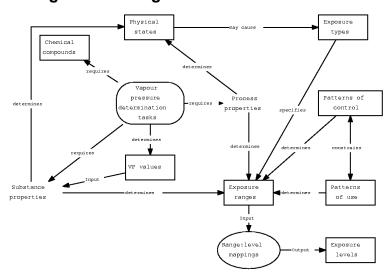
EASE



Estimation of substance exposure for new industrial processes

Description:

- ◆A knowledge based system to support occupational hygienists
 - ♦When a new industrial process is developed,occupational hygienists must assess how toxic the substance is and how likely workers are to be exposed to it.
 - **◆EASE** supports the latter task.
- **♦**Key factors include:
 - ◆Pattern of control: e.g. closed system.
 - ♦Whether a closed system is ever breached e.g. for cleaning.



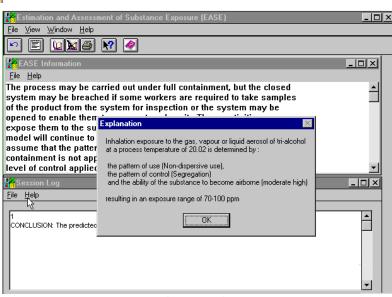


Benefits:

- ◆Highlights potentially dangerous situations that may be neglected.
- ◆ Easier method of enforcing health & safety guidelines.
- **◆** Easier to update than paper manuals.
- ◆Has been taken up by regulatory agencies around Europe.

Technical approach:

- ♦Initial prototype developed by UK Health & Safety Laboratories.
- ◆AIAI and HSL staff collaborated in developing new system:
 - ♦HSL staff trained in AI techniques.
 - ♦Used the CommonKADS methodology for modelling knowledge.
 - ♦Used CLIPS and wxCLIPS (AIAI product) for software.
 - ♦ Success through technology transfer and knowledge modelling.



EASE Interface

CommonKADS "model schema"



AIAI and the Health & Safety Laboratory http://www.aiai.ed.ac.uk/project/ease/

