



GIS and ERAC

GIS solutions strengthening ERAC's Emergency Management program and regulatory compliance





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Land Acknowledgement





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Agenda

- What Exactly is GIS?
- ERAC's Four Pillars and GIS Solutions
 - Emergency Response Planning
 - Dangerous Goods Response
 - Dangerous Goods Responder Training and Assessment
 - First Response Training
- Conclusion
- Questions



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What Exactly is GIS?

**Geographic
Information
System**



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What Exactly is GIS?

“A geographic information system (GIS) is a system that creates, manages, analyzes, and maps all types of data.”





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What Exactly is GIS?

Best 6 min 12 min 23 min 8 min

Emergency Response Assistance Canada

Hotel Arts, 119 12 Ave SW, Calgary, AB T2F

Add destination

Leave now Options

Send directions to your phone Copy link

via 5 Ave SW and 12 Ave SW	6 min	1.7 km
Best route, lighter traffic than usual		
Details		
via 5 Ave SW and 12 Ave SW	6 min	1.7 km
via 5 Ave SW and 9 Ave SW	6 min	1.7 km
Some traffic, as usual		

Explore nearby Hotel Arts

- Restaurants
- Hotels
- Gas stations
- Parking Lots
- More

Search along the route

Gas EV charging Hotels

Emergency Response Assistance Canada

Hotel Arts

6 min 1.7 km

6 min 1.7 km

6 min 1.7 km

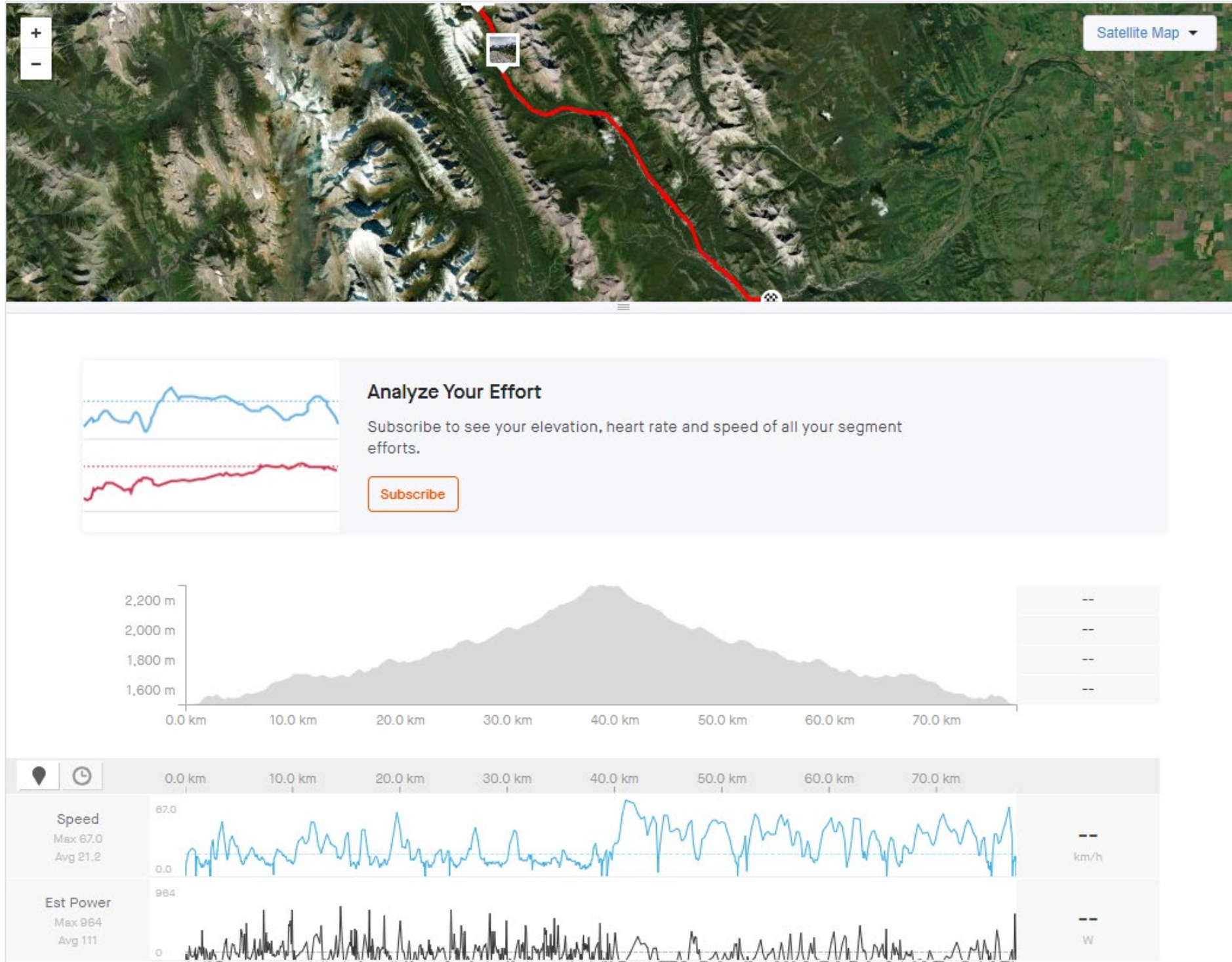
Google

Map data ©2024 Google Canada Terms Privacy Send Product Feedback 100 m



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What Exactly is GIS?





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What Exactly is GIS?



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What Exactly is GIS?



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What Exactly is GIS?



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ERAC's Four Pillars of Service

- Emergency Response Planning
- Dangerous Goods Response
- Dangerous Goods Responder Training and Assessment
- First Responder Training



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ERAC's Four Pillars of Service

➤ Emergency Response Planning

➤ Dangerous Goods Response

➤ Dangerous Goods Responder Training and Assessment

➤ First Responder Training



ERAC

Operations Portal



New ▾



ERAC ▾



Portal Homepage

ERAC.org

Garmin

Motive

ERAC GIS Applications

Click *Launch* from the choices below to open an application or choose *View All Applications* to see more.



Incident Dashboard

Launch Details



Resource Locator

Launch Details




Plan Participants

Launch Details



Firefighter Training Dashboard

Launch Details



Regional Training and Assessment Dashboard

Launch Details

View All Applications



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Emergency Response Planning



Where are crucial resources located in relation to an incident site?



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Challenges

- Where and how far is the nearest *X* resource located?
- Where can contact details for resources like response teams be found?
- Is there a central location that is an authoritative source of information?
- How reliable and up to date is contact information?



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Resource Locator



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Resource Locator



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Resource Locator



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ERAC's Four Pillars of Service

➤ Emergency Response Planning

➤ **Dangerous Goods Response**

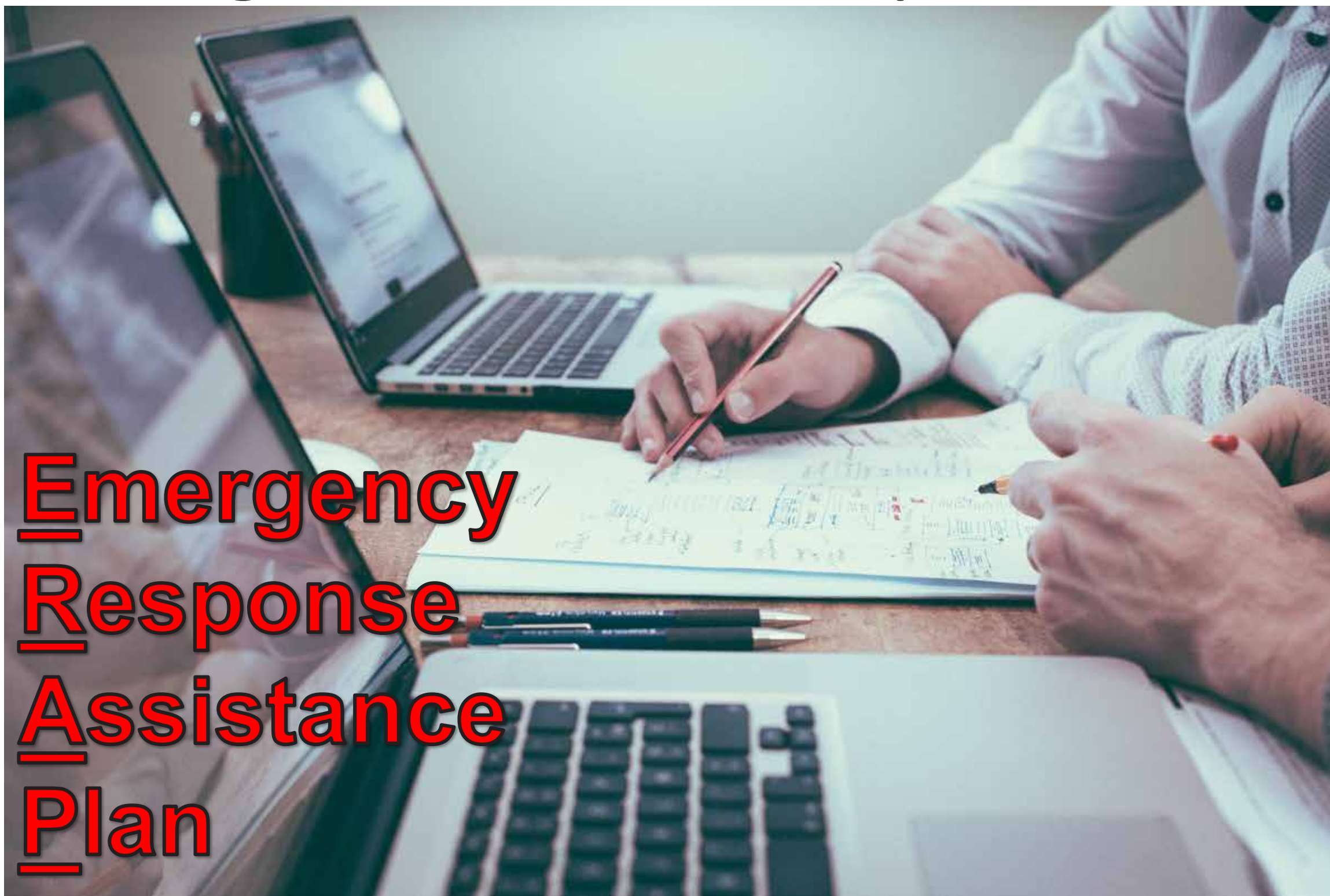
➤ Dangerous Goods Responder Training and Assessment

➤ First Responder Training



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Dangerous Goods Response





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Challenges

- How is data transferred from STARS to ERAC?
- Once data is transferred to us, how and where is it managed?
- How are incidents updated throughout their lifecycle? Is this a standardized process?
- If past incident information is required, is it easy to find?
- Creation of ERAP reports came from a third party



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Incident Dashboard

Incident Dashboard

Resource Locator

Demo Propane Incident Dashboard Version 2.0



Filter Incident List and Statistics

Year

All Years

Status

Any Status

Province(s)

All Provinces

Division

All Divisions

Tier of Response

All Tiers of Response

Mode of Transportation

All Modes of Transportation

Incident or Notification


Any


Filter Incident Log


All Roles


Incident List


Search...


- 

Date: 5/28/2024, 10:38 AM
Location: **TESTING_CLICKSEND**
Plan Participant: Demo Propane Inc.
Description:
- 

Date: 5/28/2024, 9:00 AM
Location: ERAC Office, Calgary
Event Number: 20240528_DEMO
Plan Participant: #9 Propane Inc; Demo Propane Inc.
Description: Demo incident for ERAP Reporting v2
- 

Date: 1/1/2023, 11:15 AM
Location: Okotoks
Event Number:
Plan Participant: Demo Propane Inc.
Description: *Demo incident only* Truck in ditch
- 

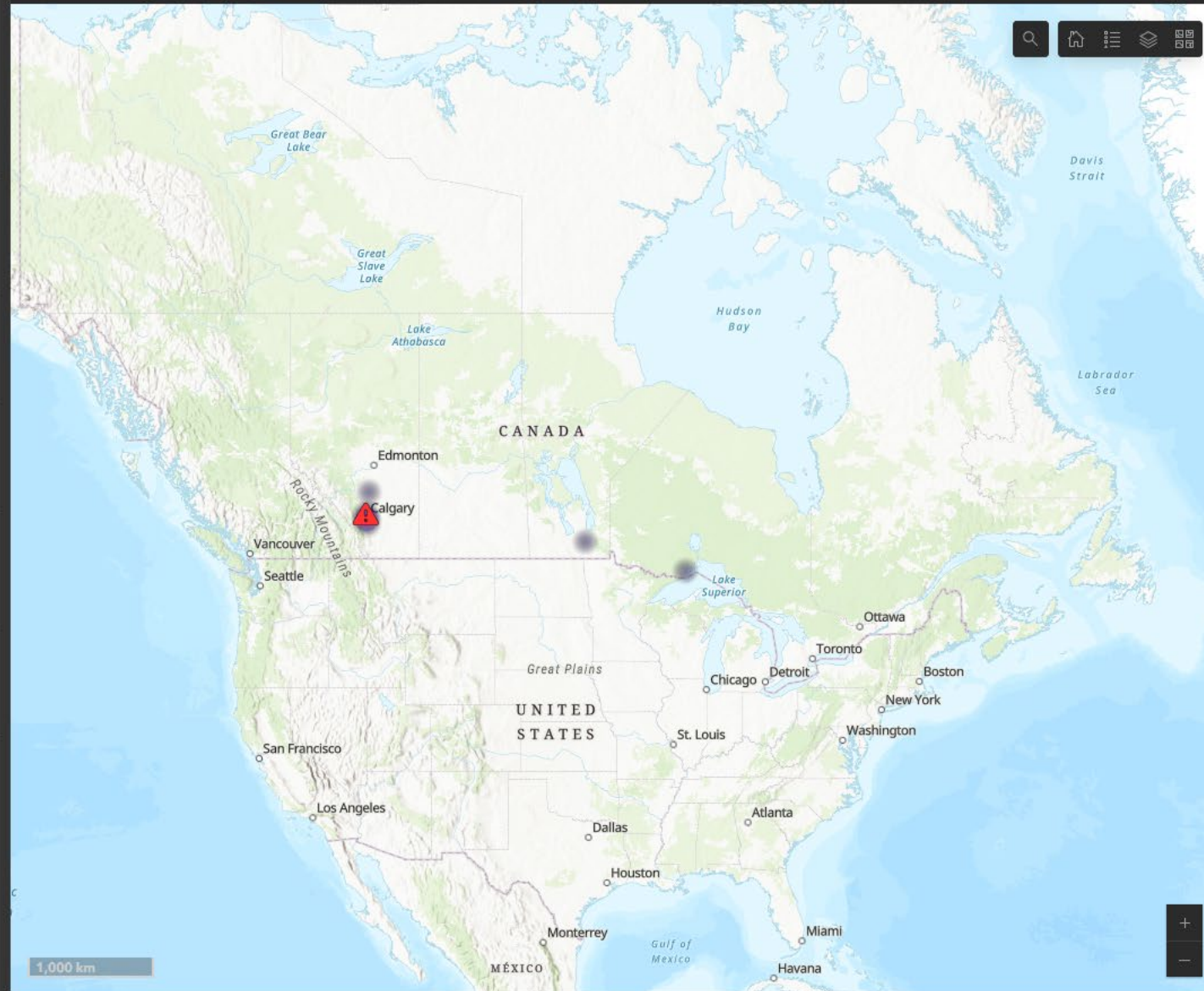
Date: 3/10/2022, 6:45 AM
Location: Winnipeg
Event Number:
Plan Participant: Demo Propane Inc.
Description: *Demo incident only* Railcar off track
- 

Date: 2/8/2021, 9:00 AM
Location: Red Deer
Event Number: 12345
Plan Participant: Demo Propane Inc.
Description: *Demo incident only* Super B rolled into snow bank
- 

Date: 1/2/2020, 5:00 PM
Location: Thunder Bay
Event Number:
Plan Participant: Demo Propane Inc.
Description: *Demo incident only* Leaking railcar

[Click here for a symbol legend](#)

Incident Map



Esri, USGS | Province of Ontario, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, NRCAN, Parks Canada

Powered by Esri

Incident Map



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Incident Dashboard



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Incident Dashboard



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Automation



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Automated Reports



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Statistics Dashboard

GlobalID	Event Na	Event Da	Regional	Response Team	Assessment Date	Primary A	Seconda	Additions	Transfer	Transfer	Transfer	Transfer	Transfer	Transfer	Transfer	Trans	Trans	Emergen	Stub Out	Ball Valve	Sight Gla	Cables w	Groundir	Aluminum	Ohm Met	Earth Res	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Vapour F	Liquid Fla	Transfer	Tran		
fdca859	GFL-Win	#####	LPG	GFL Environmental-	2023-03-22 18:57	Chris Whi	<Null>	<Null>	2	350	<Null>	<Null>	<Null>	150	<Null>	<Null>	<Null>	12	12	4	2	12	2	1	1	1	2	2	200	1	1	All Equipr	<Null>			
8de1eeC	Quebec	#####	LPG	MM Propane - Saint	2023-05-03 22:03	Louis-Pl	Charlotte	<Null>	2	350	#####	VALID	63	150	#####	VALID	63	8	8	4	1	8	2	1	1	1	2	1	150	1	1	All Equipr	<Null>			
4162a25	Plains Mi	#####	LPG	Plains Midsteam - R	2023-05-10 16:47	Chris Whi	Yves Har	<Null>	2	350	#####	VALID	284	300	#####	VALID	284	11	8	5	1	10	2	1	1	1	2	2	200	1	1	All Equipr	<Null>			
0b2ca0	RST - LP	#####	LPG	RST - Saint John	2023-05-13 12:02	Charlotte	Louis-Pl	<Null>	2	350	#####	VALID	155	150	#####	VALID	155	4	0	4	1	8	2	1	1	1	2	1	150	1	1	Equipmei	Shut			
3c7ab2	GFL PG F	#####	LPG	GFL Environmental-	2023-05-24 21:41	Chris Whi	Josh Wat	<Null>	2	350	#####	VALID	97	150	#####	VALID	97	8	8	4	1	8	2	1	1	1	3	1	150	1	2	All Equipr	<Null>			
2c9aac	Keyera L	#####	LPG	Keyera - Edmonton	2023-06-14 19:30	Chris Whi	Josh Wat	<Null>	2	350	#####	VALID	65	150	#####	VALID	65	12	9	6	1	9	2	1	1	1	2	2	150	2	2	All Equipr	<Null>			
629f9c6	Nucor LF	#####	LPG	Nucor Corporation -	2023-06-02 15:42	Josh Wat	Chris Whi	<Null>	2	350	#####	VALID	200	150	#####	VALID	200	8	8	4	1	8	2	1	1	1	2	1	150	1	1	All Equipr	<Null>			
050f62f	QM Ston	#####	LPG	QM Environmental -	2023-07-10 19:57	Louis-Pl	Yves Har	Charlotte	2	350	#####	VALID	312	150	#####	VALID	312	8	8	4	1	8	2	1	1	1	2	1	150	1	1	All Equipr	<Null>			
f426f1c	TESTING	#####	LPG	Testing Organizator	2023-09-20 19:09	Test Ass	<Null>	<Null>	2	350	#####	VALID	16	150	#####	VALID	356	8	8	3	1	8	2	1	1	1	2	1	150	1	0	Equipmei	Ball			
427bfcc	Superior	#####	LPG	Superior Propane -	2023-09-26 16:09	Cody Dav	Charlotte	Yves Har	2	350	#####	VALID	116	150	#####	VALID	116	9	8	17	2	8	6	0	1	1	3	2	250	1	1	Equipmei	Alum			
bab407	Sutherlar	#####	LPG	Sutherland Excavati	2023-10-20 11:54	Louis-Pl	<Null>	<Null>	2	350	#####	VALID	259	150	#####	VALID	1	8	8	4	1	8	2	1	1	1	2	1	150	1	1	All Equipr	<Null>			
GlobalID	Event Na	Event Da	Regional	Response Team	Assessment Date	Primary A	Seconda	Additions	Title	Transfer	Transfer	Transfer	Transfer	Transfer	Transfer	Trans	Trans	Transfer	Sight Gla	Cables w	Groundir	Aluminum	Ohm Met	Earth Res	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Aluminum	Transfer	Transfer	Notes	Pipefitter	Pipe		
GlobalID	Event Na	Event Da	Regional	Response Team	Assessment Date	Primary A	Seconda	Additions	Title	Transfer	Transfer	Transfer	Transfer	Transfer	Transfer	Trans	Trans	Transfer	Sight Gla	Cables w	Groundir	Aluminum	Ohm Met	Earth Res	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Aluminum	Transfer	Transfer	Notes	Pipefitter	Pipe		
43ad54	GFL FL F	#####	FL	GFL Environmental-	2023-03-22 20:36	Chris Whi	<Null>	<Null>	<Null>	3	600	<Null>	<Null>	<Null>	300	<Null>	<Null>	<Null>	1	3	3	3	3	1	2	4	200	4	All Equipr	<Null>	Site glass	1				
d4f8b69	Nucor FL	#####	FL	Nucor Corporation -	2023-06-28 21:00	Josh Wat	Chris Whi	<Null>	<Null>	2	600	#####	VALID	71	600	###	VALID	210	1	7	8	3	1	1	2	2	150	3	Equipmei	Transfer	<Null>		1			
29a553	GFL Mon	#####	FL	GFL Environmental-	2023-09-26 17:46	Louis-Pl	<Null>	<Null>	<Null>	3	600	#####	VALID	180	300	###	VALID	180	1	3	3	3	3	1	2	2	150	3	All Equipr	<Null>	<Null>		1			
da3bd5	GFL Thu	#####	FL	GFL Environmental-	2023-10-11 19:52	Charlotte	Louis-Pl	<Null>	<Null>	3	600	#####	VALID	0	300	###	VALID	0	1	3	3	3	4	1	4	2	150	4	All Equipr	<Null>	<Null>		1			
919aa4e	DEMO FL	#####	FL	Testing Organizator	2023-10-17 19:41	Test Ass	<Null>	<Null>	<Null>	3	600	#####	VALID	10	300	###	VALID	18	1	3	3	3	3	1	2	2	150	3	All Equipr	<Null>	<Null>		1			
GlobalID	Event Na	Event Da	Regional	Response Team	Remedial Measures	Primary A	Seconda	Additions	ID and Pr	Incident	ID and Int	Shipping	Shipping	MSDS	MSDS Nc	ERAF	ERAF	Site Conx	Site Conx	Controlle	Controlle	Equipmei	Equipmei	PPE	PPE Note	Hot Zone	Hot Zone	Gas Test	Gas Test	Gas Test	Gas Test	Upwind o	Upwind o	Reac		
c74d72f	GFL-Win	#####	LPG	GFL Environmental-	Paulo Candeias	Chris Whi	<Null>	<Null>	Yes	Yes	He intro	Yes	Reviewe	Yes	Paulo is v	Yes	2-00	Yes	<Null>	Yes	Flagged	Yes	Has full R	Yes	Was wea	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes	
307ae8	Quebec	#####	LPG	Superior Propane -	Lee Rankin	Louis-Pl	Charlotte	<Null>	Yes	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes	
6859e5t	Quebec	#####	LPG	MM Propane - Saint	Normand Desvergne	Louis-Pl	Charlotte	<Null>	Yes	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes	
e812fc9	Plains Mi	#####	LPG	Plains Midsteam - R	Mark Ehrman	Chris Whi	<Null>	<Null>	Yes	Yes	Worked w	Yes	Yes	Yes	<Null>	Yes	Plain	Yes	<Null>	Yes	<Null>	Yes	Hadown	Yes	<Null>	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes	
6dd92e	RST LPG	#####	LPG	RST - Saint John	Tom Murphy	Louis-Pl	Charlotte	<Null>	Yes	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes	
425a02	GFL PG F	#####	LPG	GFL Environmental-	Pat Mason	Josh Wat	Chris Whi	<Null>	Yes	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes
c632e1C	Nucor LF	#####	LPG	Nucor Corporation -	Rob Barrow	Josh Wat	Chris Whi	<Null>	Yes	Yes	<Null>	Yes	<Null>	<Null>	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes
2ccc6ff	TESTING	#####	LPG	Testing Organizator	Sophia Lamb	Test Ass	<Null>	<Null>	Yes	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes
4d137ae	DEMO FL	#####	FL	Testing Organizator	Testing RAMA	Test Ass	<Null>	<Null>	Yes	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes
192419t	Sutherlar	#####	LPG	Sutherland Excavati	Geoff White	Louis-Pl	<Null>	<Null>	Yes	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	<Null>	Yes	Yes	Yes	Yes	Yes	Yes	<Null>	Yes	Yes
GlobalID	Longitud	Latitude	Event Na	Event Date	Event Date (Label)	Address	City	Province	Regional	Means of	Means of	Respons	Respons	Respons	Attendar	Atten	Atten	Event No	RTA Data	Closeout	RTA UII	Creation	Creator	EditDate	Editor	Shape	Individual	Team Ce	Report C	Attendar	Average	RTA Data	Close			
752396	-97.17	49.829	GFL-Win	2023-03-23 16:00	2023-03-23	1450 Clar	Winnipeg	Manitoba	LPG	Road	<Null>	gfl_winnij	GFL Envi	<Null>	12	Allan	Allan	The prac	Complete	Well done	18d2029	#####	mike.wrig	#####	admin_ei	Point	Complete	Complete	Complete	<Null>	98.5	Complete	Well			
4a2f4b2	-97.01	49.921	GFL-Win	2023-03-24 17:00	2023-03-24	Ballantra	Winnipeg	Manitoba	FL	Rail	<Null>	gfl_winnij	GFL Envi	<Null>	12	Allan	Allan	<Null>	Complete	The team	a300c6b	#####	mike.wrig	#####	admin_ei	Point	Complete	Complete	Complete	<Null>	98.5	Complete	The			
f1a947t	-73.67	45.472	GFL Mon	2023-04-18 16:00	2023-04-18	5901 Wes	Côte Sair	Québec	FL	Rail	<Null>	gfl_bois-	GFL Envi	<Null>	8	Zach	Zach	refer to jo	To Be De	day 1 anc	ee11c140	#####	lp.etheric	#####	lp.etheric	Point	<Null>	<Null>	<Null>	<Null>	64.3	To Be De	day			
17a658c	-72.79	45.266	Quebec	2023-04-27 16:00	2023-04-27	1335 che	Brigham	Québec	LPG	Rail	<Null>	superior_	Superior	<Null>	10	Jocel	Jocel	Note that	Complete	<Null>	602be96	#####	lp.etheric	#####	admin_ei	Point	Complete	Complete	Complete	<Null>	<Null>	Complete	The			
974c6e	-71.63	48.464	Quebec	2023-05-02 16:00	2023-05-02	555, rang	Saint-Bri	Québec	LPG	Rail	<Null>	mm-prop	MM Prop.	<Null>	8	Seba	Seba	<Null>	Complete	<Null>	414994b	#####	lp.etheric	#####	admin_ei	Point	Complete	Complete	Yes	<Null>	100	Complete	<Null>			
1b3dbf0	-71.17	48.408	Sutherlar	2023-05-08 16:00	2023-05-08	766 route	Strathad.	New Brur	LPG	Road	<Null>	sutherlar	Sutherlar	<Null>	0	<Null>	<Null>	<Null>	To Be De	<Null>	123ed80	#####	lp.etheric	#####	lp.etheric	Point	<Null>	<Null>	<Null>	<Null>	<Null>	To Be De	<Null>			
e058cef	-52.78	47.511	RST - LP	2023-05-13 16:00	2023-05-13	255 Broo	St-John	Newfoun	LPG	Road	<Null>	rst_saintj	RST - S	<Null>	8	Gord	Gord	<Null>	Complete	<Null>	5e00739	#####	lp.etheric	#####	lp.etheric	Point	Complete	Complete	Complete	No	71.5	Complete	<Null>			
0d9fab3	-97.23	49.77	Plains Mi	2023-05-10 17:00	2023-05-10	933 Perir	Winnipeg	Manitoba	LPG	Rail	<Null>	plains mik	Plains Mi	<Null>	8	Brenr	Brenr	They trar	Complete	The team	c3b383d	#####	chris.whi	#####	admin_ei	Point	Complete	Complete	Yes	<Null>	98.5	Complete	The			
780e60	-122.7	53.839	GFL PG F	2023-05-24 18:00	2023-05-24	9211 Nati	Prince G	British Cc	LPG	Rail	<Null>	gfl_prino	GFL Envi	<Null>	9	Carte	Carte	<Null>	Complete	They did	e10e20d	#####	chris.whi	#####	admin_ei	Point	Complete	Complete	Complete	<Null>	99.7	Complete	They			
cec3b0	-113.4	53.573	Keyera L	2023-06-14 18:00	2023-06-14	12003-12	Edmonto	Alberta	LPG	Road	<Null>																									



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Statistics Dashboard



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Statistics Dashboard



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Summary

- Robust method of data collection and storage
- Multiple dashboards to visualize data both at-a-glance and in-depth
- Automated processes that support both internal staff and external stakeholders
- Facilitates near real-time sharing of incident data for subscribing members
- Supports regulatory and contractual compliance



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ERAC's Four Pillars of Service

➤ Emergency Response Planning

➤ Dangerous Goods Response

➤ Dangerous Goods Responder Training and Assessment

➤ First Responder Training



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Regional Training and Assessment

- A core service provided by ERAC.
- Conducted on an annual basis for each ERAC liquefied petroleum gas and flammable liquids response team.





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Regional Training and Assessment

- Two-day events that include classroom training sessions and tabletop exercises (day one), followed by a "hands on live product" exercise and team assessment (day two).





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Regional Training and Assessment

- Once teams pass their assessment, they are certified as an approved team resulting in a nation-wide network of experienced and competent emergency response teams.





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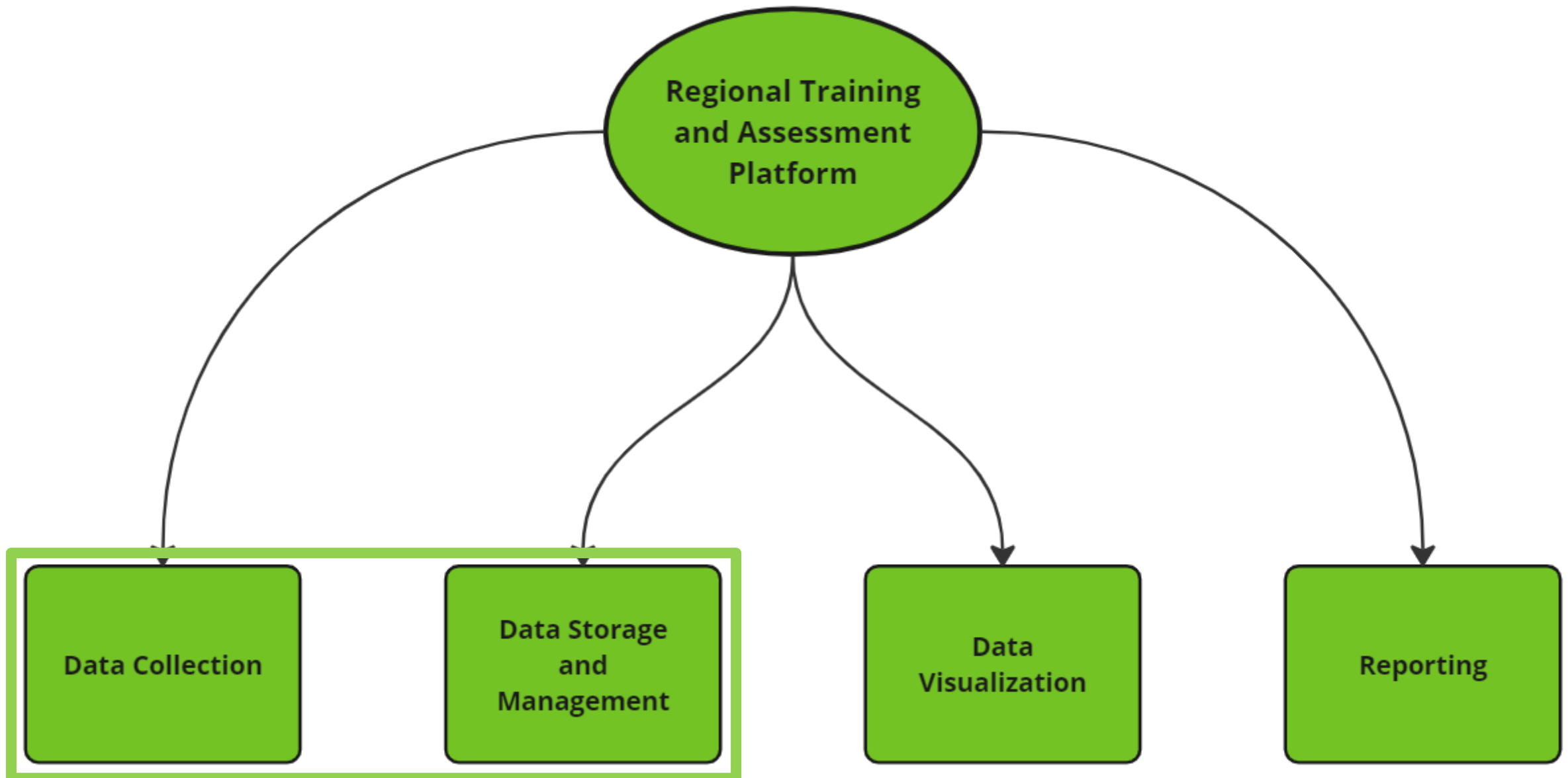
Challenges

- Existing workflow was an outdated paper-based process.
- Results for events were stored as various PDFs in nested folder structures.
- Post-event tasks were admin-heavy and required coordination between multiple departments.
- Certificates were only generated for teams and not individuals.
- Inconsistencies on the scorecard log spreadsheet.



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Required Components





ERAC

ArcGIS Online and Survey123

"ArcGIS Survey123 is a simple and intuitive form-centric data gathering solution. Create, share and analyze surveys in just three easy steps."



ArcGIS®
Survey123



ERAC

Smart Forms

Regional Training and Assessment



Event Details

Regional Training and Assessment



**FL Mandatory
Equipment Inspection**

Regional Training and Assessment



**LPG Mandatory
Equipment Inspection**

Regional Training and Assessment



**RMA/TA Mandatory
Equipment Inspection**

Regional Training and Assessment



RMA Assessment

Regional Training and Assessment



Team Assessment



ERAC

Smart Forms

▼ Overall Evaluation Totals

Site Safety and Preparation Score

160 / 170

Operations Score

245 / 250

Leadership/Teamwork/Cohesiveness/Overall Function of Equipment Score

90 / 90

Incident Closeout Score

35 / 50

Final Total

530 / 560

80% Passing Score

94.64%

ASSESSMENT PASSED

Assessment Notes Summary

1.3: Paperwork was partially filled out.

1.8: Entire work zone was not delineated.

2.3: Incorrect sequence followed but process was still successful.

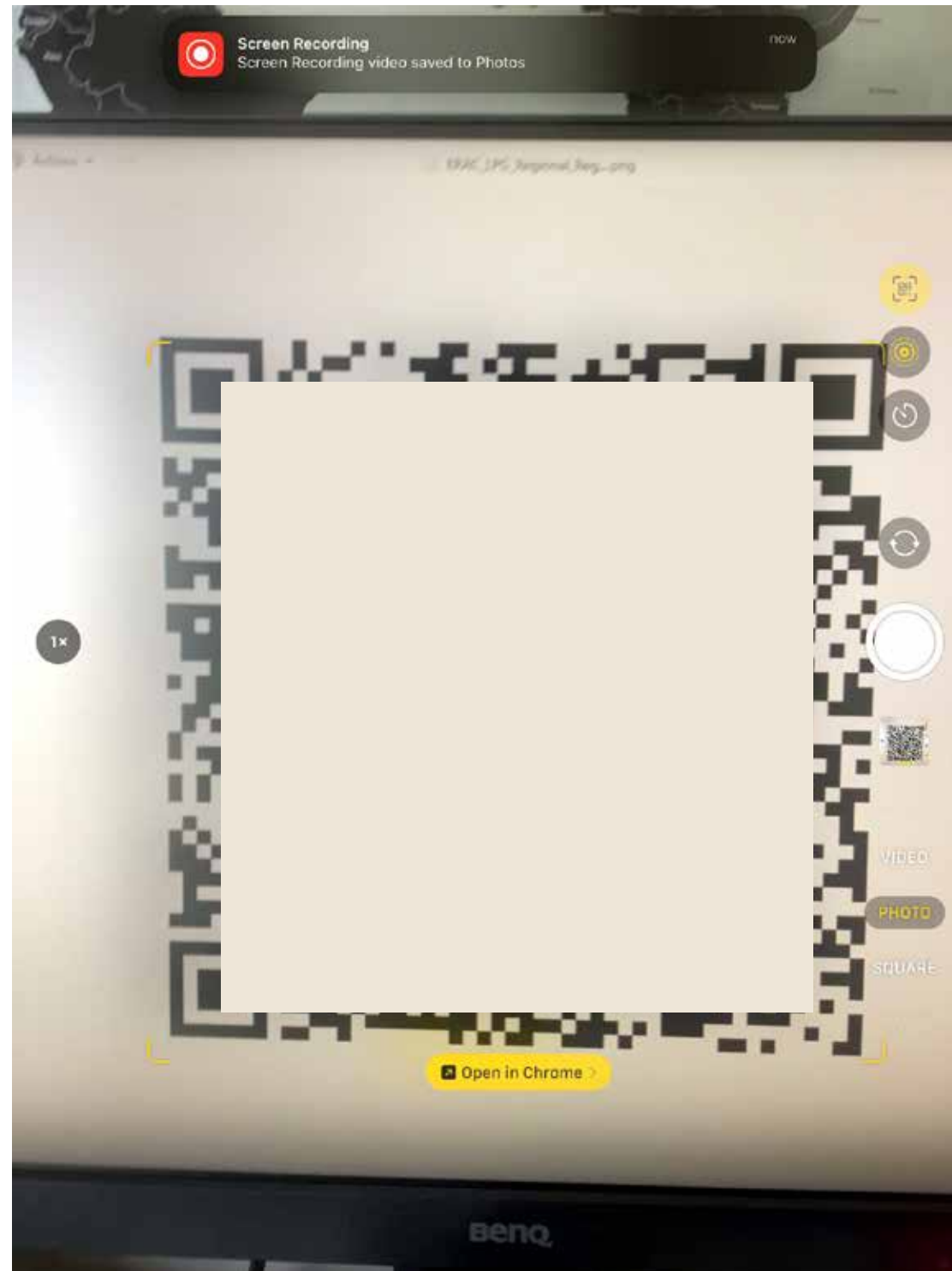
4.2: Formal release from incident was not given.

4.4: Debriefing was not comprehensive.



ERAC

Smart Forms – Self-Registration





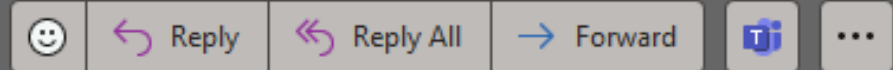
ERAC

Smart Forms – Self-Registration

ERAC Regional Training and Assessment - Registration Confirmation



GIS Services
To vinzafy@gmail.com



Wed 2023-09-20 2:27 PM

Thank you for registering to ERAC's Regional Training and Assessment event.

Please confirm the details submitted (seen below) are correct as it is what will be stored in our database and placed on certificates.

If any adjustments are required, please reply to this email with the proper information, or notify your ERAC assessor.

Participant Type: Team Lead

Team Lead Type: Primary

Name: Kobe Zafra

Email Address: vinzafy@gmail.com

Phone Number: 5873495884

Emergency Response Assistance Canada (ERAC)

2700, 715 - 5th Ave SW

Calgary, AB T2P 2X6

<https://www.erac.org>



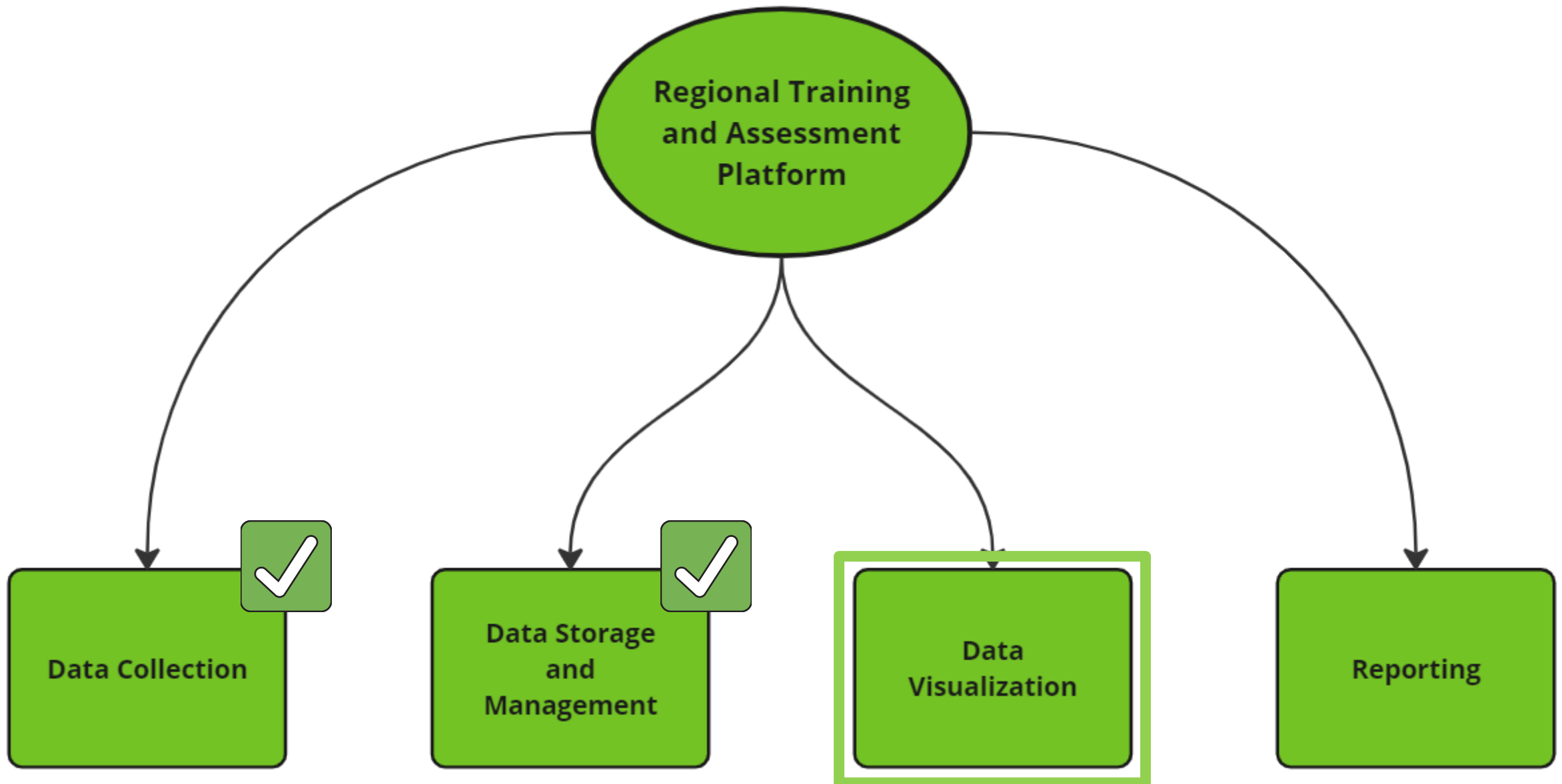
ERAC

Smart Forms – Team Assessment



ERAC

Required Components





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Operations Dashboard



ERAC

Scorecard Log

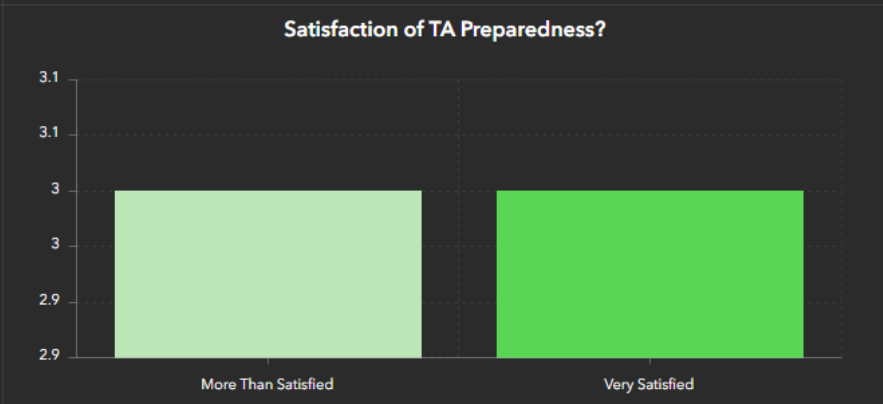
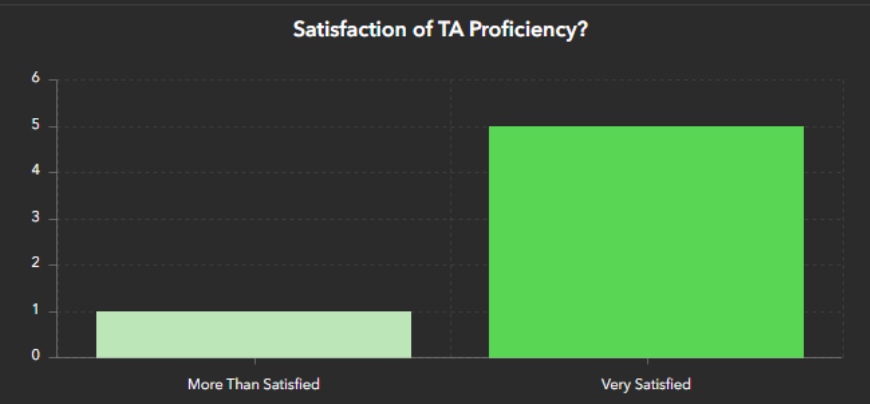
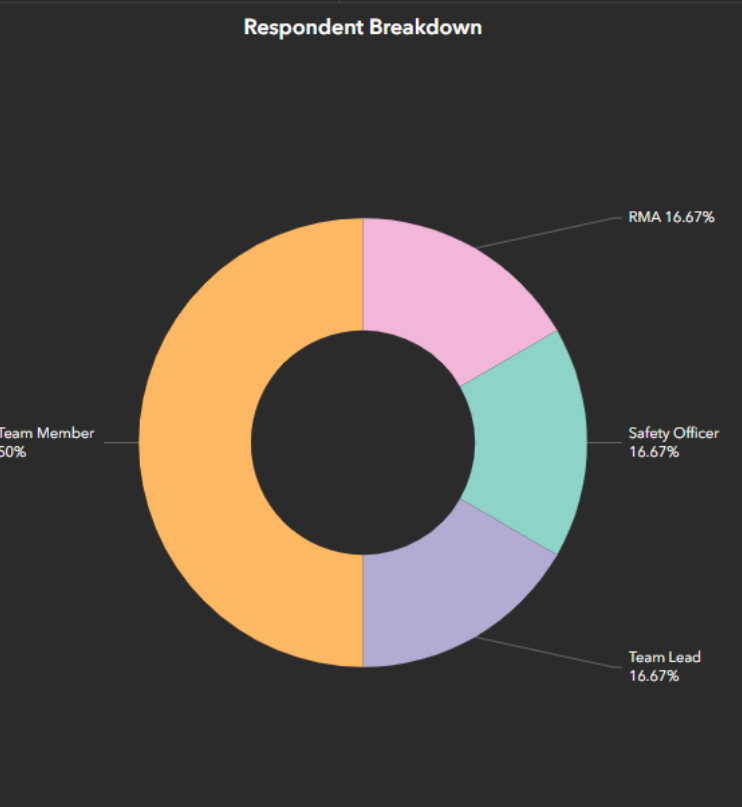
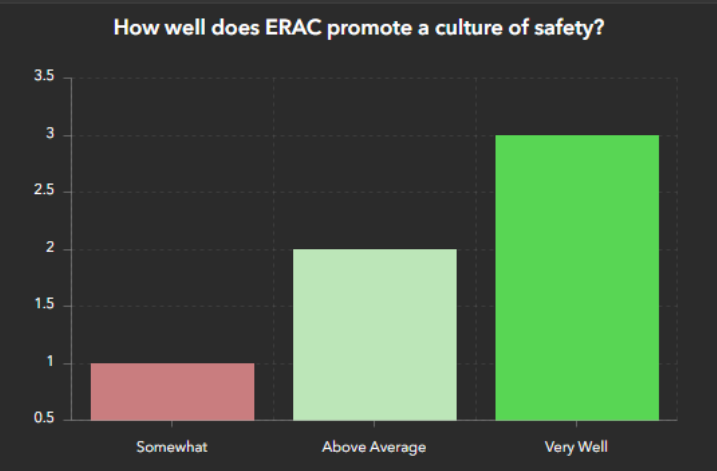
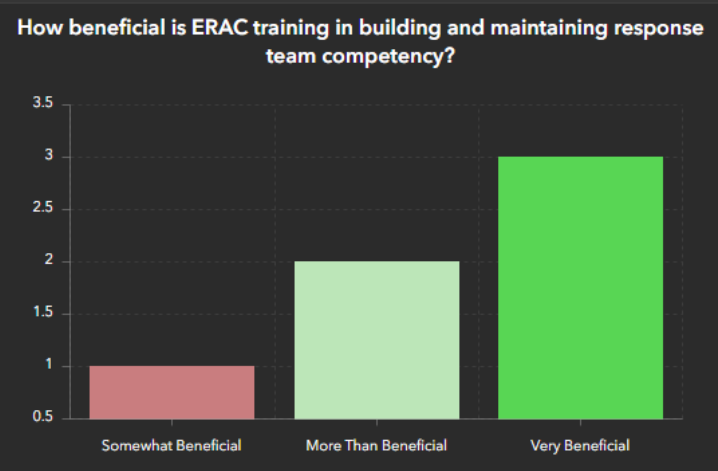
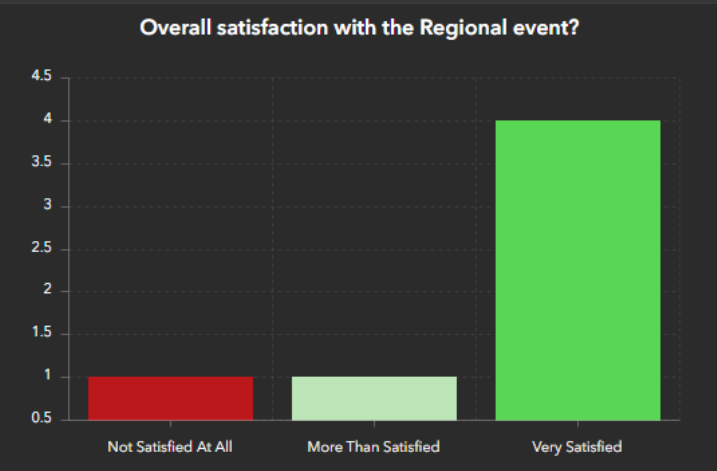


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Attendee Feedback Survey

Regional Training and Assessment Feedback Results Status Demo Event Name Any Event Type Any Response Team Any Year Any

Results from
1
Event
With
6
Total Respondents





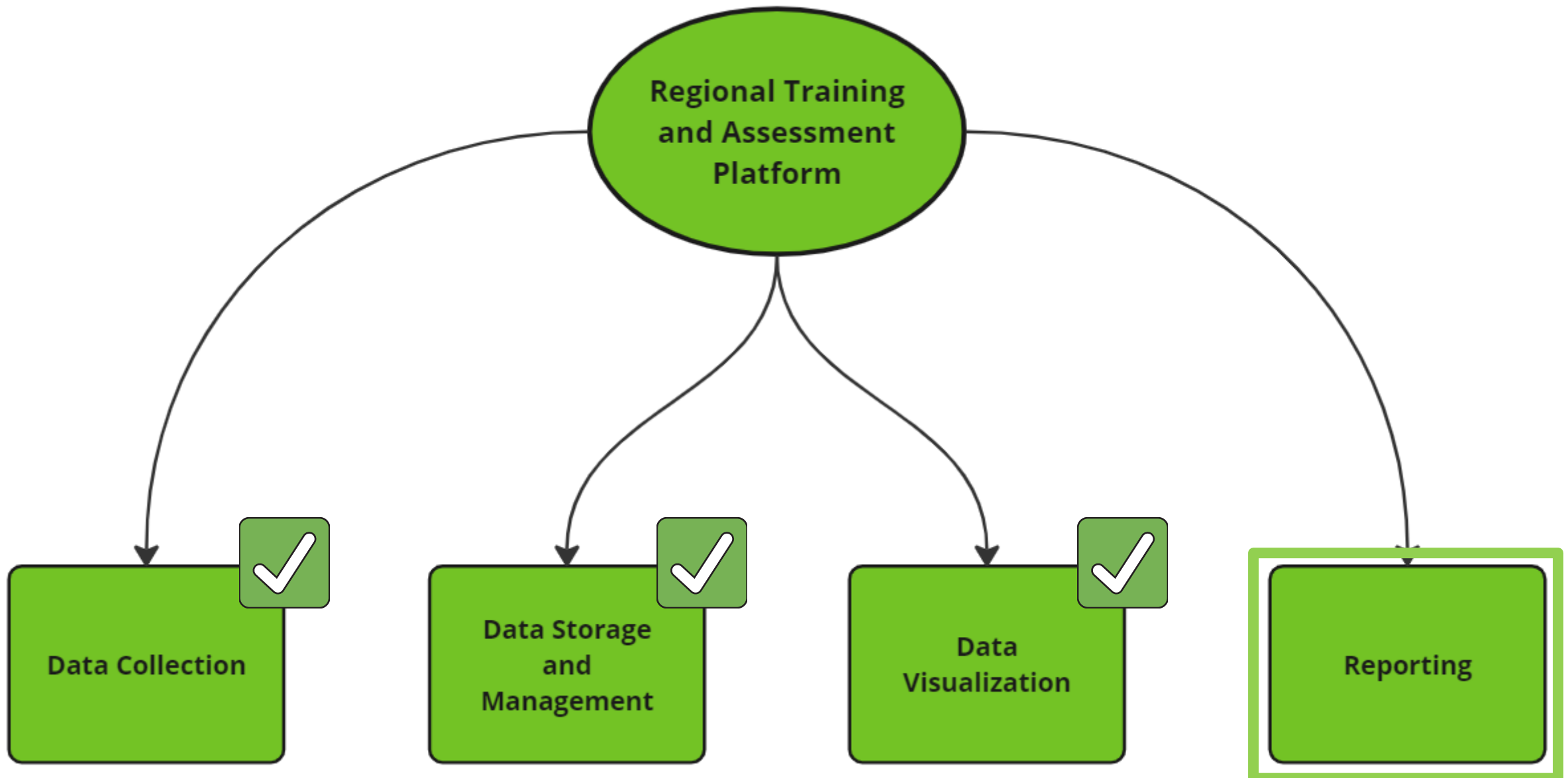
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Attendee Feedback Survey



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Required Components





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Automated Reporting



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Summary

- Supports risk and quality management objectives
- Standardized deliverables and assessment process
- Scorecard log for reviewing and accountability
- Regulatory and contractual compliance
- Gather crucial feedback for continual improvement



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ERAC's Four Pillars of Service

- Emergency Response Planning
- Dangerous Goods Response
- Dangerous Goods Responder Training and Assessment
- **First Responder Training**



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Firefighter Training

Firefighter Training



Registration and Waiver (PUBLIC)



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Firefighter Training



ERAC

Firefighter Training



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ERAC's Four Pillars of Service

➤ Emergency Response Planning



➤ Dangerous Goods Response



➤ Dangerous Goods Responder Training and Assessment



➤ First Responder Training





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Contact Information



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