



STRATEGIE E PREVISIONI DI MERCATO PER LA FILIERA DELL'IMPIANTISTICA INDUSTRIALE



Convegno ANIMP 2014

Engineering & Construction: dinamiche competitive e filiere emergenti



Milano, 30 Ottobre 2014

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December 2011 → November 2014





Where do we stand...

Analisi della competitività delle filiere dell'Oil&Gas Italiana e Sud-Coreana

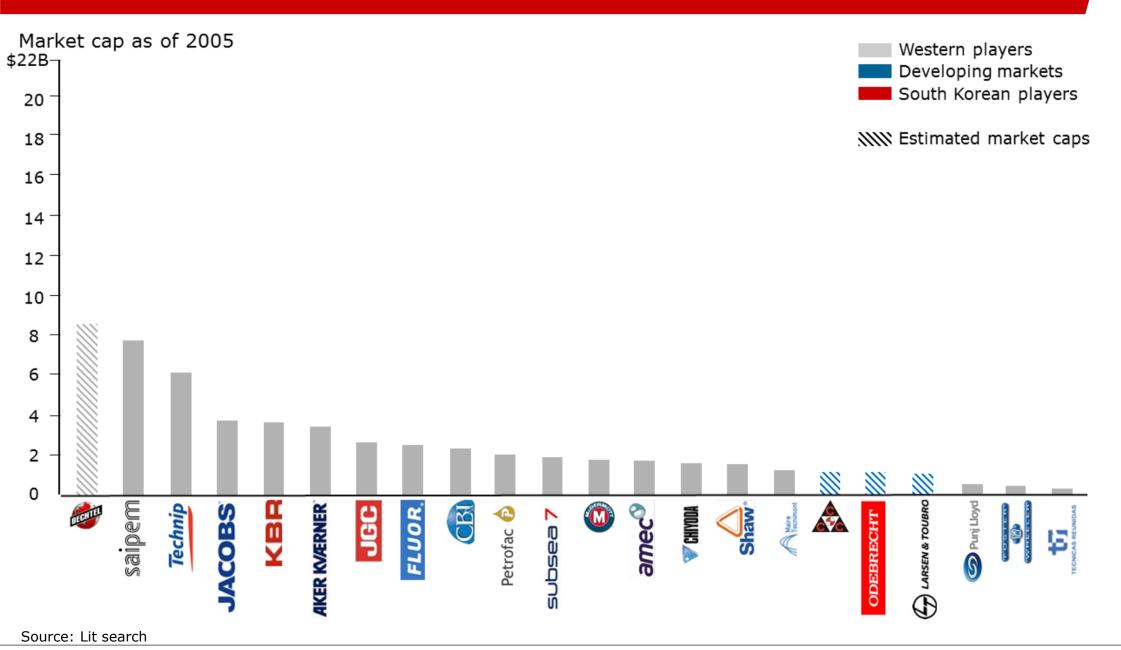
Convegno ANIMP - Full Report

•... how did we get there ...

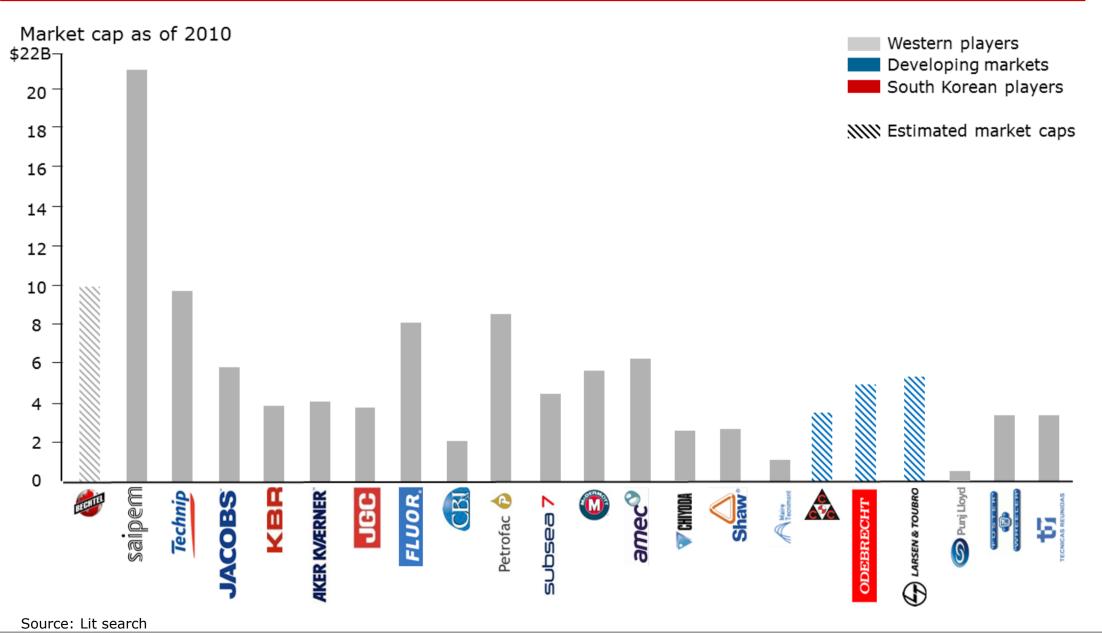
Milano, 1 Dicembre 2011

... what is next

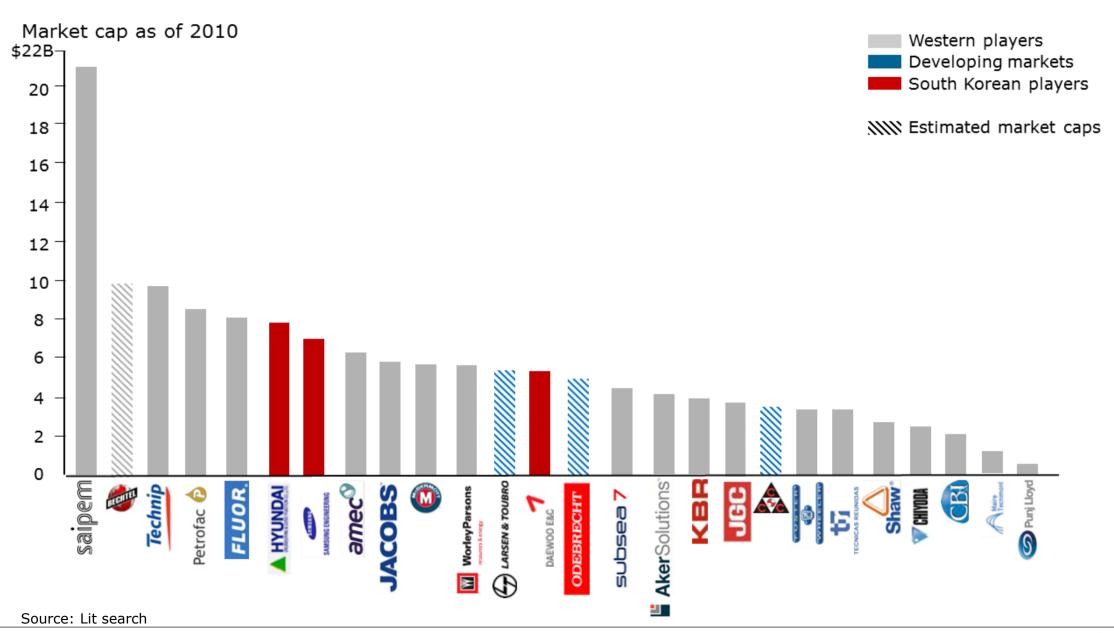
Oil&Gas E&C: Western players, emerging markets and the South Korean competition



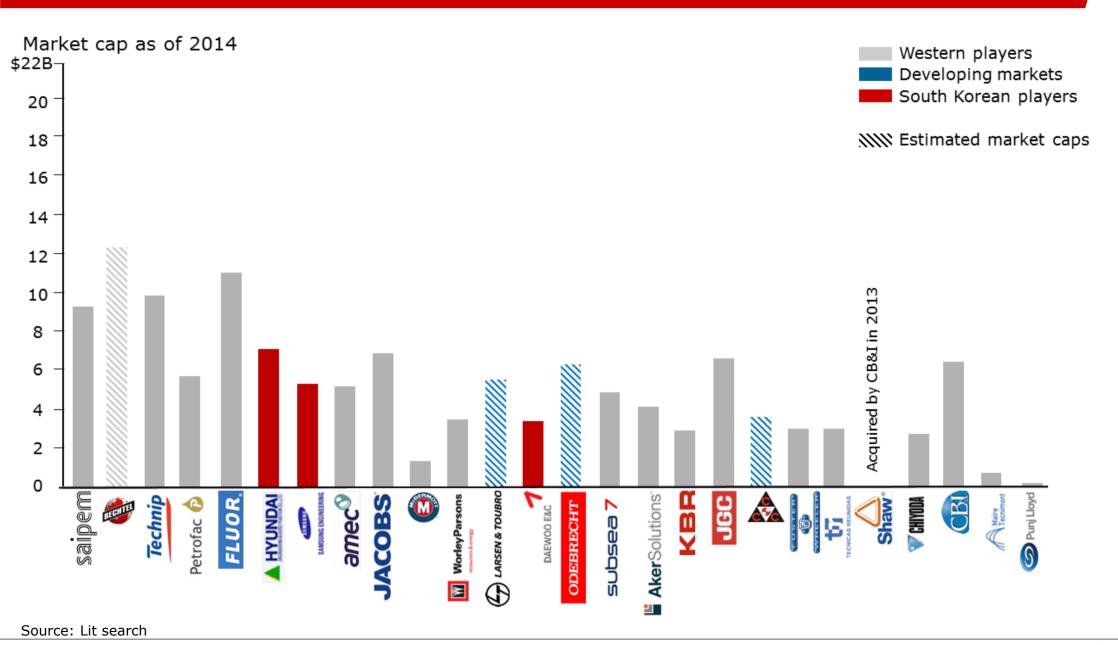
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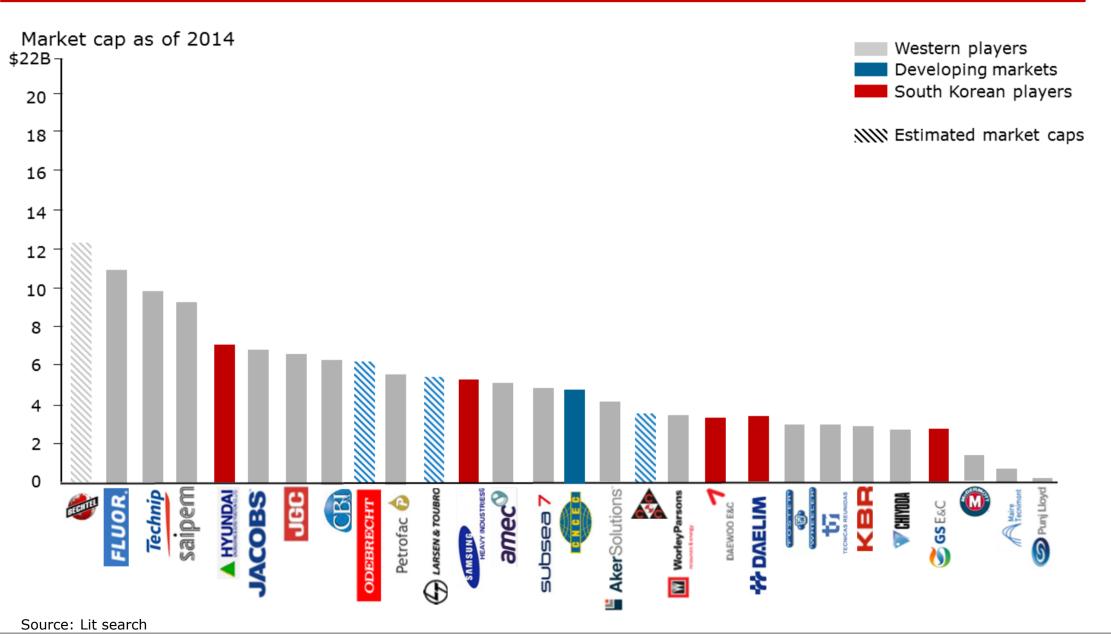
Oil&Gas E&C: Western players, emerging markets and the South Korean competition



Oil&Gas E&C: Western players, emerging markets and the South Korean competition

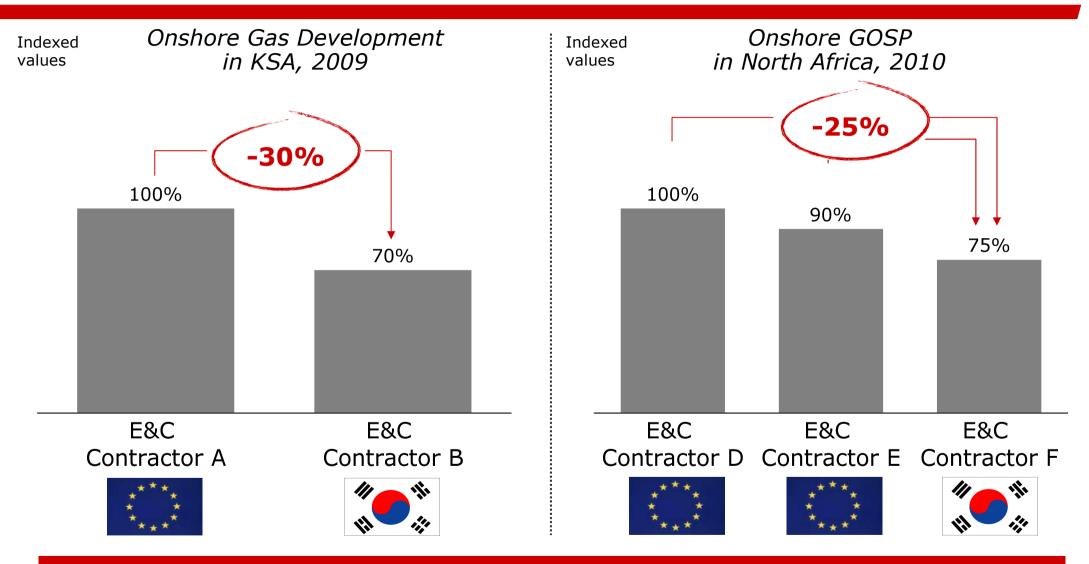


Oil&Gas E&C: Western players, emerging markets and the South Korean competition



How did we get there

South-Korean vs. Europe bid prices in 2008-2012

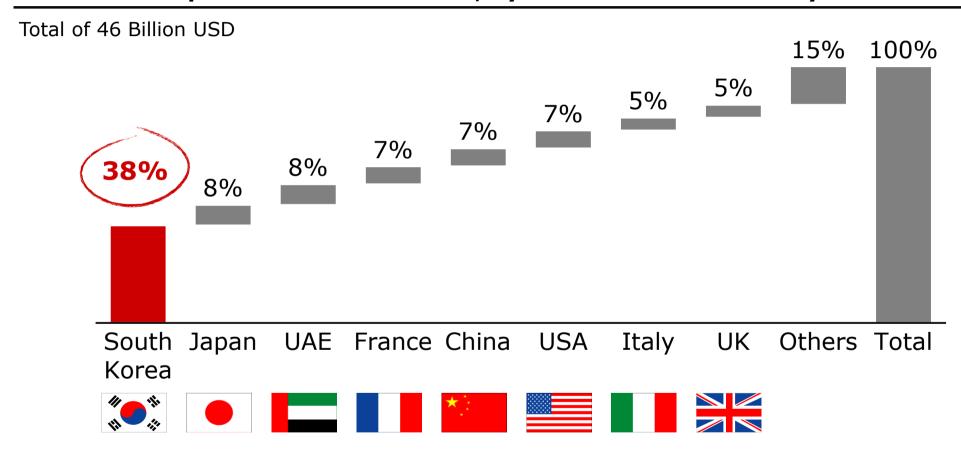


Market experienced price differential between Western and South Korean value chain in the range of 20/30%

Source: interviews

Acquisition of the Market Share: South Korean E&C Contractors in Middle East

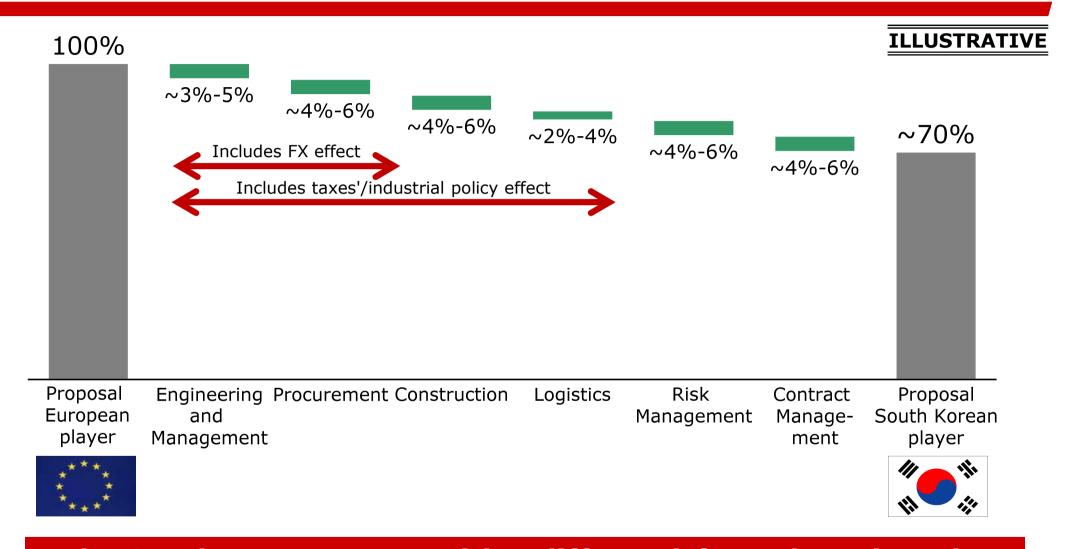
Orders acquired in Middle East in the period April 2009 - March 2010, by Contractors' nationality



~40% of new orders in Middle East in 2009 and 2010 have been assigned to South Koreans E&C companies

Source: Nomura, November 2010

Back in 2011 ... synthesis of competitiveness gaps between Western and South Korean players

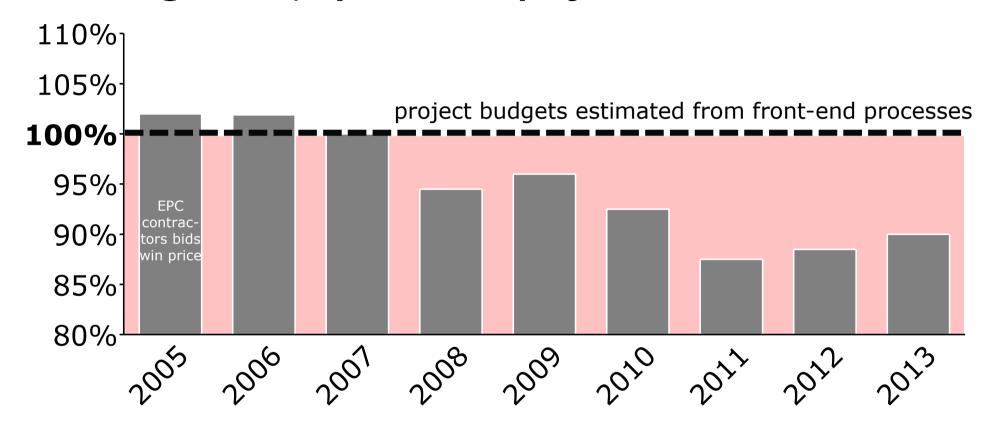


The South Korean competitive differential was based on the build-up of several elements

Source: Bain&Co. analysis; expert interviews

Between 2008 and 2013, the market has been reshaped by competition

Bid-to-budget ratio, hydrocarbon projects in Middle East



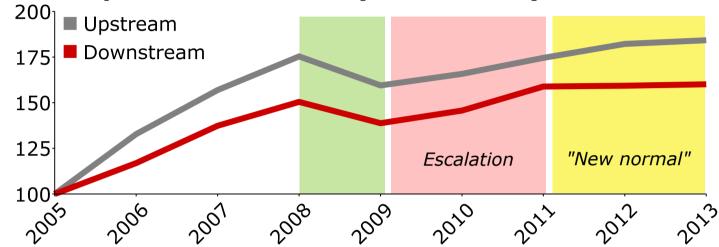
- Competition has been fierce for the acquisition of each project in Middle East
 - Sometime players were **bidding below their costs** at the time of bidding
- Consequently, clients reduced their original budgets estimates parameters

Note: comparison between prices at which EPC contractors won bids, with original budgets (project budgets estimated from front-end processes) Source: MEED, Standard Chartered Research

Aggressive bidding has not been counterbalanced by Procurement and FX trends as in 2007-2008

 cost escalation for raw material and man-labour costs (Eng. as well as Construction)





WON strengthened vs USD

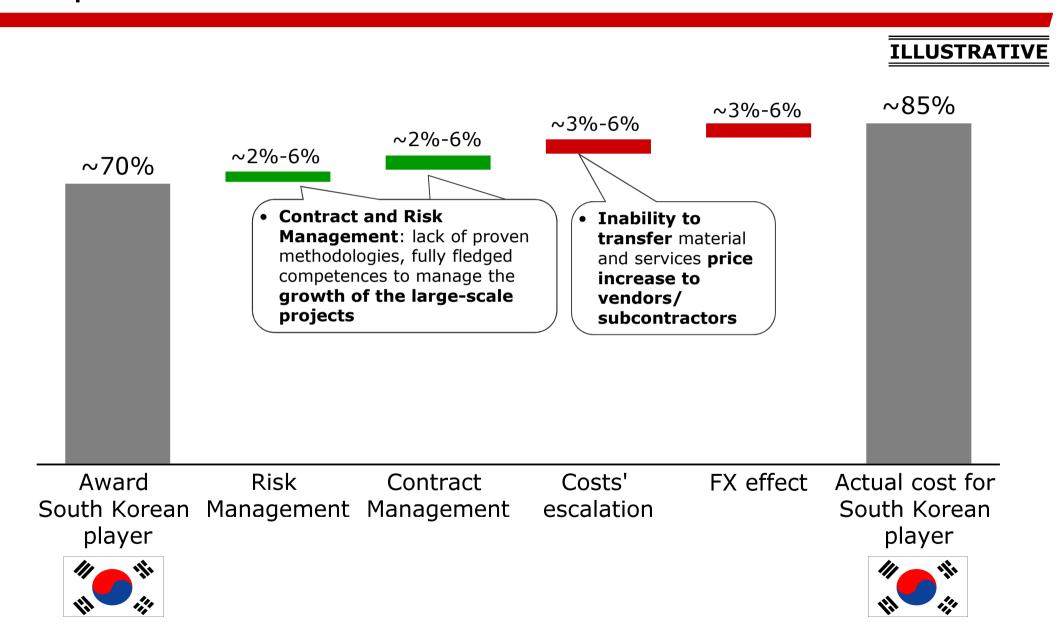
Average yearly KRW/USD FX rate



Source: IHS, Oanda.com

Therefore, some South Korean Value Chain competitive differentials "backfired"...



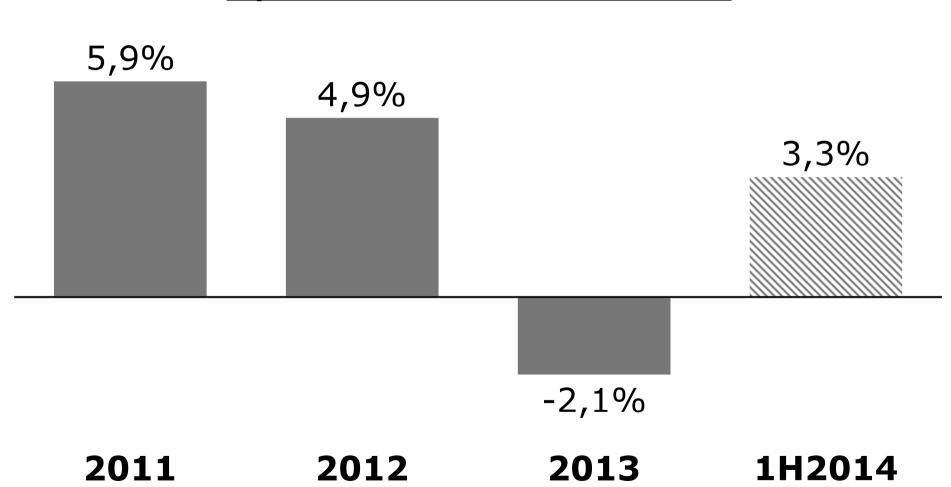


Source: Bain&Co. analysis; expert interviews

... and **challenged overall sustainability** of the E&C contractors



Operating Profit (% of revenues) of top 4 South Korean E&C Contractors



Note: South Korean E&C Contractors considered are Samsung Engineering, GS E&C, Hyundai E&C, Daelim Source: Bain&Co. analysis; companies annual reports and presentations; expert interviews

Way forward

Korean players may have now learned their lesson.

"We believe the F&Cs have **learned their lesson** as is becoming more rational on pricing and **operation**, to be more prudent in order intake, diversifying risks, stronger internal controls and focusing on profits rather than volume."

UBS, January and July 2014

"Many Korean construction companies have started to expand to non-Middle East regions, especially South America and CIS, in the hope of diversifying regions and businesses." Deutsche Bank, May 2014 "The top management at Daelim states the new incoming orders are better margin as Korean E&Cs are no longer as aggressively bidding as before: there are increase instance of **Korean E&Cs forming consortium to** bid for projects, thereby lowering competition among themselves."

UBS, January 2014

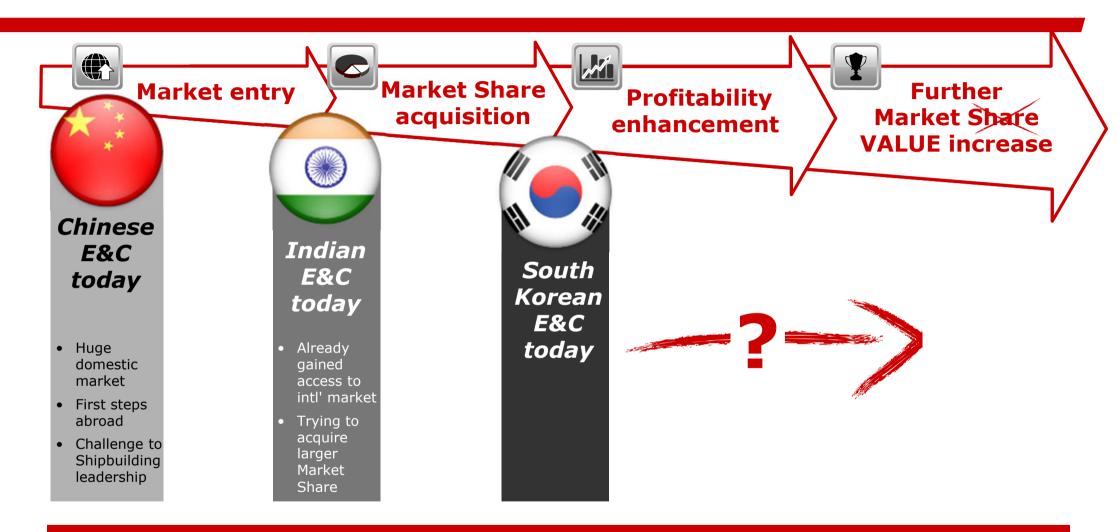
"All South Korean E&C players failed in bids for Malaysia refinery and petrochemical integrated development (RAPID) project packages: **Sinopec Engineering won** the USD1.3b package 2 for the project."

Samsung Securities, August 2014

Source: analyst reports

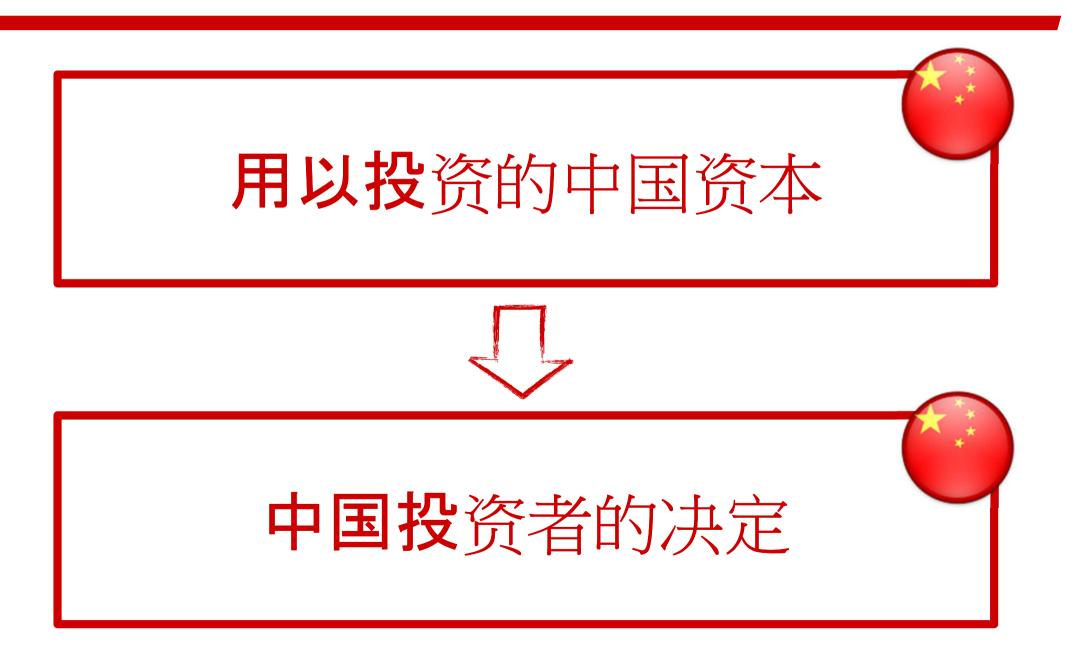


... while **new Value Chains** are emerging...

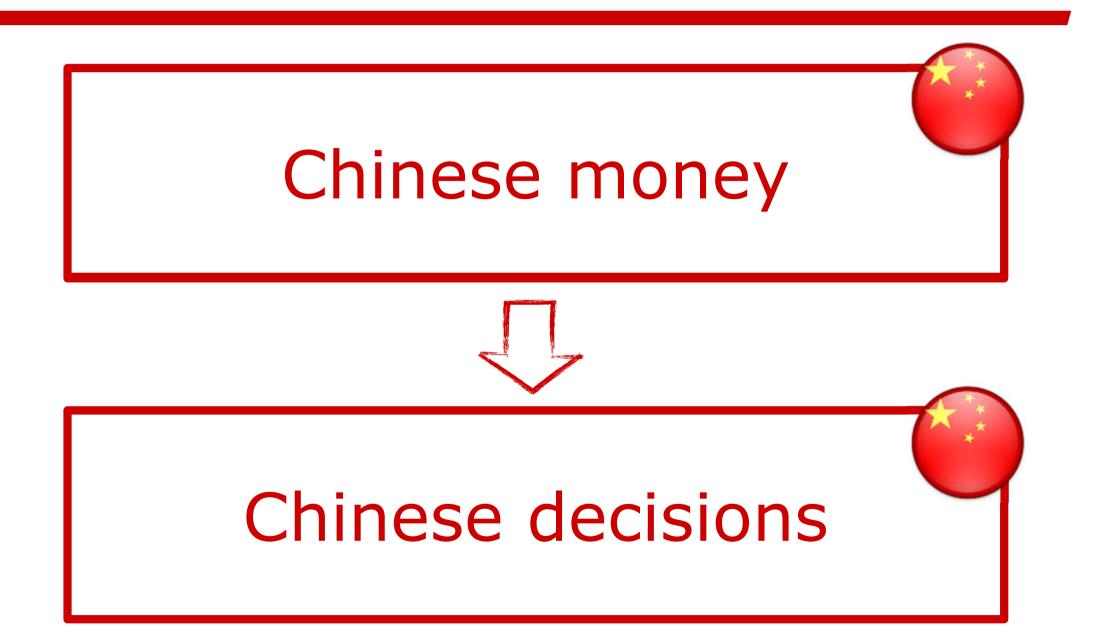


Is the South Korean Value Chain replicating the growth model experienced in other markets (e.g. automotive, ...)?

Chinese E&C Contractors speak a different language

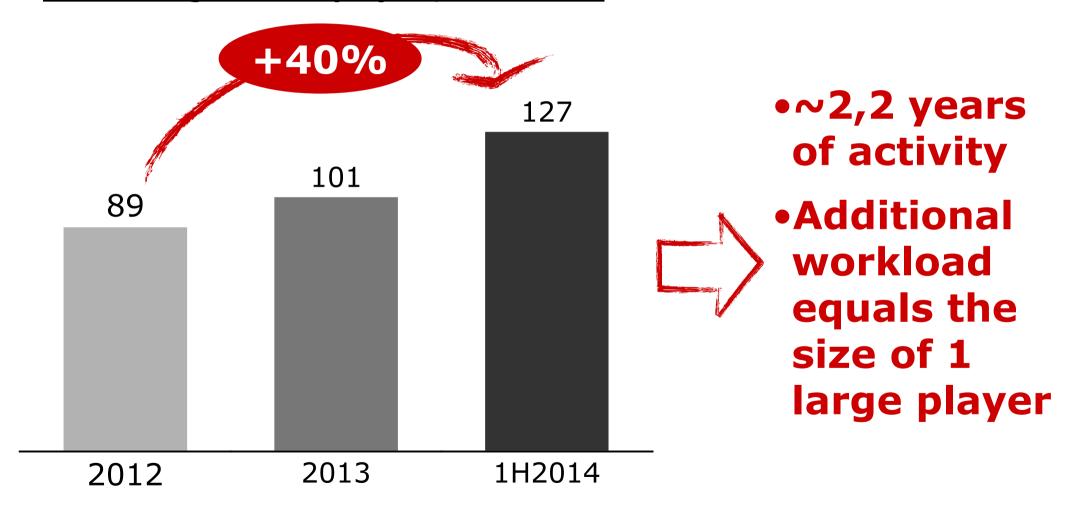


Chinese E&C Contractors speak a different language



Western E&C players have been able to "follow the money"

Backlog of 8 main Western Engineering & Contracting Oil&Gas players, Billion EUR



Companies considered: Saipem, Technip, Fluor, CB&I, Foster Wheeler, Tecnicas Reunidas, Maire Tecnimont, Air Liquide E&C Source: company presentation to analysts

What is next for our Value chain?



•Short term: **Delivery** consistency

•Mid Term: Competitiveness with innovation, size, cooperation

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