

Moving Towards
Compliance to Risk
Management



Safety Symposium & Exposition

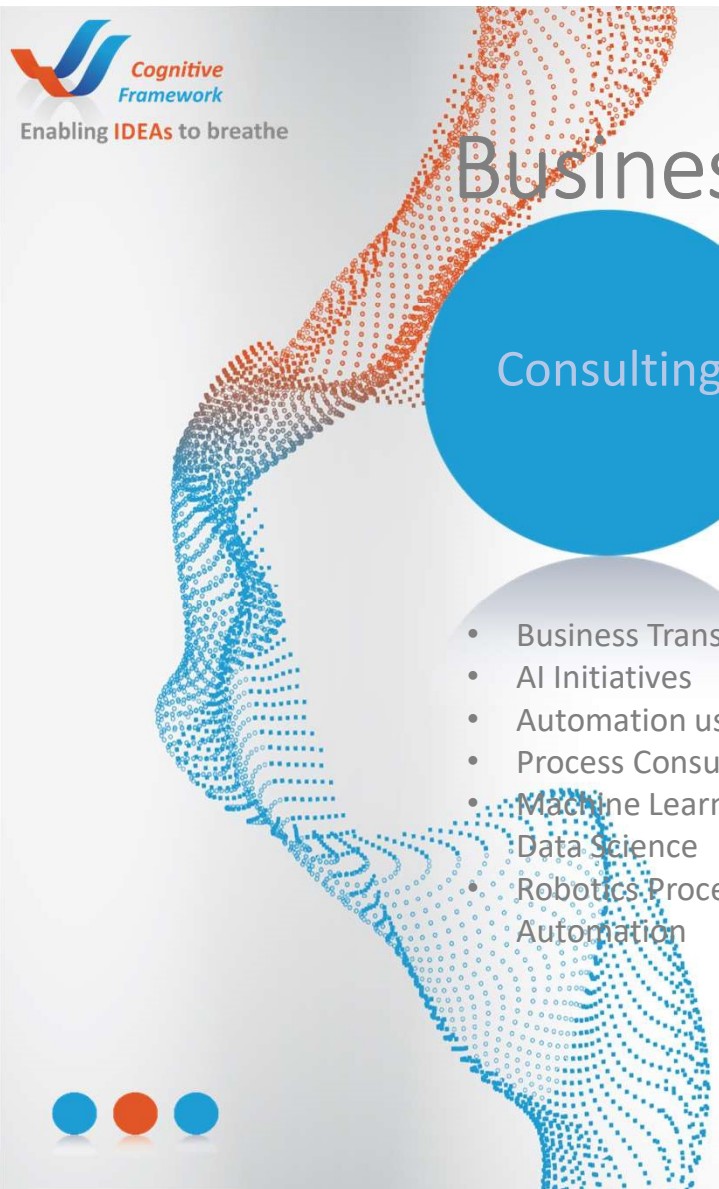
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7 - 8 August 2019; ITC Sonar, Kolkata

Cognitive Framework India Pvt. Ltd

Arnab Basu
Co Founder & CEO

Cognitive Framework India



Business Groups

Consulting

- Business Transformation
- AI Initiatives
- Automation using IOT
- Process Consulting - CSW
- Machine Learning and Data Science
- Robotics Process Automation

Cloud Bound

- Cognitive Strategic Workplace
- AI Utilities

Cognitive Strategic Workplace

- Cognitive Intelligence
- Business Essential
- Business Accelerator

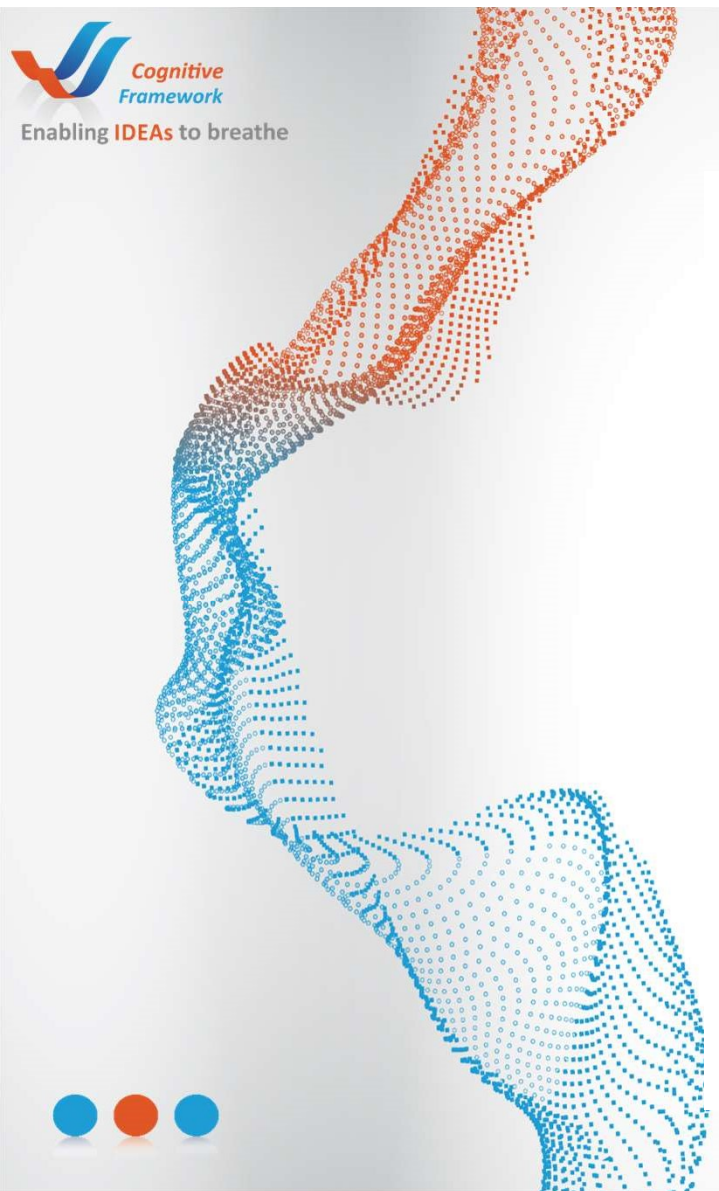


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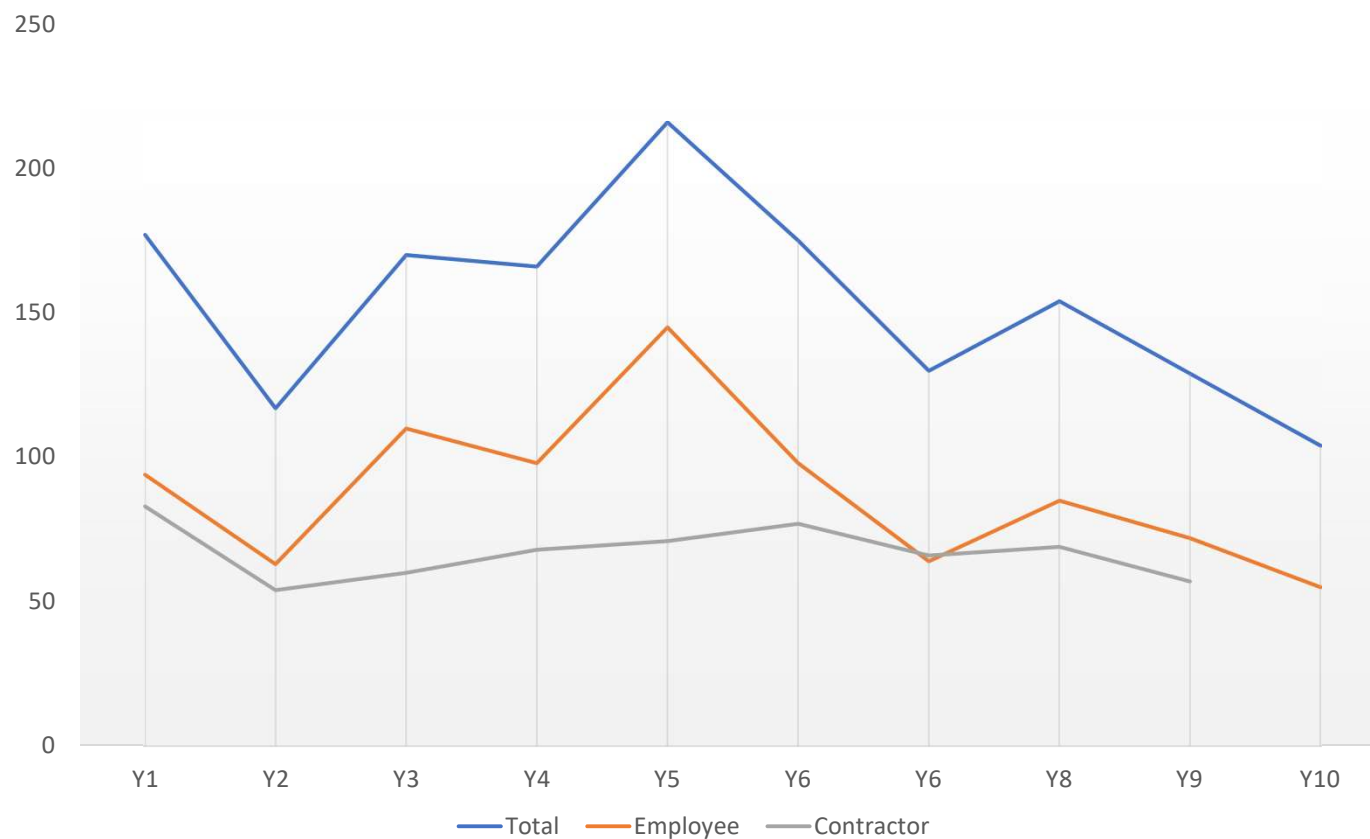
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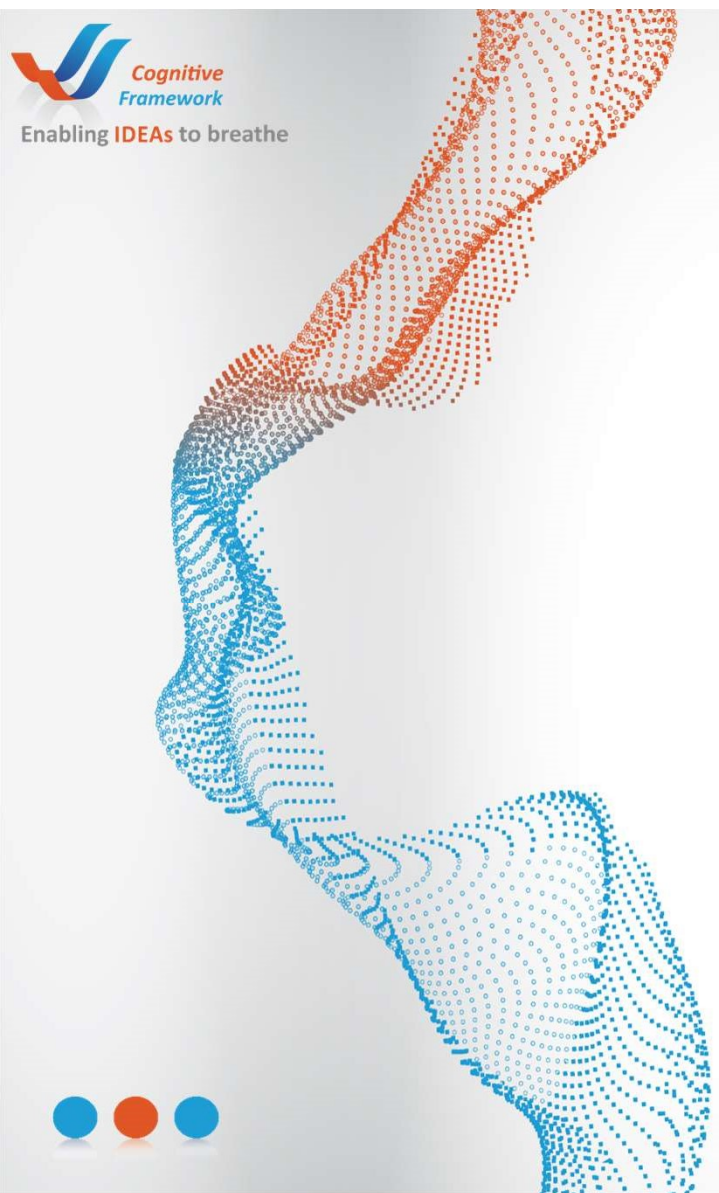
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World Fatality Graph



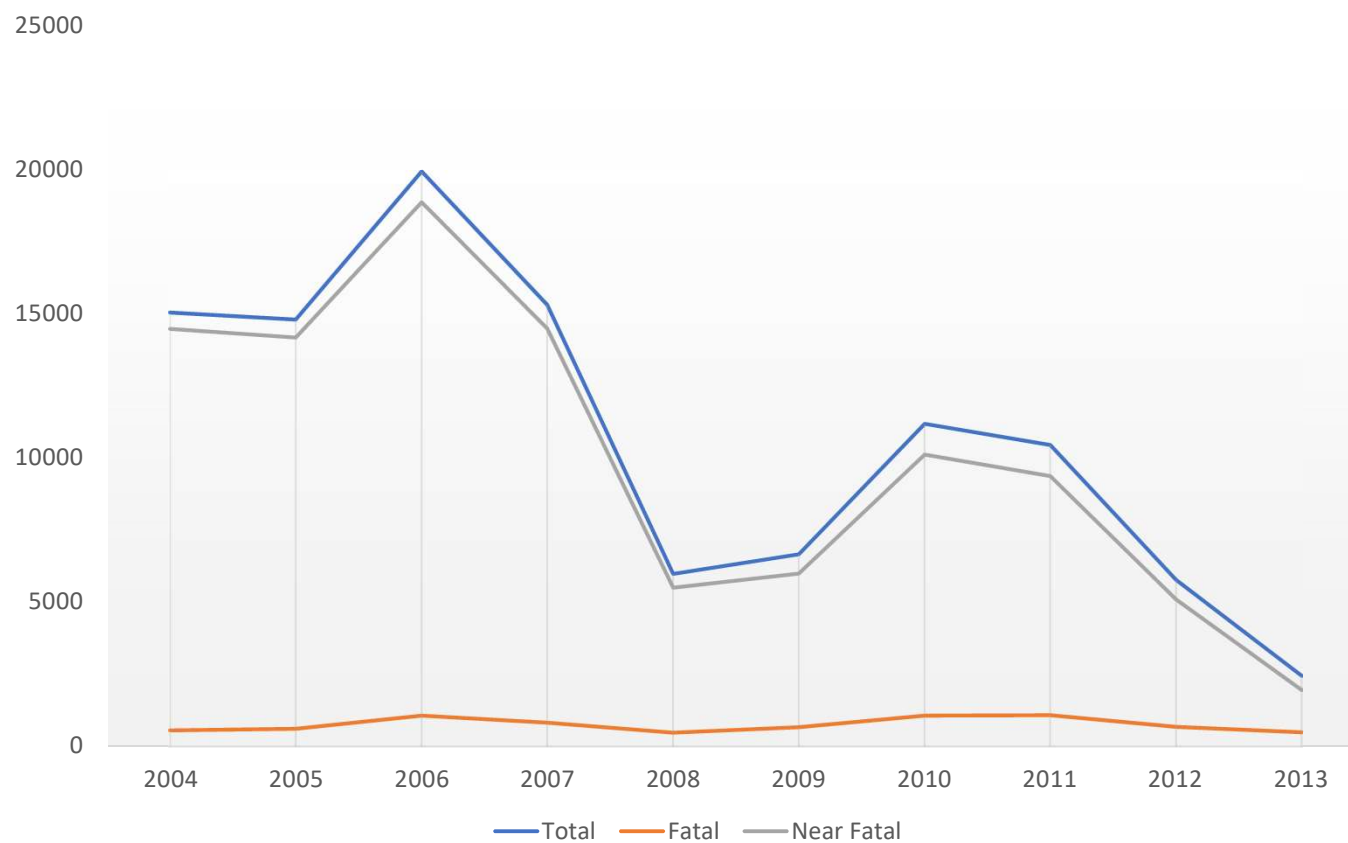
Data source : World Steel Safety & Health report 2017

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Industrial Injuries - India



Data source : Ministry of Statistics & Programme Implementation 2013 report

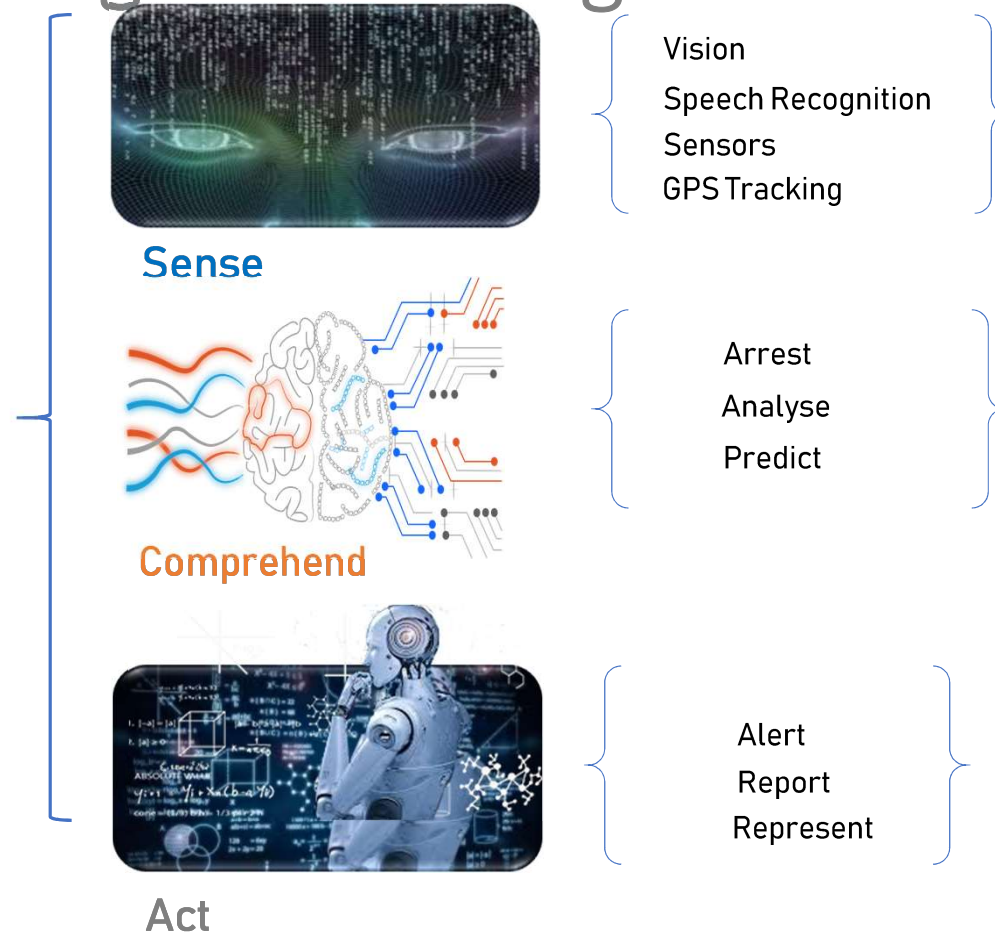
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Risk Management Using AI



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Risk Management Using AI



Virtual Zoning

- High Risk
- Low Risk
- Common



GPS Tracking

- Workforce
- Fleet
- Moving elements



Industrial IOT & Sensors

- Capture
- Analyse
- Predict
- Alert



Risk Management Using AI



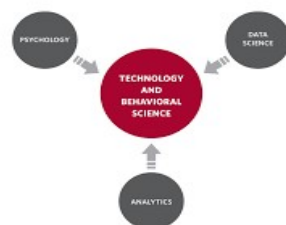
Image Sensing

- Flame
- Inflammable Spill
- Moving / Unused/ Open hazardous elements



Behavioural Science

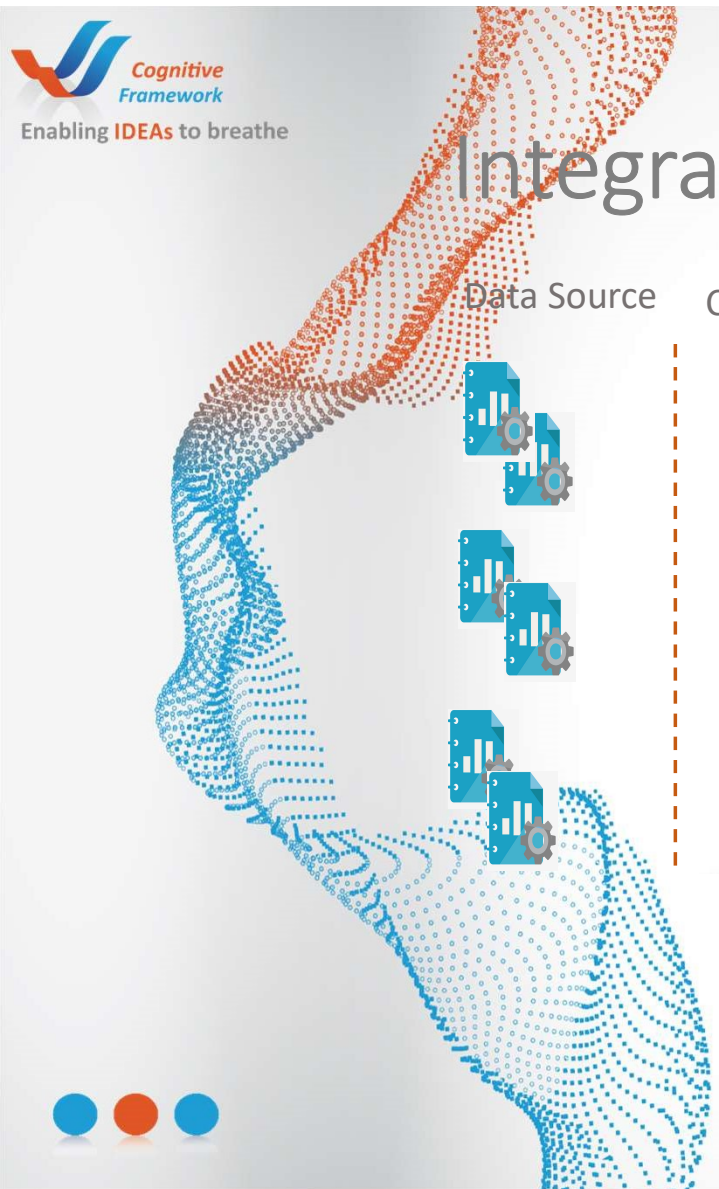
- Emotion
- Sentiment
- Gesture



Augmented Reality

- Element Profiling
- Machine Performance
- Machine Health Parameters
- Maintenance





Integration Layer

Data Source

Connectivity

Integration & Analytics Layer

Data Representation Layer



Alerts

- Internal & External

External Integration

- Emergency Services
- Vendor Management System

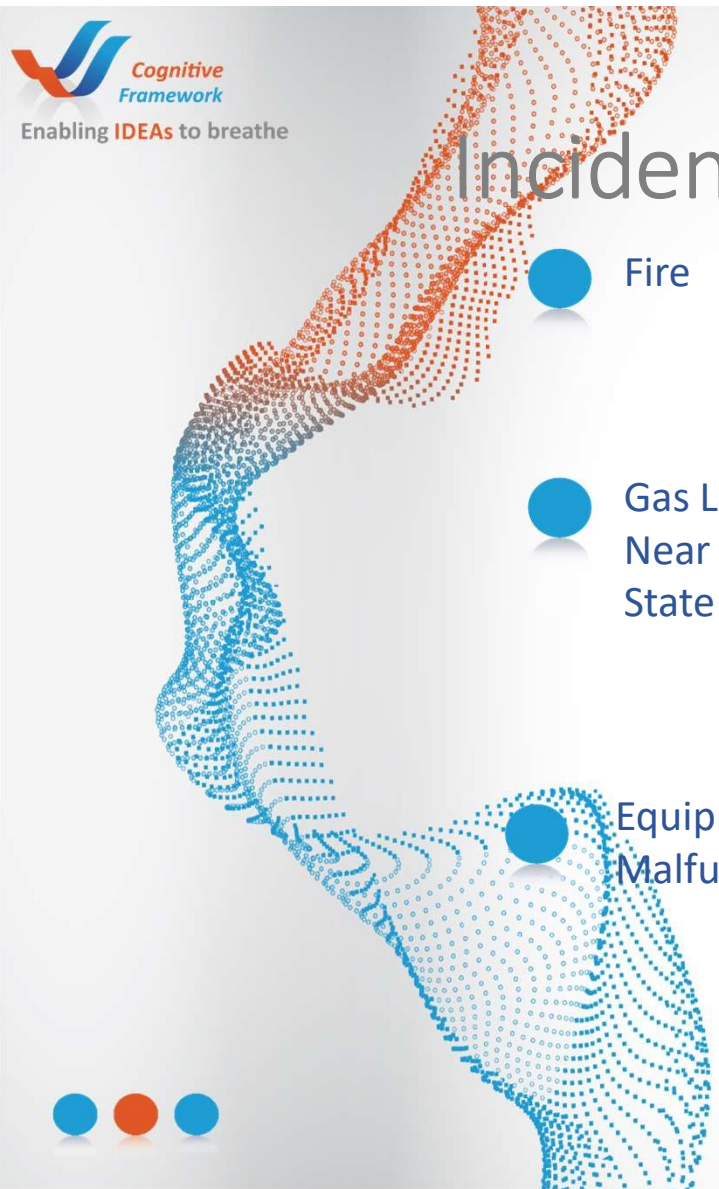
Reporting

- Internally & Externally

Dashboarding

- Compliance & Regulation
- Incident specific

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Incidents We can Prevent



Fire



Gas Leak &
Near Explosion
State



Equipment
Malfunction



Process Overlap



Maintenance
failure



Human Negligence

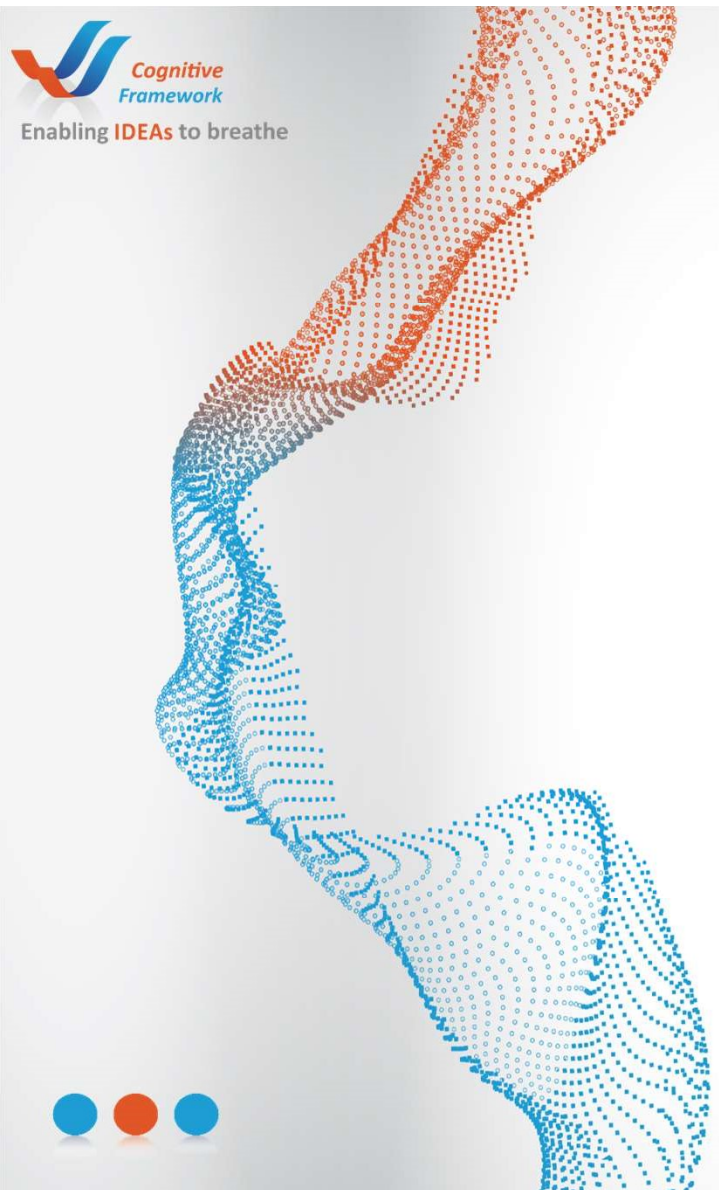


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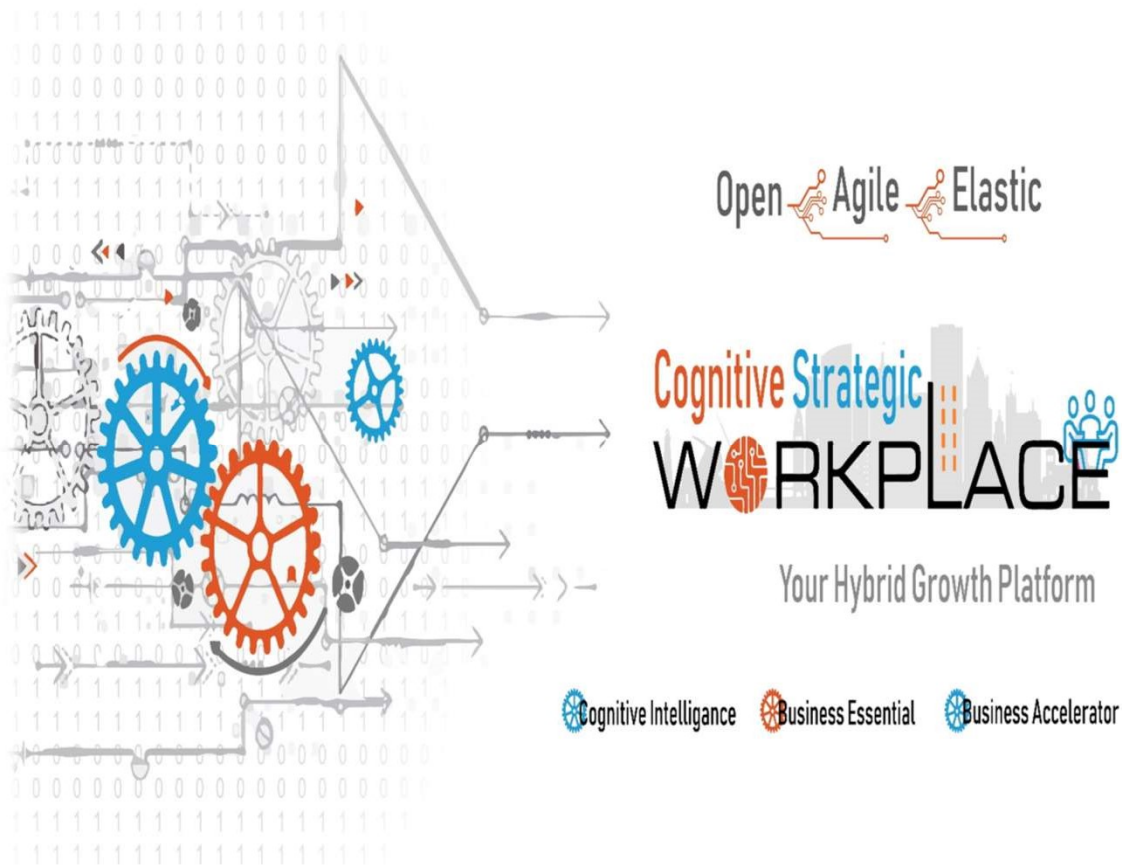
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Use Case - Integration with Fire & Police

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Thank You

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