risk

Catastrophic risk management
Customer story (bowtie)

Wolters Kluwer

WE ARE CGE RISK

We believe
Risks can only be managed when completely understood
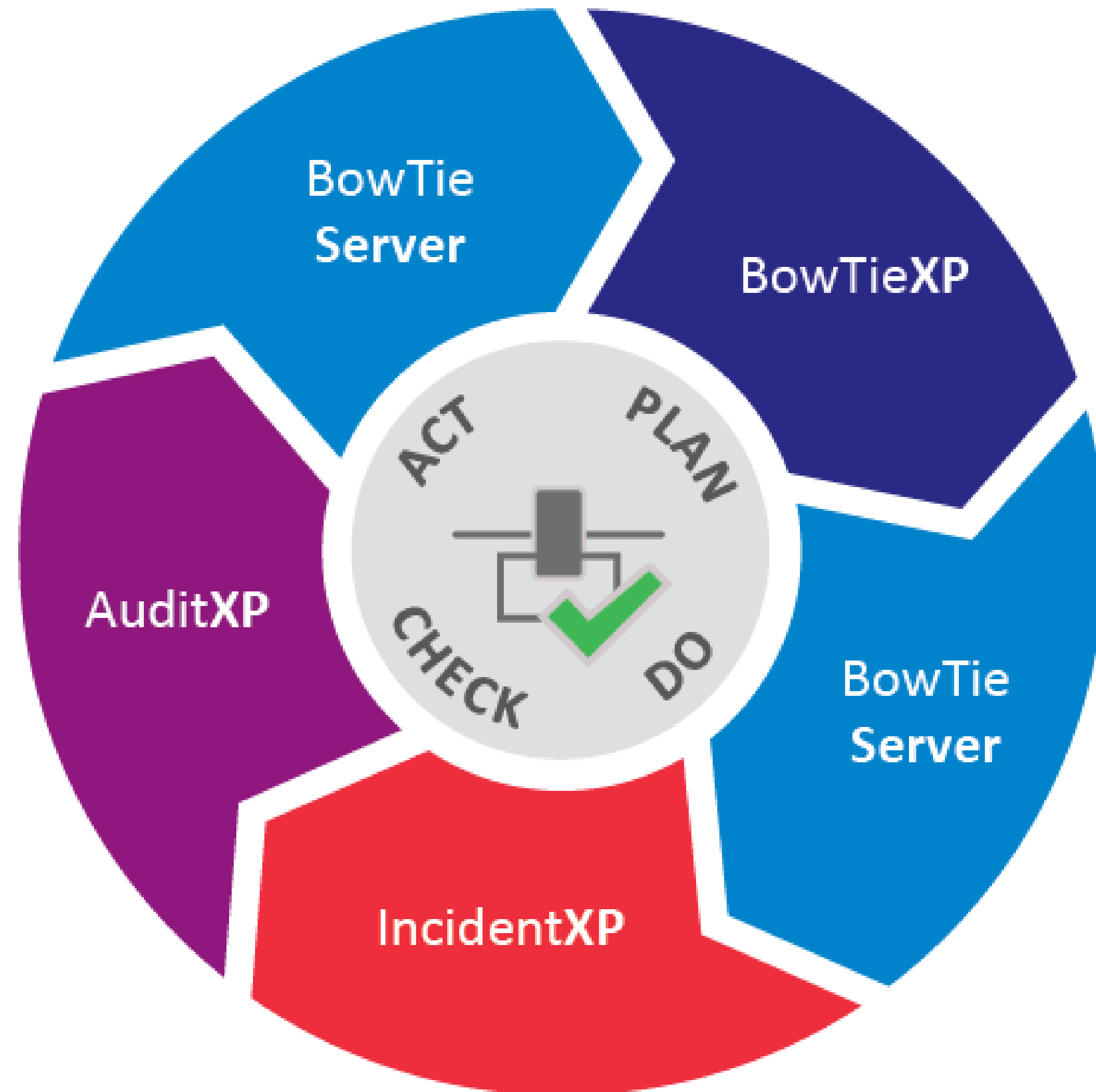
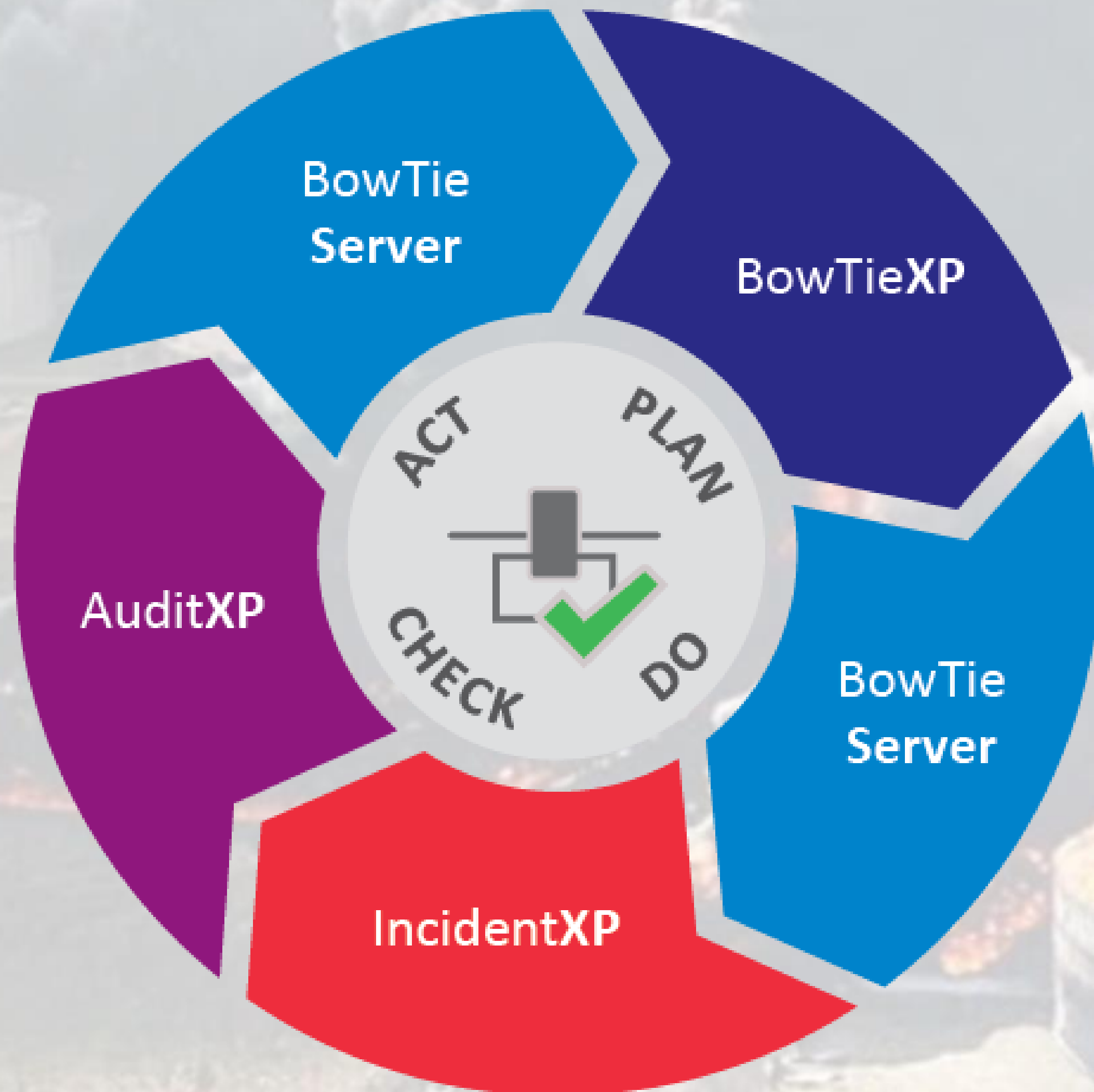**We share**
The barrier-based risk approach

We provide
Visual barrier-based software solutions

BowTie Server

BowTieXP

ACT PLAN

CHECK DO

BowTie Server

AuditXP

IncidentXP

ARE YOU IN CONTROL?

Answer the three advanced questions

1. Which of your systems make the greatest *contribution* to a safe outcome?

2. And which are the most *vulnerable* to failure?

3. What information is available to show these systems *continue* to function?
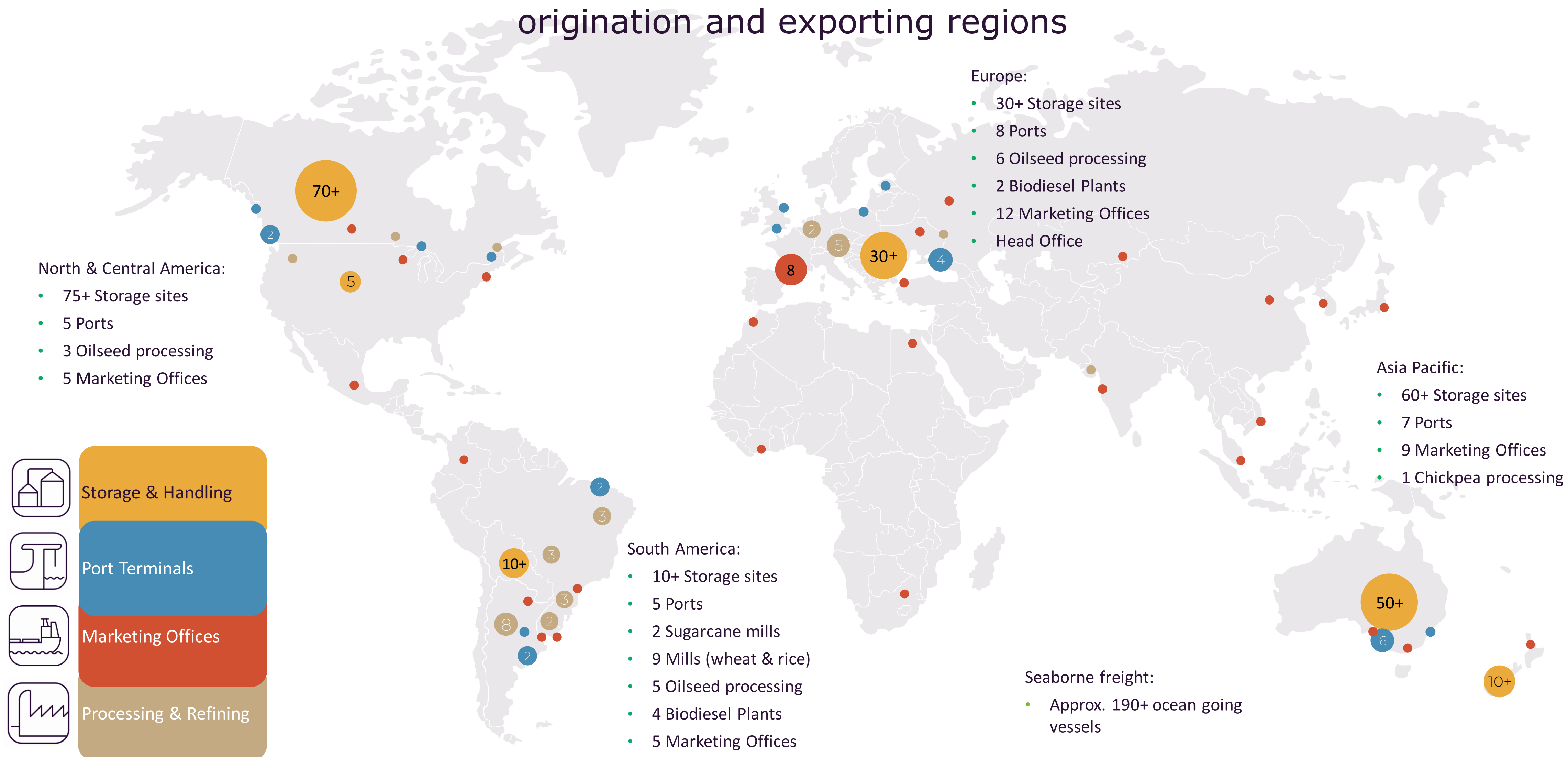
CGE Risk

Catastrophic Risk Management

Viterra approach – Bowtie global application
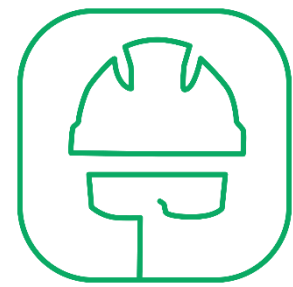
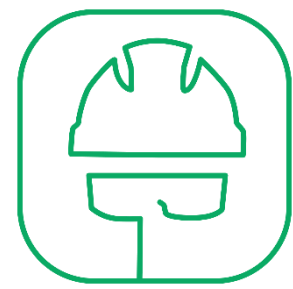Johann Lewis & Raymond du Preez

Who we are

Asset footprint

VITERRA THE AGRICULTURE NETWORK

Viterra's activities are supported by an extensive asset network, located within multiple key origination and exporting regions

Europe:
- 30+ Storage sites
- 8 Ports
- 6 Oilseed processing
- 2 Biodiesel Plants
- 12 Marketing Offices
- Head Office

North & Central America:
- 75+ Storage sites
- 5 Ports
- 3 Oilseed processing
- 5 Marketing Offices

Asia Pacific:
- 60+ Storage sites
- 7 Ports
- 9 Marketing Offices
- 1 Chickpea processing

South America:
- 10+ Storage sites
- 5 Ports
- 2 Sugarcane mills
- 9 Mills (wheat & rice)
- 5 Oilseed processing
- 4 Biodiesel Plants
- 5 Marketing Offices

Seaborne freight:
- Approx. 190+ ocean going vessels

Storage & Handling

Port Terminals

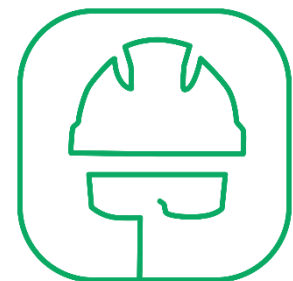Marketing Offices

Processing & Refining

Priorities, Objectives and Targets

 Zero catastrophic events

 Zero fatal incidents

 10% reduction common injuries

Our programs

1 Develop our safety culture

2 Develop our risk management capabilities

3 Maintain effective systems and processes
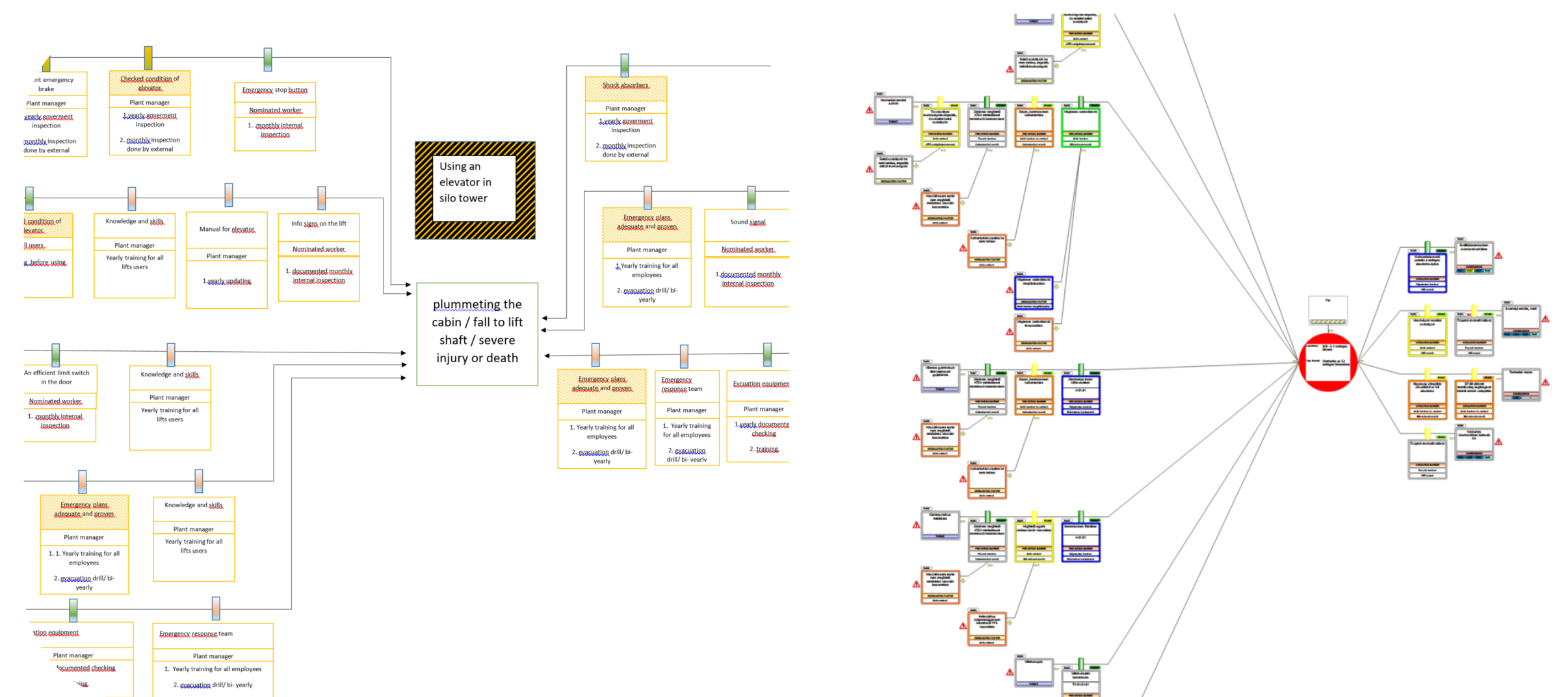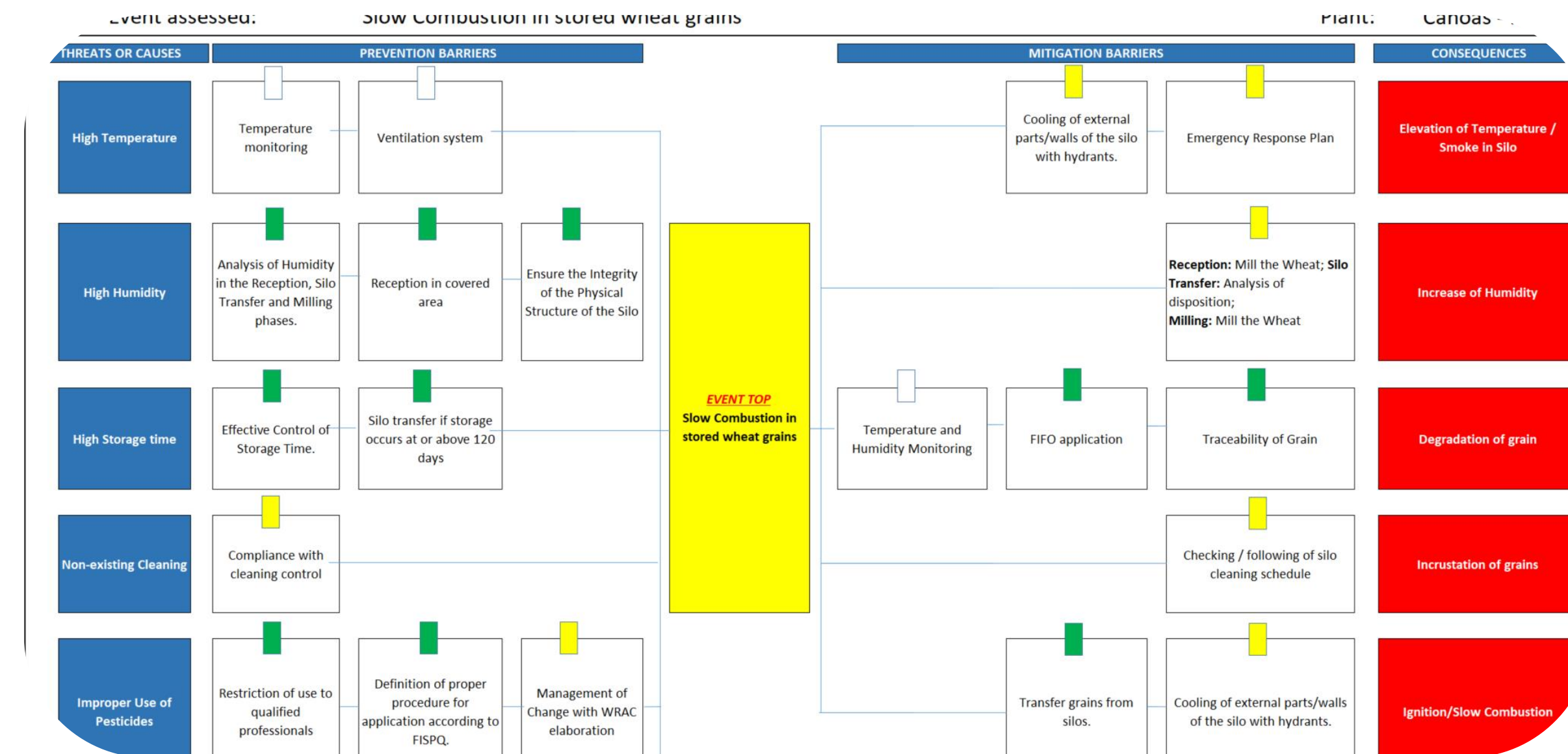
Risk-based approach

Pareto principle

- Catastrophic hazards (Bowtie methodology)

- Fatal hazards

Our Bowtie journey

- Adopted Bowtie methodology for Catastrophic Hazards

- Provided some bowtie methodology training

- Did not standardise on format from the outset

  o Excel

  o Power Point

  o Visio

  o Word

- Reporting on Critical Controls were not consistent

- Need to improve bowtie risk management process and critical control monitoring

Process

- Involved IT - set up a project to source best solution

- Engaged with CGE Risk (customisation)

- Identified need and defined scope

- Trained a pilot group of 10 people – test user friendliness and applicability

- Developed Viterra specific lookup tables

- Approve project and roll out globally with specific milestones

- Interface with Tableau to track which sites were on track and which were lagging

- Ongoing WebEx training sessions from CGE Risk for each milestone

  o Training sessions recorded and placed on the Bowtie Server wiki page for reference

Health & safety

VITERRA THE AGRICULTURE NETWORK

We continuously improve our catastrophic and fatal risk management programs and associated due diligence

BowTie XP

✔ ✔ ✔ 2022

Milestone 1
Project justified and improved

Milestone 2
System installation and training

Milestone 3
Completion of bowtie risk assessments

Milestone 4
Establish monitoring and reporting of critical controls

Risk Assessments
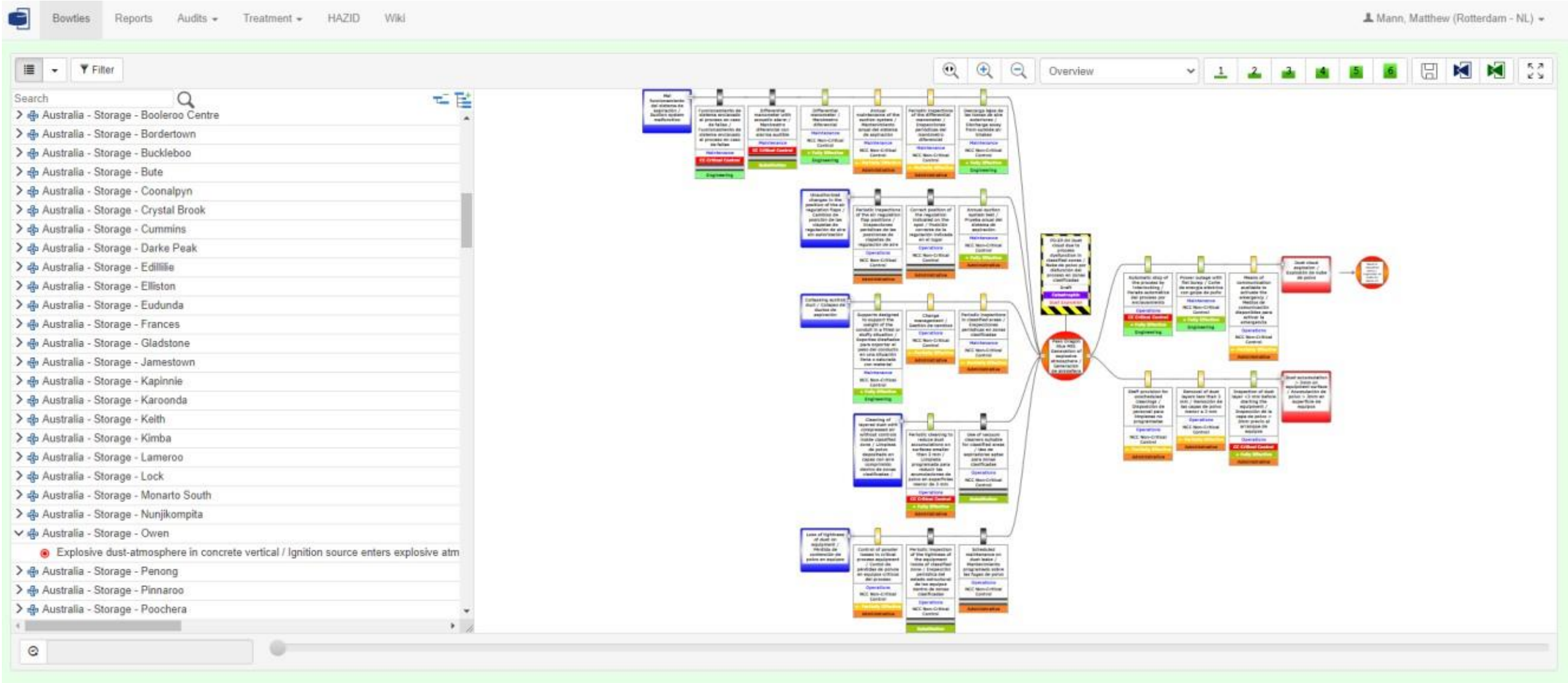
Dust explosion
375 risk assessment completed

Vapour explosion
71 risk assessment completed

Bussing
16 risk assessments completed

Personnel lifts
104 risk assessments completed

Critical control program

- 4940 critical controls have been identified for catastrophic risks

- We are currently developing routine monitoring schedules and criteria for each

- Once completed and validated BowTie XP will provide compliance reporting which will form the basis of routine internal due diligence for CRM

Any questions

THANK YOU

Learn more at

www.cgerisk.com