

April 28, 2021

Subject: Use-case his is the story board of the Enbridge gas pipeline explosion occurred near Prince George, BC, incident no. INC2018-142 on October 9, 2018.

Dear Collaborator,

Platoi is a Canadian cleantech company, and we have developed AI-based products using satellite measurements that can, on an early onset, detect and predict Oil & Gas leaks and spills caused by operational, natural, and environmental reasons, costing the global industry billions annually. Our technology continuously provides our customers with actionable intelligence and insights to act ahead of the threats!

Our GENWS Detector™ has successfully detected hundreds of leaks and spills and predicted many incidents in North America and across the globe!

This is the story board of the Enbridge gas pipeline explosion occurred near Prince George, BC, incident no. INC2018-142 on October 9, 2018.

- We applied our GENWS Detector™ to test if we could identify the Enbridge incident.
- We blindly rolled back in time **61 days before** the Oct. 9, 2018 pipeline rupture.
- After continued processing of satellite measurements using our AI technique on the location of the incident, GENWS detected a series of leaks starting 41-days before the incident up until one day before the rupture.
- There were enough warnings to prevent this major incident. Had our technology been mature and deployed to monitor the pipeline before the incident, there would have been a series of serious warnings generated by the system to Enbridge, so they could act before the incident took place; the last of these warnings was on October 8, 2018, one day before the explosion with 100% confidence indication of gas leaking.
- We could have helped prevent this incident based on our current GENWS technology capabilities.

Please see the content below in which we document: a) a table listing the development of the Enbridge incident, 41 days before the rupture up to the day of the incident; b) the successful results of applying our technology across tens of incidents in the United States and Canada; and c) GENWS Detector™ high level architecture using only satellite measurements.

This is a technical breakthrough, unique and first in the world, leading in both academic research and industrial application -a game changer!

Sincerely,

Gus Nuweiri, CEO, Platoi Industries Inc.
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a) TABLE I: TABLE LISTING THE DEVELOPMENT OF THE ENBRIDGE INCIDENT IN QUESTION 41 DAYS BEFORE THE RUPTURE

Our team sat-up GENWS Detector™ to monitor the Incident locations On Aug 9, 2018, sixty-one (61) days prior to the October 9, 2018 pipeline rupture.

- **From August 8 until August 27:** No leak detection was reported by GENWS, *not shown*.
- **From Aug 29 until October 8:** Six (6) leak detections were reported by GENUWS with high confidence as seen below in the leak tracking summary table.

Leak Tracking Summary Table: August 27 – October 13, 2018

Incident Number	Incident Name	Incident reported date	Platoi detection date	Days before the incident	Probability of Leak	Detection result
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	August 27,2018	43	0.0000%	
• INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	August 29,2018	• 41 •	• 99.6135% •	Leak detected
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 1,2018	38	0.0000%	
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 3,2018	36	0.0001%	
• INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 6,2018	• 33 •	• 99.6956% •	Leak detected
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 8,2018	31	0.0000%	
• INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 11,2018	• 28 •	• 99.2004% •	Leak detected
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 13,2018	26	0.0000%	
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 16,2018	23	2.1504%	
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 18,2018	21	0.0189%	
• INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 21,2018	• 18 •	• 85.1275% •	Leak detected
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 23,2018	16	0.0624%	
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 26,2018	13	0.0000%	
• INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	September 28,2018	• 11 •	• 99.9992% •	Leak detected
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	October 1,2018	8	3.7017%	
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	October 3,2018	6	0.0000%	
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	October 6,2018	3	20.6781%	
• INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	October 8,2018	• 1 •	• 100.0000% •	Leak detected
• INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	October 11,2018	• -2 •	• 57.1251% •	Leak detected
INC2018-142	Enbridge_2018_gas_explosion	October 9,2018	October 13,2018	-4	0.0000%	

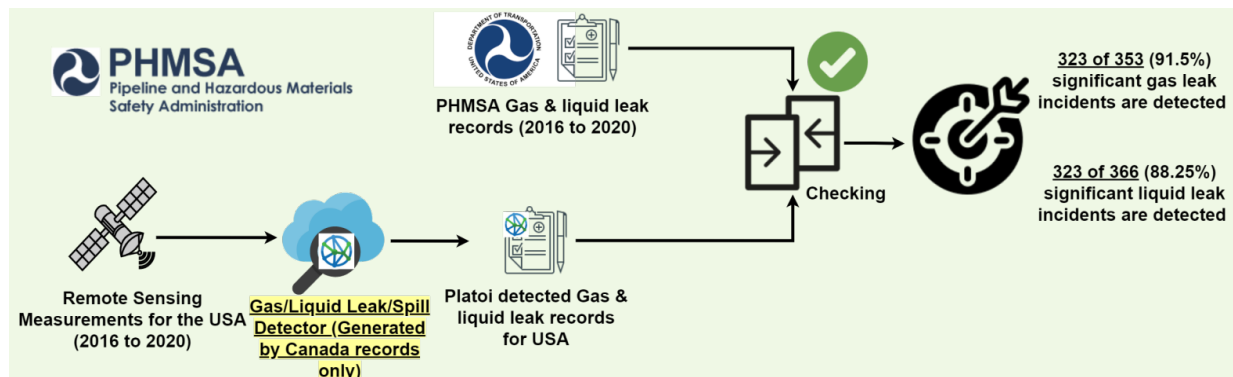
Last warning was on October 8, one day before the incident. The AI Detector confidence level is at 100%	
6 warnings were generated by the Gas leak detector before the incident date. Most of them with high confidence	
Two days post incident - Gas is still present in the area	

b) SUCCESSFUL APPLICATION OF OUR PROVEN TECHNOLOGY ACROSS HUNDREDS OF INCIDENTS IN THE UNITED STATES AND IN CANADA

Platoi's team applied GENWS-Detector on more than 1100 significant Oil and Gas leak incidents. The following links are Performance-Reports about Platoi technology on these incidents in the USA covering

- Gas distribution: <https://datastudio.google.com/reporting/7b6f8698-1d67-41d9-8bcd-f50786b7f4f5>
- Gas transmission & gathering: <https://datastudio.google.com/reporting/a089718b-6ab0-4372-819e-999636ce8cf6>
- Hazardous liquid: <https://datastudio.google.com/reporting/5a71cb28-6bcc-425b-8718-9f8132543357>

Proven Technology



c) HIGH LEVEL ARCHITECTURE OF OUR TECHNOLOGY USING ONLY REMOTE-SENSING SATELLITE DATA

Active data-driven deep-learning engine that is already detecting and identifying the location of Oil and Gas leaks and spills on and around transmission Oil & Gas pipelines systems! Detected locations are supported by actionable geotechnical insights and advanced analytical reports for immediate response.

Actionable insights under real-time delivery

