

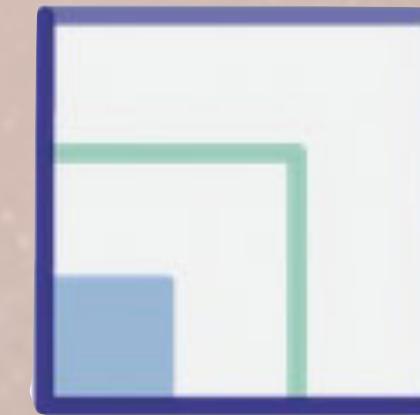


Galaxy Trade  
and Technology



# Galaxy Trade and Technology, LLC

The World Standard for Magnesium



## The Market Need

magnesium is growing as a strategic metal  
in automotive, aerospace, nutrition, pharmaceutical markets

qualities of lightness, strength, magnetic, temperature  
are superior to both aluminum and steel

easier to recycle, answering environmental  
and regulatory requirements



## The Market Need

both supply and demand for magnesium  
are inconsistent,  
often not matching up well

financial value of world magnesium shipments  
grows by 21% annually

environmental concerns vital,  
in all aspects of supply chain

# The Market Need

current supply chain has too many links;  
inefficient, costly, unreliable for major consumers



quality is inconsistent, not standardized;  
need for global certification authority



# The Business

the challenge:  
supply magnesium at sustained lower prices,  
with certified quality,  
direct to major industrial customers

export of magnesium from China to global markets

mining, refining, manufacturing,  
end-to-end logistics, technology

# Resources

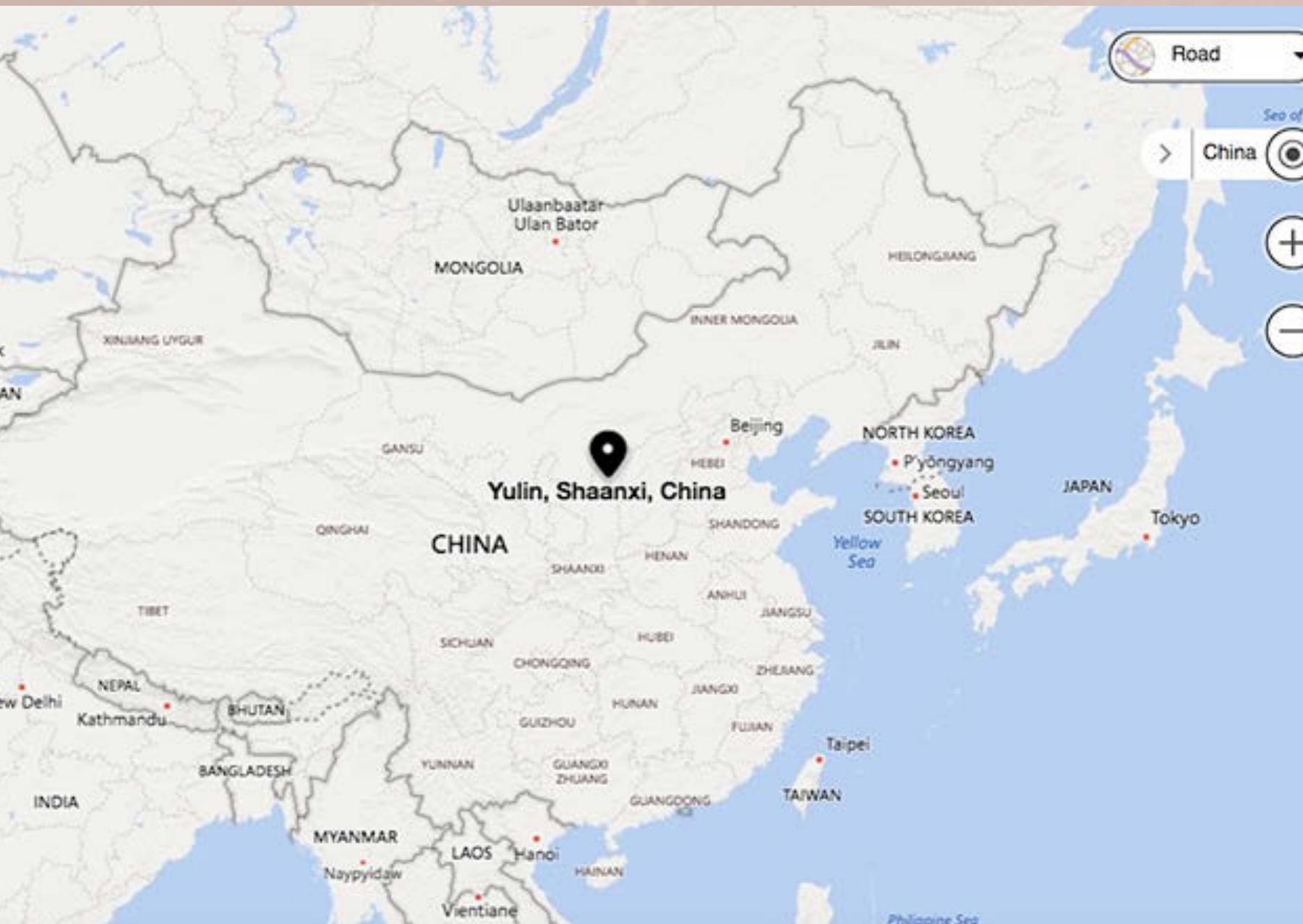


70% of commercially-mined magnesium  
in the world is in China

half is concentrated in one province:  
Shaanxi, north-central frontier China

Galaxy resources centered in Shaanxi represent  
about 20% of current world supply

# Resources



Yulin, Shaanxi Province; population 3.4 million, capital Xi'an targeted as strategic industrial development zone by central government

\$100 billion in public incentives anticipated over 6 years; 10% going to priority magnesium industry

# 资源



Parent Company:  
Asia-Pacific Group



since 2016, Beijing-Honolulu-Seattle offices  
business development services joining US and China

<http://www.asiapacificgroup.us>

2018: group of magnesium mines approached APG  
to help develop  
efficient global magnesium markets

# Quality Magnesium is Key Metal for Many Industries



# The Customer

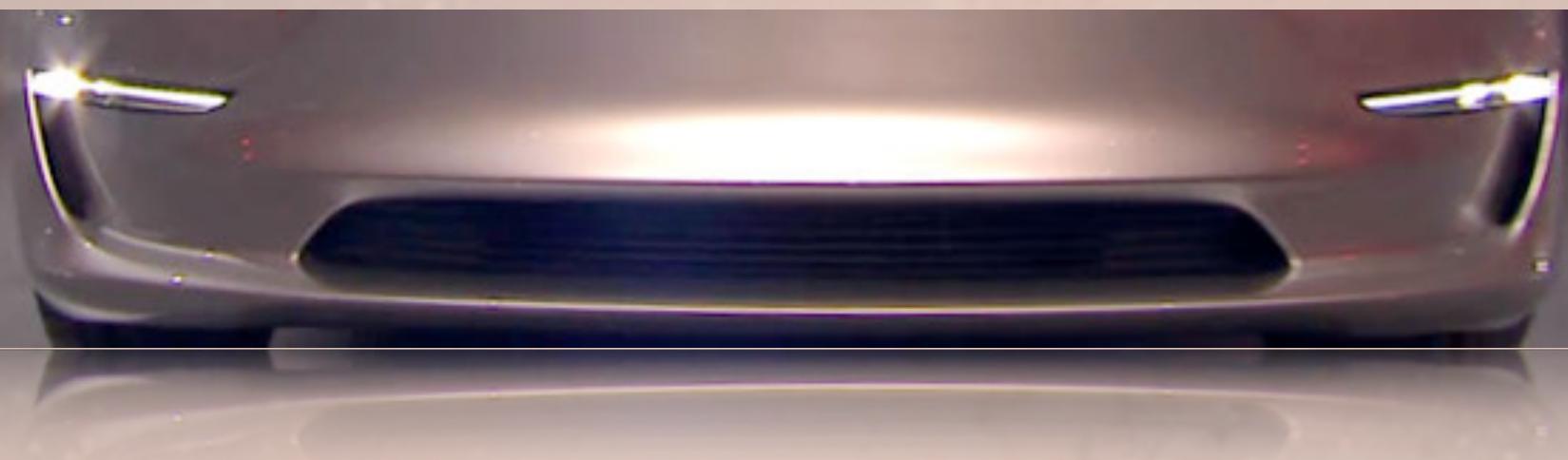


automotive industry:

many major automakers already use magnesium; they are increasing their use for “lightweighting”

# The Magnesium Customer

automotive industry:



next-generation automobiles:  
electric and hydrogen powered --

green vehicles  
use more magnesium

# The Magnesium Customer



for strength, lightness, vibration protection;  
current-generation commercial aircraft

# The Magnesium Customer space vehicles



for thermal, distortion resistance,  
lightness and radiation protection

# The Magnesium Customer



heavy equipment makers  
bulldozers, cranes



tool-and-die makers  
scientific instruments



nutritional supplements  
pharmaceutical applications



# The Galaxy Solution

disintermediate an inefficient supply chain



connect producers directly to customers  
reduce from 10+ links to 3



# The Galaxy Solution



financial engineering:

stabilize prices, offer fixed-price  
long-term delivery contracts

hedge exchange rates -- USD, RMB, EUR

\$ ¥ €

# The First

Galaxy is first of its kind:

first China-International Joint Venture  
focused on Magnesium Production and Trade

alliances with banks, commodities experts,  
shippers, insurers

real-time RFID tracking, implementing blockchain



# The First



integrate multi-modal shipping, (sea, rail, air options),  
insurance, customs, quality inspection;  
a single-contact, single-price contract

improve environmental quality, reducing energy,  
adding automation, sensors, robotics

# The Executive Team: China

Dong Yuming, CEO; engineer, export

Li Jianjun, COO; energy industry operator, investor

Ding Xiaoyun, CFO; financial manager

Hu Ming, CAO; senior administration



<http://www.galaxytradetechnology.com/management/>

# The Executive Team: America

Roger Epstein, co-CFO; legal, financial  
Xiaofang Zhou, Chief Communications Officer, China bridge  
Michael North, Board chairman; business development



<http://www.galaxytradetechnology.com/management/>

# Product Catalog



online, English-Chinese; automated query  
<http://www.galaxytradetechnology.com/catalog/>

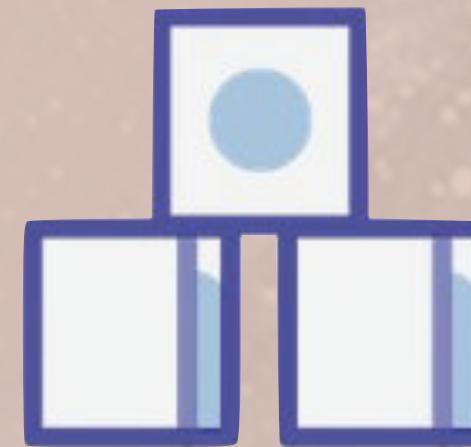
# The Business Model



**Opportunity:**  
wholesale price of magnesium  
at the mine in China is marked up by  
traders, brokers, dealers, distributors, agents  
before delivery in Europe

**Strategy:**  
offer significant margin off  
current delivered price to major clients  
for long-term contracts  
and pay miners a premium to secure supply

## The Business Model



Galaxy mines have production capacity of  
20,000 metric tonnes/month

Production capacity can be doubled within  
existing resources

# Financial and Legal Controls



requirement:  
US-based international audit and tax firm,  
and law firm, both with strong experienced China base:

responsibility:  
ensure transparency, operation according to international  
accounting and US-China legal standards

## Summary: The Opportunity

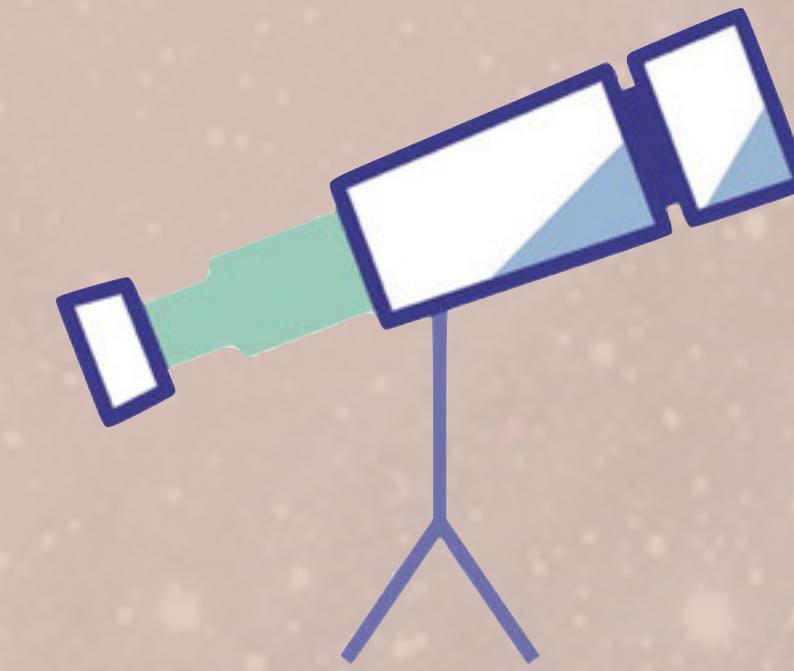


**Build strong magnesium trading company  
in vital future industries,  
stimulating growing demand**

**Exert positive influence over global supply,  
standards, stabilizing price**

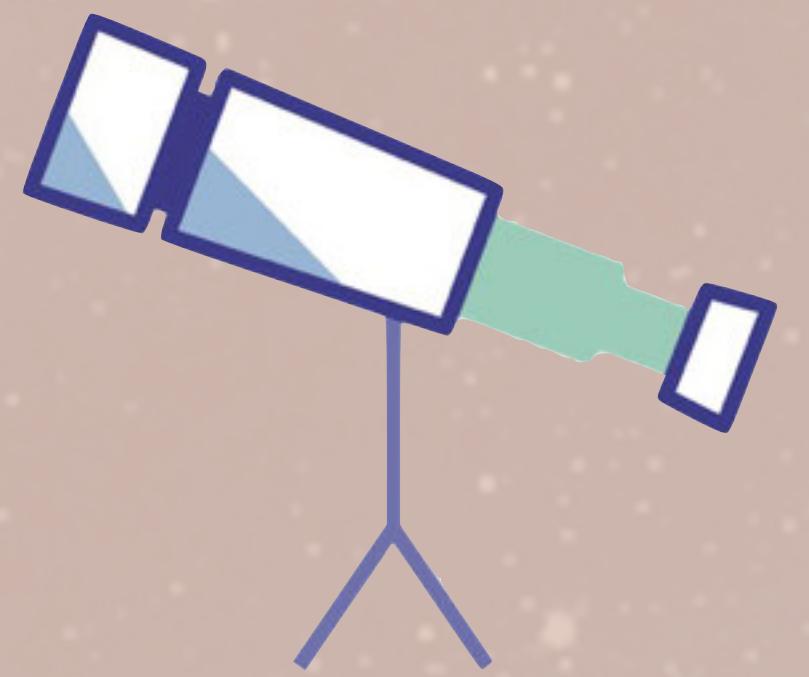
# Over the Horizon

new applications:



magnesium batteries  
custom computer-simulation of alloys  
with aluminum and iron

financial instruments to facilitate open trade



# Over the Horizon

public message:

green principles,  
ESG (environmental, social governance)  
and “ecological civilization”

magnesium: the green metal of the future



# Galaxy Trade and Technology, LLC

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