

2020
International
Smart Cities e-Forum
智慧城市國際線上論壇

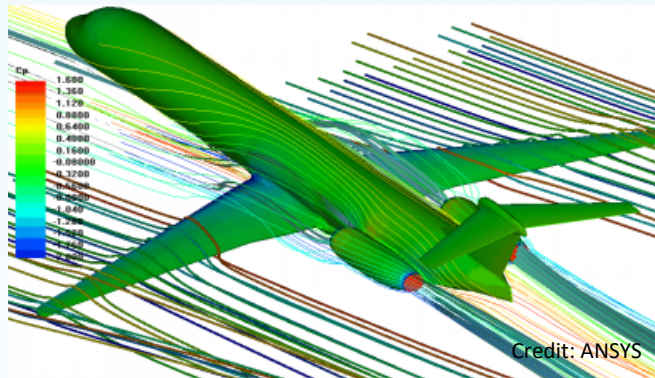
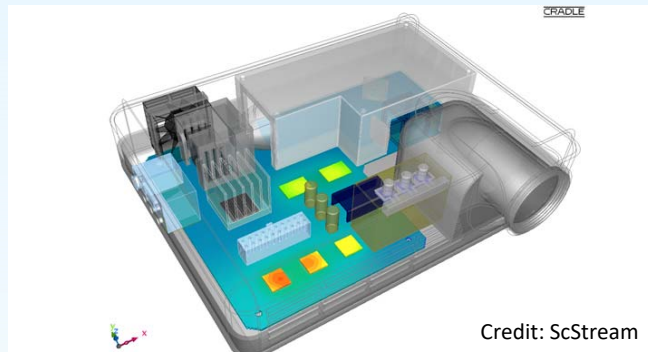
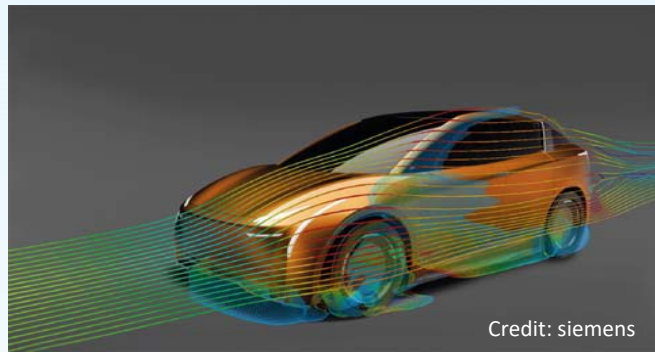


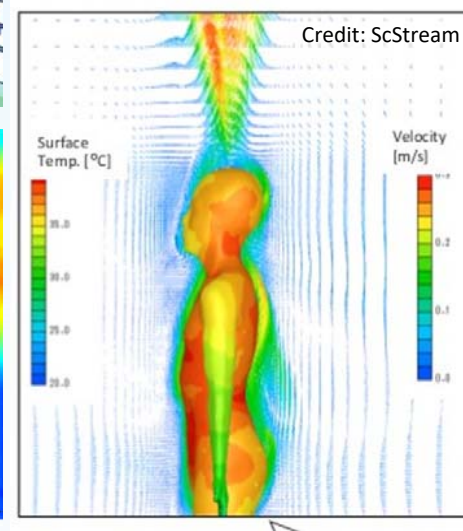
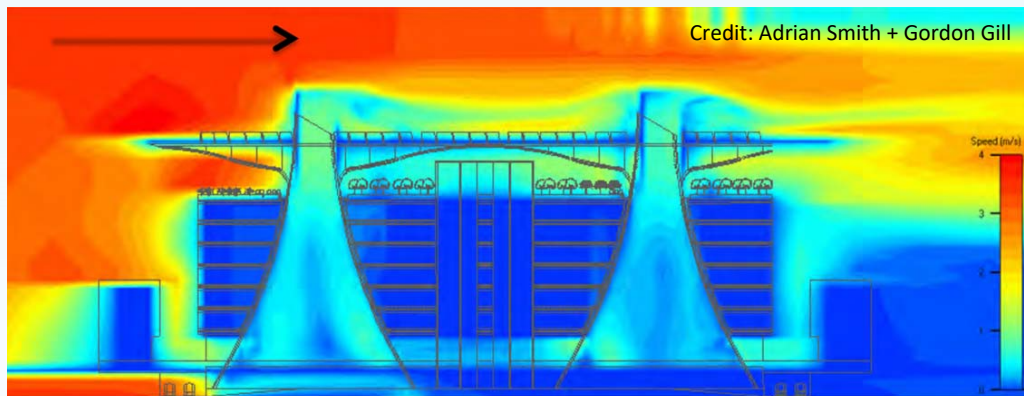
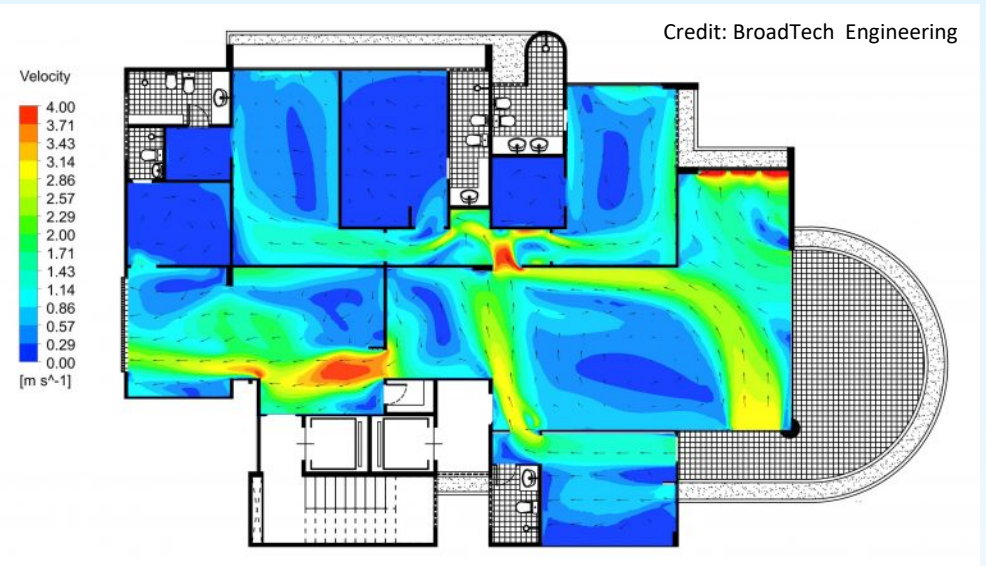
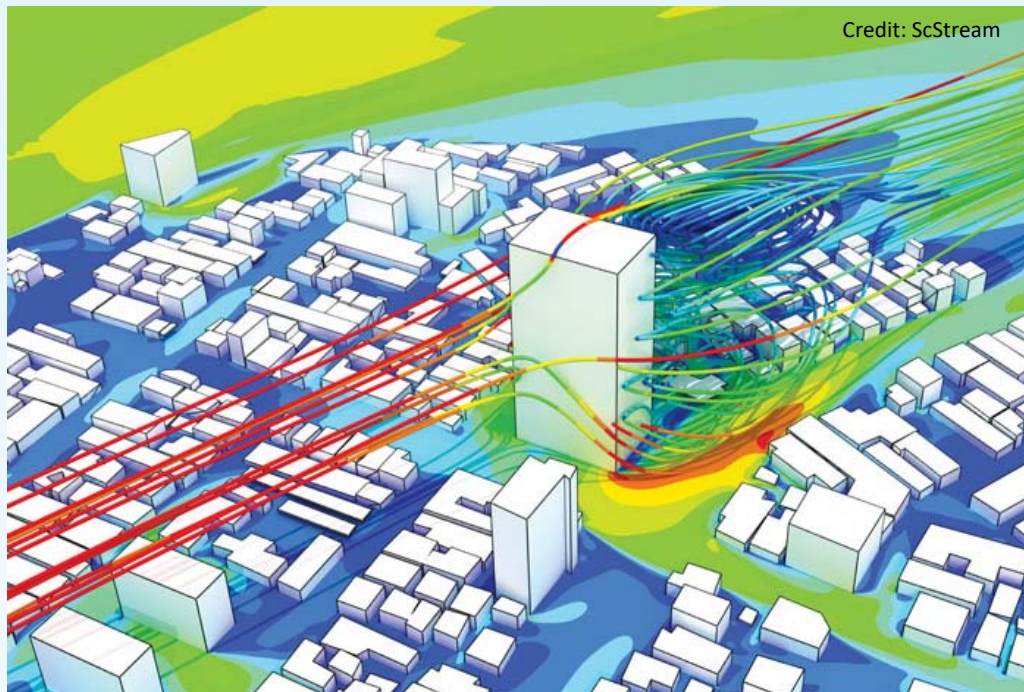
CFD輔助綠建築設計與生態城市規劃 CFD Application for Designing Sustainable Buildings and Eco-Cities

許皓香 助理教授
逢甲大學
都市計畫與空間資訊系

CFD簡介

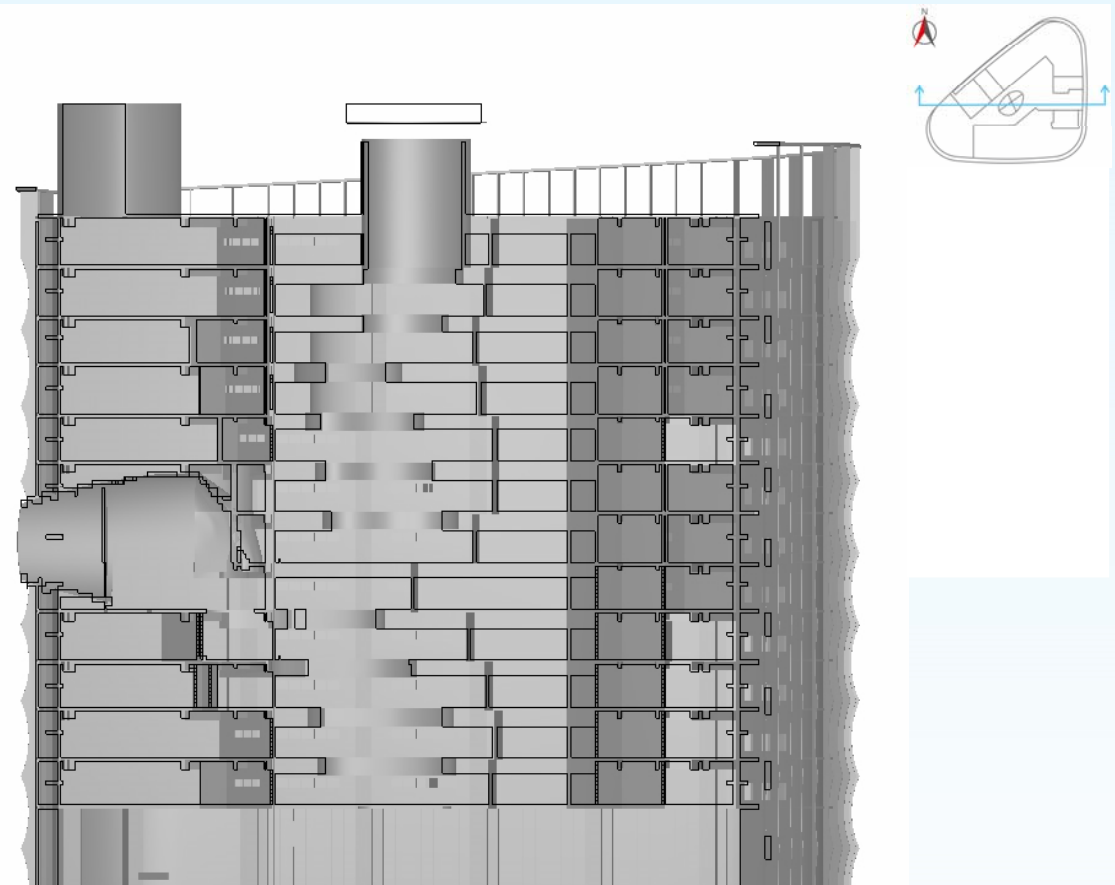
- 計算流體力學，Computational Fluid Dynamics



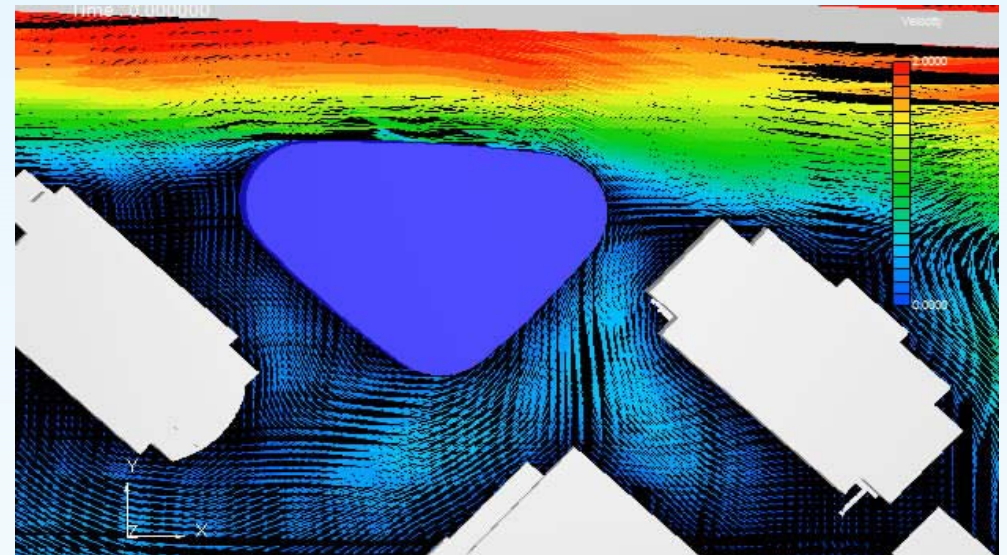
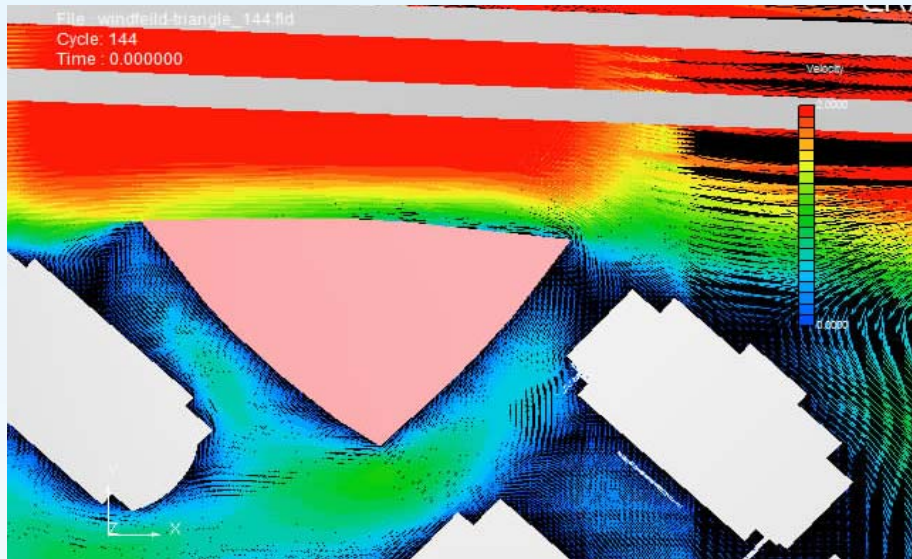


案例1

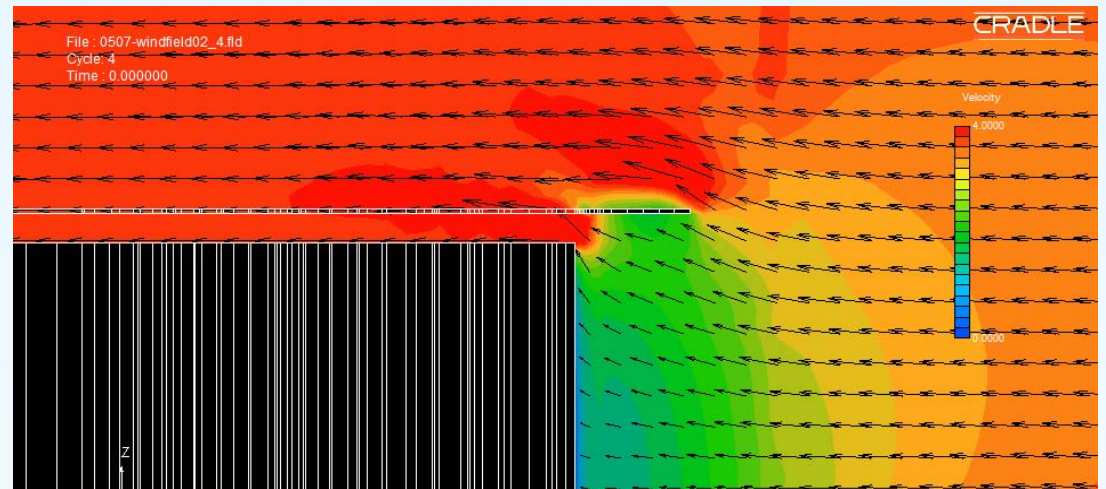
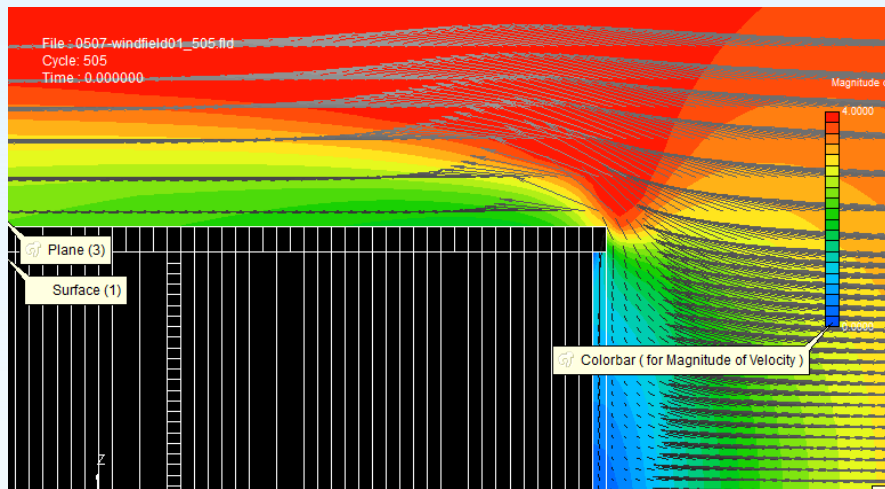
建物形狀與室內通風設計



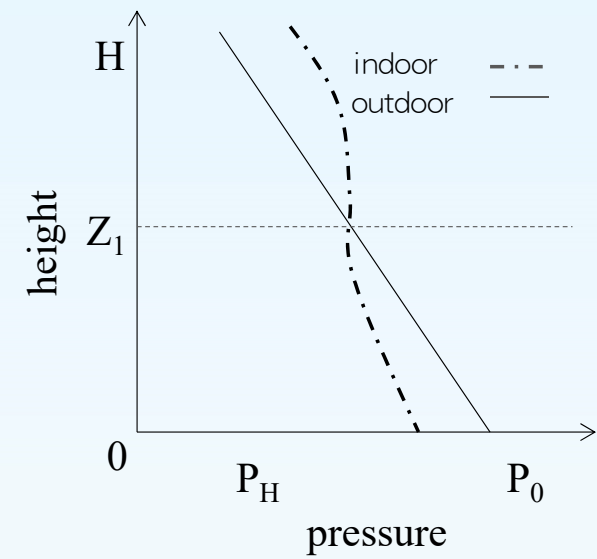
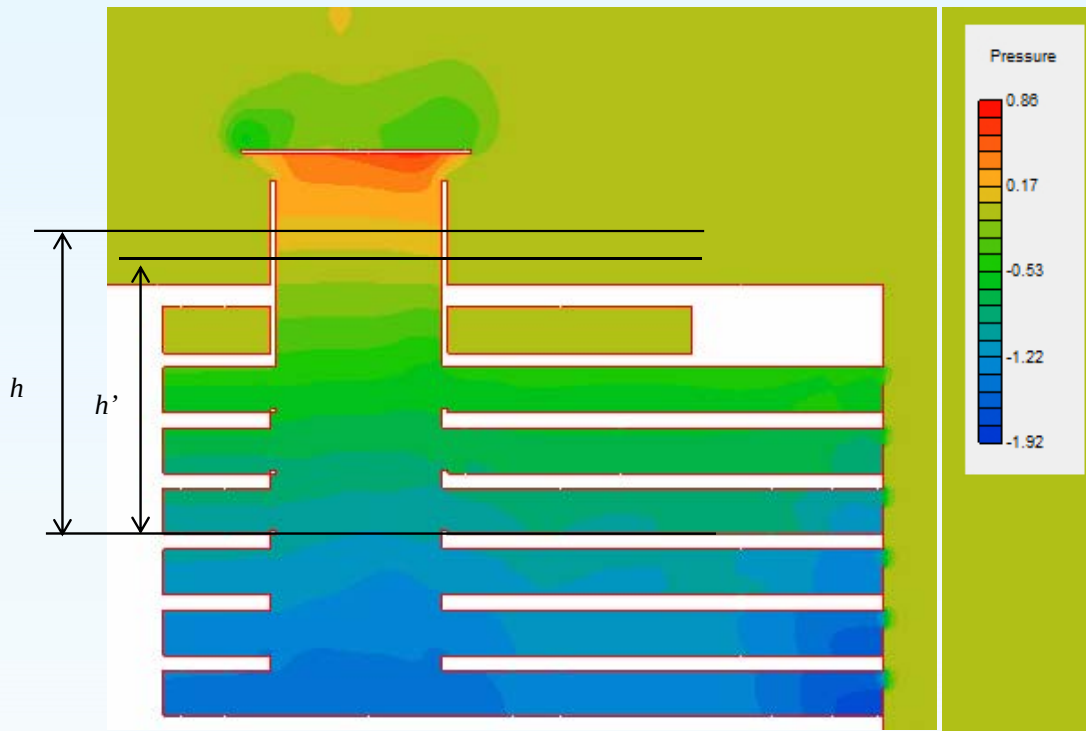
- 建物形狀



- 建物頂樓頂板

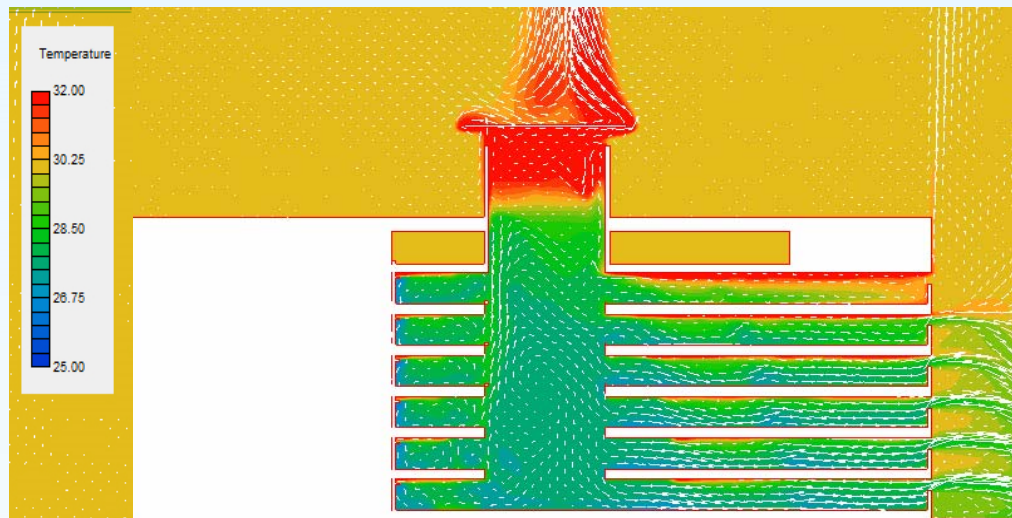


• 浮力通風設計

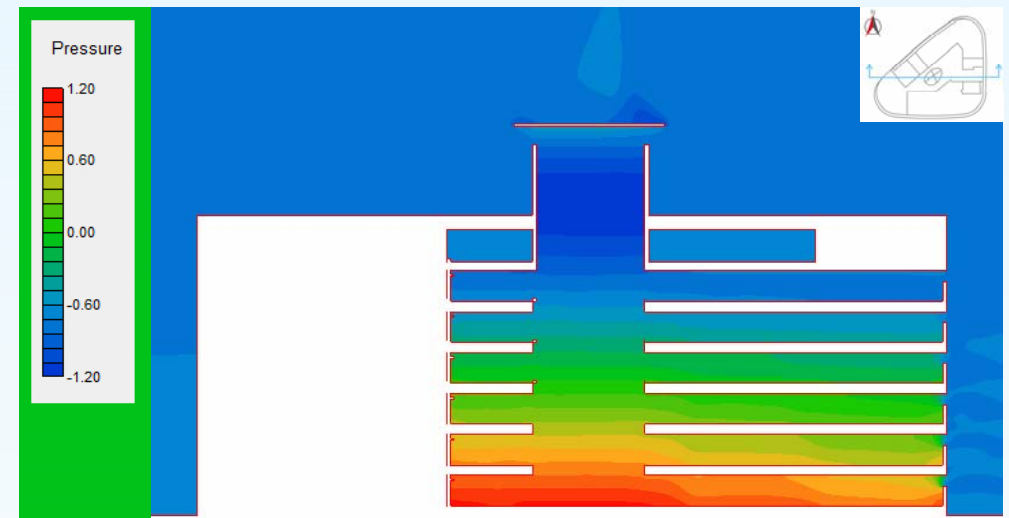


• 浮力通風設計

30 °C outdoor temp.+ 24 °C cold air from office room

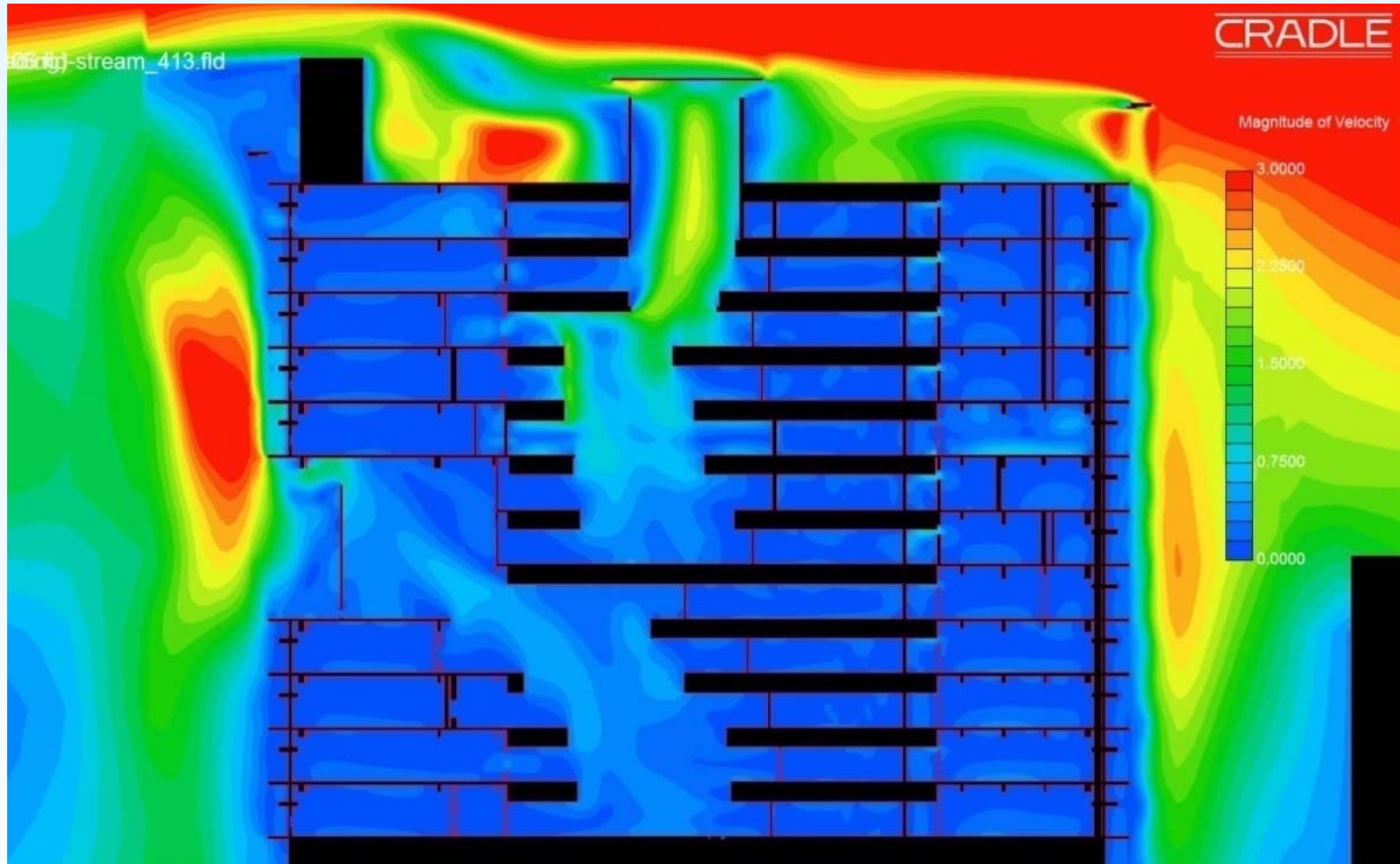


Temperature distribution



Pressure distribution

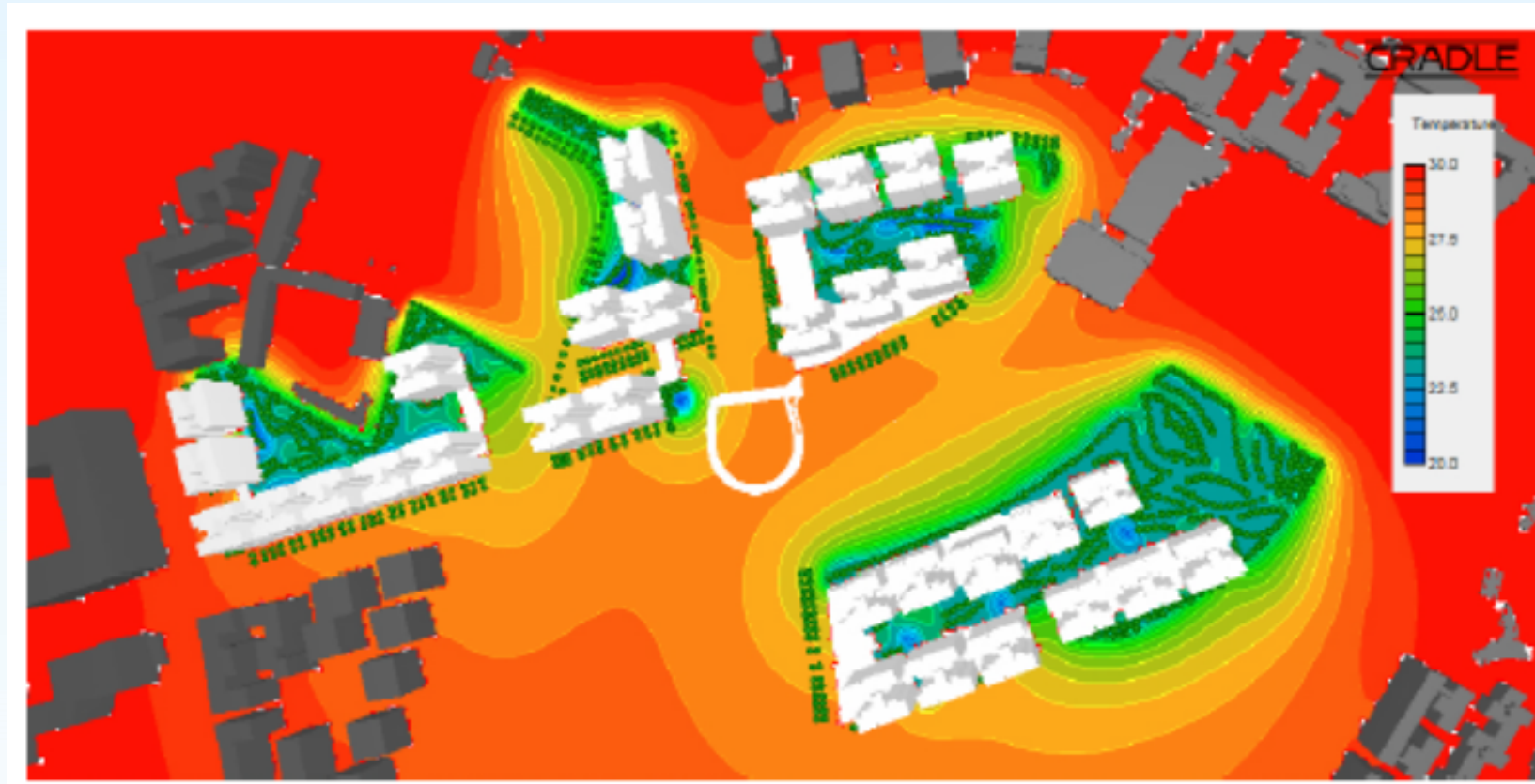
- 浮力通風設計



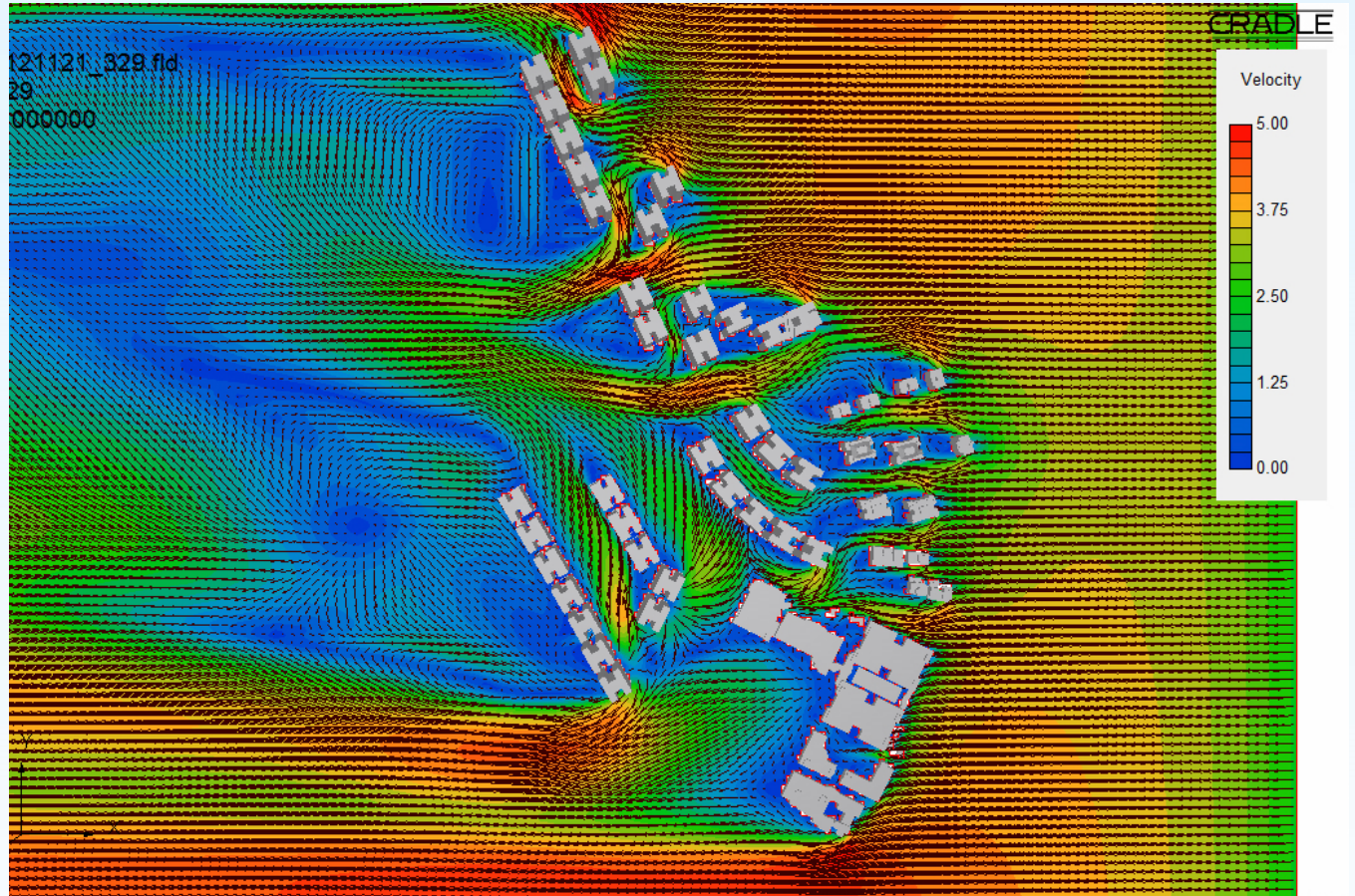
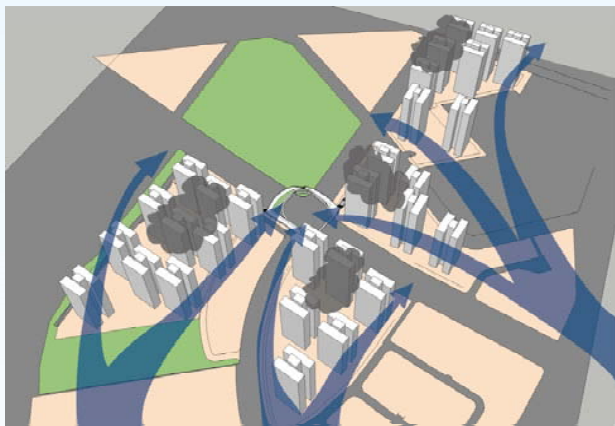
案例2 建築簇群配置與植栽配置



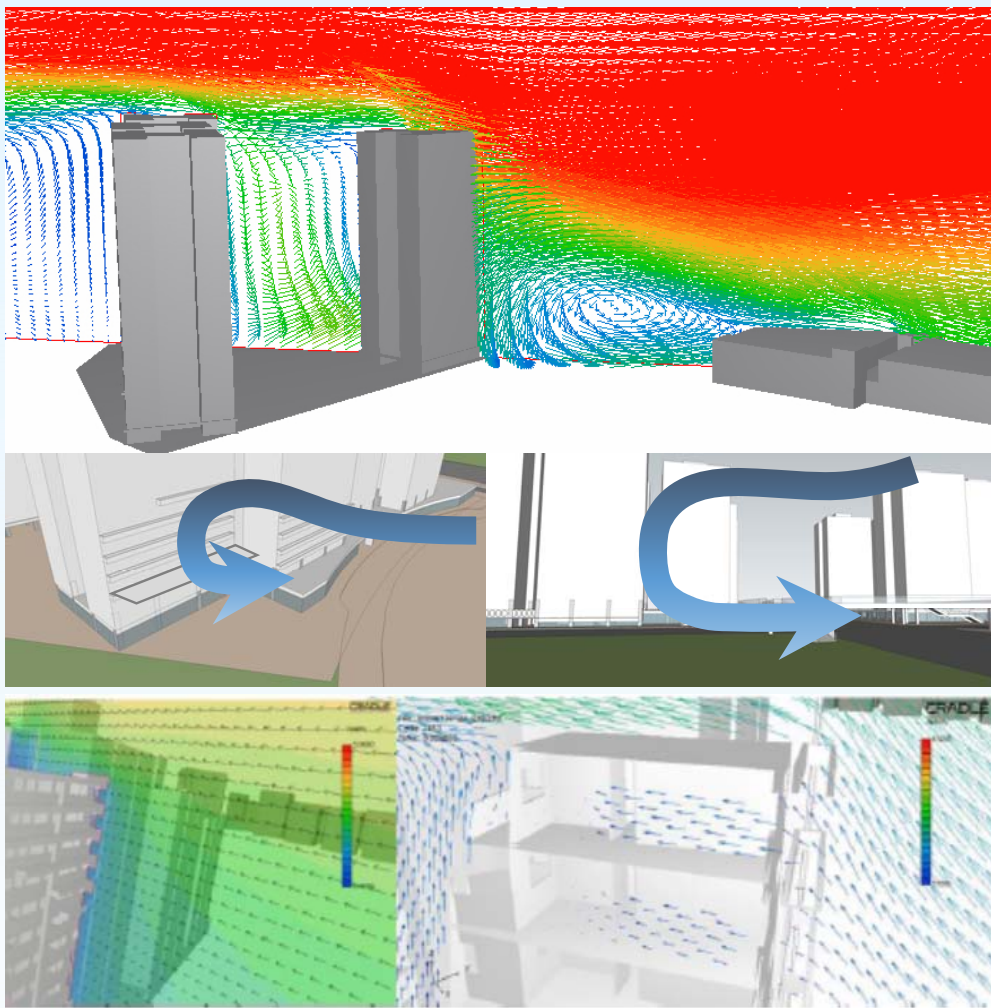
- 植栽水體之降溫



- 建築簇群配置



• 氣流引導



其他相關應用

