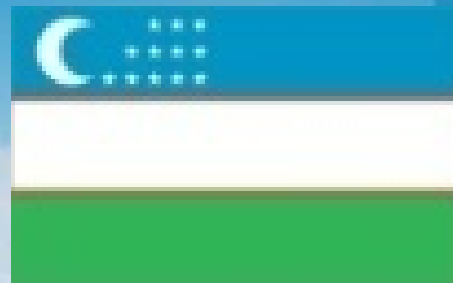


INDIA



UZBEKISTAN



Uzkimyo sanoat

Chemical Industry of Uzbekistan

UZKIMYOSANOAT

STATE JOINT-STOCK COMPANY

Republic of Uzbekistan, Tashkent, Navoiy Street, 38, 100011
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INTRODUCTION

INTRODUCTION TO UZKIMYOSANOAT SJSC



Chemical industry of Uzbekistan has enterprises producing mineral fertilizers, chemical crop protection agents, chemical fiber and yarn, chemical reagents for mining industry, synthetic resin, polymer items and other products



INTRODUCTION

STRUCTURE OF UZKIMYOSANOAT

“Uzkimyosanoat” SJSC

Internal Audit Service

Production of mineral fertilizers and crop protection agents

OJSC
“Navoiyazot”

OJSC
“Maxam-Chirchik”

OJSC
“Ferganaazot”

OJSC
“Ammofos-Maxam”

OJSC
“Samarkandkimyo”

JV CJSC
“Elektrohimpzavod”

OJSC “Kukon
superfosfat zavodi”

Dehkanabad potash
fertiliser plant

Research and development organizations

Uzkimyosanoatloyiha

Tashkent
Scientific-Research
Institute for
Chemical Technology

JV
“Aziya
Tehno-Proyekt
Injiniring”

Production and processing of synthetic materials and other products

Fergana Chemical
Plant of Furan
Compounds

OJSC
“Jizzah plastmassa”

Unitary Enterprise
“Kungrad soda plant»

JV LLC
“Maxam-Uzbekistan”

JV LLC
“ISU NAVOIY CHEMICAL”

Service organizations

13 regional
TJSC
“Kishlokhujalikkimyo”

Unitary Enterprise
“Hamkor-Kimyoservis”

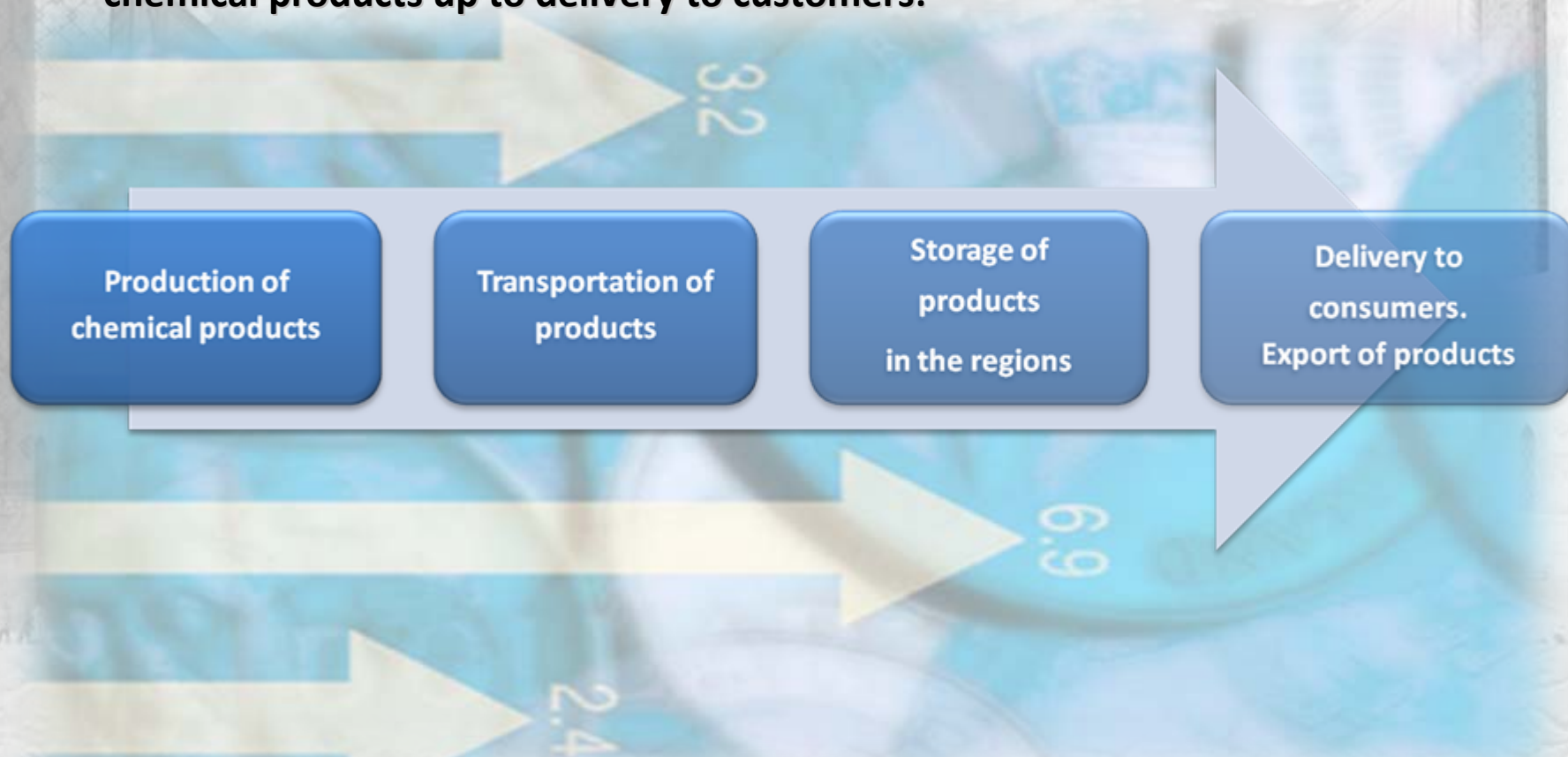
LLC
“Kimyotrans”

CJSC
“Kimyo savdo ta’minot”

ACTIVITIES

THE MAIN ACTIVITY

The main activity of Uzkimyosanoat is management of chemical enterprises in Uzbekistan, including the entire chain, from production of chemical products up to delivery to customers:



ACTIVITIES

LIST OF MAIN PRODUCTS

Mineral fertilizers and inorganic materials

Nitrogen and
phosphate fertilizers

Ammonia

Caustic soda and
soda ash

Organic chemistry, artificial filaments and polymeric materials

Cellulose and
cellulose acetate

Fiber,
acetate filament

Polyethylene products

Chemical reagents for energetic, chemical, gold extraction industries

Cyanic sodium,
thiourea,
polyacrylamides

Nitric acid,
sulfuric acid,
hydrochloric acid

Catalysts

Crop protection products

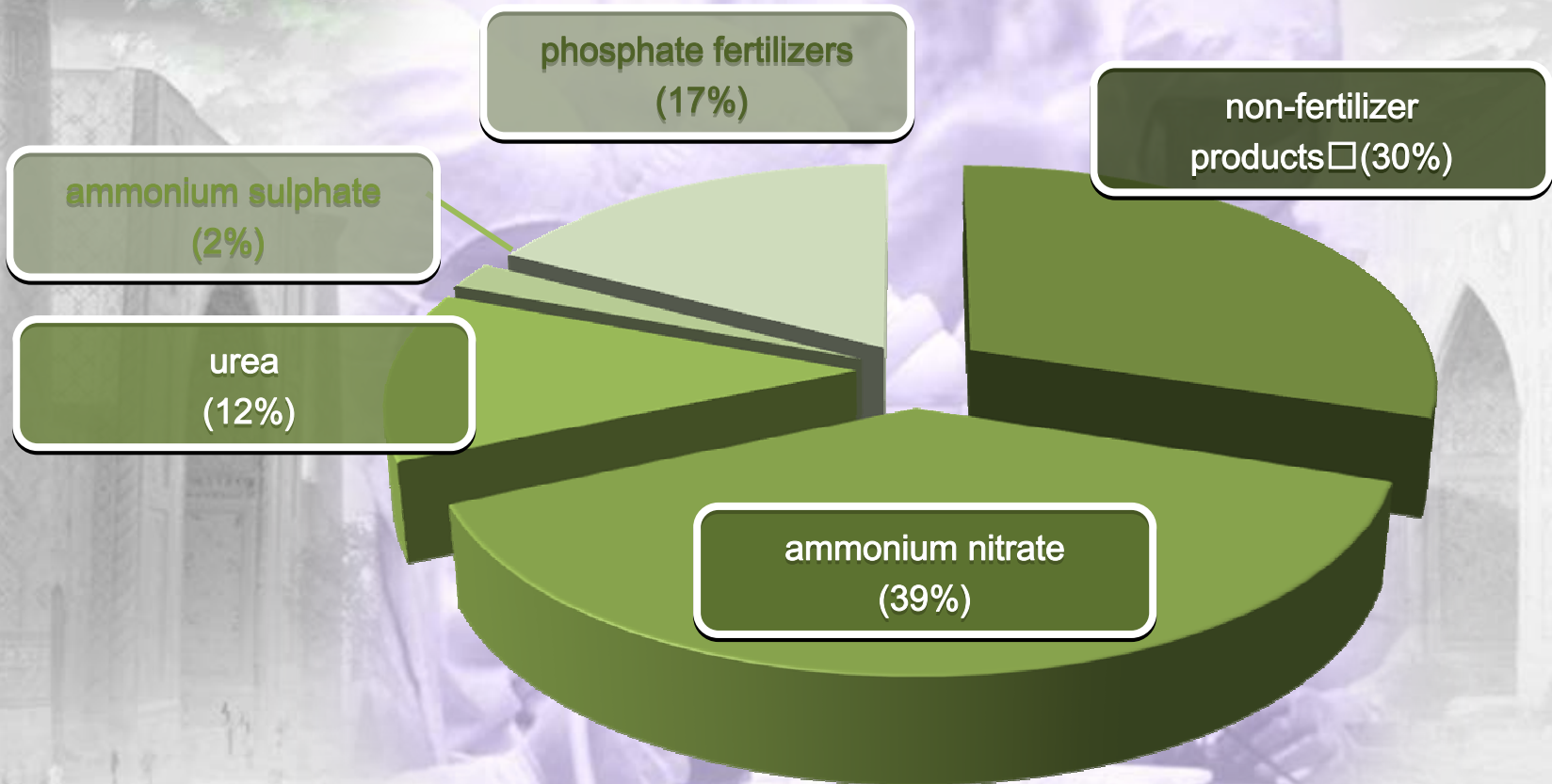
Crop protection
products

Chlorine magnesium
defoliant

Acetic acid, acetylene
and other products

ACTIVITIES

Structure of production



INVESTMENTS

INVESTMENT APPEAL OF THE CHEMICAL COMPLEX

There is a stable demand growth trend for the main products of enterprises both in Central Asia and in the countries of Middle East and Eastern Europe

Availability of core raw materials and energy resources

Availability of developed transportation infrastructure

Availability of qualified engineering and technical personnel



PROJECTS FOR INDIAN PARTNERS

1. ORGANIZATION OF AMMONIA PRODUCTION

- **Planned production capacity: 650 thousand tonnes (2000 tonnes per day).**
- **Production is planned to be placed on the free areas of Uzkimyosanoat enterprises**
- **Industrial site is supplied with all necessary transport and power infrastructure.**
- **Project should be implemented on “turn-key” basis**
- **Estimated amount of required investment is 300 million USD. It is desirable that foreign partners will be involved in project financing**

PROJECTS FOR INDIAN PARTNERS

1. ORGANIZATION OF AMMONIA PRODUCTION

Favorable factors

▶ The country has large reserves of natural gas - the basic raw material for ammonia production

▶ The technological process provides a competitive advantage in terms of production costs compared to existing installations putted into operation before 2000 year.

▶ There are necessary free areas and infrastructure for the construction of the new ammonia production

- Power consumption of the new production is ~7.5 Gcal per tonne of ammonia;
- Reducing emissions of harmful elements into the environment

PROJECTS FOR INDIAN PARTNERS

2. ORGANIZATION OF DIMTEHYL ETHER (DME) PRODUCTION AT FARGHONAAZOT OJSC

Project objective:

Establishing production of DME – alternate environmentally friendlier fuel.

- **Production of 160 thousand tonnes of methanol per year.**
- **Production of 100 thousand tonnes of DME per year.**

Product properties and comparison with other fuels

Comparison of net calorific value:

- **1,6 kg of DME is equal to 1 kg of liquefied natural gas (LNG) – propane, butane**
- **1,25 m³ of DME is equal of 1 m³ of LNG – propane, butane**
- **1,2 m³ of DME is equal to 1 m³ of diesel fuel**

Application of DME

DME can be used in the following areas:

- **automobile fuel mixed with LNG or diesel fuel;**
- **fuel for electricity generation.**

PROJECTS FOR INDIAN PARTNERS

2. ORGANIZATION OF DIMTEHYL ETHER (DME) PRODUCTION AT FARGHONAAZOT OJSC

- *Production is planned to be established at Farghonaazot OJSC (Farghona Region).*
- *Industrial site is supplied with all necessary transport and power infrastructure.*
- *Project should be implemented on a “turn-key” basis.*
- *Estimated amount of required investment is ~90 million USD. It is desirable that the foreign partner is involved in project financing.*
- *Project implementation period is 2012–2015.*
- *Project preliminary feasibility study is required.*

Final project cost will be defined during the development of preliminary feasibility study.

PROJECTS FOR INDIAN PARTNERS

3. POLYCRYSTALLINE SILICON PRODUCTION

Projected production capacity:
3000 tons per year of polycrystalline silicon.

Own raw materials for production:
Under construction production of metallurgical silicon

Capital costs:
Will be determined jointly with foreign partners during feasibility study development.

Project implementation period:
2014–2017

PROJECTS FOR INDIAN PARTNERS

4. ORGANIZATION OF BLEACHES PRODUCTION FOR TEXTILE INDUSTRY AT NAVOIYAZOT OJSC

PROJECT OBJECTIVE

Establishing production of hydrogen peroxide and sodium percarbonate with the capacity of 10 thousand tonnes.

Hydrogen peroxide is one of high-tonnage products of modern chemical industry. The demand for it grows by 10% per annum at current world capacities of 2,4 million tonnes.

The greatest application (65% in world practice) the product has at pulp and paper enterprises to bleach cellulose and paper. It is also used in textile, tanning industries to bleach textile materials, leather, fur.

Sodium percarbonate – the largest part of produced sodium percarbonate is used to manufacture synthetic detergents and household bleaches.

Uzkimyosanoat

Thank you for your attention!

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