



Southeast Techhub S.E.T.H.

ICED Rural Presentation

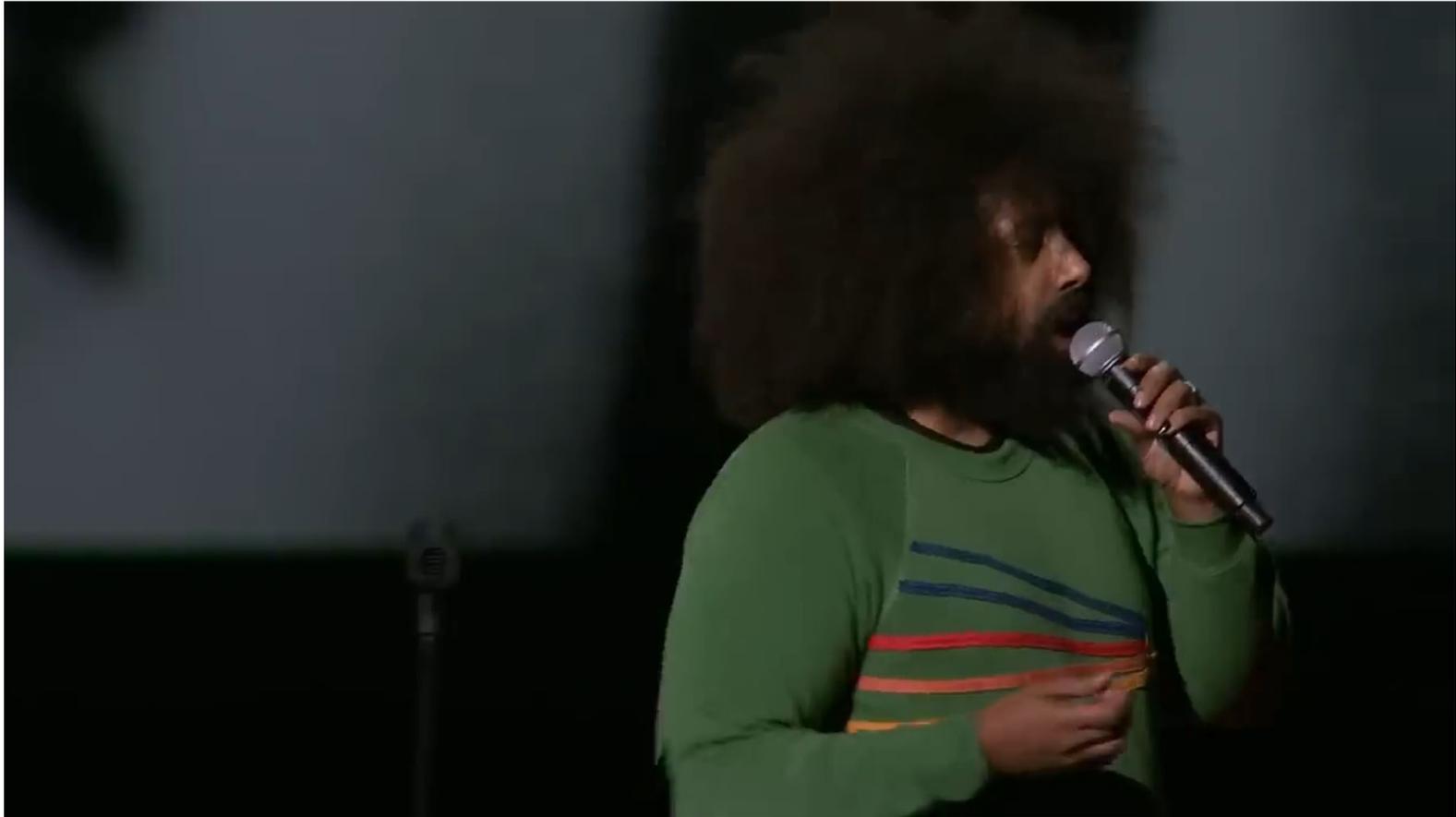
Who am I

Founder and Past-President of IDS
Internet dispatch Services Ltd

Just completed MIT in the Innovation
and Technology Acceleration Program

Executive Director of S.E.T.H.





Reggie Watts – TED Talk



Plain Talk Innovation



“Innovation is the disruption of a process
to make something better”

A large blue circle is positioned on the left side of the frame, partially overlapping a dark blue background. The text is centered within the circle.

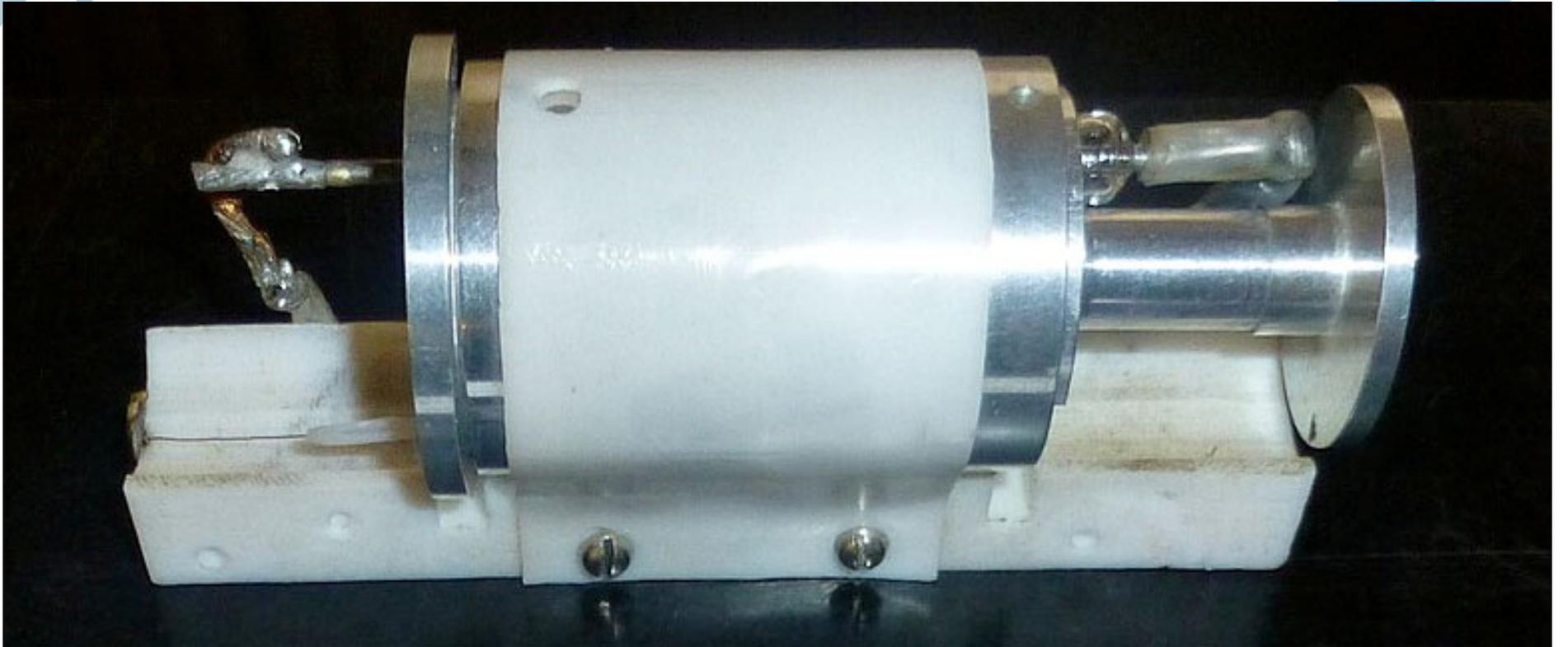
Notice I never said
Technology



Innovation is not the same
as business.....

....Business is not the same
as Innovation.









June 26, 1974

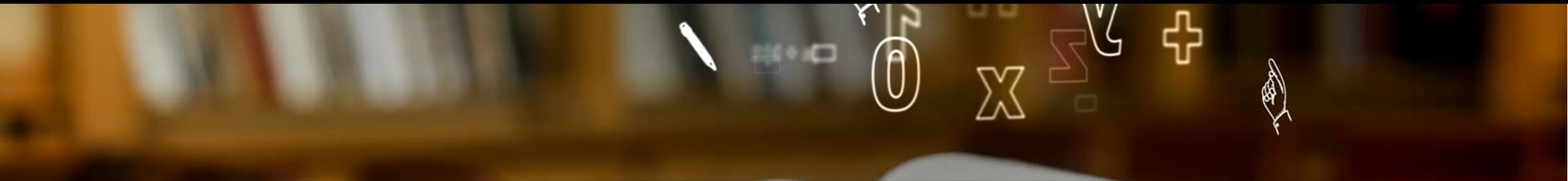


Where Does
Innovation
Begin

Amir Goldberg –
Stanford
Graduate School
of Business



Thesis



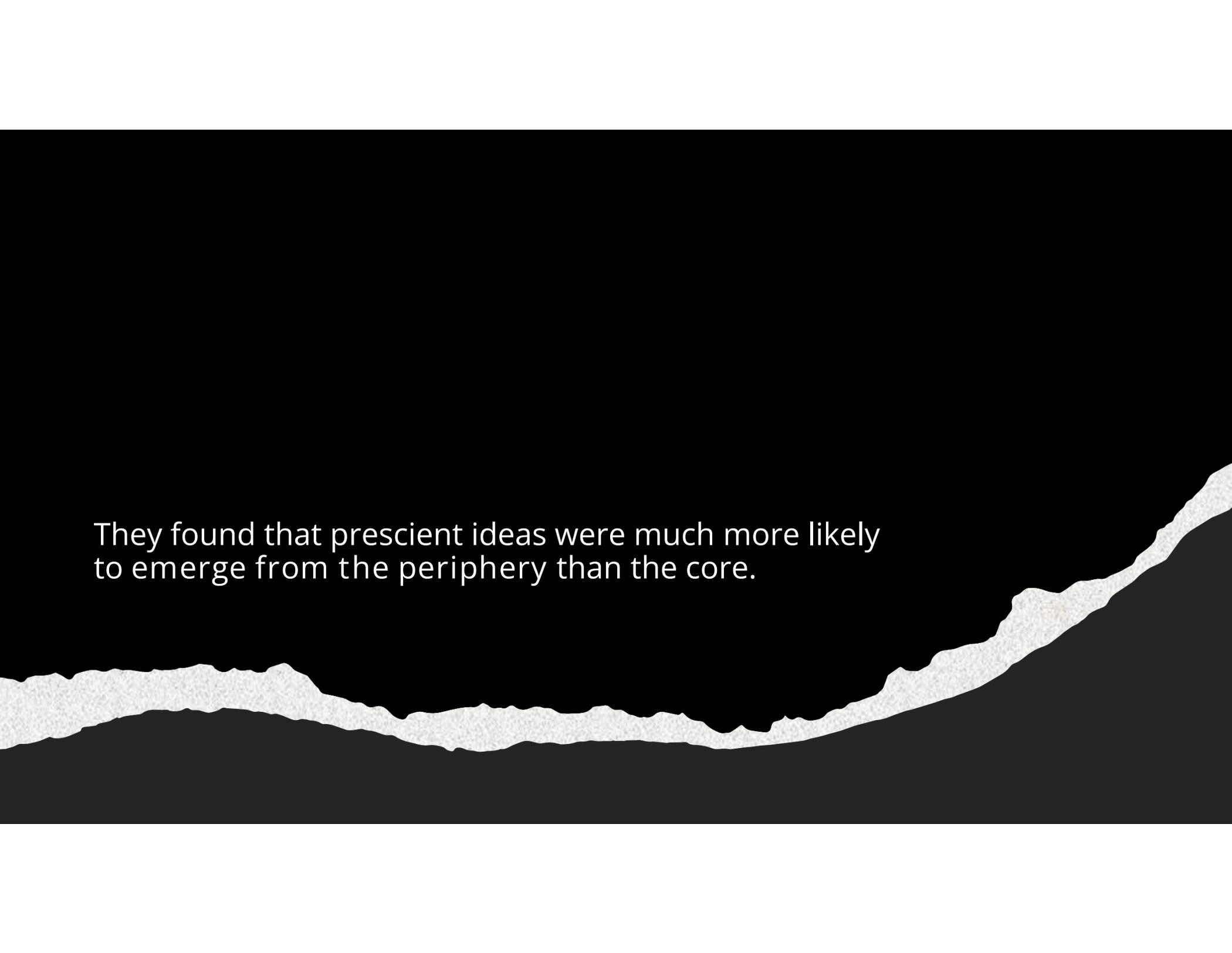
AI programs could digest vast amounts of documents, they wondered if they could deploy these tools to detect early signs of new thinking in language

Some of the most impactful innovations are intangible things like business strategies



They built a dataset of:

- 5 million congressional floor
- Collected 4.2 million court decisions over 50 years
- transcripts of 108,000 quarterly earnings calls



They found that prescient ideas were much more likely to emerge from the periphery than the core.





Rural Innovation

Its who are already are
Its what the worlds



About SETH

The Southeast Techhub (SETH), located in Estevan, Saskatchewan, provides new and emerging technology businesses with an environment that supports their commercialization phase and increases their likelihood of success.





What Have We
Already Done



Innovation Conversations

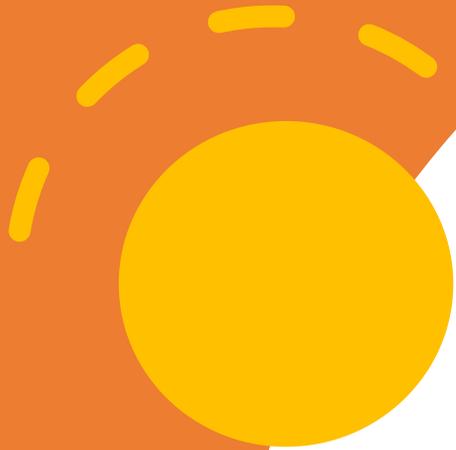
Dr Eric Grimson

Former Chancellor of MIT

From Estevan



- Hosted Southeast Saskatchewan's first Innovation Pitch Competition for \$22,500
- Hosted several presentations including Dr. Eric Grimson, Chancellor of MIT, Dr. Aaron Genest from Siemens, and Ranjith Narayanasamy from the PTRC.
- Directly assisted 10 local start-ups.
- Worked with the education system to start a robot building club, computer science and a drone racing club.
- Hosted two Small Module Reactor Supply Chain events, which provided details to the regional manufacturing industry on participating in the SMR Supply Chain.
- Hosted numerous workshops on topics such as "How to Write a Business Plan" and "Essentials of Fundraising".



What Are We Doing

HYDROGEN

PRINCIPIA, LLC

ESTEVAN, CANADA – ADVANCED ENERGY SOLUTIONS

Joint Venture to Develop State of the Art Technology and Energy Hub

Hydrogen From Lignitic Biomass



**NET ZERO CARBON
EMISSIONS.**



**HIGHLY PROFITABLE
LIQUID HYDROGEN**



**POWERED BY
RENEWABLE ENERGY**



Lowest Cost, Highest Quality

Our Production Cost- **\$1.02 /kg**

Average Production Cost of Green
Hydrogen - **\$7.70 /kg**

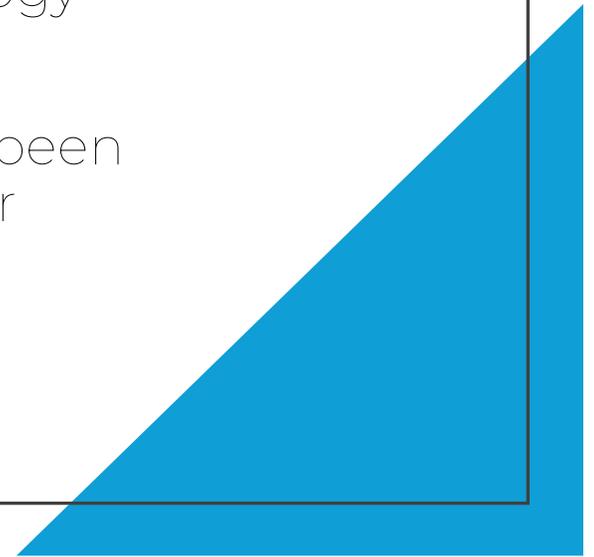


Existing Technology

Using existing **tried and true
technology**

No blue-sky technology

Our technology has been
making hydrogen for
decades





Carbon Capture and Storage

CCS Infrastructure is **already operational**.

Commercial offtakes for CO₂ already
connected

Additional CO₂ Revenue Stream
\$110+ Million USD / Annual

Supply & Offtake Agreements



LETTERS OF UNDERSTANDING
COMPLETED.



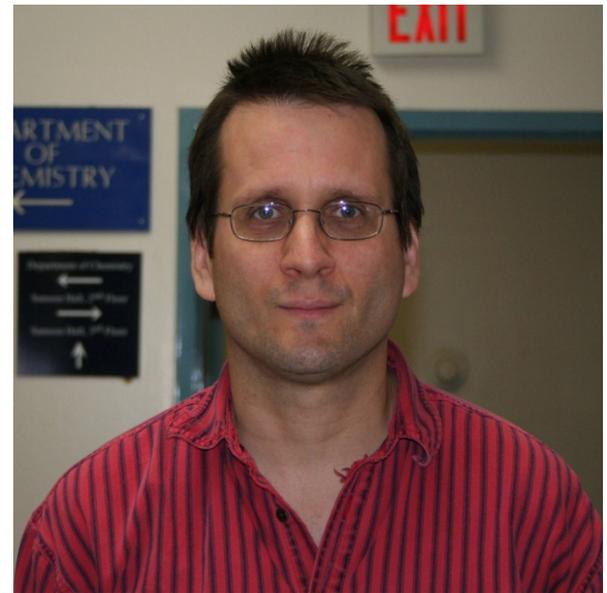
LARGE WELL-KNOWN
PARTNERS.



Lignite Biomass to Graphite

Lignite Biomass to Graphite

Dr Michael J. Wagner
George Washington University
Department of Chemistry
Columbian College of Arts & Sciences



Using lasers

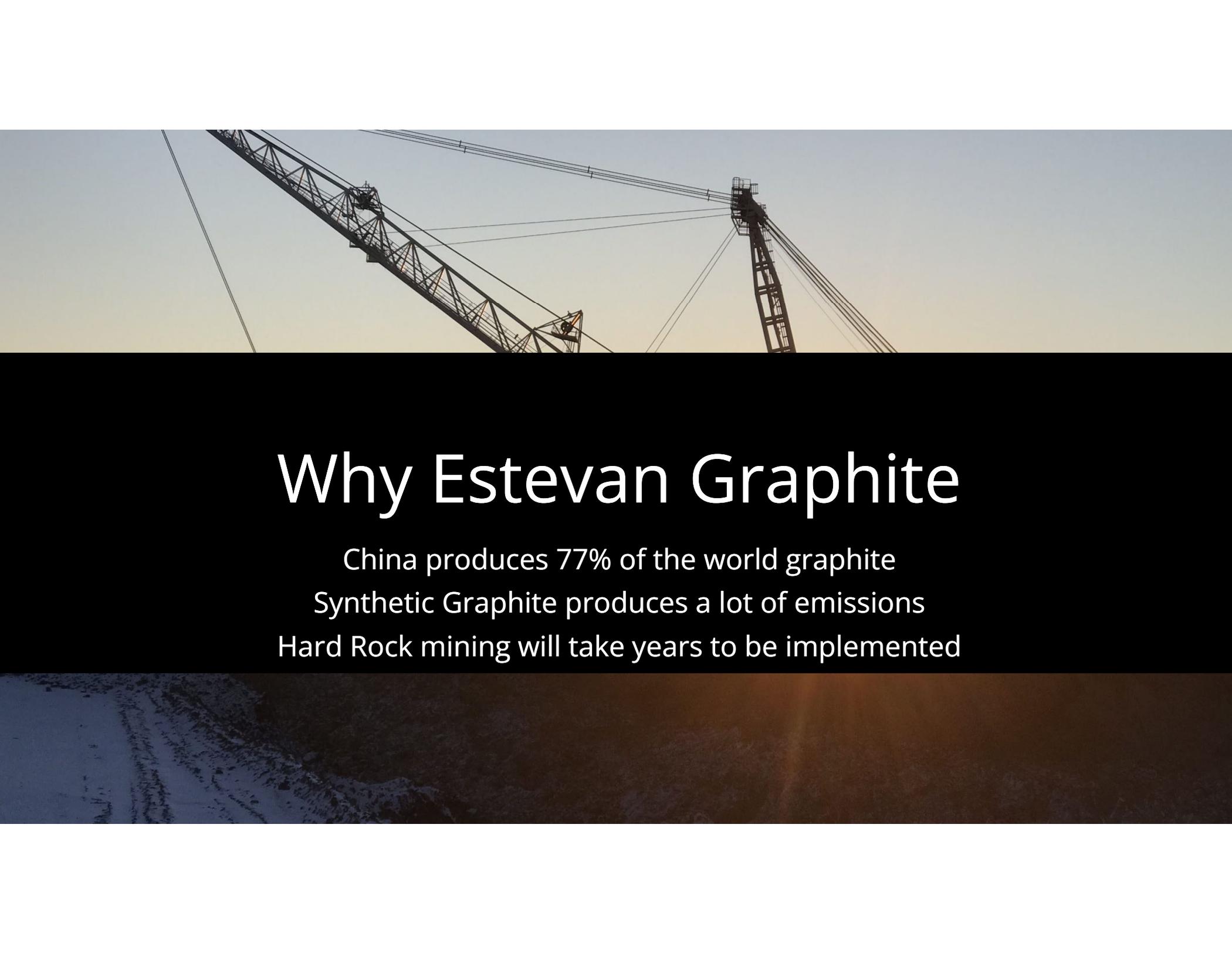
In the lab, we have already:

- Used 1 KW lasers to zap our lignite to create graphite.
- Created batteries and charged and discharged them.



Next Steps

- Collecting data using 12 KW industrial laser
- Collect the data we need to build our Estevan Facility.
- Completed Facility will create one half million tons of graphite per year



Why Estevan Graphite

China produces 77% of the world graphite

Synthetic Graphite produces a lot of emissions

Hard Rock mining will take years to be implemented



Innovation Centre for Energy Development

Why Estevan?



Because of our
Environment



-40C winters to +40C
summers



Our powerful winds

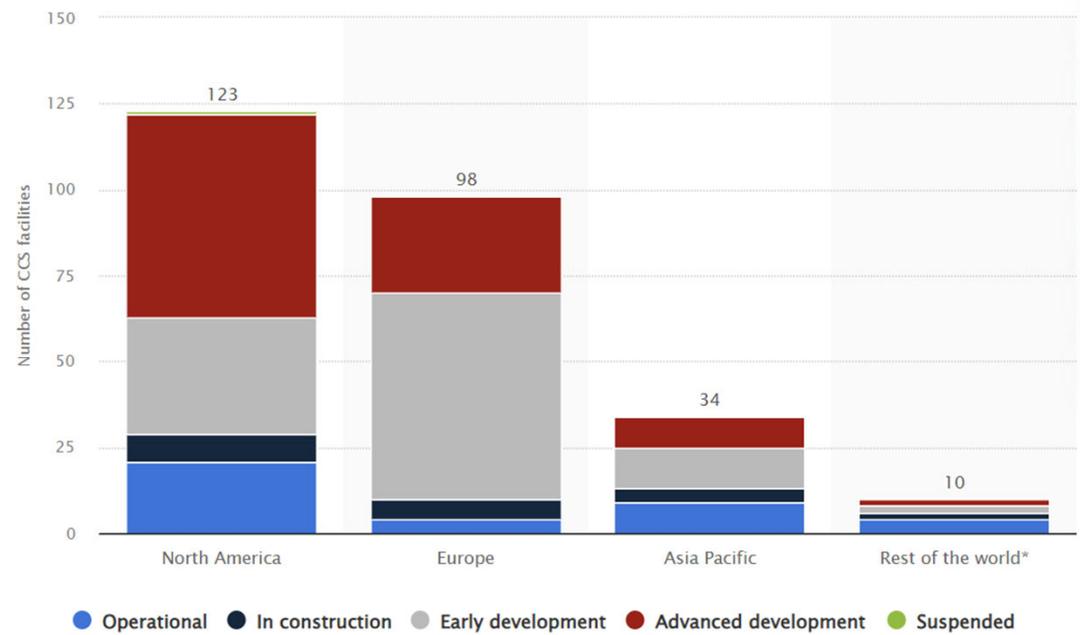


2500 hours of
sunshine



Hot but deep
geothermal formations

CCS Infrastructure



[Additional Information](#)

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Connections to NAFTA Nations

Only 15 minutes away, via
long-haul truck, from the
largest GDP in the world.

CP Rail proposed merger
with Kansas City Southern
connects us with all 3
NAFTA Nations.



Aerospace

Estevan's Regional Airport has 2 paved runways.

The critical aircraft is a Boeing 737

Situated in Class G uncontrolled airspace, with little air traffic

Agriculture

Saskatchewan has 60.3 million acres which is the largest share in Canada at 39.2%.

Plus direct access to:

- North Dakota - 39.3 million acres.
- South Dakota - 43 million acres.
- Montana's - 58 million acres

