

ALBERTA INNOVATES CLEAN RESOURCES

ADVANCED HYDROCARBONS

CLEANER HYDROCARBON PRODUCTION – DIGITAL OILFIELD

FUNDING DETAILS

Augmented Intelligence Lowering CO2

Develop, test, and implement an Augmented Intelligence platform for blue collar workers. The platform combines data visibility with decision guidance to operate by exception, an emerging best practice where technology filters data and illuminates the best decisions. Industry case studies show this practice can reduce operating costs by more than 15% and improve environmental performance. The EZOPS platform would eliminate cognitive load on field personnel, ensuring field teams are systematically performing at the highest level, with a focus on decreasing both OPEX and GHG emissions specifically in the Upstream Oil & Gas industry.



RECIPIENT:
EZOPS Inc.



PARTNERS:
AMII, Birchcliff
Energy, Peyto
Exploration, Gear
Energy



TOTAL BUDGET:
\$2,270,000



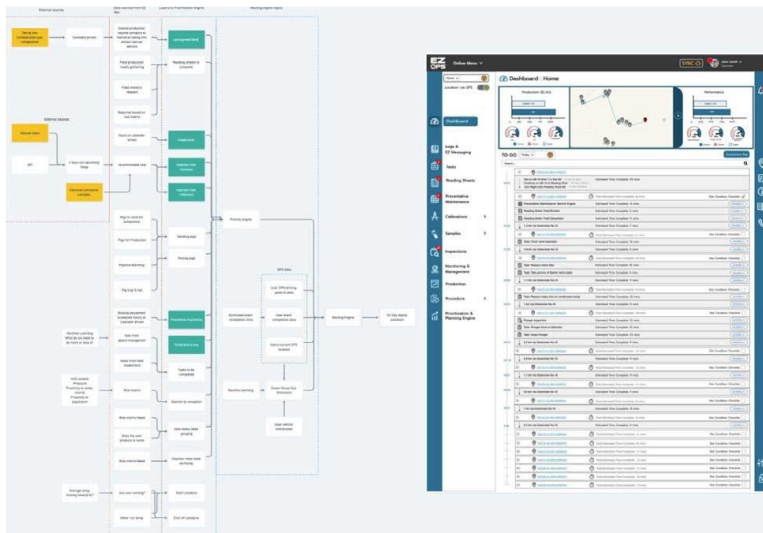
AI FUNDING:
\$1,060,000
(TIER ERP)



PROJECT DATES:
January 2021 –
January 2023



PROJECT TRL:
Start: 6
End: 9



APPLICATION

This project will bridge the gap between Artificial intelligence and Blue Collar workers in the Upstream Oil & Gas industry, enhancing performance of front-line teams. Leveraging machine learning, data analytics, geospatial technology, and augmented intelligence, the EZOPS 2.0 product equips producers to reliably meet or exceed environmental standards - making it essential to producers including oil and gas ESG leaders. Use of EZ Ops technology also reduces operators driving time by millions of kilometers.

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PROJECT GOALS

This project will accelerate the development of the EZ Ops 2.0 augmented intelligence platform product development. At the core of 2.0 is a prioritization engine that uses a complex algorithm to synthesize hundreds of factors, including greenhouse gas emission compliance, to guide operators to the best actions to take each day.

The goal of this project:

- Leverage machine intelligence to enable field teams to individually perform at the highest level
- Reduce OPEX costs for producers by \$2.34/boe
- Extending producing economic well life
- Unlock 51mmBOE in potential reserves
- Set the trajectory to reduce CO2 emissions by 7,525,000 tonnes/year by 2030

BENEFITS TO ALBERTA

It is forecasted that by 2030, EZ Ops 2.0 impact with customers could save 1.4 million tonnes/year of carbon from being emitted into the atmosphere, and lower Canadian oil and gas producers operating expenses by 15%. By 2027, it is forecasted that 39 high paying jobs would be created with the EZOPS team in Alberta.

This project will:

- Create 15 high quality full time jobs
- Repurpose/enhance skilled field workers
- Bring global intellectual and financial capital to our Alberta Artificial intelligence ecosystem
- Increase industry competitiveness by reducing OPEX which in turn will encourage global investment in our energy sector
- Grow royalty payments, and field jobs due to extended economic well life



**1 Students
Trained**



2 Patents Filed



15 Project Jobs



37 Future Jobs



**1 New
Products/Services**



1 Publications



**80 kT/yr Project
GHGs Reduced**



**7,525 kT/yr Future
GHGs Reduced**

CURRENT STATUS

May 2021

Project investment agreement executed and kicked off in January 2021. EZOPS 2.0 is currently in the Product Development process.