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Opportunities in the Saskatchewan Mining Supply Chain

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Monique Lischynski

Manager, Supply Chain Development Ministry of the Economy



Safety Moment





Ministry of the Economy

- Mission to: "advance economic growth to generate wealth and opportunity in Saskatchewan."
- It has three core lines of business:
- To advance and regulate responsible resource development
- To develop, attract and retain skilled workers
- To enhance economic growth and competitiveness in the province.

Provide a more integrated approach to the province's economic growth.



Economy – Supply Chain

Overall:

To increase local goods and services content in resource industries including mining, energy and value added agriculture industry.

- To assist local companies to understand supply opportunities
- Team of three: Michele Grella, Shelley Kent, Monique Lischynski



Outline

- Overview of minerals exploration and production
- Overview of supply chain opportunities
- Examples of goods and services required
- What is important to buyers
- Strategies for market entry
- Resources
- ECON's roles and services



Overview

- Between 2008 2012, mining companies in SK will have invested over \$15 B in projects
- From 2008 2028 mining companies in SK will invest over \$50 B in new projects
- >30,500 employed in industry
- Over \$2.5 billion annually on wages, goods, services





Overview

Industry Drivers:

- Expanding global population
- Growing middle class in developing countries
- Increase need for food quality, power and industry
- Increased energy consumption
- Increased crop production



Saskatchewan Rich Endowment of Minerals

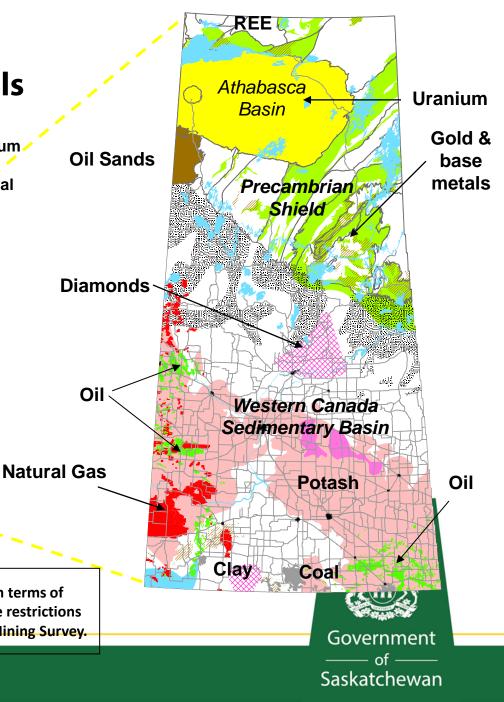
World's largest potash producer and 2nd largest uranium producer

• Canada's 2nd largest oil producer and 3rd largest natural gas producer



651,036 km²

Ranked 1st in Canada and 5th overall out of 96 jurisdictions in terms of Mineral Potential, assuming current regulations and land use restrictions (ie investment attractiveness) in 2012/13 Fraser Institute Mining Survey.



Saskatchewan Value of Mineral Production



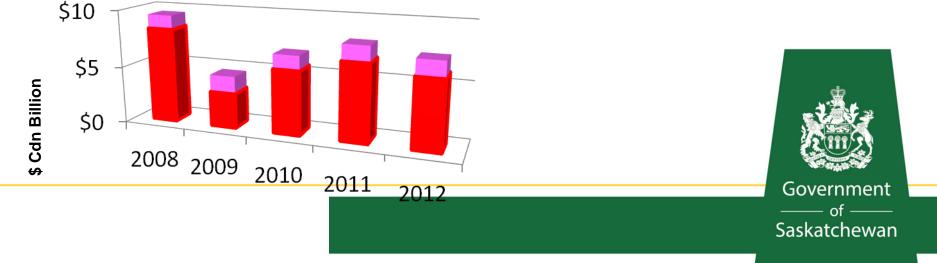
Value of Saskatchewan Mineral Production \$ Cdn B, 2008-12

2012

 Production: Potash, uranium, coal, gold, silver, salt, sodium sulphate, potassium sulphate, bentonite, silica sand and kaolin;

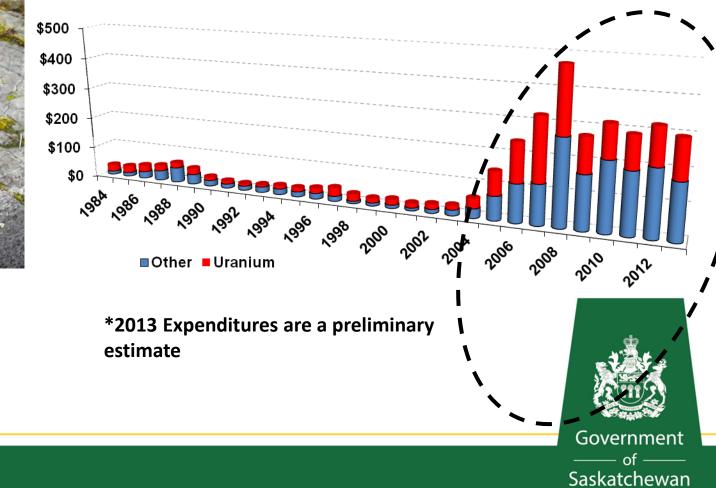
Position in Canada (value of production):

- In top 3
- 1 in 2008;
- 3 in 2012



Saskatchewan Mineral Exploration: 1984 – 2013





Saskatchewan Uranium: Exploration and Development Activity





2014:

Mining of high grade Cigar Lake
 deposit begins

2013:

- McClean Lake Mill restarts
- 3 Projects at Feasibility/Prefeasibility
- 7+ Advanced Stage Projects

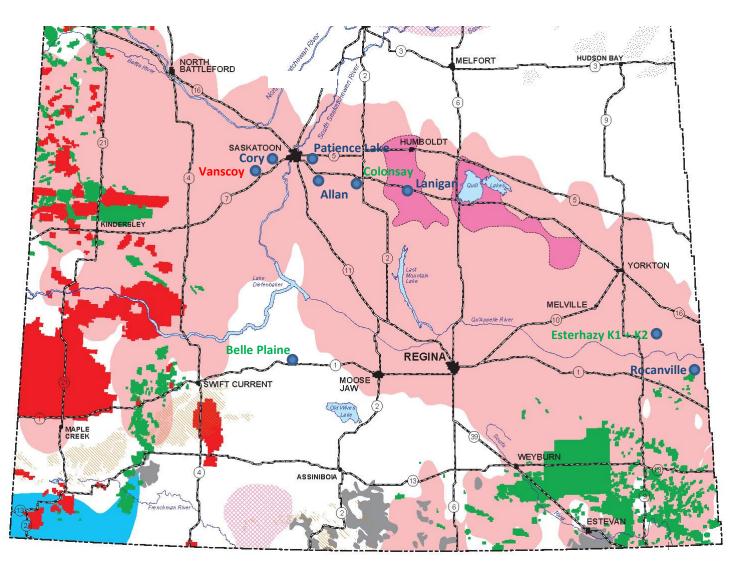
Exploration 2003-2013:

- \$1.2 Billion spent
- 16+ new discoveries from 100's of projects

Production by 2017 could climb to 17,000 t/U



Saskatchewan Potash Mines



Agrium PotashCorp Mosaic

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Saskatchewan Potash Production

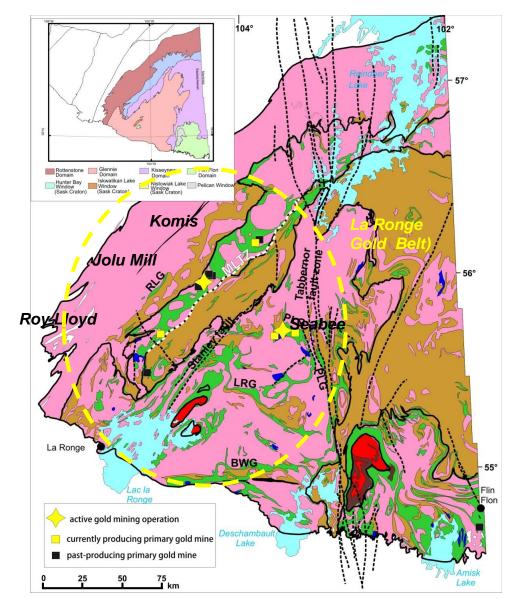
- 8 conventional underground mines
- 2 Solution mines





- Each of the potash mines have recently increased, or plan to increase their production capacity.
- Planned expansions of 15.9 Mt KCl by 2020
- This represents a 90% increase over 2004
- Total estimated cost of expansions: \$13.9 B





Saskatchewan Gold

~1.63 M oz Au produced since 1986 from 7 gold mines (primary) in LaRonge Gold Belt

Current Operations :

Seabee Gold Operation (Claude Resources)

- 2 mines (Seabee, Santoy 8,)
- produced 1 millionth oz in August 2012
- 2012: 49,570 oz Au

La Ronge Gold Project (Golden Band Resources):

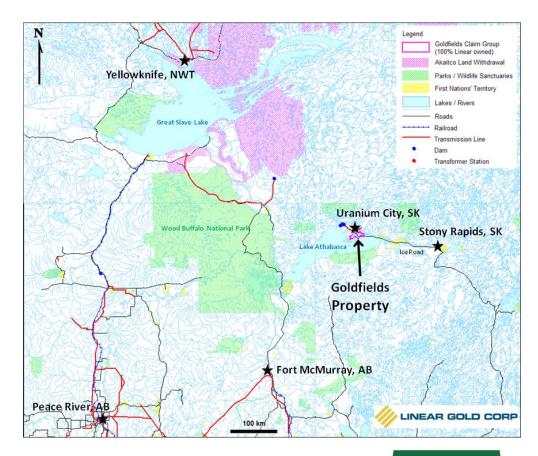
- production at three mines over past year (Roy Lloyd, EP, Komis) at Jolu Mill
- 41,932 oz Au produced in 2012 fiscal year (year ended April 30, 2012;
- •After operational restructuring production has recently resumed



Gold

• Developer:

- Brigus Gold Corp.
 Goldfields Project,
 Uranium City area
- Others:
 Wescan Goldfields
 Fuhua Mining





Saskatchewan Coal Mining and Exploration

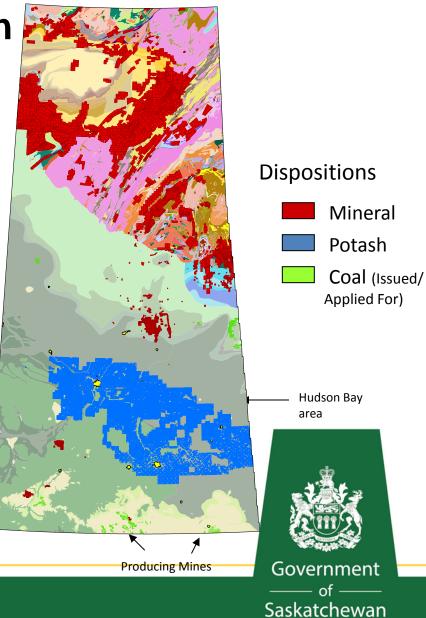
2012 (2011) Coal Production in Mt, Sherritt International

- Bienfait: 0.5 (0.6)
- Boundary: 5.6 (5.8)
- Poplar River 3.6 (3.5)
- Total = 9.7 Mt:
- 2011 Production = 9.9 Mt

Coal Exploration

Hudson Bay area





Sask Minerals Chaplin Sodium Sulphate Mine – photo by Lilypon (Google Earth post).

Saskatchewan Other Mineral Production and Exploration

Production:

- sodium sulphate
- high-value silica sand
- potassium sulphate
- limestone
- salt
- bentonite and other clay products
- aggregate.

Exploration:

- base metals
- diamonds
- rare earth elements
- graphite



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Saskatchewan Mineral Sector in Fall 2013

Outlook is fairly positive, however, still uncertainties:

- direction of global markets
- pace and scope of uranium recovery

Commodity prices are down

Many mining companies are in cost control mode

Need to appreciate how that impacts current procurement focus

- companies have existing supply chains
- will be working with them to reduce costs
- extra challenge for new suppliers and/or suppliers

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Supply Chain Opportunities

Exploration

Projects (new mines/expansions)

- Establish Infrastructure
- Construct Underground
- Construct Surface

Operations



Exploration Supply Chain Opportunities

Exploration:

- Geology (geologists, technicians, prospectors)
- Transportation
- Camp/lodging
- Drilling
- Geochem Analysis
- Field Supplies and Equipment
- Communication and Freight





Projects Supply Chain Opportunities

- Opportunities exist in both new mine and mine expansion development
- Key manufactured goods required:
 - Concrete
 - Steel and fabrication
 - Electrical
 - Pumps and piping
 - Valves and fittings
 - Equipment
 - Miscellaneous





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Surface Construction

- Heavy civil construction
- Mechanical rotating equipment
- Mill/product storage/flotation buildings
- Electric, instrumentation, controls
- Concrete
- Scaffolding
- Cyclones
- Grinding equipment
- Scrubbers
- Pumps & piping
- Dryers
- Thickeners
- Tanks and storage bins
- Conveyors
- Bucket elevators
- Boilers
- Centrifuges



- Overhead cranes
- Compressors
- Agitators
- Belt scales
- Transformers
- Fire protection systems
- Process control equipment
- Process chemicals
- HVAC equipment



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Underground Construction

- Walking/drill rigs and drill bits
- Ultrasound measurement equipment
- Hoist rope/wire rope
- Winch
- Pumps
- Electrical equipment
- Hydraulic motor
- Conveyor and conveyor components
- Fans
- Scoop trams
- Limit switches
- Cranes
- Crushers
- Screens
- Rock drill lifts
- Instrumentations
- Shovels

- Load and hauling machinery
- Raise bore systems
- Specialized mine vehicles
- Rock tools
- Explosives and suppliers
- Rock drills



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Operating Mines (Potash)

- Chemicals potash flotation, water conditioning for heating systems
- Fuels and Lubes
- Dedust oil for potash
- Mobile equipment-trucks, dozers, front end loaders, etc.
- Conveyor belting for underground
- Bearings, seals and power transmission parts
- Electrical consumables such as breakers, fuses, switches and fixtures
- Pipes, valves and related fittings (ie. steel, PVC, copper)





Operating Mines (Uranium)

- Computing and telecom (hardware, software and services)
- Nuclear materials and process equipment, mechanical components, tooling, maintenance components
- Boilers, piping, forged components
- Electronics and instrumentation
- Logistics, handling and storage
- Reagents and environment
- Production services (waste management and cleaning, decommissioning)
- General service





Site Services

- Water
- Waste disposal
- Catering
- Camp Accommodation
- Janitorial Services
- Pest Control

- Security on site
- Medical on site
- Transportation
- Internet and phone

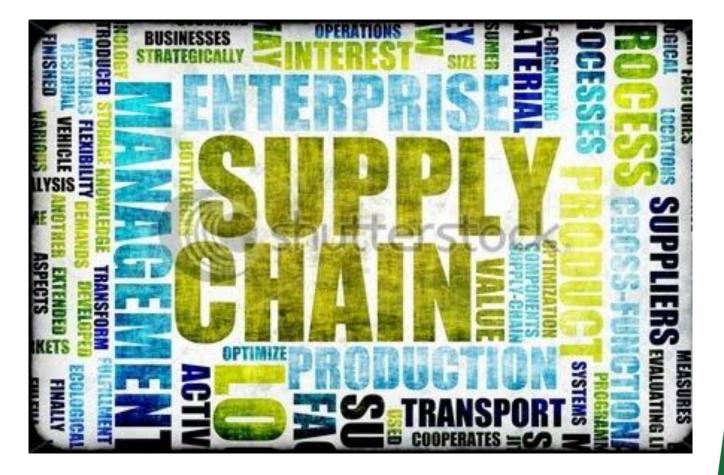
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Storage shelters

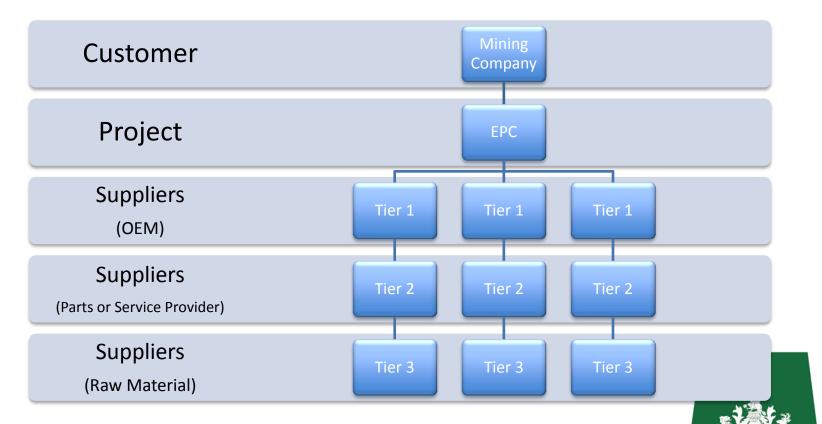


Understanding the Supply Chain





Project Supply Chain EPC Example



EPC – Consulting company which provides engineering, procurement and construction support to mining company.

Used extensively in new projects/expansions.

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Project Perspective

Engineering view:

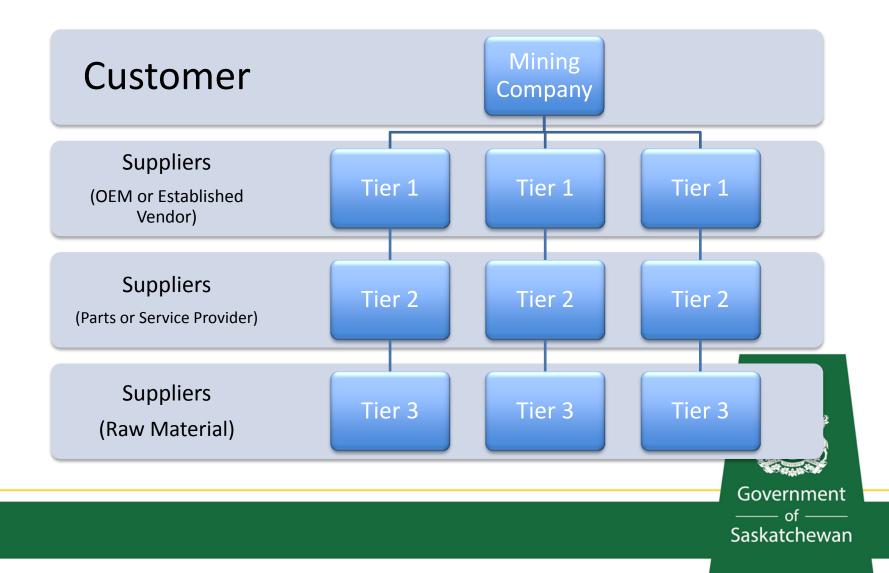
- On-time, on-budget, reduced risk
- Prequalification systems
- Supplier experience and know-how critical

New Supplier:

- Not long term
- Projects in different locations



Operations Supply Chain



Operations Perspective

Mining view:

- Long term
- What do you offer that adds value

New Supplier View:

- Long term
- Consistent location
- Potential for market growth



Strategies for Market Entry

- Direct to mining companies
- Partnering with other suppliers of goods and services
- Work with existing OEM or suppliers to mining companies – supply to the supplier

Saskatchewan Manufacturers Guide www.economy.gov.sk.ca/mfgguide



Preparing for the Market

Do your homework:

- market research understand you potential customer
- Understand what your good at (core competency)
- Think through the 4 P's product, place, price, promo

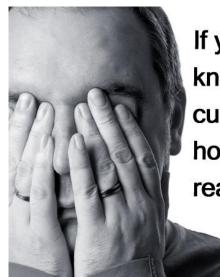




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Practical Advice

- Know your customer
- Know your competition
- Know your product



If you don't know who your customers are how can you reach them?



Making the Pitch

- Review procurement policies and procedures
- Make an appointment
- Conduct a "lunch & learn"
- Provide product literature, catalogs (electronically), web site address
- Request to be added to the bidders list
- Complete prequalification process
- If not added to the bidders list, ask why, constructive feedback and adjust





Making the Pitch

What buyers like:

- Become a qualified bidder
- Tailor your offering to the business
- Ask customer what they are interested in
- Offer how your product is different from your competitors



You Get the Order

Now What?

Supplier evaluations:

- Product quality
- Delivery
- Price
- Health, Safety, Environment
- Experience
- Spec compliance
- Turnover packages





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Becoming a Preferred Supplier

For the long term:

- Safety
- Service
- Quality
- Technical competency
- Relationships



Resources

used in this presentation How to Successfully Access the Mining Supply

Chain - Source of information for this presentation. Detail on potash and uranium including company background, contracts, existing supply chains, procurement methods, contacts

www.economy.gov.sk.ca/supply_chainopp

Potash Mining Supply Chain Requirement Guide goods and services required to support the development/ operation for conventional and solution mine.

www.economy.gov.sk.ca/PotashRequirementGuide

Mining Supply Chain Forum - Presentations from

mining and engineering companies.

www.economy.gov.sk.ca/MiningSupplyChainForum



Other Events

 44th Annual Saskatchewan Geological Survey Open House

December 2-4, 2013, Saskatoon

 PDAC 2014 – Prospectors and Developers Association of Canada (PDAC)

March 2-5, 2014 Toronto

• Canadian Institute of Mining (CIM) May 11-14, 2014, Vancouver



How we can help...

- Information on the mining industry and supply chain opportunities
- Information on the Saskatchewan business environment and related business costs tailored to individual business case
- Connections to mining and supply companies

www.economy.gov.sk.ca/

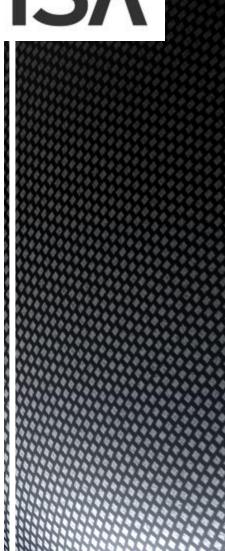




Saskatchewan Industrial and Mining Suppliers Association (SIMSA)

Promoting Saskatchewan solutions for the global resource industry

> Phone: 306-221-8899 Email: info@simsa.ca Web site: simsa.ca



Go Riders!!!!!!





Questions???

Monique Lischynski, M.Sc.

Manager, Productivity and Supply Chain Development Phone: (306) 933-7484 Cell: (306) 220-6279 monique.lischynski@gov.sk.ca

