

NORTH KOREAN MAGNESITE



*DAVID COPLET
MANAGING DIRECTOR*

*Amsterdam
May 10-12, 2009*

Quintermina AG

51%



49%

GOLDENBOATHOLDING

LOCATION OF MAGNESITE DEPOSITS AND OPERATIONS IN NORTH KOREA



ENERGY

SUNGRI CCM PLANT – NORTH KOREA

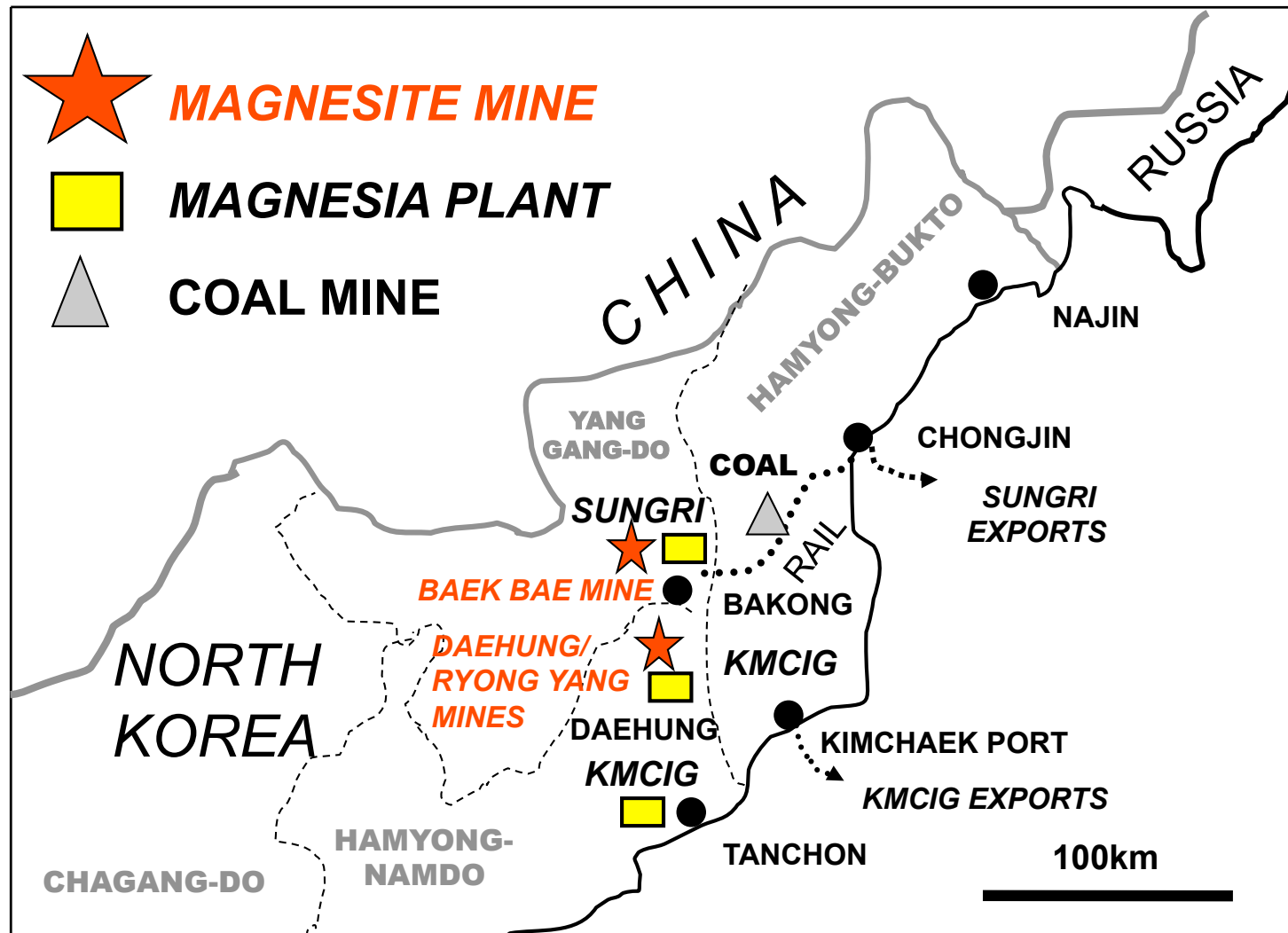
**BUSINESS AGREEMENT BETWEEN
QUINTERMINA AND SUNGRI FOR
EXPORT OF CCM**

KMCIG – KOREA MAGNESIA CLINKER INDUSTRIAL GROUP

**BUSINESS AGREEMENT BETWEEN
QUINTERMINA AND KMCIG FOR
EXPORT OF FM, DBM AND CCM**

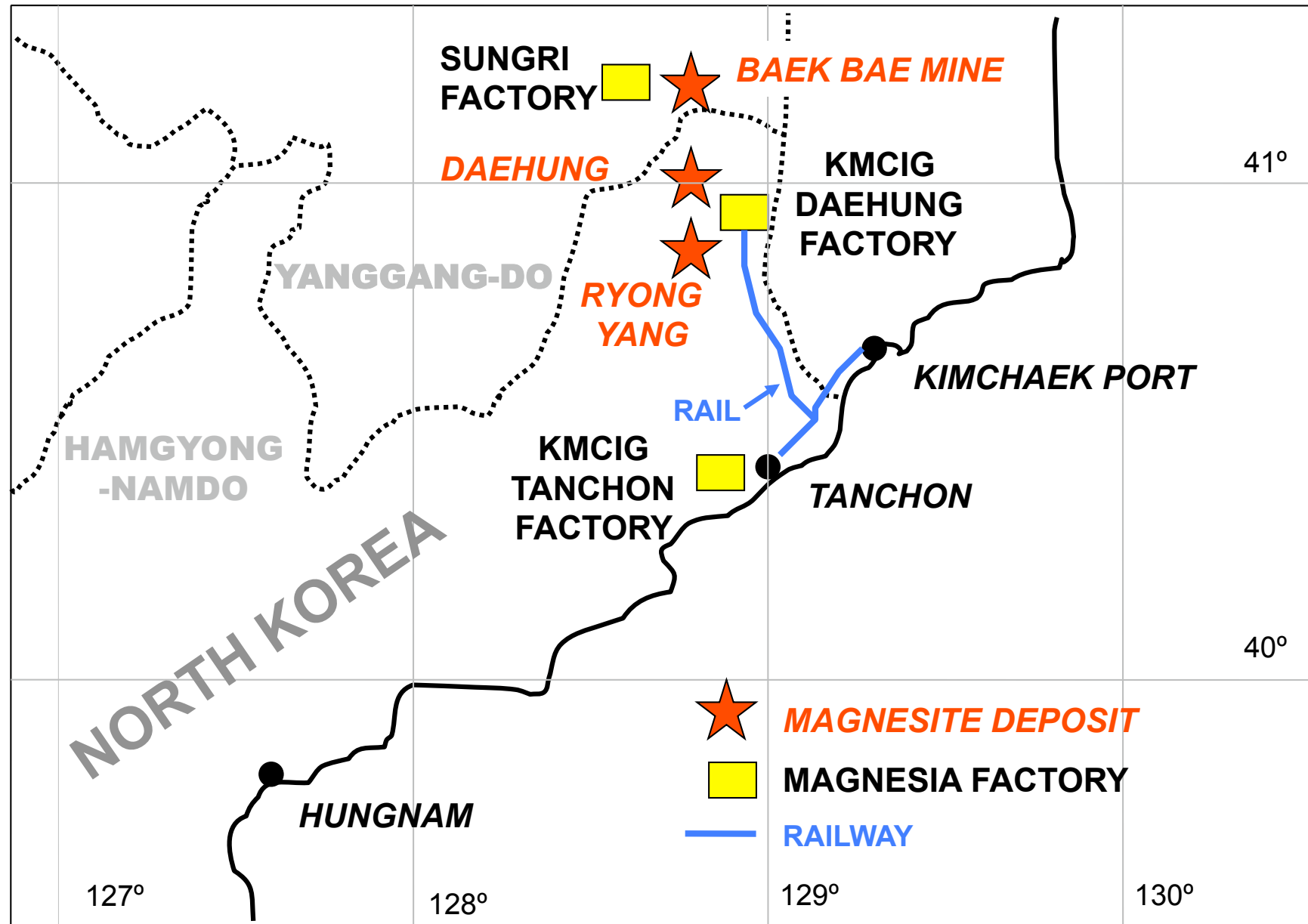
DEVELOPMENT PLANS IN NORTH KOREA

- PRODUCTION OF CCM IN JOINT VENTURE WITH SUNGRI TRADING COMPANY
- EXPORT OF FM, DBM AND CCM OF KMCIG (KOREA MAGNESITE CLINKER INDUSTRY GROUP)
- FILLING VOID CREATED BY CHINA RESTRICTING MAGNESIA EXPORTS BY LICENCE SYSTEM



**LOCATION OF MAGNESITE MINES AND PLANTS
OF KMCIG AND SUNGRI IN NORTH KOREA**

OPERATIONS



LOCATION OF MINES AND MAGNESITE PLANTS

SUNGRI



MAGNESITE STOCKPILE AT SUNGRI FROM WHITE ROCK MINE



MAGNESITE FEED FOR KILNS



KILNS

SUNGRI PLANT AND CCM PRODUCTION



MILLING



BIG BAG STORAGE

TYPICAL 200# QUALITY OF CCM FROM SUNGRI

	<u>Wt. %</u>
MgO	91.5
CaO	1.6
SiO₂	1.1
Fe₂O₃	0.6
Al₂O₃	0.1
LOI	4.6

<200 MESH POWDER

KMCIG

Quintermina AG to assist KMCIG

Quintermina AG is now a business partner with KMCIG and is investing to grow and improve production. Quintermina AG will advise on:

- **Helping to re-fit a Rotary Kiln for CCM**
- **If re-fit successful will look at 2 larger rotary kilns to see if they can be adapted for DBM and/or CCM**
- **Kilns used oil and will now be operated with new gasification system**
- **Modifying existing Shaft Kilns for Agricultural CCM**

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WORLD MINING



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**KMCIG DAEHUNG
MAGNESITE MINE**

Typical DBM and FM products from KMCIG

PRODUCT/ Typical Results	DBM 9010	DBM 9003	FM 96
% MgO	90	90	96.2
% SiO₂	4.3	3.7	1.3
% CaO	1.6	1.5	1.4
% Fe₂O₃	0.9	0.8	0.6
% Al₂O₃	1.4	1.2	0.3
% LOI	0.56	1.48	0.18
Bulk Density g/cm³	3.15	2.87	3.47
Size (mm)	0 - 10	0- 3	0 - 40
Shipment form	BULK	BULK	BIG BAGS

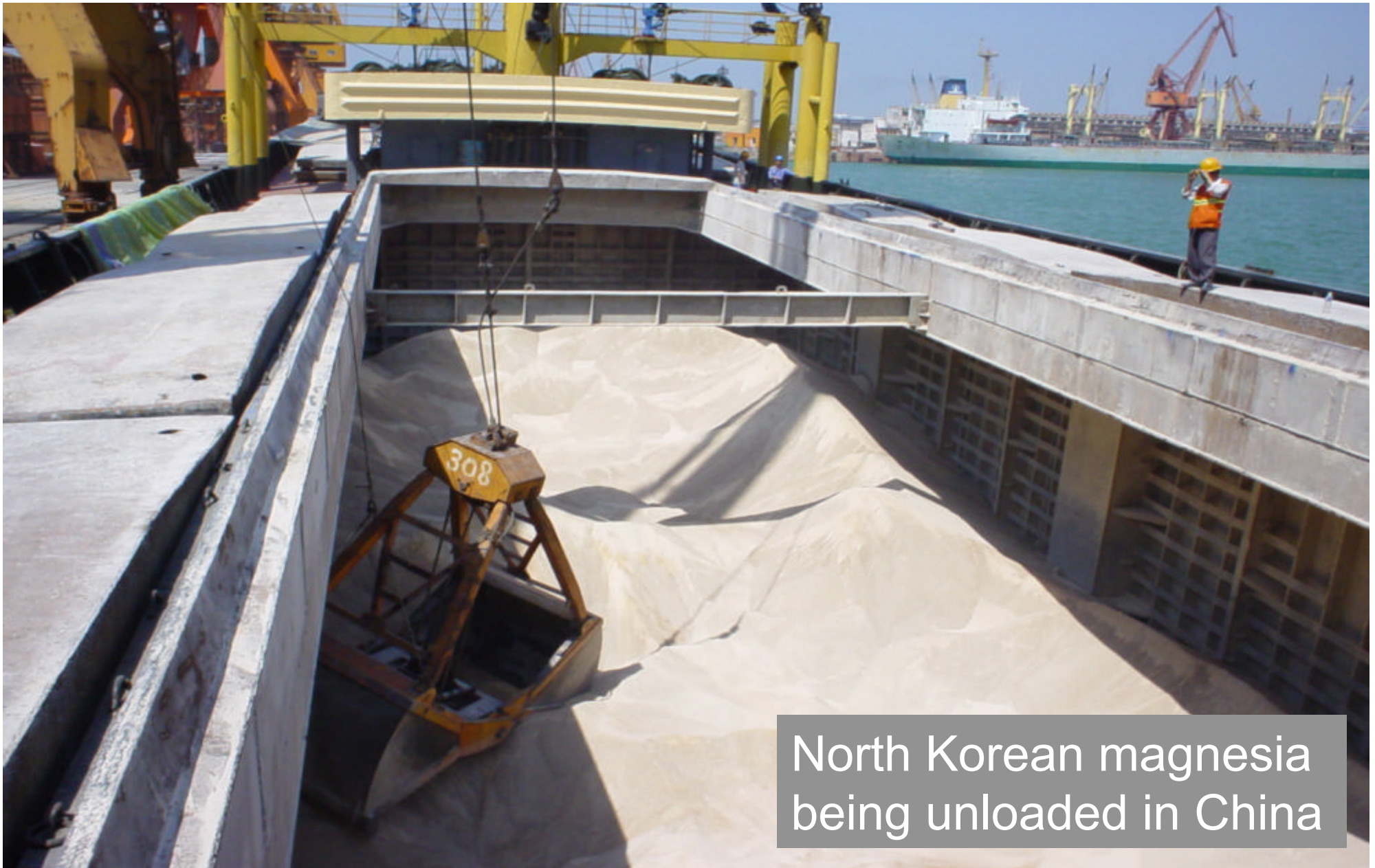
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KMCIG KILNS AT DAEHUNG

LOGISTICS





North Korean magnesite
being unloaded in China



bulk loading of magnesia
in Chinese port

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Cargill

igma

unloading and storage of
magnesia in Amsterdam

Yasheya / Cargill / Igma Bulk Terminal

Strategic Partners

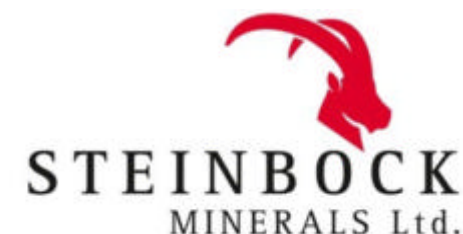
www.rhi-ag.com

www.cargill.com

www.igma.nl



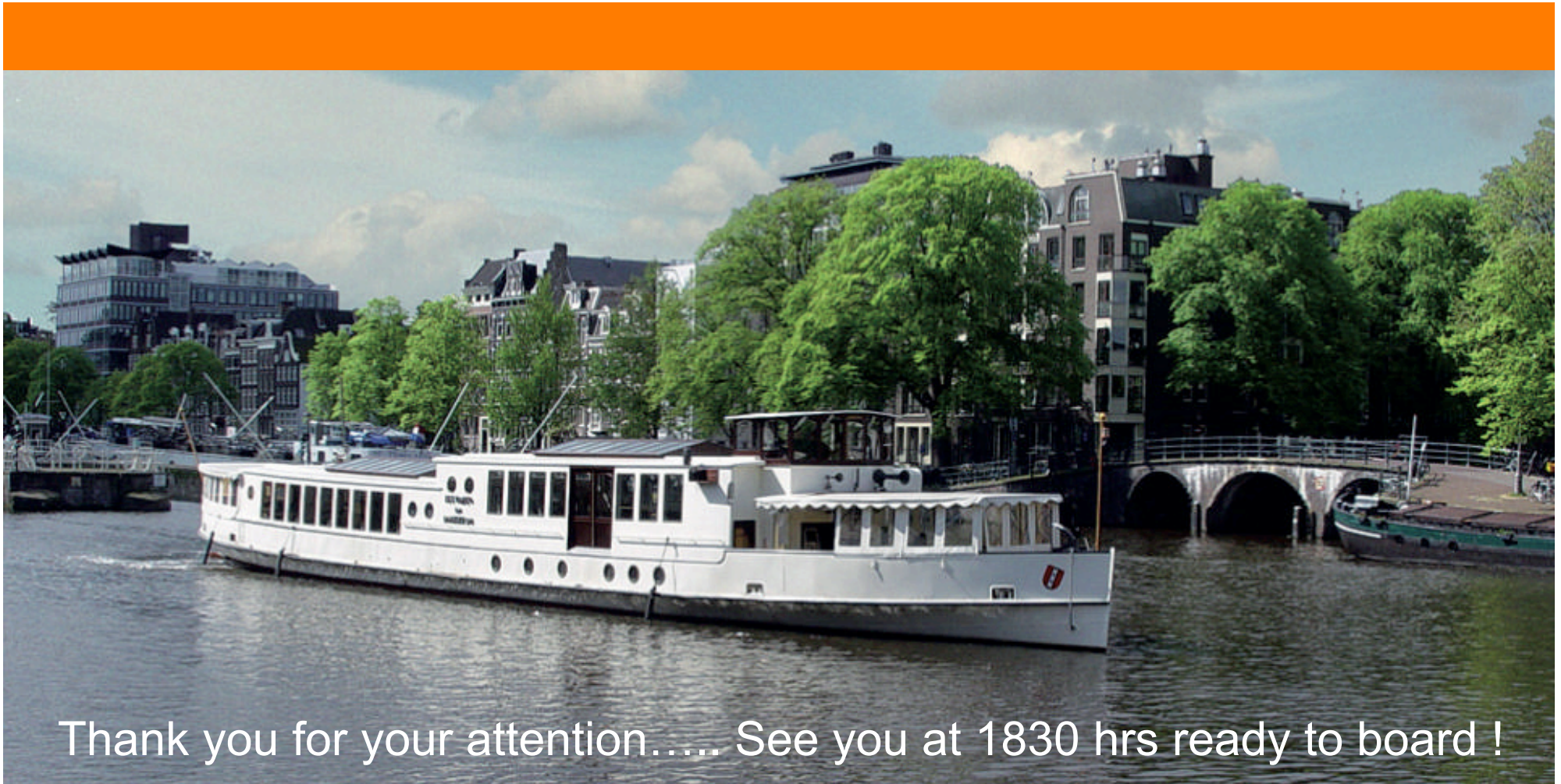
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www.quintermina.net

www.yasheya.net

www.steinbockminerals.net



Thank you for your attention..... See you at 1830 hrs ready to board !