

TALCO: potential investment and business opportunities for EU companies.

TALCO – METALLURGICAL MINING AND CHEMICAL CORPORATION



Aluminum
Smelter



**TALCO
CHEMICAL**

Production of cryolite
Production of aluminium fluoride
Production of sulfuric acid



Coal Mining



TALCO GOLD



Mining of gold, silver and other rare
earth metals



TALCO FLUORITE

Fluorspar and fluorite
mining



Business center

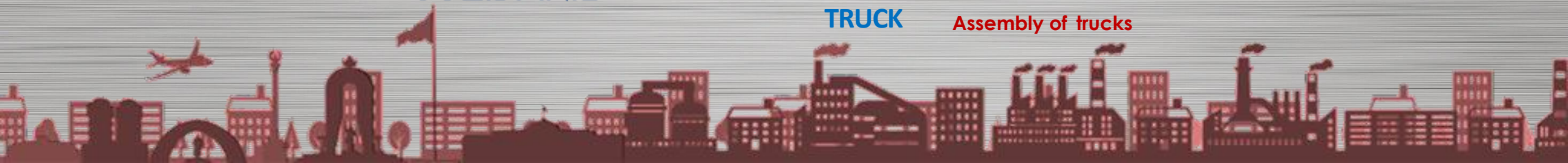


SOZIDANIE

TALCO
UZAUTO
TRUCK



Assembly of trucks



TAJIK ALUMINIUM COMPANY



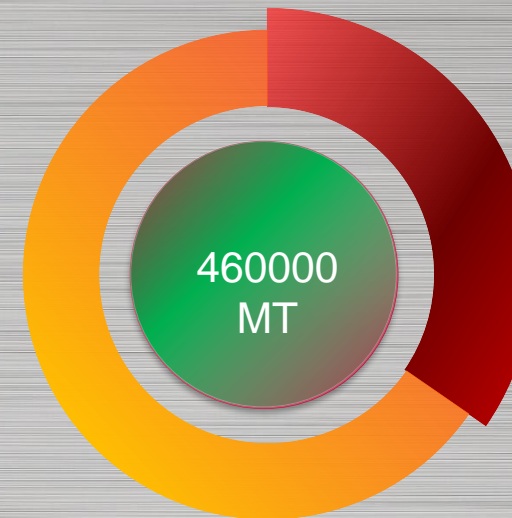
- The Tajik aluminum company is the largest industrial enterprise of Tajikistan
- TALCO is the first Tajik brand of the international standard, ISO certified
- > 8000 persons work at TALCO Group.
- The design capacity of the plant is 517 000 tons per year of high grade primary aluminium and 360 000 tons of baked anodes.
- TALCO's products are exported to many countries of the world: Turkey, Uzbekistan, Japan, China, Western Europe, and others.



TALCO RESOURCES

Coal deposit– 400 mln. tons.
High calorific value: 6500 Kcal

Production of coal (MT)



TALCO CHEMICAL LLC



In September 2016, the construction of TALCO's three large industrial facilities was completed: 1) plans for the production of cryolite (capacity - 12.0 thousand tons / year), aluminum fluoride (18.0 thousand tons / year) and sulfuric acid (130.0 thousand tons / year) on the territory of the Yovon region. TALCO Chemical LLC began to supply its products to Tajik Aluminium Smelter (TALCO) in 2017 along with exports to Kazakhstan, Azerbaijan and other CIS countries engaged in production of primary of aluminium.

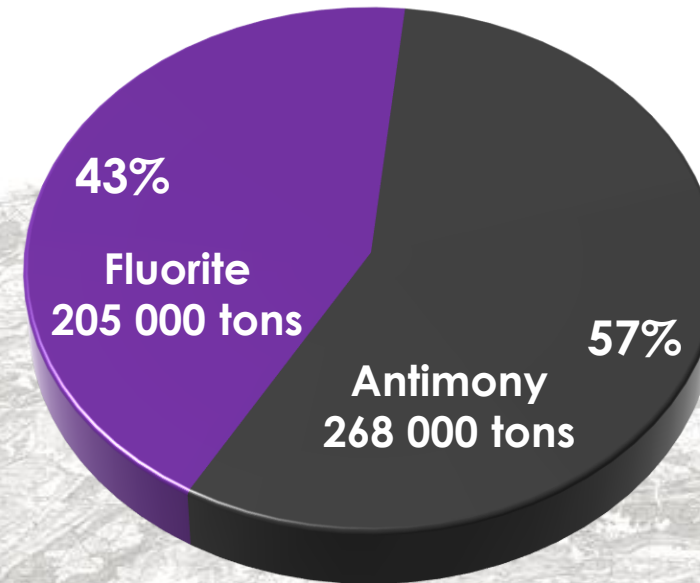
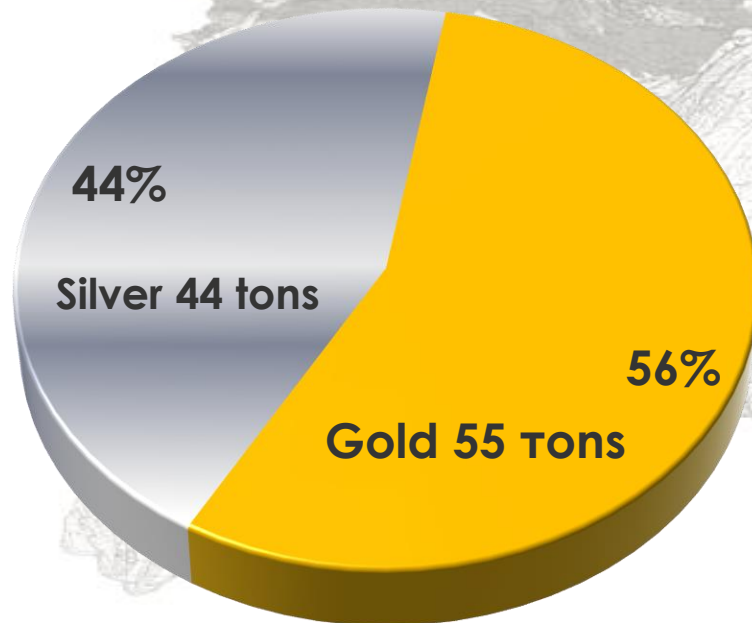
Investment costs of all three plants is USD 126 mln.

- Production of cryolite: 12 000 tons per year
- Production of aluminium fluoride : 18 000 tons per year
- Production of hydrofluoric acid– 21 000 tons per year
- Sulfuric acid– 130 000 tons per year

CLOSED JOINT STOCK COMPANY “TALCO GOLD”

Konchoch gold polymetallic deposits and resource potential:

Район Айни РТ



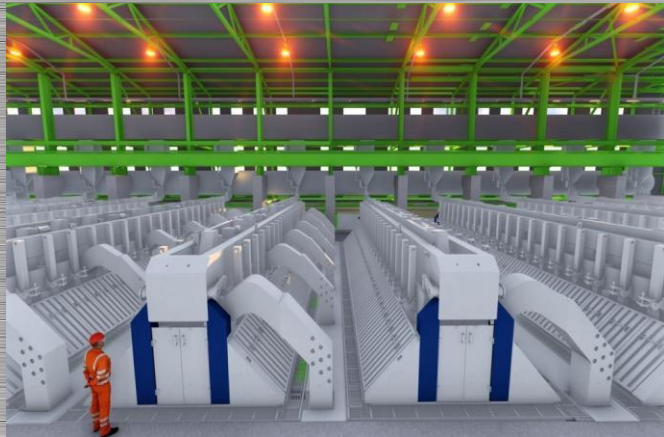
TALCO Gold Closed Joint was incorporated in April 2017 for the implementation of an investment project - the development of the Konchoch group of mineral resources. The aim of the project is to create industrial capacities in Central Tajikistan on the basis of explored ore reserves, united into a single production complex: construction of exploration facilities (mines, wells and etc); construction of an enrichment plant; construction and commissioning of a metallurgical plant

OJSC “TAKOB” (MINING AND PROCESSING)

- ❖ Takob operates fluorite and galena mine (it contains 30g/t silver and 1-2g/t gold in situ).;
- ❖ Takob has signed Master Agreement with Central Asia Minerals and Metals Ore Trading FZCO (“CAMM”)
- ❖ 24,5% of CAMM belongs to VAST RESOURCES PLC (AIM-listed mining company);
- ❖ Under master agreement CAMM will invest in modernization of Takob processing plant with providing equipment, technology and technical knowhow to upgrade and optimise the processing plant;
- ❖ CAMM will undertake the responsibility for the management and execution of the Project;
- ❖ Takob will be responsible to supply ore and other supplies
- ❖ Takob has undertaken to supply no less than 1,000,000 tonnes of ore
- ❖ CAMM will help with improved marketing of produced concentrates (Fluorite 97%, Pb 56%, Zn 35%)

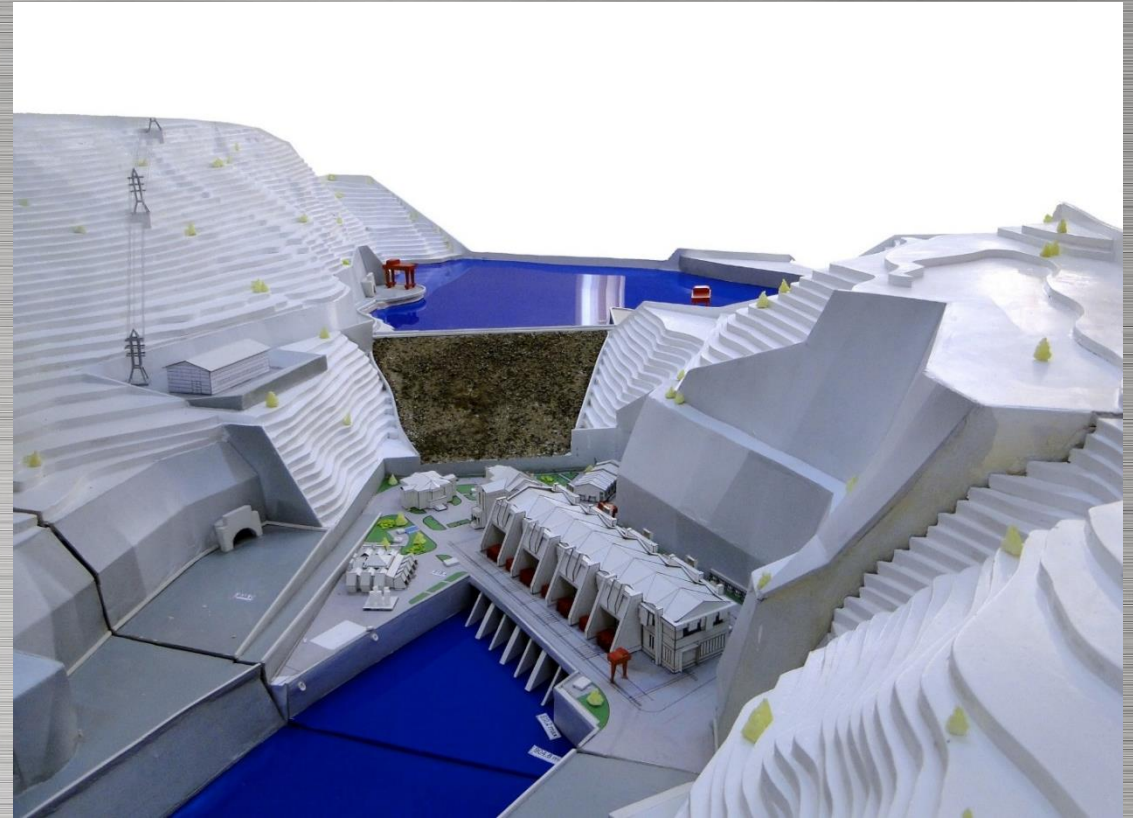
SMELTER MODERNIZATION PROJECT

- ❖ Capital cost for first phase: USD 210 mln;
- ❖ Annual production capacity: 80 000 MT
- ❖ The project foresees automated control system of whole production process
- ❖ Significant reduction of electricity consumption from current 24 kw to 14,5 kw per MT of AL
- ❖ Reduction of anode consumption from current 900 kg to 500 kg per MT of AL
- ❖ Reduction of carbon emission



SHUROB HPP

- ❖ The project capacity - 862,5 MW
- ❖ Annual average output – 3213 billion kwt;
- ❖ The project has feasibility study;
- ❖ The adopted type of the dam is stone-and-soil;
- ❖ Estimated project cost: USD 2 billion
- ❖ The Shurob HPP addresses important social challenges facing the region
- ❖ Minimal environmental impact due to the small volume of its reservoir (64 million m³)
- ❖ The volume of the body of the dam - 2.365 million m³
- ❖ Dam height - 93.0 m
- ❖ Length along the ridge - 246.0 m
- ❖ The width of the dam along the ridge - 15m



TALCO MINERALS

- ❖ Maykhura deposit is located on the southern slope of the Gissar ridge with an altitude of 3400-4160 meters.
- ❖ The valley of Maykhura has an altitude of 800-1600 meters with steep relief.
- ❖ The deposit is located 97 km away from Dushanbe city;
- ❖ Distance from the main road is 30 km.
- ❖ Mineral reserves: 1,554 thousand tons;
- ❖ Tungsten oxide-15,351 tons
- ❖ Zinc – 21,476 tons.



- ❖ The project involves the organization of the production of aluminium sheets on the basis of the new equipment of the Italian company FATA Hunter;
- ❖ Projected production volume is not less than 30 thousand tons/year;
- ❖ The cost of the project is 80 million US dollars;
- ❖ Consumers: Turkey, Europe, Korea, Japan and USA;
- ❖ Scope of application - shipbuilding, automotive, construction, aviation, etc.;
- ❖ Upon completion of the project, 200 people will be employed at the enterprise.



BUSINESS UNITS

**Electrolyses
technologies**



**Syngas
technologies**



**Anode
production system**



**Chemical
technologies**



Mining technologies



Service



Maillefer system

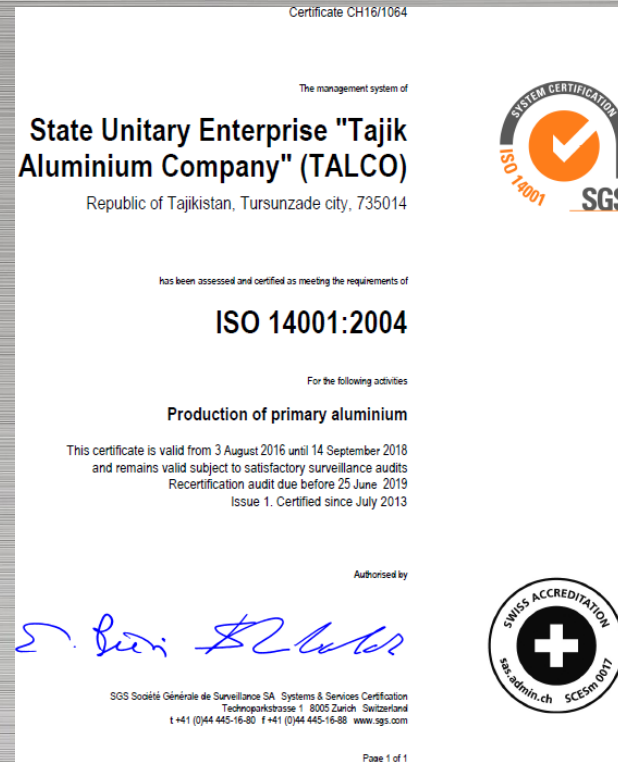
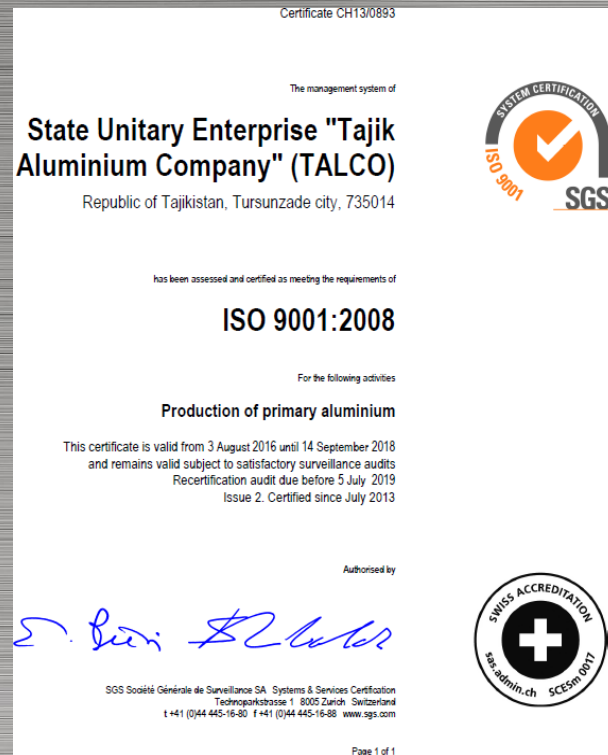


Assembly of trucks

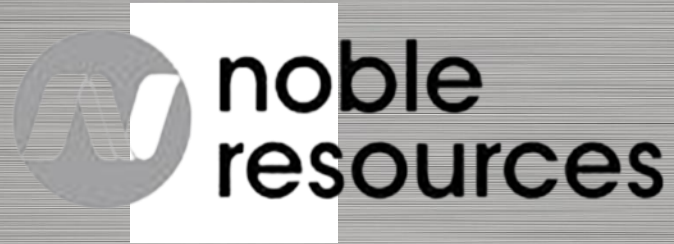


Network of excellence

TALCO CERTIFICATES



MAIN PARTNERS OF THE COMPANY





TALCO

Metallurgical Mining
and Chemical
Corporation