

# A Compelling Iron Ore Investment



**BLACK IRON**

## Corporate Structure

(in millions)

Shares Issued:	160
Options/DSU	15
Fully Diluted:	175

## Contact Information

**Corporate Head Office:**  
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## Solid Fundamentals for Success

**Black Iron Inc.** is an *iron ore exploration and development company*. Its *Shymanivske Project* in Ukraine is a high-value investment opportunity offering an **ultra high-grade iron ore concentrate** (68% Fe) at **low capital cost intensity** (<US\$100 per tonne of capacity).



### 1. Excellent Infrastructure (Skilled Labour, Power, Rail & Port)

- 8km from city of Kryviy Rih (pop. 750k); paved road to site
- 2km from state-owned rail and power lines; confirmed power, rail and port capacity to produce, haul and ship planned capacity output



### 2. Large Iron Ore Deposit with NI 43-101 Compliant Resource<sup>1</sup>

- Shymanivske: 646Mt Measure & Indicated resource @ 31.6% iron; additional 188Mt Inferred resource @ 30.1% iron, which will be concentrated to ~68% iron
- Potential for resource expansion

### 3. Ukraine: Strategic Location with Underdeveloped Reserves



- Close to target markets: Western Europe, Turkey, Middle East and Asia
- Black Iron is surrounded by 7 producing iron ore mines (adjacent to ArcelorMittal)
- Former Soviet Union has 21% of world's iron ore reserves but only 7% of world production

### 4. Economics: Attractive Project NPV and Favourable Tax Rate

- Phased build starting at 4MTpa and growing to 8MTpa – using \$62/T selling price, pre-tax NPV of US\$2.1 billion at 8% discount rate and 43% IRR (US\$1.7 billion and 36% after-tax)
- Low unit cost of production and first quartile on capital intensity
- Competitive corporate tax rate of 18%

### 5. Skilled Management Team, Directors & Board

- History of creating value for shareholders of iron ore projects – Consolidated Thompson and Rio Tinto's IOC
- Respected Ukraine professionals and former Government Advisors

**World Class, High Value, Low Net Cost Project**

Annual Production:

- Phase 1 4.0 dmt
- Phase 1 & 2 8.0 dmt

Iron Content: 68.0%

Estimated Capital Investment:

- Phase 1 US\$436 million
- Phase 2 US\$320 million

**Estimated Operating Expenses:  
(average FOB) US\$31/tonne**

Sale Price

- Long-term CFR China for 62% Fe US\$62/tonne
- **Est. realized Price for 68% Fe US\$97/tonne**

**Net Present Value (10% after-tax): US\$1.7 billion**

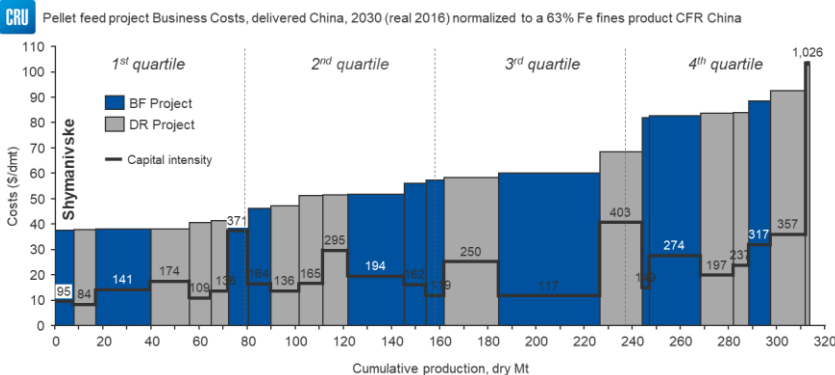
**IRR (after-tax): 36%**

Projected Payback: 3 years

Projected Construction Start: Q3 2019

Exchange Rate Used UAH28:US\$1

**Black Iron's Cost Advantage**



- Business costs include site costs (i.e. FOB opex) plus freight, marketing, finance, value in use adjustments and sustaining capital
- The calculation for capital intensity (black line above) represents the capital cost of the project divided by the number of tonnes produced in each individual year. For Black Iron, we assess the capital intensity to be \$95/annual tonne. This is the second lowest capital intensity figure for the pellet feed projects above.

Source: CRU pellet feed market study and marketing strategy for Black Iron's Shymanivske project – April 2018

References: The technical information contained herein is derived from or a summary of the NI 43-101 Compliant Technical Report entitled "Preliminary Economic Assessment of the Rescoped Shymanivske Iron Ore Deposit (Prepared by BBA and WGM, the "PEA")". Estimates underlying the results of the PEA arise from engineering, geological and costing work of BBA Inc. ("BBA") and Watts, Griffis and McQuat Limited ("WGM") and the Company. For additional information, please see the press release filed on [www.sedar.com](http://www.sedar.com) dated November, 2017.

\*The mineral resource estimate for the Shymanivske Project is based on results from 185 historical drill holes totaling 37,316 meters and 60 Black Iron drill holes, which were drilled during the Company's Twin Hole drill program and the Definition Drill program, totaling 16,518 meters and is effective as of September 2012. WGM, Consulting Geologists and Engineers of Toronto, Canada, was retained to audit an in-house mineral resource estimate completed by Black Iron. Mr. Michael Kociumbas, P.Geo, Vice-President of WGM and Mr. Richard Risto, P.Geo, Senior Geological Associate of Black Iron, were retained by Black Iron as independent technical consultants and are Qualified Persons as defined by NI 43-101 and are responsible for reviewing and approving this mineral resource estimate. The PEA was prepared in accordance with the guidelines of National Instrument 43-101 by the independent firms of BBA and WGM.

\*Matt Simpson, President & CEO of Black Iron, a Qualified Person as defined by NI-43-101, has reviewed and approved the scientific and technical information in this Presentation.

**Management**

**Matt Simpson – President & CEO**

- Former General Manager, Mining for Rio Tinto's Iron Ore Company of Canada; worked for Hatch designing global metallurgical refineries

**Les Kwasik – COO**

- Successful mine developer with over 40 years of hands-on experience; former VALE, Xstrata, BE&K

**Paul Bozoki – CFO**

- Former CFO of CD Capital Partners, operating in Soviet Union & Ukraine

**Bill Hart – SVP Corporate Development**

- 30 years experience in natural resources & iron ore for Rio Tinto, Cliffs and Roy Hill Holdings.

**Ivan Markovich – VP Government & Community Relations**

- Extensive relationships with senior Ukraine Government officials

**Board of Directors**

**Bruce Humphrey (Chairman)**

- Former Chief Operating Officer of Goldcorp

**Hon. Pierre Pettigrew**

- Former Canadian Cabinet Minister of Foreign Affairs & International Trade

**John Detmold**

- Chairman & Founder of Invecture Group, S.A. de C.V. which owns Frontera Copper Corporation

**Dave Porter**

- Former VP HR at Rio Tinto's IOC and COO at Algoma Steel

**Matt Simpson – President & CEO**

