BEARD

Borehole Enhanced and Automated Realtime description

Martin Blouin

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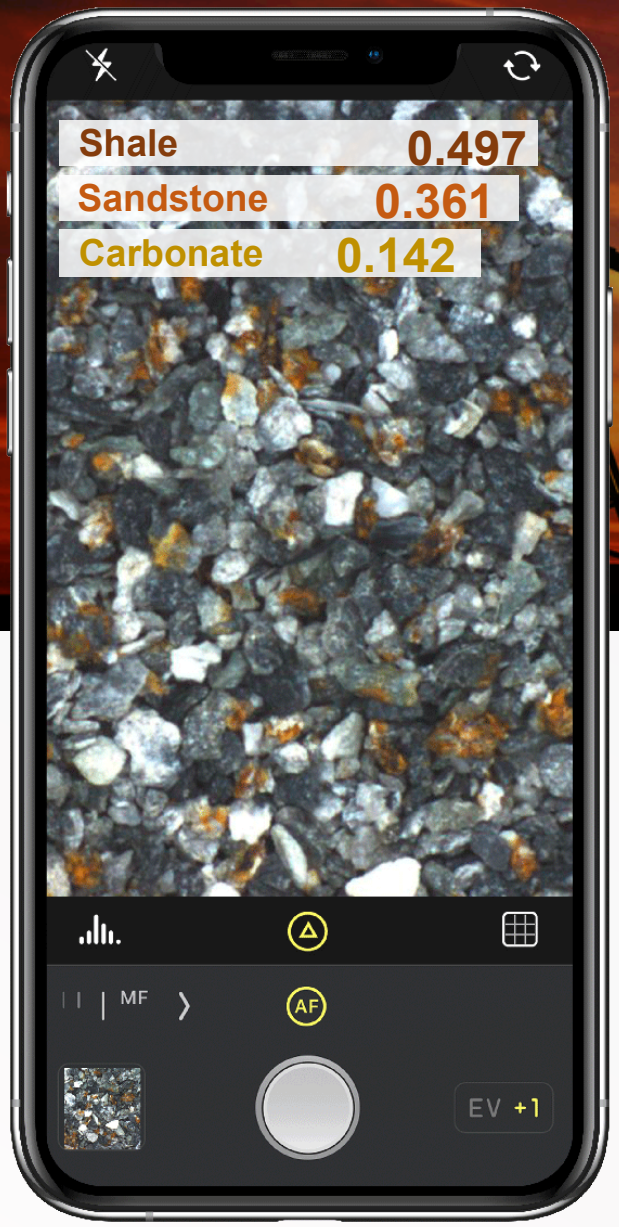
www.geolearn.ai

Borehole Enhanced and Automated Realtime Description

BEARD



database traininig

Machine learning algorithms are trained on a database of core libraries photos

deployment on the field

BEARD automatically describe rock chips from photos

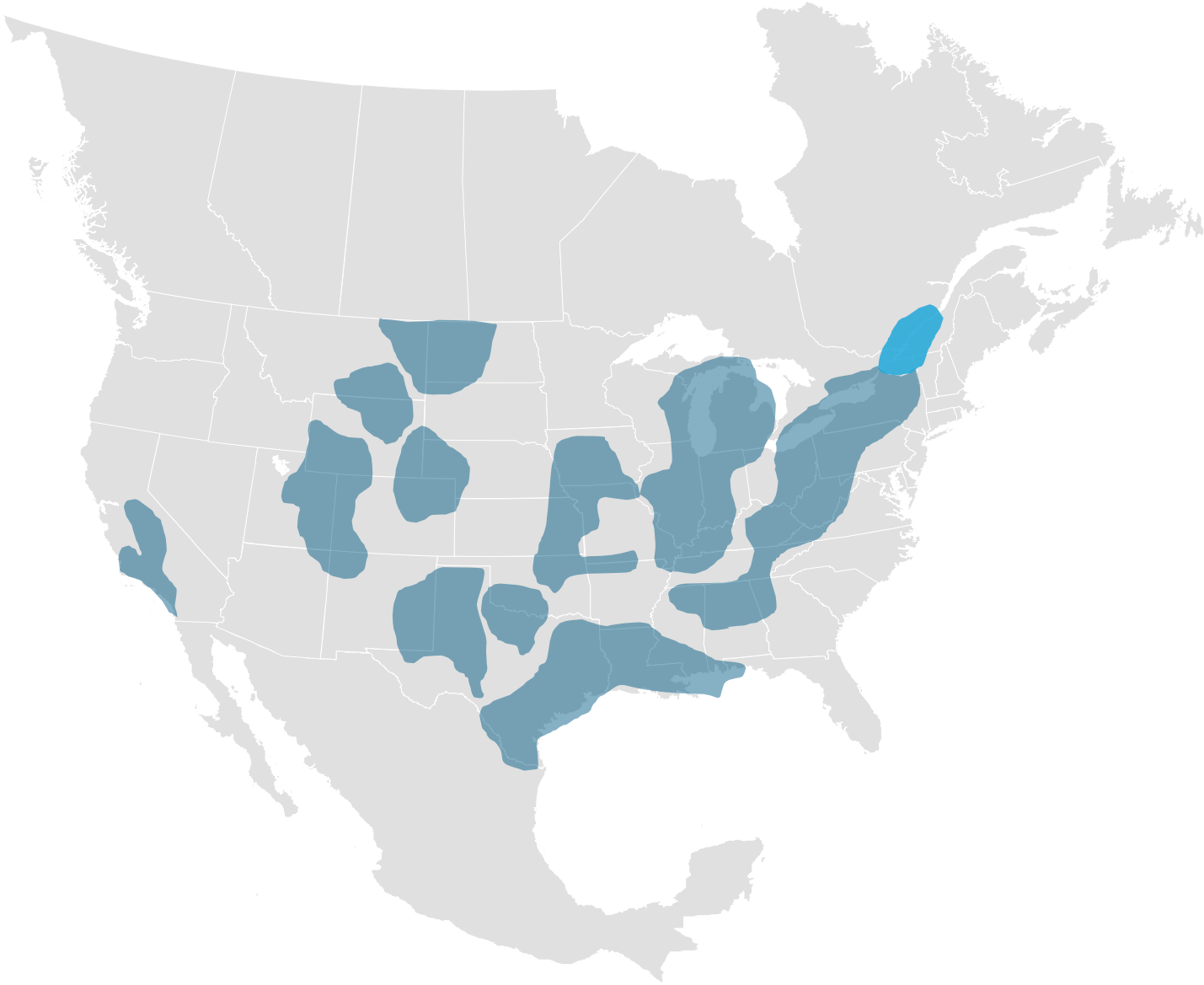
GEOLEARN

Why we are here

BEARD actually under development/deployment

Short term potential for BEARD

Long term potential for BEARD



Meet the team

Martin Blouin, PhD

Cofounder and CEO

As a CEO, researcher and scientist, Martin leads the majority of the projects related to artificial intelligence.
He has a 10-year experience in geophysics and data integration applied to geosciences.

Lorenzo Perozzi, PhD

Cofounder and VP

As a researcher and entrepreneur committed to ethics in the implementation of AI, Lorenzo was recruited to participate in the co-construction of the Montreal Declaration for a Responsible Development of Artificial Intelligence . He ensures that this aspect is being reflected in all activities of Geolearn.

Jérome Simon

Technical Director

Jérome ensures the integrity of databases and the reliability of the results. Propelled by his experience with digital methods in science, he develops interpretation techniques combining computer vision and artificial intelligence

JS Marcil, ING., MSc

Product Development Manager

With 20 years of E&P experience, JS is in charge of product development at Geolearn. Based on its field background, JS directs product development activities to Geolearn's various customers, from design through to production

Our vision

Geodata, **enhanced!**

We research, design & build AI technologies to help our clients solve real-world problems using geodata and reducing uncertainties.

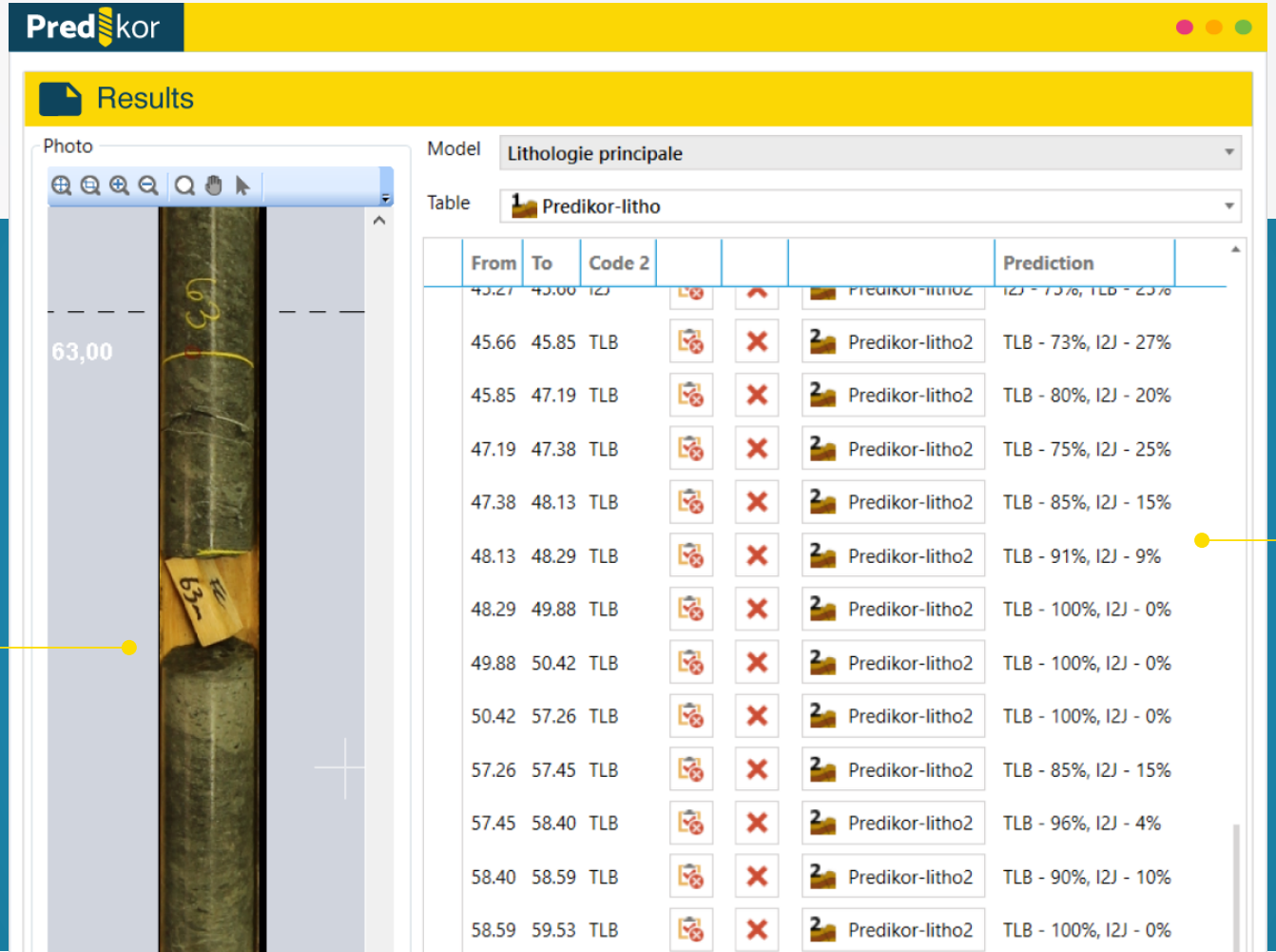
Our mission

Delivering more than products and services building blocks for a growing community

At Geolearn, we believe that Artificial Intelligence has the power to disrupt the geoscience industry in a positive fashion, if done the right way. Our team is dedicated at making sure your data go the extra mile with those technologies and at getting you involved in the process.

Example of success: Predikor

A change of pace in core logging



Depth referenced core photos

Predictions

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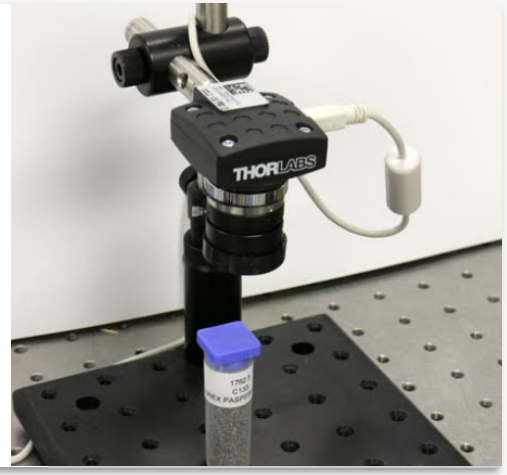
Timeline

2019

July

Image capture suite ready

Fast sampling of core shack database



September

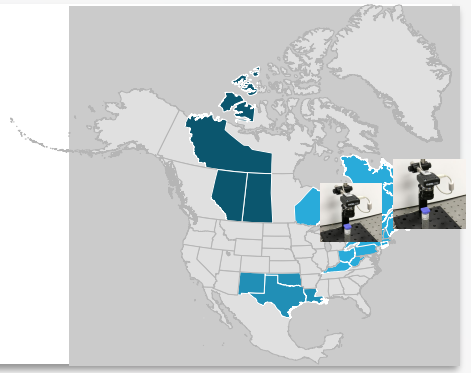
First public core shack completed

Compilation of log and image for St-Lawrence Lowlands

October 2019

Replicating the acquisition tool

Getting a robust workflow to capture more data in Nova Scotia and Ontario



2020

November 2019

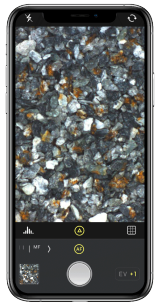
ML algorithms parametrization

Tune and train ML algorithms to create predictive models

February 2020

Hand-held prototype
Ready for pre-launch

Getting the predictive tool to our beta tester



April 2020

BEARD

Commercial launch

Active research of public and private partners with core shacks

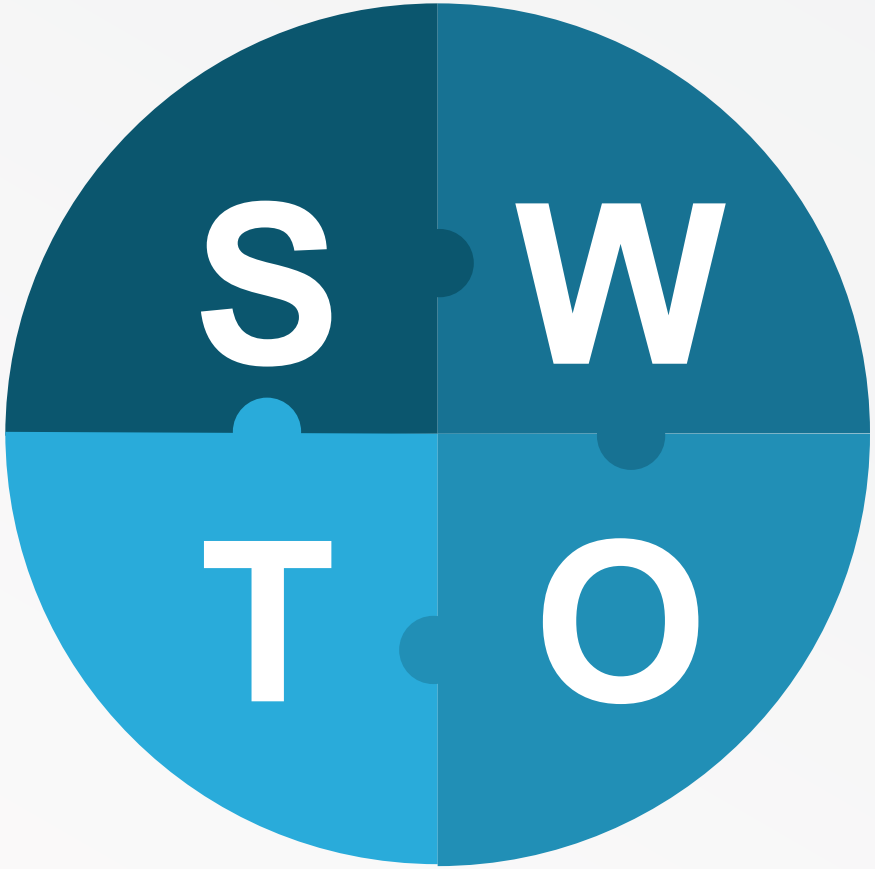
SWOT Analysis

Strengths

- Sound experience in AI applied to geosciences
- In-house workflows already adapted for this product

Weakness

- Resource limitations
- Geographic location



Threats

- Emerging competitors
- Rapid saturation of the market?
- Big players with massive resources

Opportunities

- Underserved market
- Few (or no) competitors
- Emerging need for the product
- Rapid growth

BEARD - Action Steps

PROOF OF CONCEPT

Demonstrate the technical validity of the approach

GATHER MORE DATA

Get deals with public and private coreshack owners

BUILD A COOL TOOL

Get the predictive model in a hand-held format that will facilitate and optimize field work

BEARD

EXPAND THE MARKET

Grow geographically but also target new applications like geotechnical drilling

geo LEARN

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