

### **CAUTION CONCERNING FORWARD-LOOKING STATEMENTS**

This presentation contains "forward-looking information" within the meaning of Canadian Securities legislation. Generally, forward-looking statements can be identified by the use of forward-looking terminology such as "scheduled", "anticipates", "expects" or "does not expect", "is expected", "scheduled", "targeted", or "believes", or variations of such words and phrases or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved". Forwardlooking statements contained herein include, without limitation, statements relating to mineral reserve estimates, mineral resource estimates, realization of mineral reserve and resource estimates, capital and operating costs estimates, the timing and amount of future production, costs of production, success of mining operations, the ranking of the project in terms of cash cost and production, permitting, economic return estimates, power and storage facilities, life of mine, social, community and environmental impacts, rare metal markets and sales prices, off-take agreements and purchasers for the Company's products, environmental assessment and permitting, securing sufficient financing on acceptable terms, opportunities for short and long term optimization of the Project, and continued positive discussions and relationships with local communities and stakeholders. Forward-looking statements are based on assumptions management believes to be reasonable at the time such statements are made. There can be no assurance that such statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking statements. Although Matamec has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking statements, there may be other factors that cause results not to be as anticipated, estimated or intended. Factors that may cause actual results to differ materially from expected results described in forward-looking statements include, but are not limited to: Matamec's ability to secure sufficient financing to advance and complete the Project, uncertainties associated with Matamec's resource and reserve estimates, uncertainties regarding global supply and demand for rare earth materials and market and sales prices, uncertainties associated with securing off-take agreements and customer contracts, uncertainties with respect to social, community and environmental impacts, uncertainties with respect to optimization opportunities for the Project, as well as those risk factors set out in the Company's year-end Management Discussion and Analysis dated December 31, 2012 and other disclosure documents available under the Company's profile at www.sedar.com. Forward-looking statements contained herein are made as of the date of this presentation and Matamec disclaims any obligation to update any forward-looking statements, whether as a result of new information, future events or results or otherwise, except as required by applicable securities laws.



## **MATAMEC AT A GLANCE**

### **Matamec**

Founded in 1997 Headquartered in Montreal Mining properties in Quebec/Ontario \$35 Million Invested

### **Rare Earths**

Kipawa JV Deposit with Toyota First NI 43-101 FS Filed Simple Metallurgy \$28 Million Invested

### Gold

Near Major Gold Producers Partners to Fund NSR Potential \$7 Million Invested



## **MATAMEC GOLD – UPSIDE POTENTIAL**



**Gold Properties:** 

- Near major producers
- Partners to fund
- NSR potential



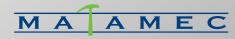
## **MATAMEC RARE EARTHS**

Do you **believe** these **technology** applications will **increase**?



- Soaring demand in technology -HRE to be in short supply next 5 to 10 years
- China to increasingly restrict exports for domestic industry
- China to import HREEs for domestic industry

Today.....Governments are believing in HRE in the USA, Canada and Quebec



## **QUEBEC STRATEGY – 2011 - 2020 ELECTRIFICATION OF VEHICLES**

KPMG Study on Electrification of Transport in Quebec

- Creation of \$107 \$232M in 2020
- 1,800 2,600 jobs in Quebec alone
- Fuel savings of 181 384M liters
- \$63 \$134 million in pollution costs
- Reduction of 415,000 876,000 tons of CO<sub>2</sub>

Québec roule à la puissance verte!

Plan d'action 2011-2020 sur les véhicules électriques



Heavy Rare Earths Essential for Hybrid & Electric Vehicles



### Magnets



Toyota Prius ~25lbs of rare earths



## **KIPAWA - "IT'S ALL ABOUT THE GEOLOGY"**

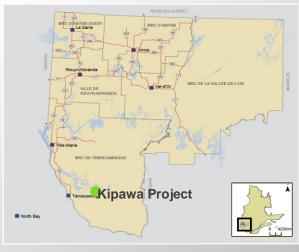
Simple recovery process – 1<sup>st</sup> open-pit deposit with reliable, known metallurgical process

**Excellent location** – Quebec - skilled workforce, proximity to markets and infrastructure

**Toyota paid \$16 million** – searched over 400 projects worldwide and selected Kipawa

Winner of Prestigious award "Quebec Entrepreneur of the Year" – November, 2013

"The best source for a sustained quantity of HREEs is Matamec's HREE mineral-bearing deposit in Kipawa, Quebec."



Dr. Anthony Mariano – Gold Report, August 2013

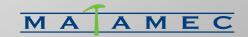


## **KIPAWA PILOT PLANT ON INDUSTRIAL SCALE**



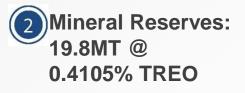
Beneficiation Stage – Phase 1 of 3 Oct. 2013



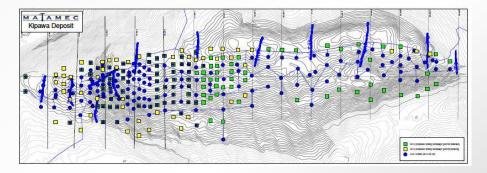


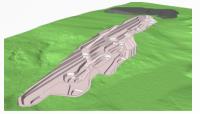
# **KIPAWA PROJECT: CLEAR PROCESS**





### **Eudialyte - Mosandrite Minerals: 90% RE contents**





2 Steps

**Process Plan:** 



Open Pit – Mine Life 15 Years



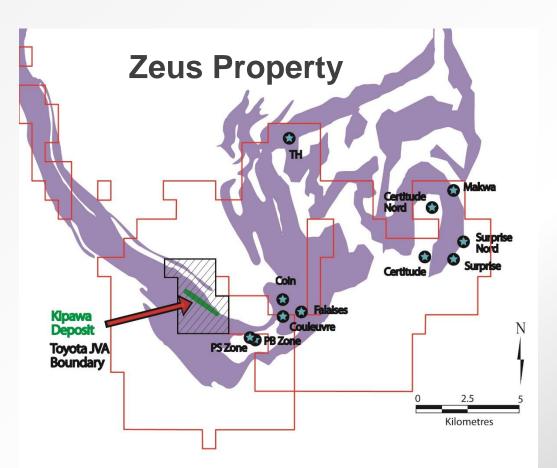
Heavy and Light rare earth concentrates







# **ZEUS PROPERTY – FUTURE GROWTH**



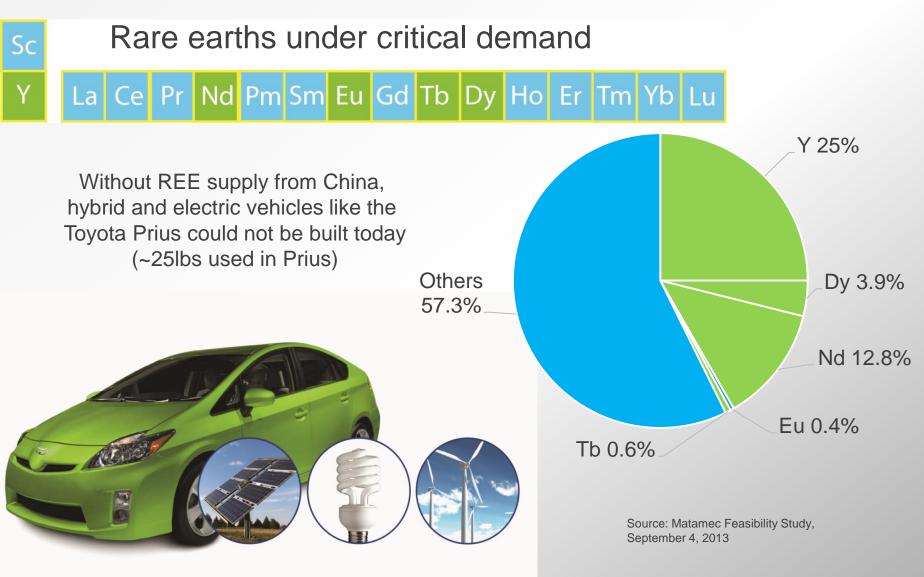
- Zeus: 22,172 hectares
- Kipawa: 1,298 hectares

# Many showings and drilling to discover much more!

Zeus Property boundaryToyota JVA boundary

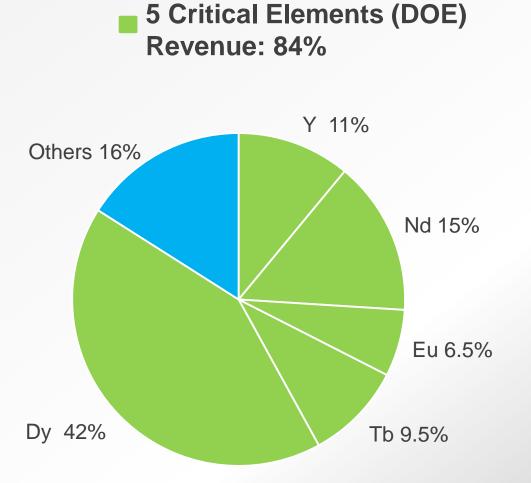


## **KIPAWA DEPOSIT – RICH IN <u>HEAVIES</u>**





## **POTENTIAL AT KIPAWA**



| Strong Economics                     | Base<br>Case<br>(million<br>CAD) |
|--------------------------------------|----------------------------------|
| CAPEX                                | 374                              |
| Revenue (15 years)                   | 2,548                            |
| OPEX (annual)                        | 78.5                             |
| Before-tax Cash<br>Flow              | 1,680                            |
| Before-tax NPV @<br>10% (pre-tax)    | 260                              |
| Before-tax IRR (%)                   | 21.6                             |
| Before-tax Payback<br>Period (years) | 3.9                              |

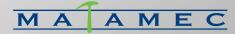
Source: Matamec Feasibility Study – <sup>(1)</sup> Forecasted Prices 2020, Sept 4, 2013



## A LOOK AT THE REO PRICING

| Rare Earth Oxide                                | FS Price Forecast<br>For 2016 | Asian Metal<br>FOB China,<br>\$USD/kg REO<br>Feb. 26 <sup>th</sup> , 2014 | Asian Metal<br>2011 Peak Price<br>(FOB China,<br>\$US/kg REO) |
|---|-------------------------------|---|---|
| Cerium (Ce <sub>2</sub> O <sub>3</sub> )        | \$5.90                        | \$5.50  | \$151.00  |
| Lanthanum (La <sub>2</sub> O <sub>3</sub> )     | \$5.95                        | \$5.90  | \$140.00  |
| Neodymium (Nd <sub>2</sub> O <sub>3</sub> )     | \$75.00                       | \$70.00   | \$370.00  |
| Praseodymium (Pr <sub>6</sub> O <sub>11</sub> ) | \$75.40                       | \$120.00  | \$251.00  |
| Samarium (Sm <sub>2</sub> O <sub>3</sub> )      | \$6.85                        | \$11.00   | \$136.00  |
| Europium ( $Eu_2O_3$ )                          | \$1,100.00                    | \$980.00  | \$5,600.00  |
| Gadolinium ( $Gd_2O_3$ )                        | \$59.40                       | \$49.00   | \$186.00  |
| Terbium (Tb₄O <sub>7</sub> )                    | \$1,076.00                    | \$850.00  | \$4,200.00  |
| Dysprosium ( $Dy_2O_3$ )                        | \$713.00                      | \$490.00  | \$2,500.00  |
| Yttrium (Y <sub>2</sub> O <sub>3</sub> )        | \$29.40                       | \$23.00   | \$200.00  |
| Holmium $(Ho_2O_3)$                             | \$53.60                       | **\$69.00   | ***\$711.00   |
| Erbium ( $Er_2O_3$ )                            | \$63.60                       | **\$73.00   | \$300.00  |
| Thulium $(Tm_2O_3)^*$                           | \$1,200.00                    | n/a   | n/a   |
| Ytterbium $(Yb_2O_3)^*$                         | \$56.70                       | **\$52.00   | ***\$142.00   |
| Lutetium ( $Lu_2O_3$ )                          | \$1,400.00                    | **\$1,359.00  | ***\$1,357.00   |

\*At PEA, no values were attributed to Tm and Yb due to prices were available at date of publication. \*\* From Asian Metal January 7th, 2014. Prices shown represent Chinese Domestic RE Prices. \*\*\*Chinese Domestic price listed – rounded to the nearest dollar.



# UPCOMING MILESTONES

# **UPSIDE OPPORTUNITIES & OPTIMIZATION**

## Additional Upside Opportunities:

- **Mining:** Room for pit design improvement at detailed engineering
- Metallurgy:
  - Optimization testwork and 2<sup>nd</sup> pilot plant to improve recoveries and reduce reagent consumption which leads to lower processing costs
  - Investigating testwork to separate to individual REO's for a high-purity separation facility
- Production Scale: Potential optimization concerning production rate scenarios in order to maximize the IRR on the project

## Expansion:

- Resources: Verification of lateral and down dip extension by drilling
- By-Products: Testwork to recover zirconium and other by-products (minor metals) in the REE mineralized zones and in the syenite body



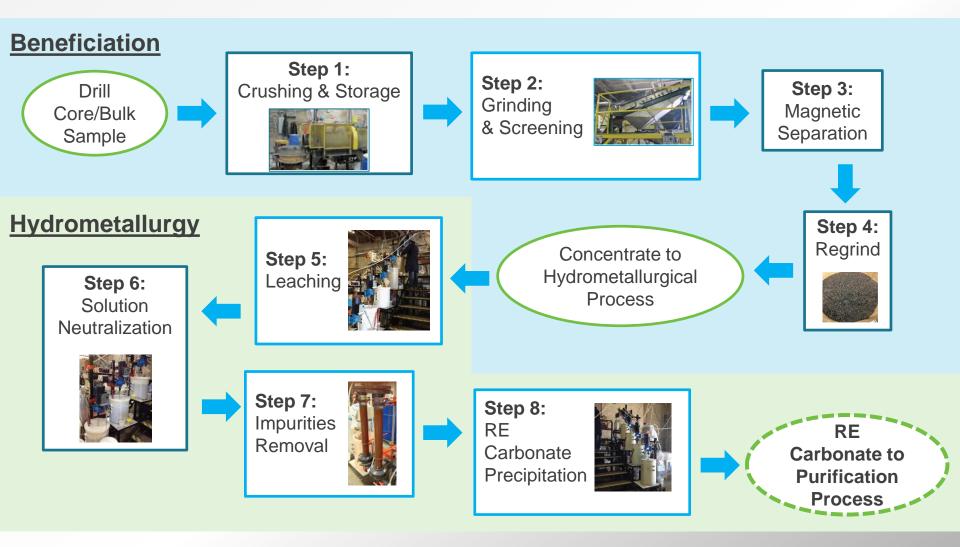
## 2<sup>ND</sup> MINI PILOT PLANT- HYDROMET - 2014



Concentrate of Mixed RE



# **OUR METALLURGICAL PROCESS**





## **PROVINCIAL PROCESS**



- BAPE process (rare earths and more than 2,000 t/d)
  - Project notice will be sent to the Minister describing the general nature of project in winter 2014
  - Preparation of the study with the environmental impact study
  - Public audiences and issuance of certificate of authorization
- MDDEFP requires extensive data, including:
  - Detailed description of the project with plans and quotes
  - Baseline study (environmental and social aspects)
  - As per Directive 019



## FEDERAL PROCESS CANADIAN ENVIRONMENTAL ASSESSMENT ACT



- ✓ January 31, 2013 Project notice submitted to the CEAA
- March 28, 2013 CEAA confirmed that an Environmental Impact Assessment (EIA) is required on Kipawa project
- May 31, 2013 guidelines for EIA were provided by the CEAA
- June 3, 2013 CEAA press release detailing grants for environmental organizations
  - Agency requires one year to complete analysis of EIA
  - Through the Public Consultation Process consists of 4 stages:

2 are completed, 2 are still to come



## **MATAMEC: AN ATTRACTIVE OPPORTUNITY**

### Companies with HREE deposits > 20% and have completed PEA

|                         | Stock Price<br>Feb. 26, 2014<br>(\$CAN) | Shares<br>Outstanding<br>(M) | Market Cap<br>(\$M CAN) | Mineral Reserves<br>(Mt) | JVA<br>End-<br>User<br>Signed | Annual Target<br>Production Rate<br>(Tonnes REO) | HREO<br>(as %TREO) | Basket<br>Price*<br>(\$USD) |
|-------------------------|---|------------------------------|-------------------------|--------------------------|-------------------------------|--|--------------------|-----------------------------|
| Matamec<br>Explorations | \$0.10                                  | 120.3                        | 12.03                   | 19.77<br>Open Pit        | Toyota                        | 3,653  | 38.46%             | \$62.14                     |
| Avalon Rare<br>Metals   | \$0.68                                  | 110.5                        | 65.10                   | 14.60<br>Underground     | -                             | 10,000   | 28.78%             | \$60.44                     |
| Alkane<br>Resources     | \$0.395                                 | 372.5                        | 147.03                  |                          | -                             | 4,170  | 23.32%             | \$41.98**                   |
| Quest Rare<br>Minerals  | \$0.53                                  | 67.2                         | 35.64                   | -                        | -                             | 13,600   | 43.10%             | \$64.48                     |
| Tasman Metals           | \$1.24                                  | 64.8                         | 80.38                   | -                        | -                             | 6,800  | 53.60%             | \$66.03                     |
| Ucore Rare<br>Metals    | \$0.385                                 | 173.8                        | 66.92                   | -                        | -                             | 2,250  | 41.44%             | \$63.87                     |

\*Based on current prices found in Asian Metals (February 26, 2014); Tm and Yb pricing were estimated by Matamec. The Basket Price provided are from Matamec's estimates derived from the available public documents and may not reflect the most recently released public information. \*\*Based on Matamec estimate of Er, Yb, Ho, Tm and Lu distribution in the deposit.



# **A STRATEGIC INVESTMENT!**

Matamec is looking for a strategic financial investor(s) to partner in bringing the Kipawa project to the development stage. This investor will be joining Toyota and another strategic investor to be announced in 2014.

Investment required for phase 1: CDN\$6 million

Investment required for phase 2: CDN\$19 million

| PHASE 1 | <ol> <li>Completion of second mini pilot plant - \$3 million</li> <li>Environmental Studies - \$3 million</li> </ol>             |
|---------|--|
| PHASE 2 | <ol> <li>Development of a separation process plant - \$17 million</li> <li>Marketing and administration - \$2 million</li> </ol> |



## **MATAMEC – VALIDATION OF EXCELLENCE**

- ✓ Completed and filed first NI 43-101 Feasibility Study
- ✓ First RE Company to have an End-User Toyota
- Quebec Government investing in electrification of transport
- Technology applications to increase shortages of heavies
- ✓ Kipawa "Its all about the Geology"
- And upside potential in Gold Properties



## **MATAMEC AT A GLANCE**

| Company Statistics – (as of February 27, 2014) |                                   |
|--|-----------------------------------|
| Current Share Price                            | \$0.10 CAN<br>\$0.09 US           |
| 52 week range                                  | \$0.07-0.26 CAN<br>\$0.07-0.24 US |
| Shares Outstanding                             | 120,300,186                       |
| Market Capitalization                          | \$12.63M CAN<br>\$10.23M US       |
| Working Capital (at Sept 30, 2013)             | \$2.78M CAN (unaudited)           |
| Current Burn Rate                              | \$120K / Mth                      |
| Stock Options                                  | 9M                                |



## CONCLUSION

TO BECOME THE NEXT GLOBAL HEAVY RARE EARTH PRODUCER

- Focused on green energy applications – hybrid and electric vehicles
- Positioned to be the 1<sup>st</sup> mover in North America in production
- Quebec Electrification of Transport to push growth of Matamec





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