













TOWARDS SMART V≋NTILATION	FLANDERS INNOVATION & ENTREPRENEURSHIP
Aimed simulation-based design method: For a random floor plan: Generate ductwork configuration (= layout + sizi	ng) with minimum life cycle cost
Design inputs:Nom. Flows + Demand profiles (smart system)	ns)
Flow rate Nominal 8 12 13 17 Time	† † † † † † † † † †



Boundary conditions:

Hard boundary conditions

- Maximum velocity
- Maximum duct dimensions

Soft boundary condition

Pressure-balancing









