

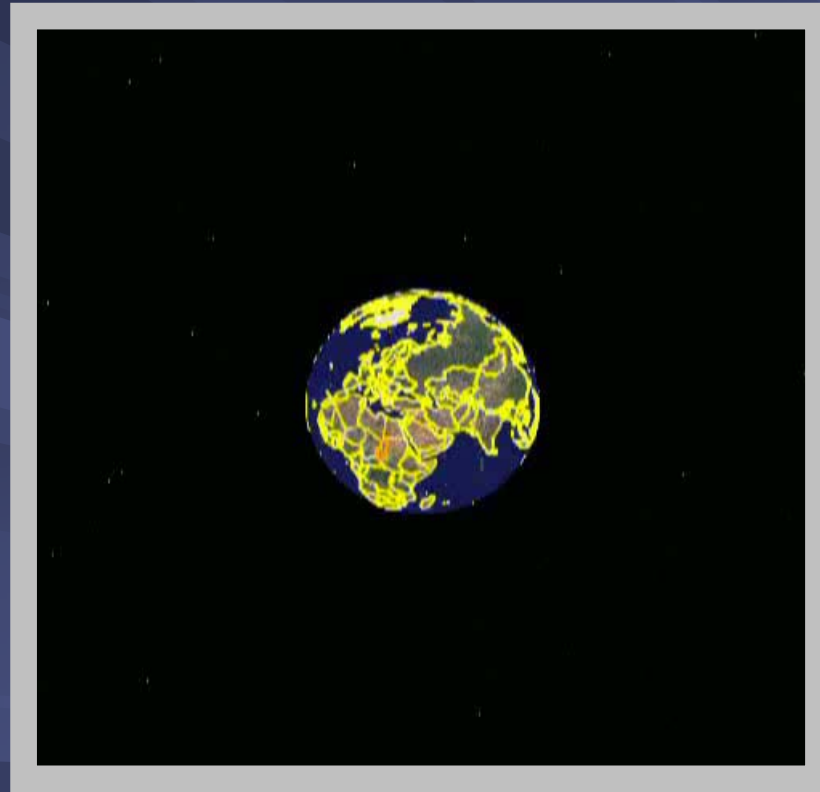
# Gerhard Winkelmann-Oei

## Federal Environment Agency

### Dessau, Germany



# WORKSHOP ON THE SAFETY OF TAILING MANAGEMENT FACILITIES



Yerevan, Armenia  
12–13 November 2007

# Setting the Scene



# UNECE

## Tailing Management Facilities

- **Background**
- **Where we are now!**
- **Future Work Plan**
  - **„Safety Guideline for Tailing Management Facilities“**

# UNECE-Seminar

## „Prevention of Chemical Accidents“

(Hamburg, 4-6 October 1999)

### SEMINAR'S CONCLUSIONS

„- tailing dams have the potential of causing severe impact on transboundary waters in the case of an accident“

→ **Safety Measures to protect transboundary waters.**



# Baia Mare 2000



2000

1st CoP „Industrial Accident“-  
1st MoP „Water“-Convention

1. Adopt the Conclusions of the „Hamburg“-Seminar
2. Set up the Joint *ad hoc* Expert Group (JEG) on Water and Industrial Accidents to support and provide Guidance

# UNECE - Joint Activities

## Joint Expert Group

### Co-Chair:

- Peter Kovacs (Hun)
- Gerd Winkelmann (Ger)

**Water-  
Convention**

**Industrial Accident-  
Convention**



# 4. CoP „Industrial Accident“- and 4. MoP „Water“-Convention

- **Mandate for the JEG**
  - **Drawing up  
Guidelines/Best  
Practices for  
Tailing Dams**



# UNECE Joint Expert Group Work Plan 2007 - 2008

- Safety Guidelines for Tailing Management Facilities



# Where are we now?

1. **International Steering Group of TMF Experts (3 July 2007)**

2. **Draft “Safety Guidelines for Tailing Management Facilities”**

based on: **“Management of tailings and waste rock”  
(BREF-document EIPPCB, July 2004)**

# Safety Guidelines for Tailing Management Facilities

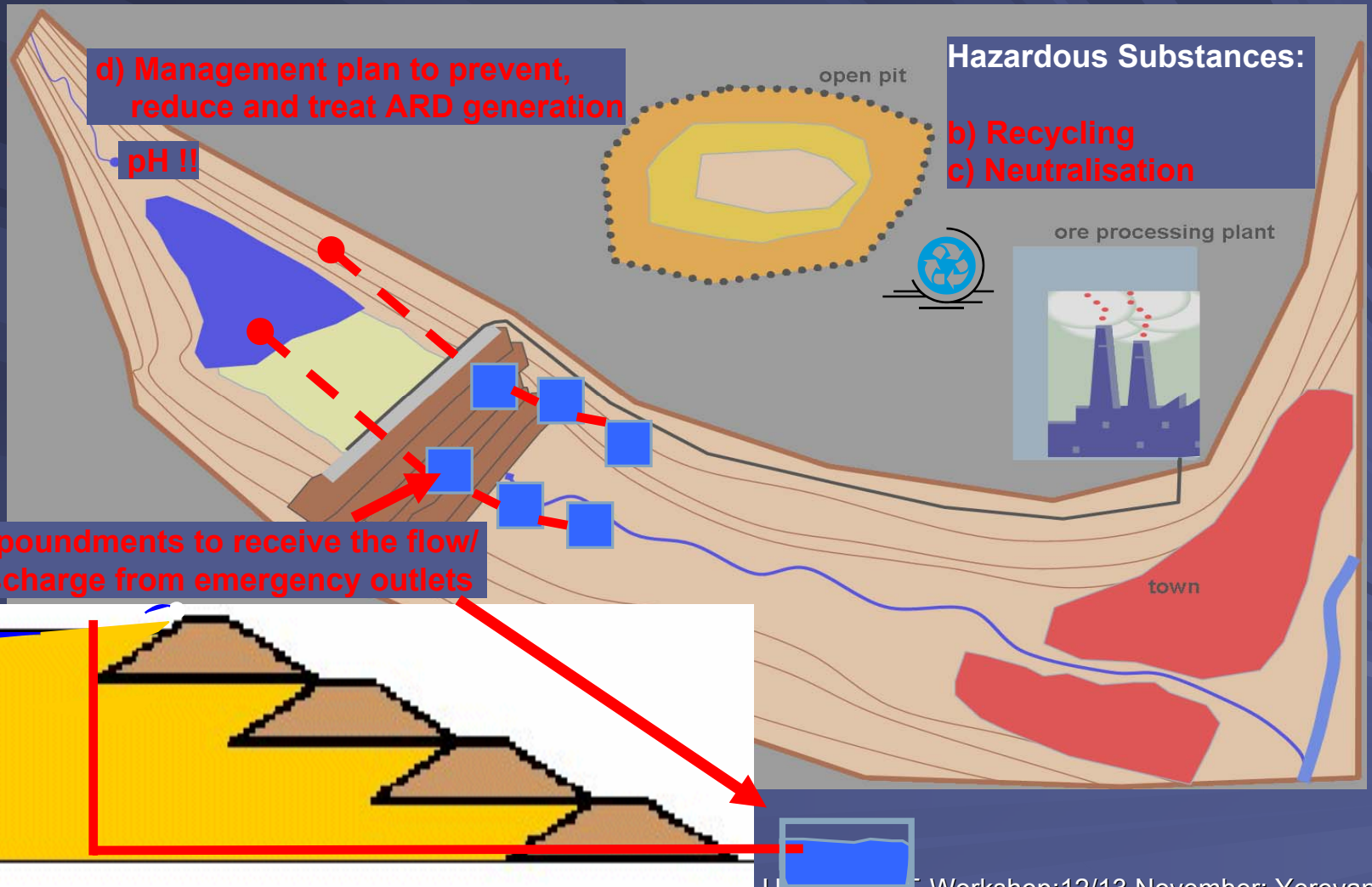
- **Principles**
- **Recommendations**
  - **UNECE-Parties**
  - **Competent Authorities**
  - **Operators**

# Annex

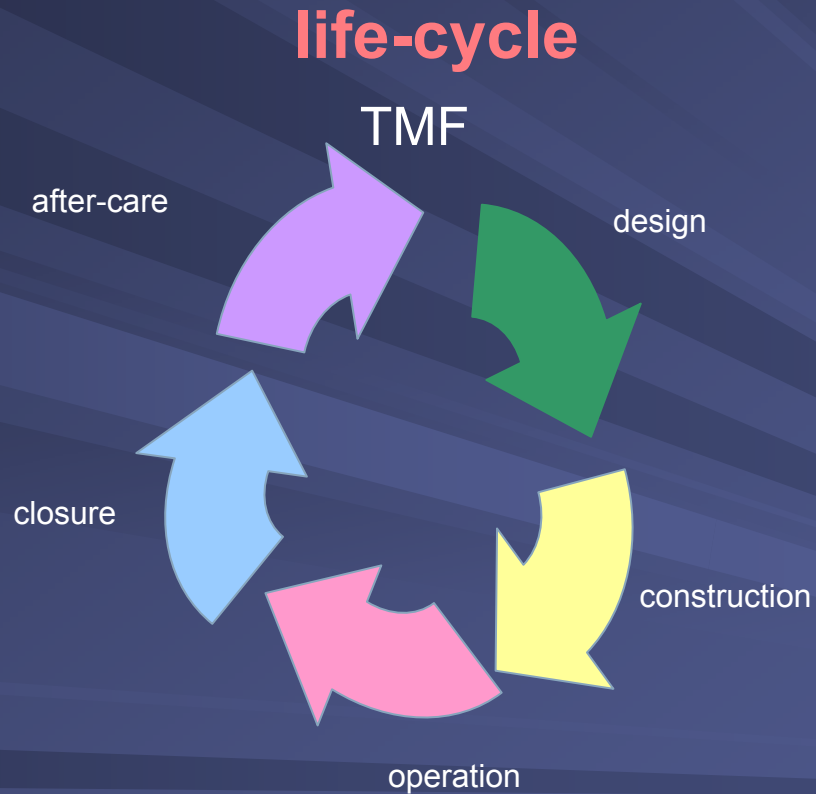
## Technical and Organizational Aspects



# 1. PRE-CONSTRUCTION AND CONSTRUCTION



# 2. OPERATION AND MANAGEMENT



**TDF – breached area still clearly visible**



**3. Inspections**

**4. Emergency Planning**



# UNECE WORKSHOP “SAFETY OF TAILING MANAGEMENT FACILITIES”

Yerevan, Metropol Hotel,  
12–13 November 2007

## **SESSION I:**

- Overview of the key issues addressed by the guidelines

## **SESSION II:**

- Feedback from stakeholders on the draft guidelines

## **SESSION III:**

- Discussion on the improvement of the guidelines

# Next Steps

- **Steering Group of TMF Experts**
- **Comments from UNECE-Countries**
- **5th CoP/MoP**  
**“UNECE Safety Guidelines for TMF”**

## Exfiltration pond downstream of embankment dam



# UNECE

## Joint River Bodies

