

## Leduc's Aerotropolis plan unprecedented in North America – Noise impacts from air and ground activity estimated for the next 50 years

Leduc City Council recently approved the landmark Aerotropolis Integrated Land-use Compatibility Plan (AILUCP). This is a 50-year planning document designed to guide current and future development on lands abutting the Edmonton International Airport, as well as protecting the airport's present and future operational needs.

"This plan not only affects future development and economic benefits for all parties involved, but it's also about preserving and protecting the present and future quality of life of Leduc citizens," says Ken Woitt, director of planning and development with the City of Leduc. "The AILUCP was a useful tool to achieve a collaborative planning approach with affected landowners to ensure the best possible future development adjacent to the airport."

The term 'aerotropolis' was coined by a North Carolina professor to explain the range of land uses surrounding and complementing the 'metropolis' of major international airports. These land uses can be organized by accessibility and noise compatibility factors.

Leduc's Aerotropolis project began spring 2009 as a cumulative approach to model air, traffic and industrial ground noise. Cumulative noise modeling was converted and mapped to represent science-based Noise Exposure Forecast (NEF) contours. Each contour receives a grade and each grade is aligned to designated land uses (residential, commercial and industrial).

"Noise modelling is typically done separately for aircraft sources and ground-based sources such as trucking/rail movements," says Solomon Wong, executive vice-president with InterVISTAS Consulting Group. "The cumulative noise modelling done for the Leduc Aerotropolis Plan is an advancement to help the City of Leduc better predict sensitive areas that takes into account all noise sources together.

"The scale of analysis and methodology used for land use compatibility planning is unprecedented in North America," says Wong.

For more information on the AILUCP, call (780) 980-7177 or visit:

[http://www.leduc.ca/City\\_Government/Departments/Planning\\_and\\_Development.htm](http://www.leduc.ca/City_Government/Departments/Planning_and_Development.htm)

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