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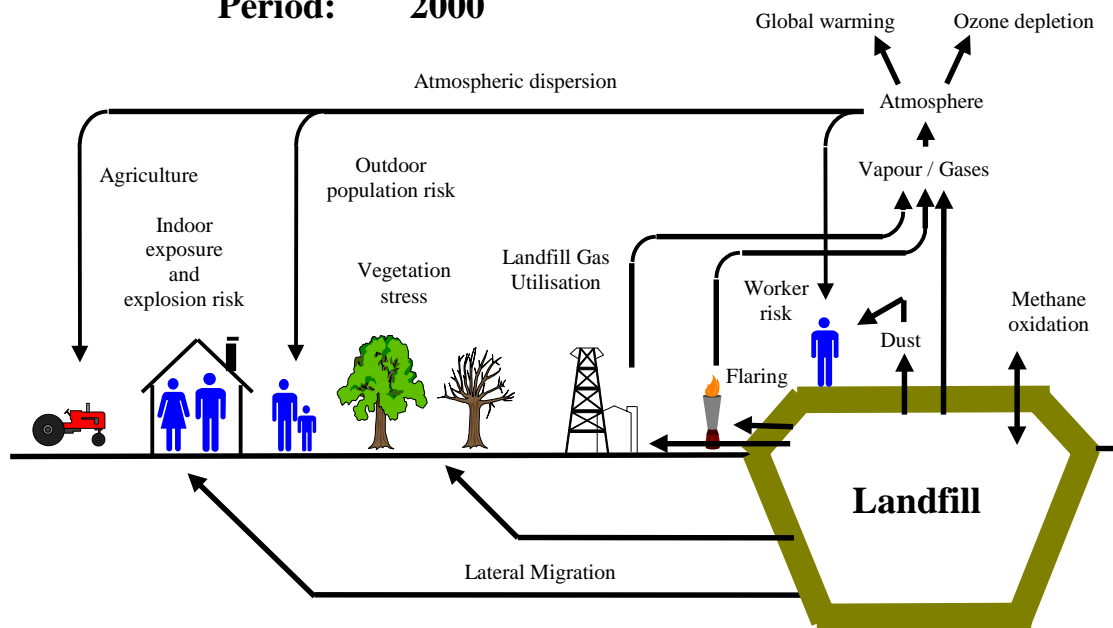
Project Profile

Sector: Waste Policy, Risk Assessment

Project: Development of the Health and Environmental Risk Effects from Landfill Gas (**HELGA**) framework – Phase 2. Commercial code development.

Client: Environment Agency and Golder Associates

Period: 2000



The conceptual model, from the paper presented at the UK Landfill Gas Conference: from Research to Policy, Kenilworth, March 1999.

There are three main aims of the project.

- The production of HELGA software to commercial standards
- The incorporation of gas field management into the model
- The incorporation of calculated emissions for IPPC requirements

LQM are partners in a project with Golder Associates to develop the HELGA framework model to commercial standards, using the defining equations and data but producing an entirely new code, which will look and feel like LandSim. A new development is the incorporation of landfill gas engineering control options into the model to predict which combinations of management options has the greatest potential to minimise health and environmental risks. The third aim requires HELGA to report emissions in a format suitable for IPPC Inventory of Sources and Releases (ISR) requirements. This will become necessary for most operational landfills by June 2003, since the Landfill Directive is to be implemented under the PPC Regulations. Options available under IPC at the moment are measurement or calculation of releases, and most operators will probably prefer the calculation method. The code will be issued after testing and validation trials with full supporting manuals and reports.