



**Demonstration of Viability and Removal of  
Barriers that Impede Adoption and  
Effective Implementation of Available, Non-  
combustion Technologies for Destroying  
Persistent Organic Pollutants**

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**Philippines, Slovak Republic, China,  
? Africa**



**PDF-B :**

- **establish preliminary criteria and guidelines to be used in selecting and deploying technologies that are appropriate to this demonstration activity;**
- **identify a range of available technologies and technology vendors that appear to have the capacity to satisfy the established criteria and guidelines;**
- **establish planning process guidelines to be used in country planning activities;**



## PDF-B :



- **secure broad stakeholder and government support for planning process guidelines, and put in place appropriate planning activities in Asia (Philippines) and in Eastern Europe (Slovakia) that can begin to apply, these criteria and guidelines in the development of detailed plans for the implementation of POPs destruction demonstration activities; and**
- **complete all relevant preparations for a PDF-C as the next phase of the project.**



## **Finalised Country Planning Activities will include:**

- **specifications to be used to guide the acquisition and deployment of the selected technologies;**
- **detailed characterization of the stockpile to be destroyed including chemical/physical analysis;**
- **other relevant site assessment or analysis;**
- **operating guidelines to be followed during destruction and cleanup activities; and**
- **ongoing site monitoring and reporting protocols; etc.**



## Stockpile in the Slovak Republic

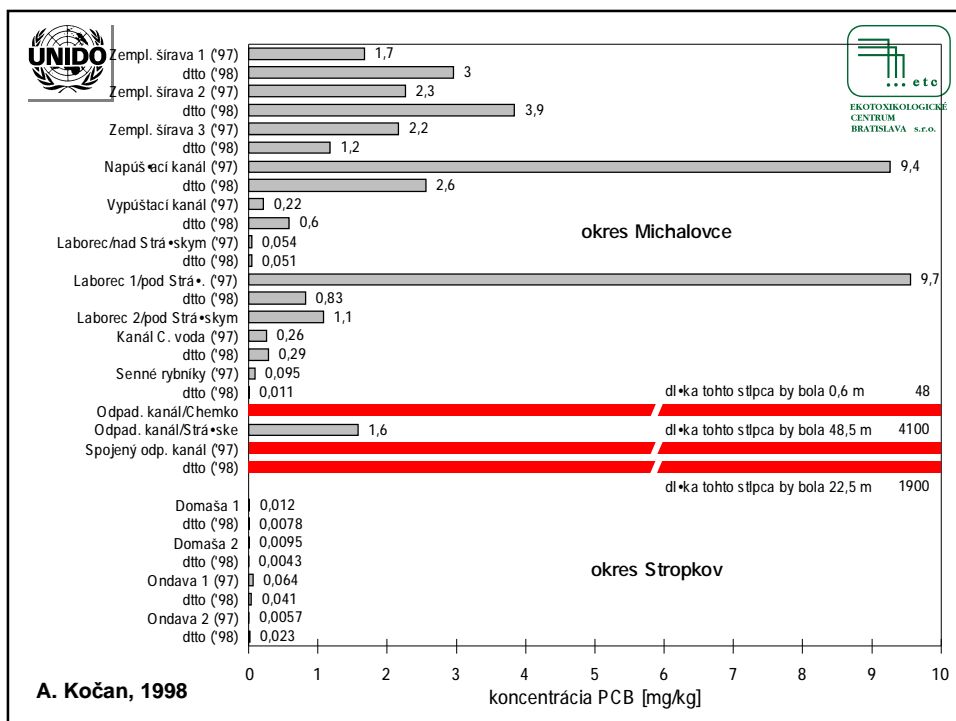
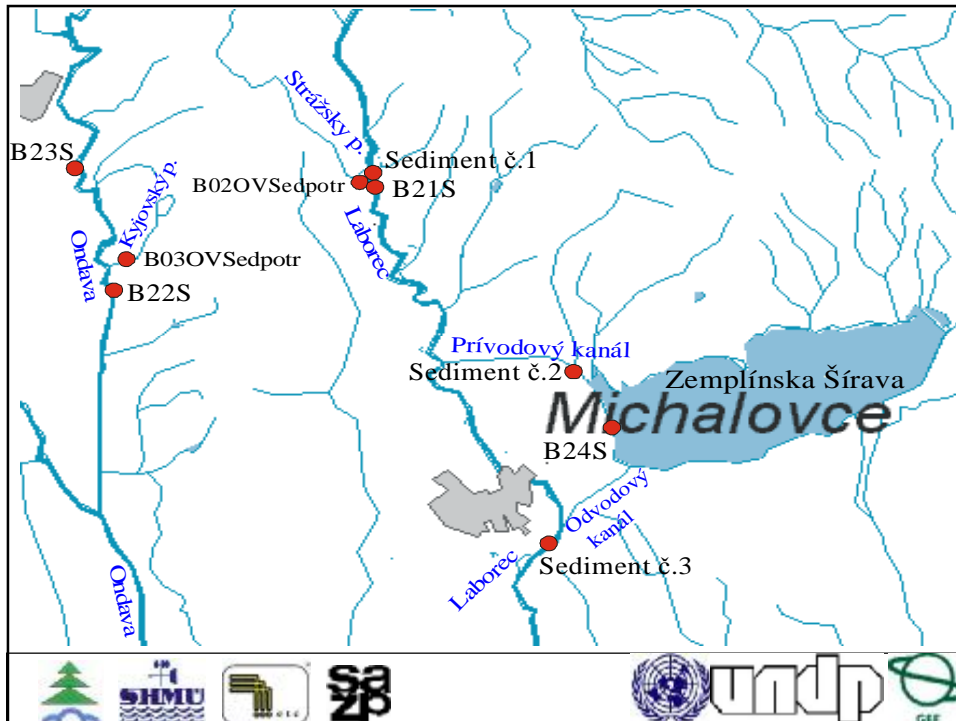
- Inventory of PCBs equipment (MoE SR) from 2001 voluntary scheme (ETC)
  - 2003 – MoEc measure to Chemicals Law
  - 2004 – MoE SR Solid Wastes Law (SEA)
- Inventory of PCBs wastes – Slovak Veterinary and Food Authority 2003/2004
- Inventory of pesticides – 2002, 2003/2004

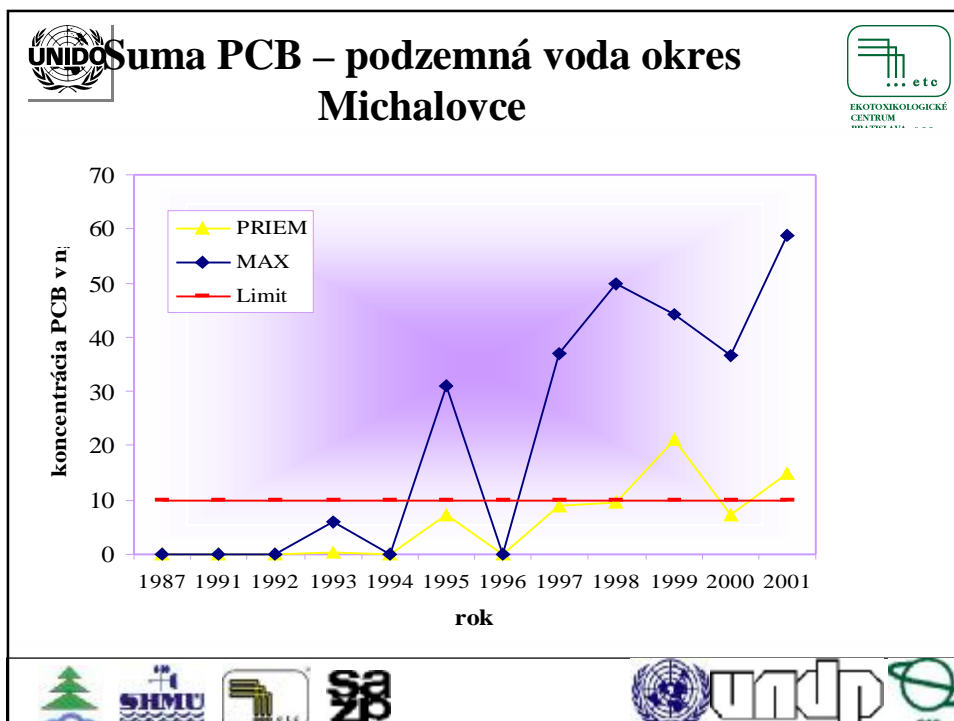
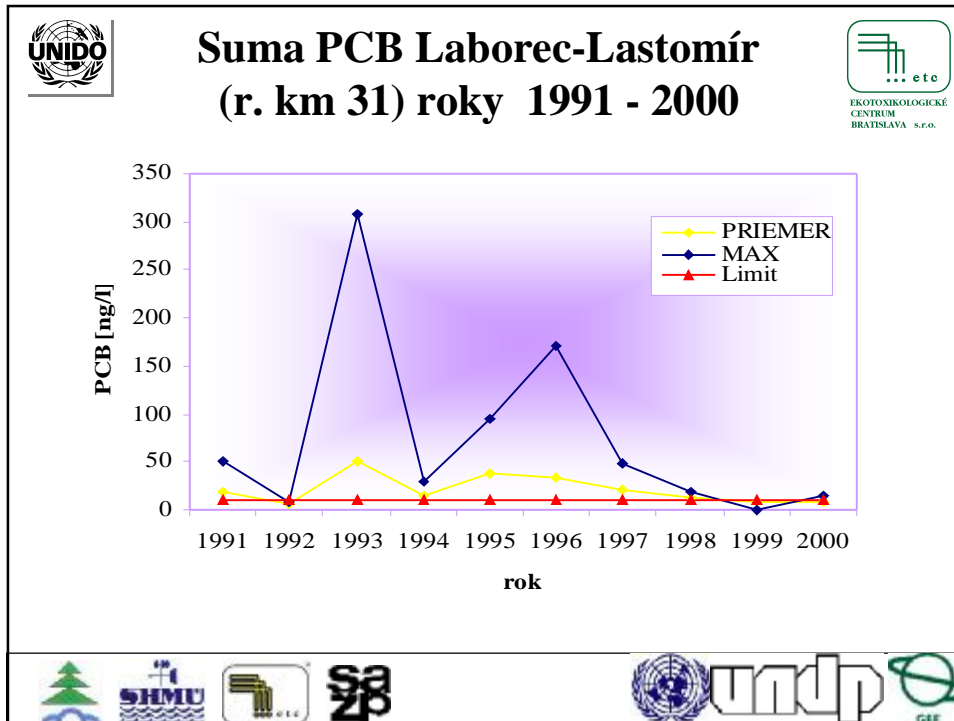


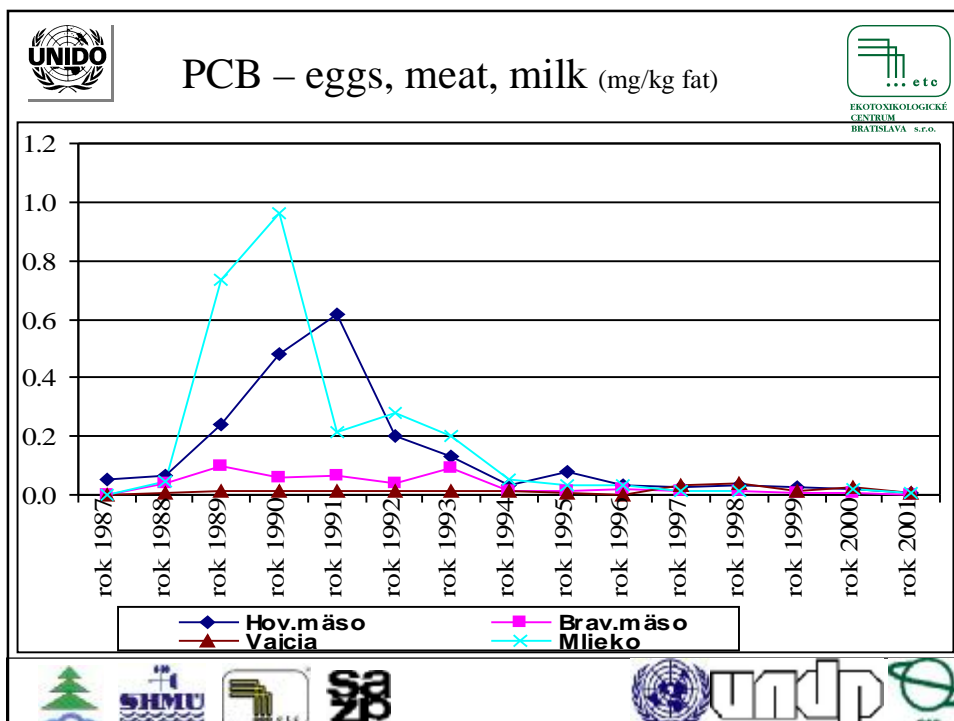
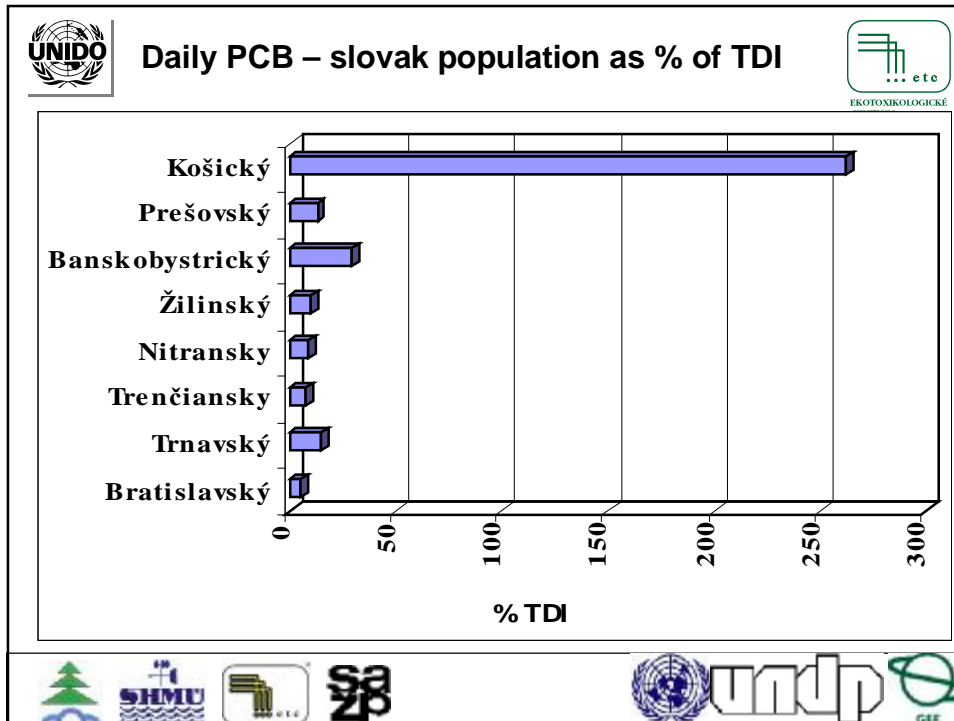
## Inventory of PCBs equipment SR (2003)

| Type           | Ident. | No-ident. | S pcs        | S tonns      |
|----------------|--------|-----------|--------------|--------------|
| Kondenzátory   | 17296  | 13130     | <b>30426</b> | <b>(170)</b> |
| Transformátory | 200    | 206       | <b>406</b>   | <b>(82)</b>  |
| Iné zariadenia | 119    | 310       | <b>429</b>   | <b>(92)</b>  |
|                |        |           |              |              |
| Spolu          | 17615  | 13646     | <b>31261</b> | <b>(344)</b> |











## Situation in Slovakia



- **1 000 tons of stockpile** - delor and residues from different stages of the production –  
old production plant (Chemko Strážske)
- **1 000 tons of PCBs containig equipment**
- **1 500 tons of miscalennous PCBs wastes**
- 50 tons of POPs pesticides
- **40 000 tons of PCBs polluted sediment and soil** (rough estimate)



## Process of the project implementation



- **Stockpile characteristics**
  - Storage location
  - Analyses for PCBs, dioxins and furans
    - **Laboratory UPKM Bratislava (Slovakia)**
    - **Laboratory VUOS (CETA) Pardubice (Czech Republic)**
  - Manipulation conditions



## Process of the project implementation

- **Technology**
  - **Requirements** (UNIDO expert team and the Slovak National POPs Commission under MoE)
  - **Location** (avoid transport ..., infrastructure ..., personnel ..., environmental impact ...)
  - **Design** (capacity, type of waste, semi-mobility ...)



## Time frame:

- 2004 - final selection**
- 2004 – 2005 EIA process ...**
- 2005 - technology installation**
- 2006 – 2007 operation phase under GEF**
- 2008 - operation phase Slovakia**