

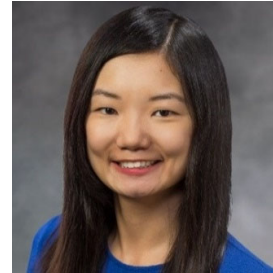
Enbridge's IA DA Journey

IIA Calgary Chapter

Agenda



Geoffrey Smith
Enbridge
Manager, Internal Audit
Analytics



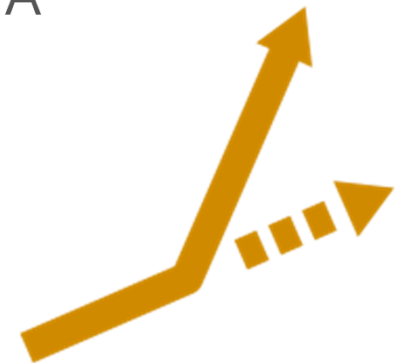
Linzi Jiang
Enbridge
Specialist, Internal Audit
Analytics

Topic	Time	Speaker
Introduction	2	Geoff & Linzi
Enbridge's IA DA Journey	25	Geoff
IA DA Successes / Use Cases	15	Linzi
Personal Journey	5	Geoff & Linzi
Q&A	10	All



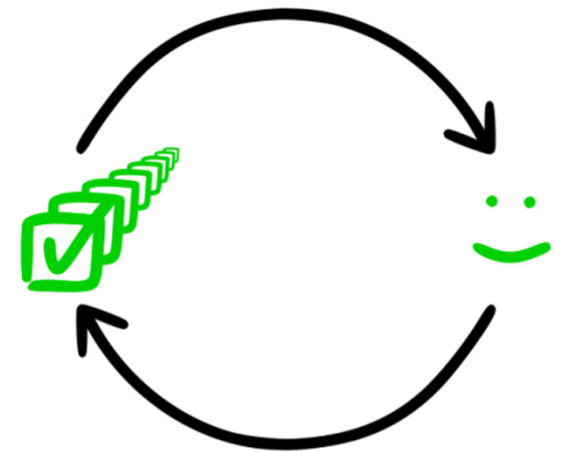
Enbridge IA DA Journey – Where we were

- Prior to five years ago:
 - Limited traction with analytics – mostly reverted to use of analytics (mostly Excel-based)
 - Reliance on co-source for moderate complexity analytics
 - Limited understanding of how leveraging data could enhance IA
- IA prioritized importance of keeping up with innovation.
 - Invest in dedicated data analytics roles
 - Begin shift of departmental mindset – opt-in methodology



Enbridge IA DA Journey – Developing & Investing

- Efforts to invest and develop Enbridge’s IA function:
 - Upskilling the full IA team
 - Establishing a Data Analytics Champion group
 - Recent successful pilot of a DA rotation – continuing into 2024
- Positive feedback loop – IA teams see value from leveraging data – leading to more engagement



Enbridge IA DA Journey – Where we are

- Resourcing:
 - Team of four dedicated DA team members
 - One DA rotation spot
 - A team of 7 DA Champions
- Typical types of value-adding analytics:
 - **Exploratory** – Supports engagement scoping, understanding the audit area
 - **Fieldwork / Sampling** – Focusing on samples with highest risk
 - **Fieldwork / Detail** – Enhanced coverage by performing tests over 100% of populations



Enbridge IA DA Journey – Where we are (continued)



- Value delivered to auditees – novel insights, particularly in areas with limited reporting/data capabilities.
- Auditors looking to grow in their career often look to round out their skillsets with experience using DA. One of Enbridge IA's focus areas is around development and retention – making our group an attractive place to grow careers.
- As Internal Audit's innovation mindset is recognized more widely – called on to participate and contribute to broader innovation activities.

Enbridge IA DA Journey – Learnings

- No discussion of a journey would be honest without talking about learning and challenges. We faced a number along the way, and honestly many of these below continue to be a work in progress:
- Data Access
- Data Quality
- Audit Team buy-in / understanding / support
- Audit Leadership support for innovation
- Talent



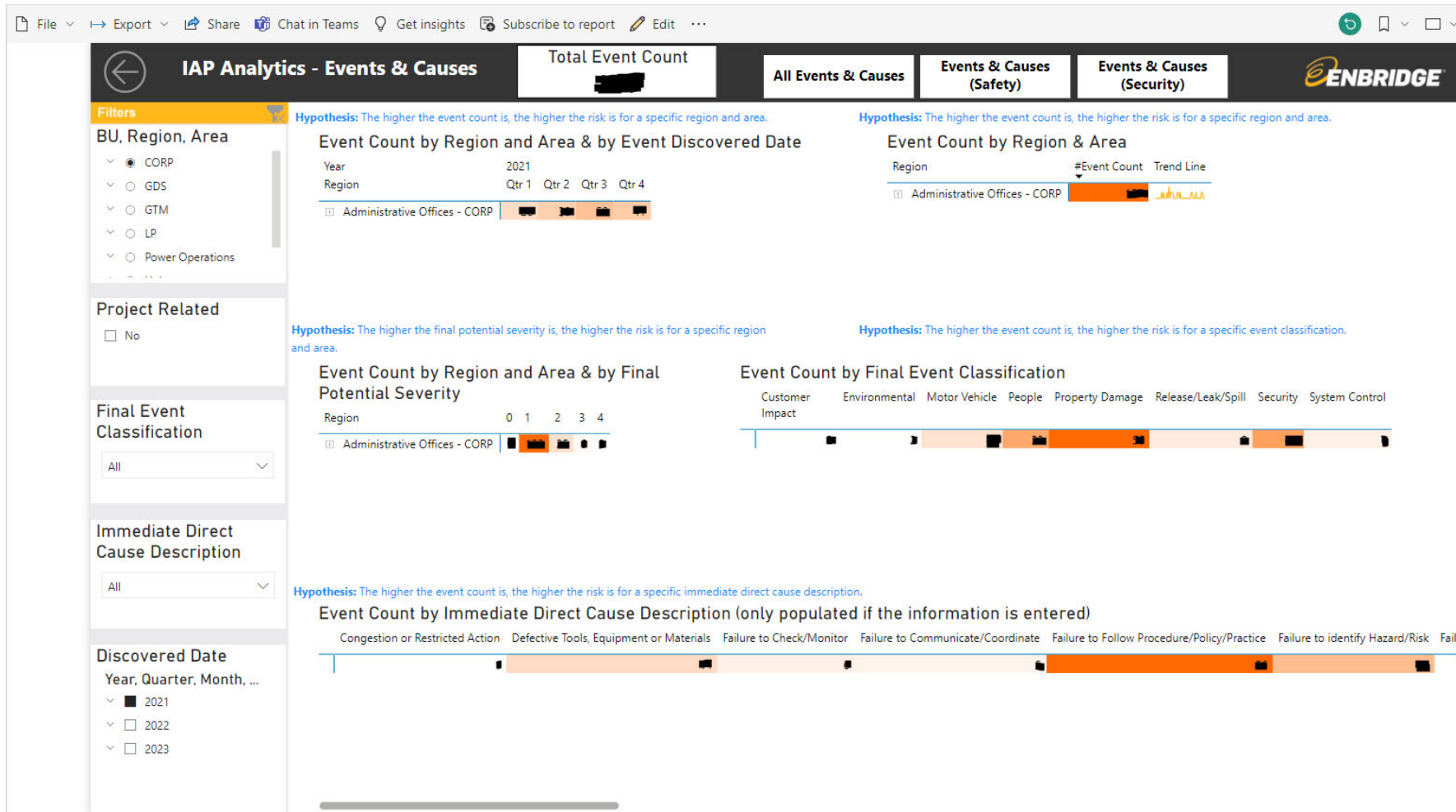
Enbridge IA DA Success Highlights

Risk Analytics Power BI Dashboards



- IAP/ Operational Compliance Audit (Environmental, Safety, Emergency)
- Workday Learning Analytics
- Employee Expense Analytics
- SCM/ AP Analytics

Enbridge IA DA Success Highlights (Continued)



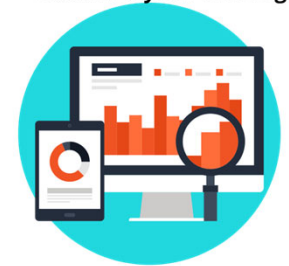
Enbridge IA DA Success Highlights (Continued)

IA DA Training



- Requires constant training and investment to increase DA awareness & usage within IA
- The DA team has developed and executed DA training strategy for different audiences
 - ✓ Broader IA team
 - ✓ DA Champion team
 - ✓ DA rotation
- Over the last 4 years, the DA team has hosted near **20** training and presentations

Data Analytics Training



Enbridge IA DA Success Highlights (Continued)



Data Management

- The DA team has completed two advisory projects recommending management on enterprise data management practices
- Continue to have conversations with management to influence on enterprise data management
- Start to raise audit finding/ OFIs related to data quality/ data management

Enhance Automation within Finance

- Power BI community of practice
- Clarify path to automation



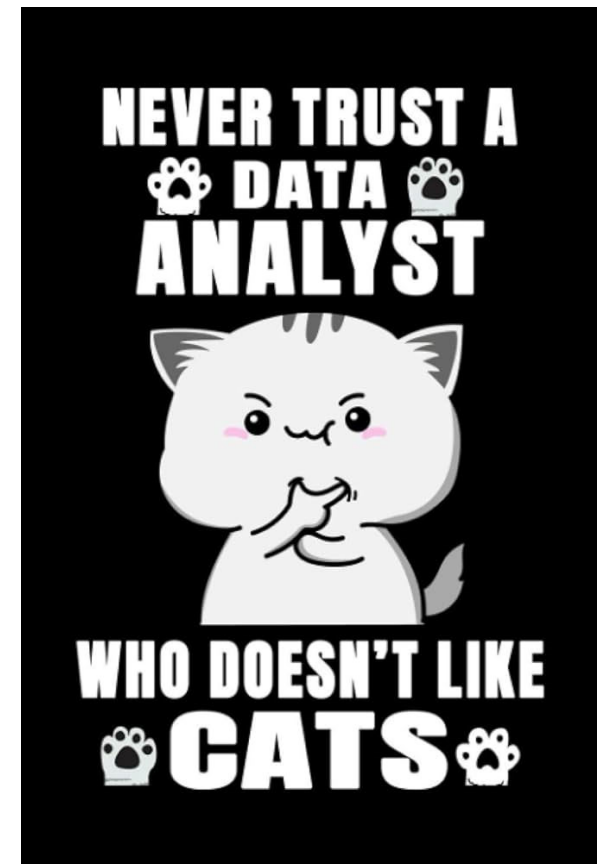
Enbridge IA DA - What's Next?

- AI Governance
- ChatGPT/ LLM pilot
- Sentiment analysis
- Consider mandating data-driven risk assessment
- Data visualization supporting reporting and full-cycle DA embedded into IA engagements



Some considerations when hiring for IA DA


- Strong audit/ internal audit knowledge & business acumen
- Knowledge of DA and able to apply DA under IA context
- Problem solver, innovative, proactive & multi-tasking
- Curiosity mindset & lifelong learner
- Strong communicator & interpersonal skills



Personal Journey



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Linzi Jiang – Specialist, Internal Audit Data Analytics

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