



**MARENICA
ENERGY** LIMITED



U-pgrade™

A unique Uranium opportunity

February 2016



- Developed a process to concentrate uranium prior to leaching
- Process applicable to surficial uranium deposits
- Dramatically reduces OPEX/CAPEX compared to conventional technology
- Patented process developed on low grade Marenica deposit
- The process is called ***U-pgrade***TM
- ***U-pgrade***TM may be applicable to copper, tungsten, iron ore, etc with similar gangue characteristics to surficial uranium deposits



Applicable to Surficial Calcrete deposits

- ✓ ***Rejects >95% of mass pre leach***
 - *Smaller, lower cost acid leach circuit*
 - *Reduces OPEX by 50-70%*
 - *Reduces CAPEX by 30-50%*
- ✓ ***Increases size of resource***
 - *Can treat high sulphate ore which is currently discarded*
 - *Lower costs lead to reduced cut off grade*
- ✓ ***Cost benefits***
 - *Lower trigger price for project development*
 - *Bring projects forward in development queue*
 - *Restart mothballed projects*

Benefits of *U-pgrade*TM to *Shareholders and Investors*



MARENICA
ENERGY LIMITED

- Owning disruptive uranium process
- Leverage of investors entering at current market cap
- Re-rating of Marenica, that owns *U-pgrade*TM
- Multiple commercialisation pathways using a variety of structures – licensing, royalties and part ownership of assets
- Assemble portfolio of uranium assets at bottom of cycle
- Uranium exhibits attractive medium term demand/supply balance



- **U-pgrade™** bench scale testwork program in progress on Deep Yellow Tumas ore (Namibia)
 - *U-pgrade™ being applied to bulk samples from the Tumas deposit in Namibia*
 - *Phase 1 testwork expected in Q2, 2016*
 - *Subject to successful testwork program, leading to commercialisation agreement*
 - *Namibia supportive climate for new project development*
- **U-pgrade™** bench scale testwork program (Phase 2) to commence shortly on Toro Energy ore (Western Australia)
 - *Excellent first stage results produced – far beyond Marenica expectations*
 - *Toro encouraged to continue next phase*
 - *Potential for material decrease in Wiluna project OPEX/CAPEX*
 - *Phase 2 testwork results due in Q2, 2016*
- All testwork funded entirely by resource owners. Testwork income earned by Marenica reducing future funding requirement



Marenica's vision

To assemble a portfolio of Uranium mining interests by earning a fair share of the value ***U-pgrade™*** creates for resource owners

Five year business targets..

- Pilot plant well established and available widely for industry use, simplifying testwork for future resources
- Marenica well known and respected in industry – financially sound and strong patent protection
- ***U-pgrade™*** in operation in at least one operating uranium mine
- Use Marenica deposit and ***U-pgrade™*** to drive consolidation of central Erongo calcrete deposits in Namibia
- Identify and pursue diversification into other minerals with similar properties to surficial uranium deposits
- High level financial structuring and partnering to enable growth and diversification while protecting shareholder value and avoiding large scale dilution

Assembling the capability to deliver



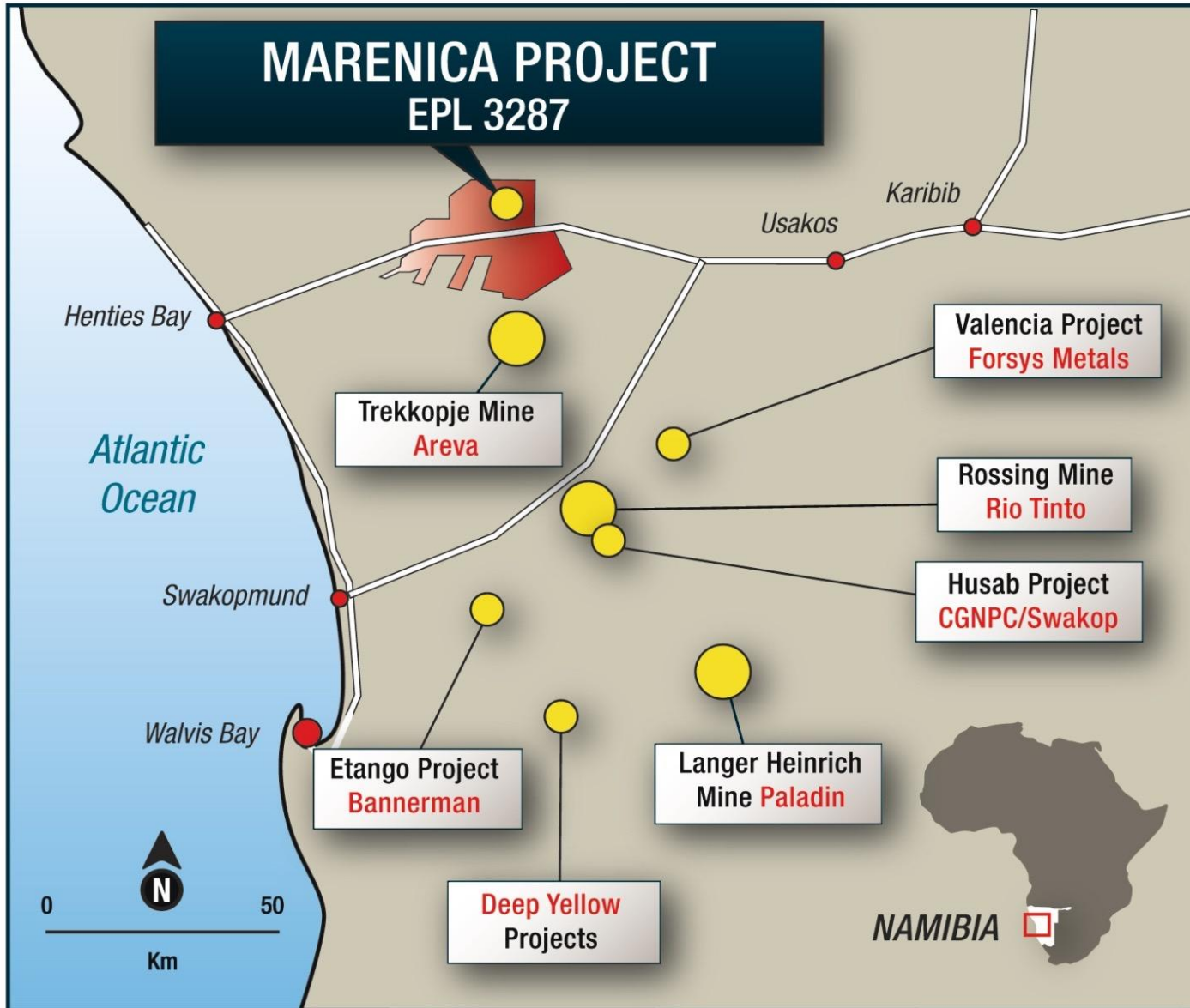


- Convertible Note renegotiated
 - Extended term
 - Principal convertible to equity at \$0.58 per share at Marenica's option
- Underwritten SPP secures funding for balance of 2016
- Testwork underway on 2 ore sources
 - Namibia and Australia
 - Other sources to follow
- Commercialisation discussions to follow current testwork program
- Advanced discussion on pilot plant funding
- Organisational changes in progress to meet future needs



***Marenica Mining
Project -
Namibia***

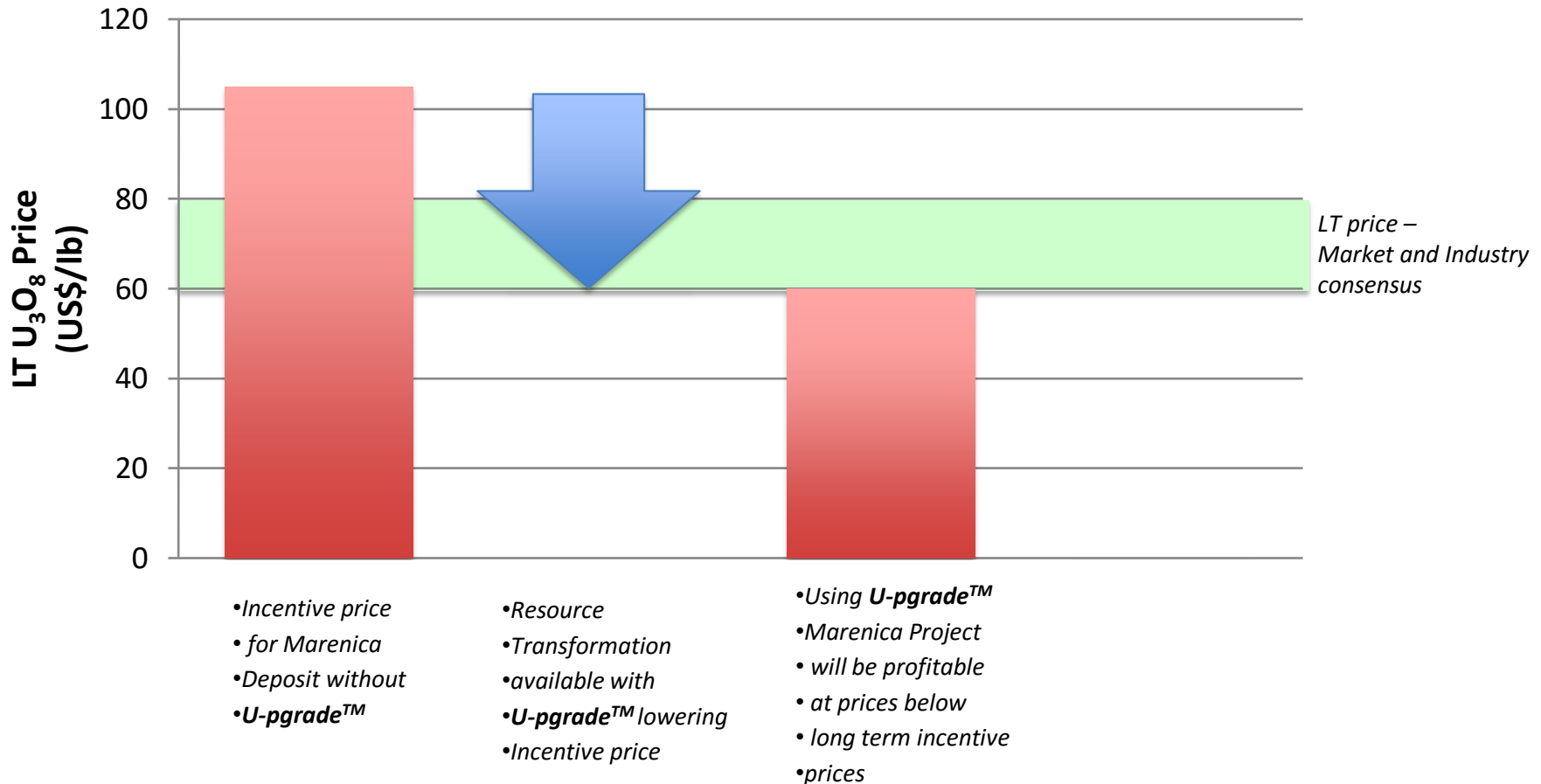
Project Location - Map





- Marenica deposit is a large but relatively low grade resource with similar extraction costs to Trekkopje
- Incentive price was circa US\$105/lb, **BUT** with ***U-pgrade*TM** this reduces to around US\$60/lb, which is at or below many other competing development projects
 - Developed with contract mining, ***U-pgrade*TM** plant and contract processing at Rossing or Husab
 - Optionality to combine with Trekkopje, generating real scale and lower unit costs
- Received independent valuation of A\$25 million on a comparable basis with similar resources

*U-pgrade*TM brings Marenica deposit forward in the development queue





- Next phase of IP development budget has secure funding
 - Convertible Note renegotiated to remove obligation to repay in cash, and
 - Underwritten SPP
- Board and Management reorganisation in progress
- Strong interest in the technology from resource owners
- Robust protection from patent applications now in place
- Commercialisation agreements to follow test work programs
- Seeking to diversify into other commodities



Additional Information



Capital Structure (pre SPP)

- ASX listed – Code MEY
- Shares on issue: 15.76M
- Convertible notes: \$1.65M
- Market capitalisation: \$1.7M*
- Share price: 11c*
- Cash: \$160k* * as at 18th February 2016

Board & Management

- Doug Buerger, Chairman
- Murray Hill, Chief Executive Officer
- John Sestan, Chief Commercial Officer
- Gavin Becker, NED
- Nelson Chen, NED
- Lou Guo Qing, NED
- David Sanders, NED

Key Assets

- **U-pgrade™** uranium processing technology (100%)
- Marenica uranium project, Namibia (75%)

Major shareholders (Current):

- | | |
|-----------------------------|-----|
| ● Hanlong Energy Ltd | 24% |
| ● Mingsun Technology Co Ltd | 10% |
| ● Board & Management | 9% |

Major shareholders (Fully diluted post SPP):

- | | |
|-----------------------------|-----|
| ● Hanlong Energy Ltd | 18% |
| ● Board & Management | 15% |
| ● Mingsun Technology Co Ltd | 7% |



- 61 million pound resource
- Large resource in world standards
- Resource at surface
 - Low strip ratio
 - Easily accessible
 - Low mining costs
- Close to several existing processing plants and excellent infrastructure
- Highly supportive investment climate in Namibia



- No known competing technology
- High cost of conventional technology limits resource development
- Numerous uneconomic resources particularly Namibia and Australia
- Numerous prospective deposits
- ***U-pgrade*TM** catalyst for surficial uranium exploration
- Applicable to other commodities with similar metallurgical extraction properties
- Protected by a number of Patent Applications, ensuring that the entire process and key individual components are covered