

# Work Plan of Monitoring in East Asian Countries in FY2005

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# Background (1/3)

- ❁ Based on the discussions and conclusions of the 1<sup>st</sup> and 2<sup>nd</sup> Workshop on the Monitoring of POPs Chemicals at background Sites in East Asian Countries and Trial Air Monitoring of POPs Chemicals at Background Sites in East Asian Countries.
- ❁ Final plan for the POPs monitoring has been prepared by MOE and NIES.



# Background (2/3)

- ❁ The air monitoring of POPs chemicals is put on high priority in the guidance document prepared by UNEP Chemicals.
- ❁ Because air will be the primary medium for long-range transport of POPs on a regional/global scale.
- ❁ However, concentrations of these compounds are extremely low, and their analysis will be the real technical challenge.



# Background (3/3)

- ❁ MOE, Government of Japan, hope the experience of POPs monitoring in Japan will help in conducting the proposed monitoring, and this plan will promote further POPs monitoring activities in East Asian countries.



# Japanese Proposal

- ❁ To support the 3<sup>rd</sup> Workshop
  - Members of EWG are also invited to discuss and guide technical aspects of POPs monitoring in East Asian countries
- ❁ To support POPs monitoring by providing technical and financial support for
  - Sampling and GC/MS analysis
  - Data validation, QA/QC,
  - Reporting of the data obtained



# Target POPs Chemicals

## ❁ Nine POPs pesticides

- Aldrin, Dieldrin, Endrin
- DDTs (p,p'- and o,p'-DDT, DDD, DDE)
- Hexachlorobenzene
- Chlordanes (trans- and cis-Chlordane and Oxychlordane)
- Heptachlors (Heptachlor and Heptachlor epoxide)
- Mirex
- Toxaphenes



# Work plan of POPs monitoring (1/3)

## ❁ Role of participating countries

- Nomination candidate background sites for the monitoring
- Supply of electricity for the sampling
- Physical access to the sampling site

## ❁ Role of Japan

- Technical and financial support for air sampling in each participating country
- Analysis, QA/QC procedure and data treatment



## Work plan of POPs monitoring (2/3)

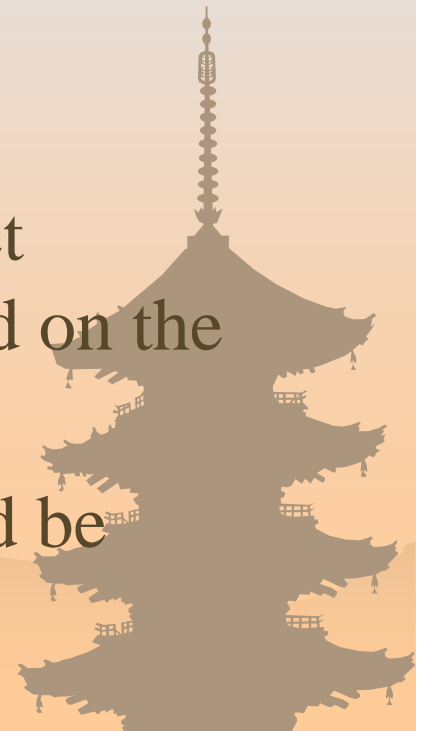
- ❁ Pre-cleaned filters, adsorbents will be supplied from Japan and air sampler, if needed.
- ❁ Japanese technicians will visit the site to collect air sample
- ❁ Collected air samples will be sent to Japan.
- ❁ Air samples will be analyzed and evaluated by Japanese analytical laboratories.
- ❁ The QA/QC procedures will be evaluated.



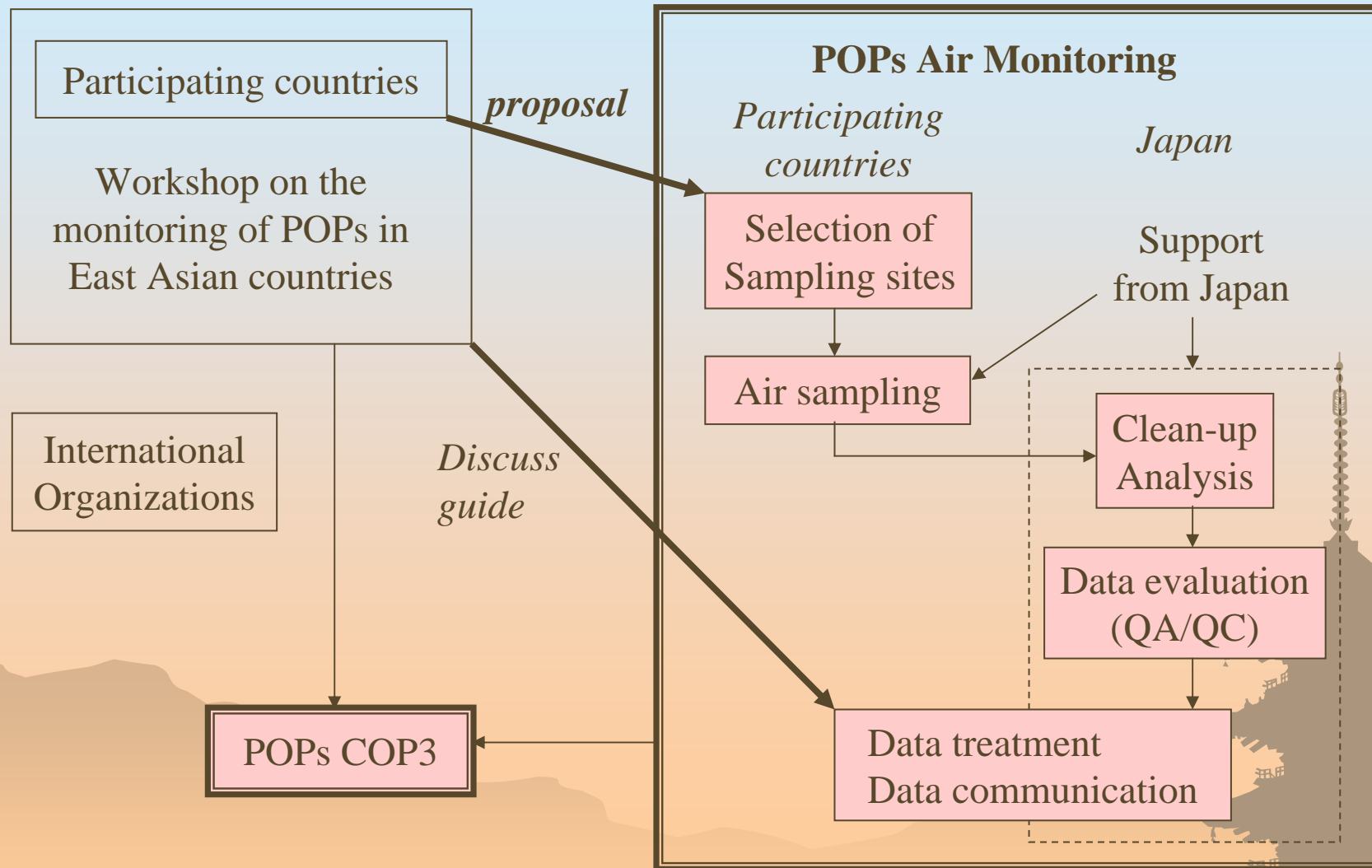


# Work plan of POPs monitoring (3/3)

- ❁ Analytical results of POPs in air samples will be evaluated and discussed among participating countries using Internet tools such as an e-mail, or other means.
- ❁ Target compounds
  - POPs used in pesticides are the first target compounds being proposed, mainly based on the consideration of technical feasibility
  - At a later stage, the trial monitoring could be extended to cover other POPs chemicals.



# Scheme of POPs Air Monitoring



# Schedule of POPs Air Monitoring

## ❁ Sampling

- Air sample collection at background sites will be carried out until **end of this year, 2005**.
- Number of sites is up to 3, except ROK and Japan

## ❁ Proposed Background Sites

- Philippines, Thailand, Malaysia, ROK and Japan
- If there is other country which wanted to participate this monitoring, it is necessary to discuss in this WS and EWG to decide where POPs Monitoring will be carried out in FY2005.

