

## TSXV: GMA

Issued & Outstanding	103,484,928
Stock Options	6,993,750
Warrants	10,093,886
Fully-Diluted	120,572,564
Equity assets	16.8M shares of KTR.V

# Rare Earth Element (REE) Recycling for the Permanent Magnet Industry

- GMA owns proprietary, low-cost, environmentally friendly, "ISR Technology" to tap a C\$1.5 billion global market
- Recycles waste profitably & safely from permanent magnets
- Targeting recovery/production of Nd, Pr, Tb, Dy (mag-REE)
- Mag-REE represent 30% of annual global demand for REE & 80% of total REE market value (170k tonnes/year)
- ISR pilot plant completed in 2019, located near Montreal, QC
- No scalability risk. Expansion phases extremely low cost
- Next milestone EPCM & demo plant construction by 4Q/20
- 1.5 t/day input @ 30% saleable material (per 8 hr shift)
- Projected initial revenue of C\$10 million/y after ramp-up
- Low financing risk. Capital costs of C\$2.6 million for Demo
- Less than 2-year payback with profit margin of +20%
- Easily scaled-up to 450 t/y of oxide = C\$30 million revenues
- Low marketing risk. Represents only 4% of North American/ European market & 0.5% of world market
- Low-cost, staged expansion to 900 t/y of oxide = \$60 MM Revenue/\$12 MM EBITDA
- Ready to advance to demo/commercial stage(fully financed)



# Geomega's ISR Technology

- Proprietary and unique (ISR- Innord Separation of Rare Earths- 100% owned by Geomega)
- Advantages: low CAPEX & environmentally safe
- Organic solvent free process vs. legacy solvent extraction methods (SX)
- Recycles waste from permanent magnet manufacturers and extracts four mag-REE (Nd, Pr, Tb, Dy)
- Over 5 years of R&D and development work



FEED Study Economics		
Demo plant feed throughput	1.5 tpd (8hr day)	
Average grade of feed stock	30% TREO (Nd, Pr, Dy, Tb)	
Capital costs	\$2.6 MM	
Direct operating costs	\$3 / kg of TREO	
Sales	\$10 MM	
Profit margin	20%	
Capital payback	<2 years	
Expansion potential	Up to 4.5 tpd (24 hr day)	

#### www.ressourcesgeomega.ca



# <mark>inn⊕</mark>rd

Geomega owns 100% Innord, the innovation arm focused on scaling up "ISR", a local, environmentally friendly REE recycling and refining technology



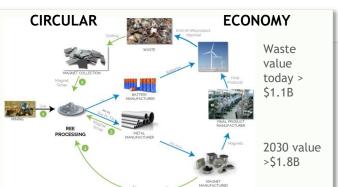
# **MONTVIEL**

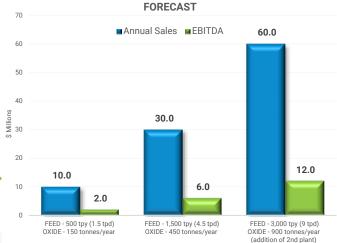
100% owned REE asset located in Quebec with largest 43-101 bastnaesite resource in Canada, permanent access and excellent infrastructure

Opportunity driven expansion. Reaching 900 TPY of saleable oxide equates to approximately 18-20% of current annual market needs for North America and Europe.

2019 2020







## FEED MATERIAL SOURCE





Over 200 tpy secured and developing new suppliers





## SALES AGREEMENTS

Ginger International Trade & Investment Pte Ltd ("GITI")



- Appointed official sales representative for Europe and Asia.
- Singapore based, specializing in rare earths and minor metals.
- Extensive network with REE manufacturers, traders and end users.



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### GEOMEGA RESOURCES INC.

#### **MANAGEMENT**

Kiril Mugerman President & CEO

Dr. Pouya Hajiani, Ph.D. Chief Technology Officer

Mathieu Bourdeau, CPA, CA Chief Financial Officer

Alain Cayer, P. Geo., M.Sc. VP Exploration

#### BOARD OF DIRECTORS

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