



Asset Realisation through  
Environmental Clean-up at Trepca  
Mines Complex, Kosovo

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# Where is Kosovo?

- Population approx. 2 million
- 150 km by 150 km



# Trepca Mines Complex: Zvecan Lead Smelter

- 165 hectares
- Full range of metal products
- Up to 25,000 employees
- Past 20 years poor maintenance
- Presently under UNMIK management



# Operational Status

- Derelict facilities
- Large non-operating work force
- Some processes repairable: battery recycling plant
- Clean-up required



# Environmental Situation

- 52,000m<sup>3</sup> hazardous wastes
- Contaminated sub-surface
- Health and Safety to workers
- Impact on surrounding environment
- Adjacent water course

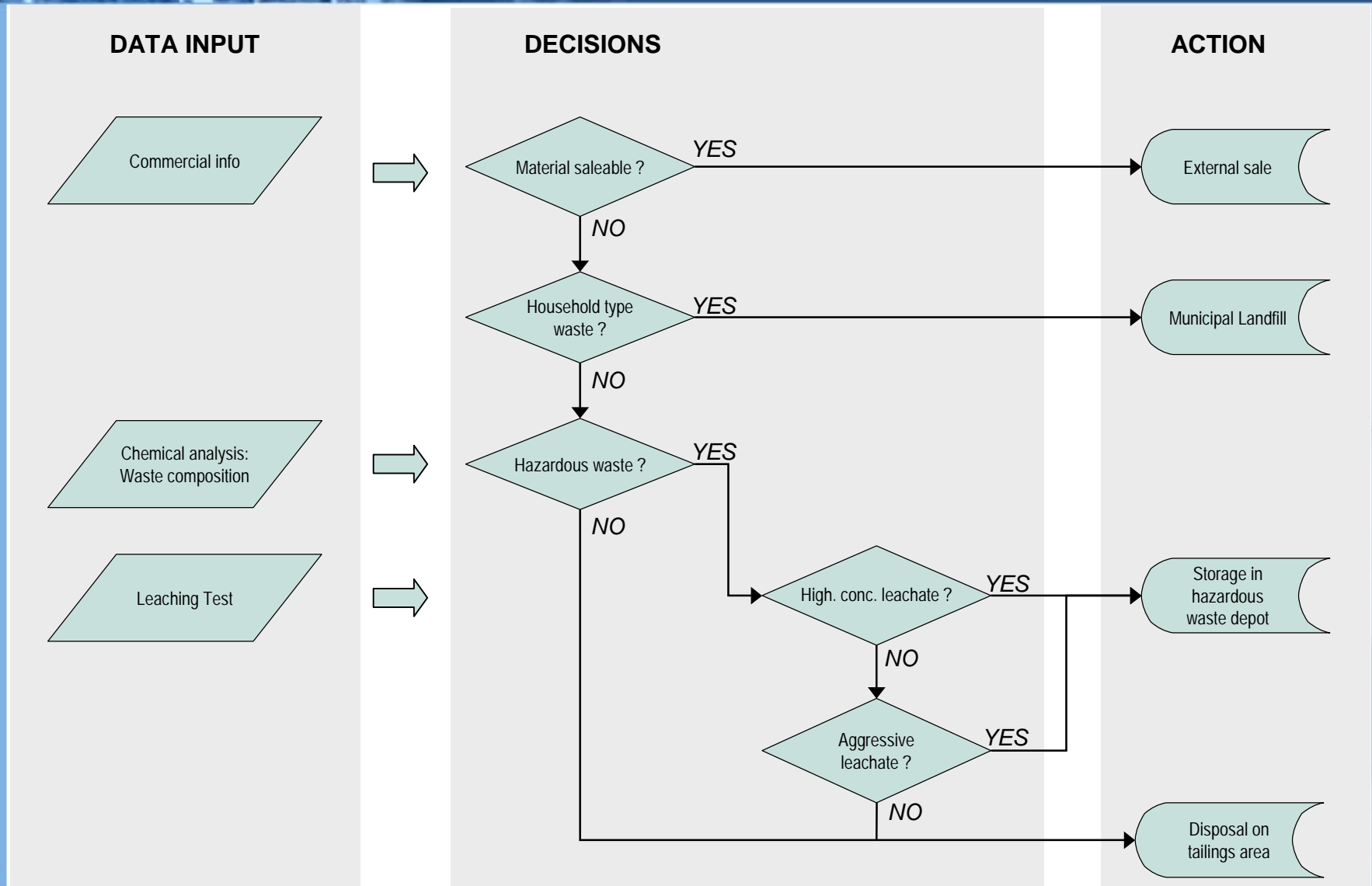


# Aim of Environmental Clean-up

## Specific aims of the clean-up works

- ✓ Support recommencement of battery recycling operations
- ✓ Increase employment opportunities
- ✓ Reduction of health risks to workers and neighbouring sites
- ✓ Establish an Environmental Management System for the clean-up works
- ✓ Build capacity within the Trepca Environmental Department
- ✓ Set a standard for future Trepca remediation works

# Materials Handling Decision Tool



# Key Phases of Establishing EMS



*Training / Capacity Building*



*Procure equipment & tools*



*Secure Approvals*



*Rehabilitate laboratory and facilities*

# Status of Environmental Clean-up

- ✓ Works progressing on a priority basis
- ✓ 30,000m<sup>3</sup> of high metal content wastes have been sold for revenue
- ✓ Upto 20,000m<sup>3</sup> of lower metal content wastes also sold for revenue
- ✓ Remaining quantities removed to Trepca Tailings Dam for long term storage
- ✓ Revenues generated being reinvested into Trepca repairs and machinery
- ✓ Cleaning of buildings ongoing.....

# Sustainability in Environmental Clean-up

## Key Issues

- Local “Buy in”
- Understanding of key issues and reasons
- Procedures and SOPs
- Training
- Commercial viability



# Trepca Environmental Training Centre

## Development Objectives

### *Primary:*

To provide Trepca with a revenue stream whilst simultaneously carrying out environmental clean-up at the Trepca Lead Smelter site.

### *Secondary:*

To build environmental management capacity within Central & Eastern European and Central Asian countries.

### *Tertiary:*

Environmentally controlled site more attractive for potential investors.

# Trepca Environmental Training Centre

## Immediate Objectives

1. To establish an Environmental Training Centre at Trepca for clean-up of heavily contaminated and polluted industrial sites in ECA countries.
2. To generate revenue through attendance of trainees from ECA countries with similar sites (training courses paid by respective ECA government/institution/entity)
3. Revenue generated to fund clean-up works at Trepca
4. Trepca staff increase capacity and skills to implement clean-up with potential to provide consultancy to other sites

