

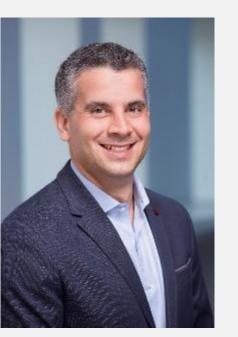
Workshop IV – Bethune

Bethune, 5 September 2018

Sam Farris, President of K+S Potash Canada

K+S' Capital Markets Day 2018 Sam Farris





Sam Farris joined K+S Potash Canada in August 2011 as Production Manager, and was appointed Vice President and General Manager of Operations in July 2012. He assumed the role of Senior Vice President and General Manager, Bethune Site in July 2017, and became President and General Manager, Operations in July 2018.

Sam holds a Bachelor of Science in Mechanical Engineering and a Master of Science in Thermal Science, both from the University of Saskatchewan. He has over a decade of solution mining experience. He and his wife Lynnette, along with their two sons, enjoy taking vacations to unique Canadian destinations where they can camp, hike, bike, and ski.

K+S' Capital Markets Day 2018 From PotashOne to Legacy. From Legacy to Bethune



K-S

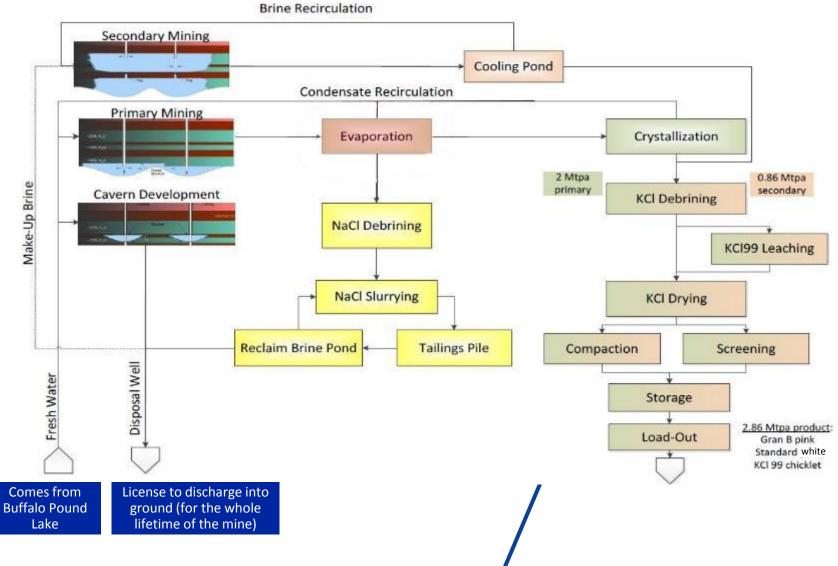
K+S' Capital Markets Day 2018 Bethune Mine 2018 – partner of the region



k/s

Our production process

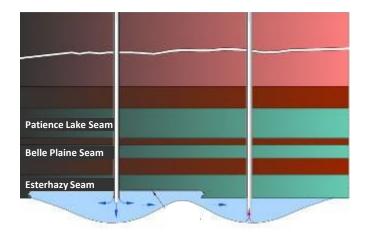




K+S' Capital Markets Day 2018 Primary versus Secondary Mining



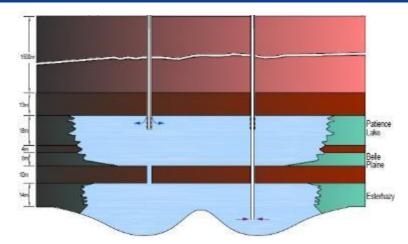
Primary Mining [Freshwater mining / Vacuum cooling crystallisation]



- Primary mining uses freshwater.
- Connection of two boreholes to a cavern with the corresponding creation of a surface is initially created by NaCl solution mining.
- This process is controlled vertically by a barrier (a thin layer on the surface of the brine).
- During the primary mining process, the cavern expands to create an ideal form for commencing secondary mining.

K+S' Capital Markets Day 2018 Primary versus Secondary Mining

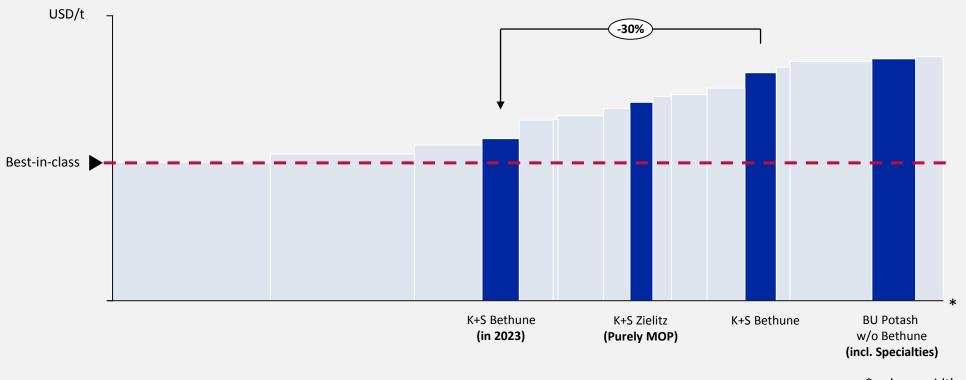




- Secondary mining exclusively uses a NaCl-saturated brine in order to dissolve selectively KCl from the existing caverns.
- Advantages (in comparison to primary mining):
 - lower energy intensity (e.g. injection brine is heated via waste heat from evaporators and KCl is crystalized in the cooling pond via natural cooling)
 - substantially more efficient with the use of water
 - reduces salt to tailings up to 30 %
 - mitigates potential risk from primary mining cavern performance

Operates at 50% lower production costs than Primary Mining

K+S' Capital Markets Day 2018 Site costs (FOB) in comparison (2020)



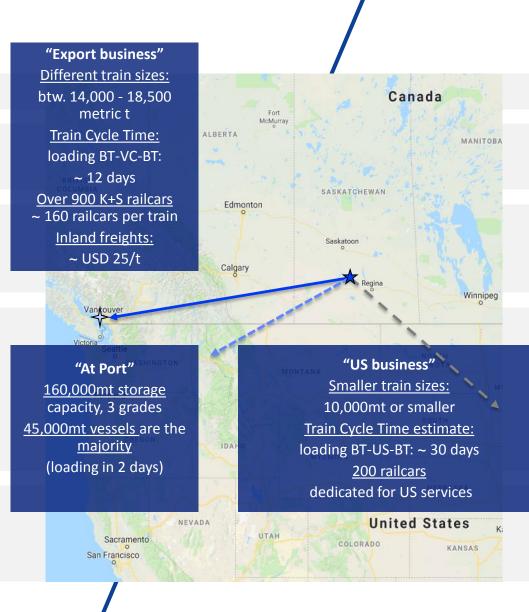
Source: CRU Report 2016, K+S

* column width = production capability in million tons

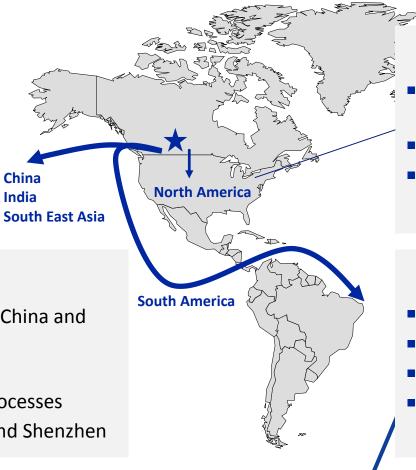
The Bethune ramp-up to 2.86 million tons in 2023 (production capability) significantly improves K+S's competitive position.

K+S' Capital Markets Day 2018 Bethune – Logistics

- ★ 🛛 K+S Potash Mine, Bethune
- New Potash Handling Facility at Pacific Coast Terminals, Port Moody
 - Long-term agreement with Canadian
 Pacific Rail in place to transport potash ex
 Bethune site
- US deliveries not yet started, potential logistics partners into the US north-west will be UP and BNSF
- potential logistics partners into the US corn belt will be CPR, NS and CSX



Bethune – Sales Split beyond 2018



~ 20 %

- MOP (gran) pink to US corn belt and NOLA
- Mainly spot business
- Typical Use: Blended Fertilizer

~ 40 %

- Mainly MOP (gran) pink to Brazil
- Mainly spot business
- Typical Use: Blended Fertilizer
- Local office in São Paulo

Flexibility in combination with production in Germany - Focus on netbacks

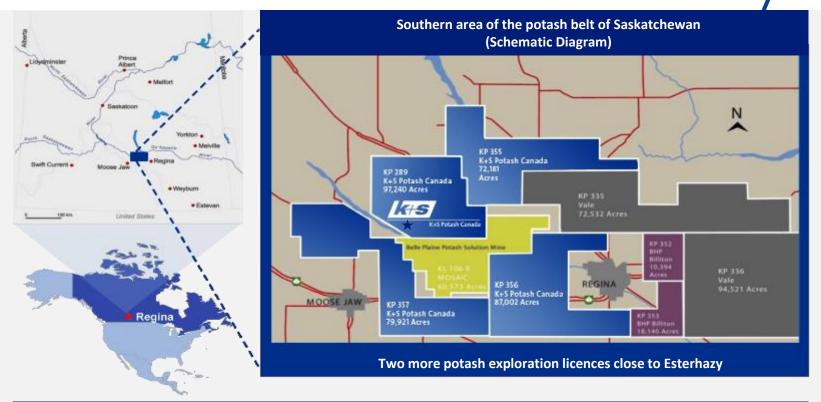


~ 40 %

- Mainly MOP (standard) to China and India
- Mainly contracted
- Typical Use: NPK & SOP Processes
- Local office in Singapore and Shenzhen

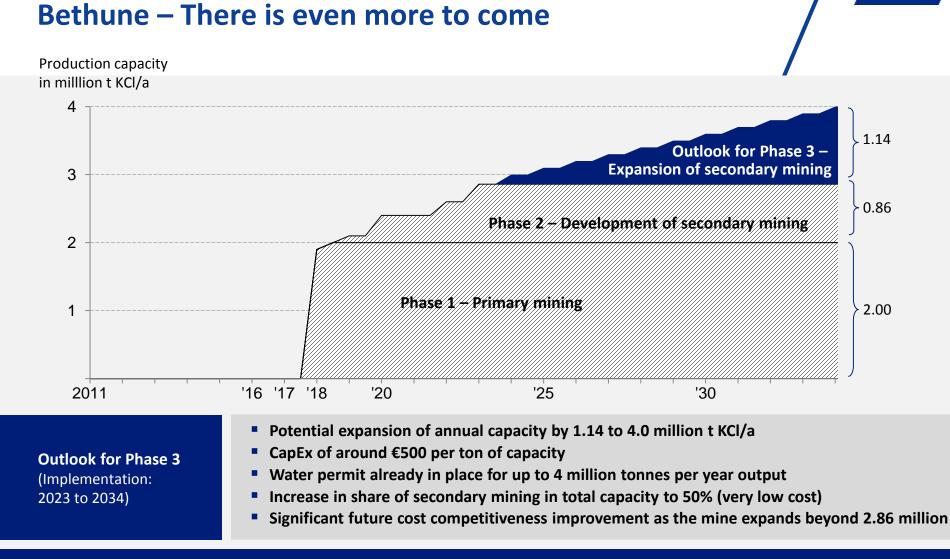
Bethune – Deposits for more than a 100 years





Reserves and Resources				
		in mln. t KCl	% KCl	% K ₂ O
Reserves (Proven and Probable Reserves)	Legacy Project area	160	29	18
Resources (Inferred and Indicated Resources)	Legacy Project area + KLSA 009	981	27	17

The reserves figures were determined in accordance with the requirements of the Canadian standard NI 43-101 of the "Canadian Securities Regulators".



Part of Shaping 2030: > €300m additional revenues possible

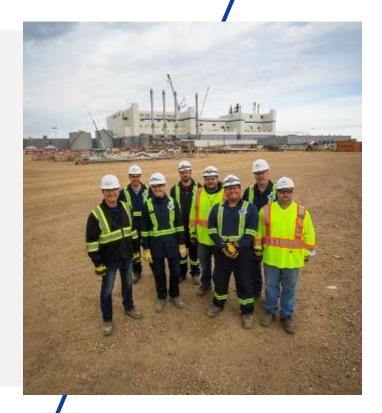
K+S' Capital Markets Day 2018 Safety Moment - Bethune Site Tour

Please remain with your KSPC tour guide at all times

- If you need to end your tour at any time, let a member of the IR Team know and we'll escort you out
- Do not walk through overhead doors, follow your guide through the appropriate door
- Do not cross any barricades or flagging
- Personal Protective Equipment must be worn for the duration of the walking tour

Your personalized bins will include:

- CSA-Approved hard hat, safety glasses, high visibility vest, and gloves
- a headset for hearing protection
- Please be mindful of your step this tour route has been designated exempt for safety boots



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K+S Aktiengesellschaft



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