## **Export Supply from North Africa**

Bernard Brentnall, Director Fertilizer & Chemical Consultancy Ltd

> AFCOME Meeting Toulouse, October 2011



# **European Expectations**

- As of 2005, a continuing decline of European industry's competitiveness
  But
- Availability of raw materials, intermediates and finished products at competitive prices in North Africa
  And therefore
- Financing projects in North Africa to ensure survival/supply



### **Nitrogen Projects Floated in Boom**

#### Algeria

Ammonia (jv Fertiberia) Ammonia/Urea (jv Fertiberia) Ammonia/Urea (Fertalges) Ammonia+Urea (jv OCI) 2xUrea (jv Bahwan) Ammonia/Urea (various private equity groups, Indian producers)

#### Egypt

Ammonia/Urea (Helwan) Ammonia/Urea (Mopco) Ammonia/Urea (jv EAgrium)

- ✓ Ammonia /AN/AS (Alexfert)
- ✓ Ammonia/Urea (KIMA)UAN (EFC)

Ammonia & Ammonia/Urea (El Delta) Ammonia/Urea (various private equity groups, Indian producers [e.g. Birla, FACT]) V (Egyptian Nitrogen jv)

 $\sqrt{}$ 



### **Phosphate Projects Floated in Boom**

Algeria PA/DAP/NPK (jv Ferphos, Engro) NPK (jv Fertiberia)

#### Egypt

SSP/TSP (local) SSP/TSP (local)

PA/NPK (local) PA (IFFCO/El Nasr/ IFC funding) Morocco PA/DAP (jv Fauji) MAP/TSP (jv Bunge) PA/DAP (OCP) JPH (10xPA/DAP; OCP or jv )

### Tunisia PA (jv CIL) PA/TSP PA/DAP (jv)

ν

V

V

 $\sqrt{}$ 



# The Status Quo



# Nitrogen Status Quo

- Europe has become used to a steady increase in nitrogen from North Africa over 10 years
- The main source has been Egypt's private sector producers
- Exports have extended from urea to ammonia, AN, AS and UAN



### North African Nitrogen Capacity: Existing

	Net Urea	Net AN	UAN	AS	Total N
Current Capacity (million t/a)	6.1	2.0	1.2	0.4	4.0
Production 2009/10 (million tonnes)	6.0	1.3	0.2	0.2	3.3
Algeria		0.1	- /		1 1
Egypt	5.4	1.1	0.2	0.2	
Libya	0.6				1
Tunisia		0.2	1		

**Source: FCC, IFA, Company Statistics** 



### NULLI AILLA ULEA (HISLULLAI)

	2000	2005	2010e
Production (MM t)		18	
World Total	109.1	130.0	155.2
North Africa	2.7	3.2	5.8
Share	3%	2%	4%
Egypt	1.9	2.4	5.0
Libya	0.9	0.8	0.8
Exports (MM t)			
World Total	26.2	29.8	40.5
North Africa	1.4	1.4	3.9
Share	5.4%	4.8%	9.6%
Share (Excl. China)	5.6%	5.1%	11.8%
Egypt	0.6	0.8	3.2
Libya	0.8	0.7	0.7



Source: FCC/IFA

# **Phosphate Status Quo**

- Europe has been adapting to the loss of phosacid capacity over many years.
- Greater ammonium phosphate imports and shrinking demand have smoothed the transition.
- OCP and GCT have been the traditional North African suppliers and remain so. They are joined by Russia.



## North African AP/TSP Capacity (thousand t/a)

		APs	TSP
Total		6,360	2,062
Morocco	Safi, Jorf Lasfar	4,775	770
Tunisia	Sfax, Mdhilla, Gabes	1,585	1,292



# **The Medium Term**



# **Key Issues**

A number of global issues are relevant

- The end of oversupply
- Old industries
- Raw materials
- Infrastructural investment
- Investment costs
- Availability of finance
- Political fragilities and uncertainties
- Government involvement



# Nitrogen Supply to 2015

- Availability of natural gas? No new projects are currently being floated.
- In Egypt optimization and rationalization. No new export project.
- The outcome of current Algerian projects will determine the future .
- Libyan priority to re-start existing plants: mid-2012?



### North African Urea/UAN Capacity: Under Construction

		Net Urea	UAN	Total N
Total		4.8	0.5	2.4
Algeria		3.5	- /	1.6
Sorfert (Orascom/Sonatrach)	Arzew	1.1		0.5
Sharkia (Bahwan/Sonatrach)	Arzew	2.3		1.1
Egypt		1.3	0.5	0.8
EFC/OCI	Ain Sukhna		0.5	0.2
Egyptian Nitrogen (MOPCO/Agrium)	Damietta	1.3		0.6



# Phosphate Supply to 2015

- New export supply will be available only from Morocco .
- A part of the new supply at Jorf will come from jvs serving their own markets outside Europe.
- Developments in Egypt will be partly aimed at the domestic market .

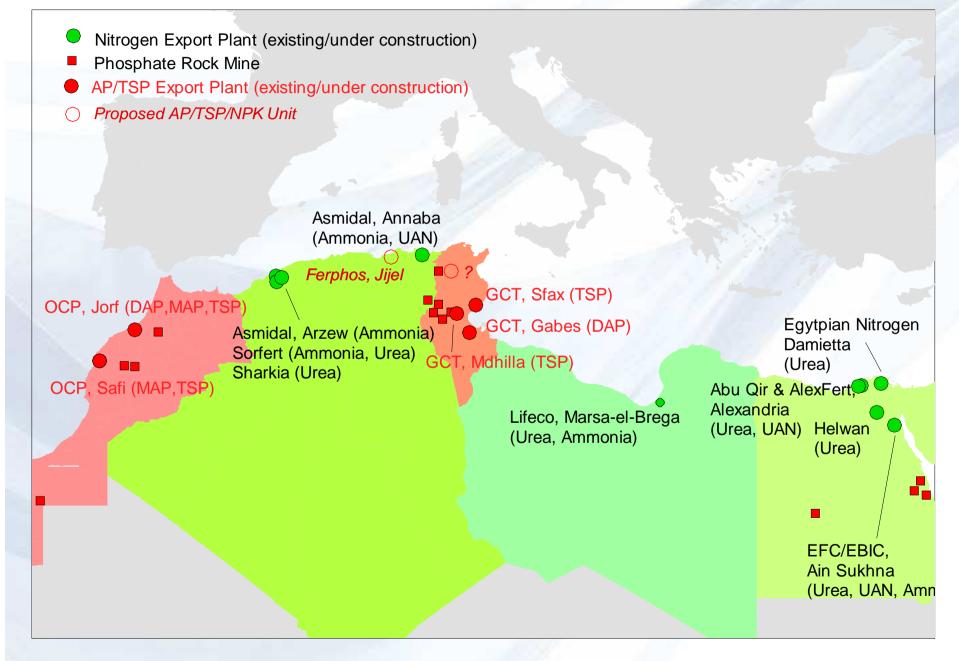


### North African New Medium-term AP/TSP Capacity (thousand t/a)

		APs	TSP
<b>Total North Africa</b>		3,670	500
Morocco	Jorf Phosphate Hub	4,000	
Tunisia	Mdhilla		500
Closures?	Sfax	- 330	



### **North African Fertilizer Export Facilities**



# Conclusions



# **Changing Patterns**

- European industries are unlikely to be foremost in jvs in North Africa- except the Yara Libyan link.
- European industries are unlikely to distribute product from North Africa.
- OCI, Agrium and Yara lead the way in establishing marketing position in Europe to move products from North African plants.



# Interdependence

In 2009: 50% of N. African urea exports to Europe 55% of imports into Europe from N. Africa

20% of N. African AP/TSP exports to Europe 50% of imports into Europe from N. Africa

We already have an integrated market with export supply due to grow.



### West Europe Raw Material Imports, 2009

	Ammonia	Gas/LNG	Phosphate	Phos Acid
	(MM t )	(BCM)	Rock	(MM t P2O5)
			(MMt)	and the
Total	4.0	397	4.5	0.6
N.Africa	0.8	63	1.6	0.3
Share	20%	16%	36%	50%
	(27% excl.	(Spain/Italy		
	intra-regional)	45-50%)	1.19	

Source: FCC/IFA/BP



# **The Afcome Question**

- Afcome's invitation to speak on Mediterranean supply come in May 2011
- At that time political uncertainty ruled.

What this analysis shows is the mutual dependence of North Africa and Europe in our sector. A serious dislocation of supply from North Africa would not be easily replaced.



## Thank you for your attention

Bernard Brentnall, Director *Fertilizer & Chemical Consultancy Ltd* FMB House, 6 Windmill Road, Hampton Hill, Middlesex TW12 1RH, UK Tel: +44 20 8979 7866; Fax:+44 20 8979 4573 Email: bernard.brentnall@fertchem.co.uk

www.fertchem.co.uk

