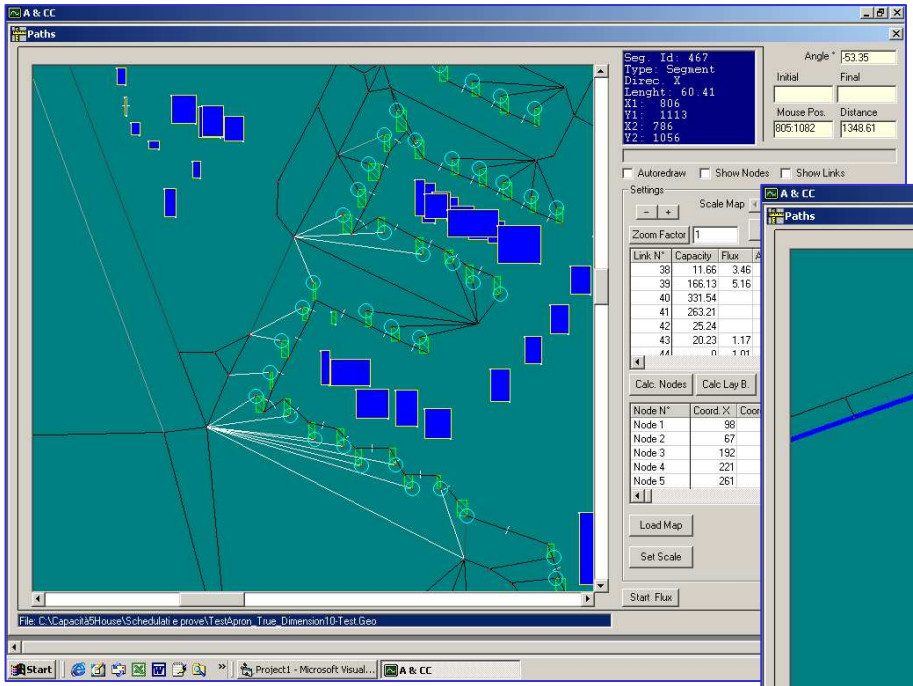
Argos Ingegneria S.p.A.

Argos
ingegneria

CAP

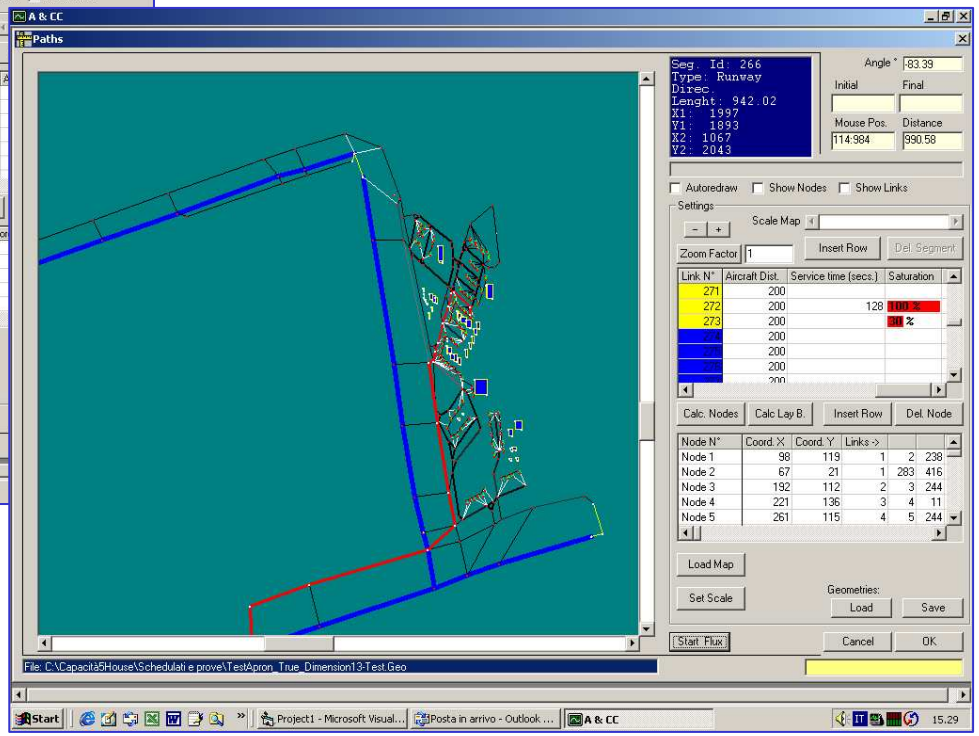
Airport Capacity Assessment and Optimization

Case Study: Roma Fiumicino Airport (FCO)



In white, saturation of route segments during the computation of apron capacity.

Maximum apron capacity resulted to be equal to 90 movements/hr.



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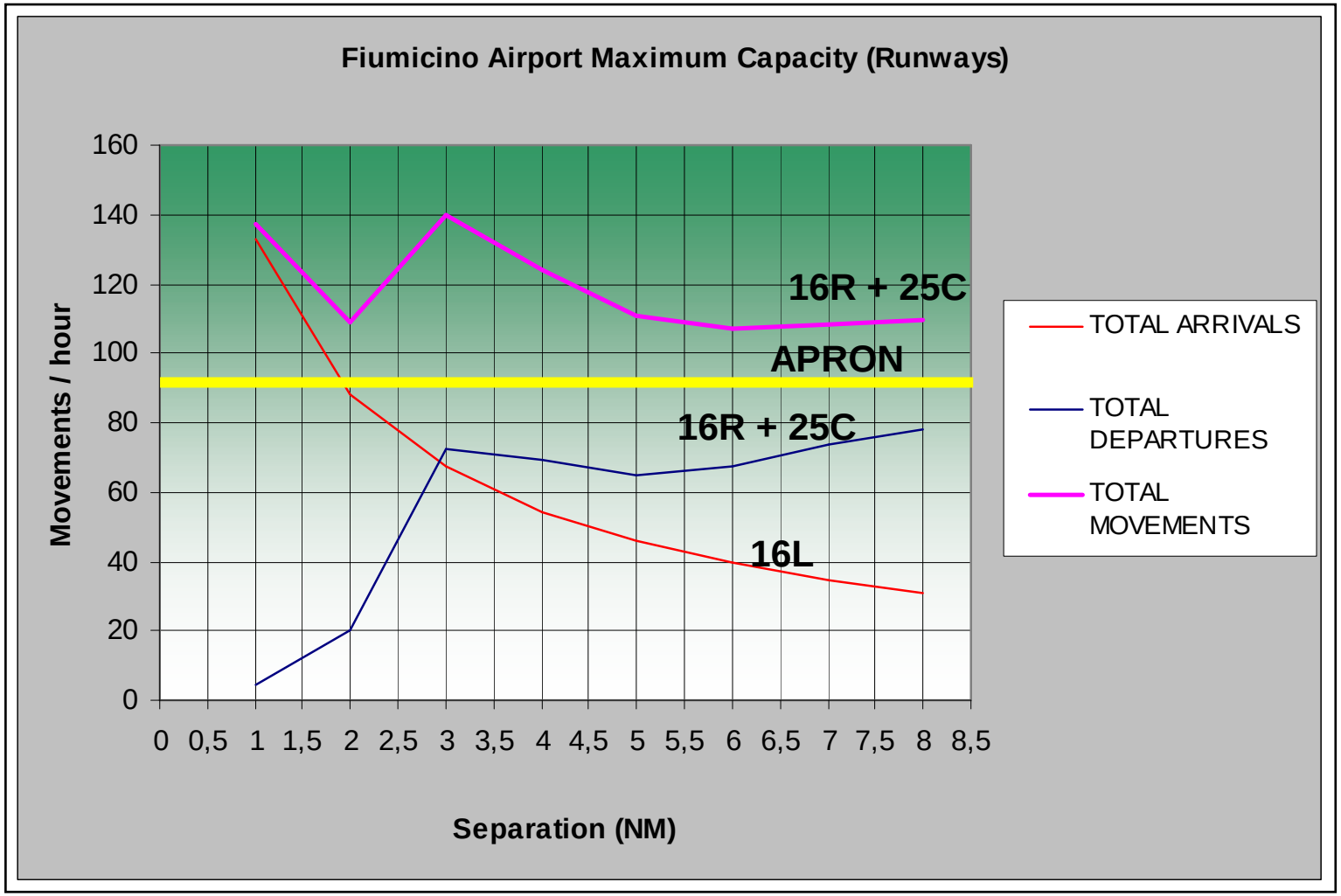
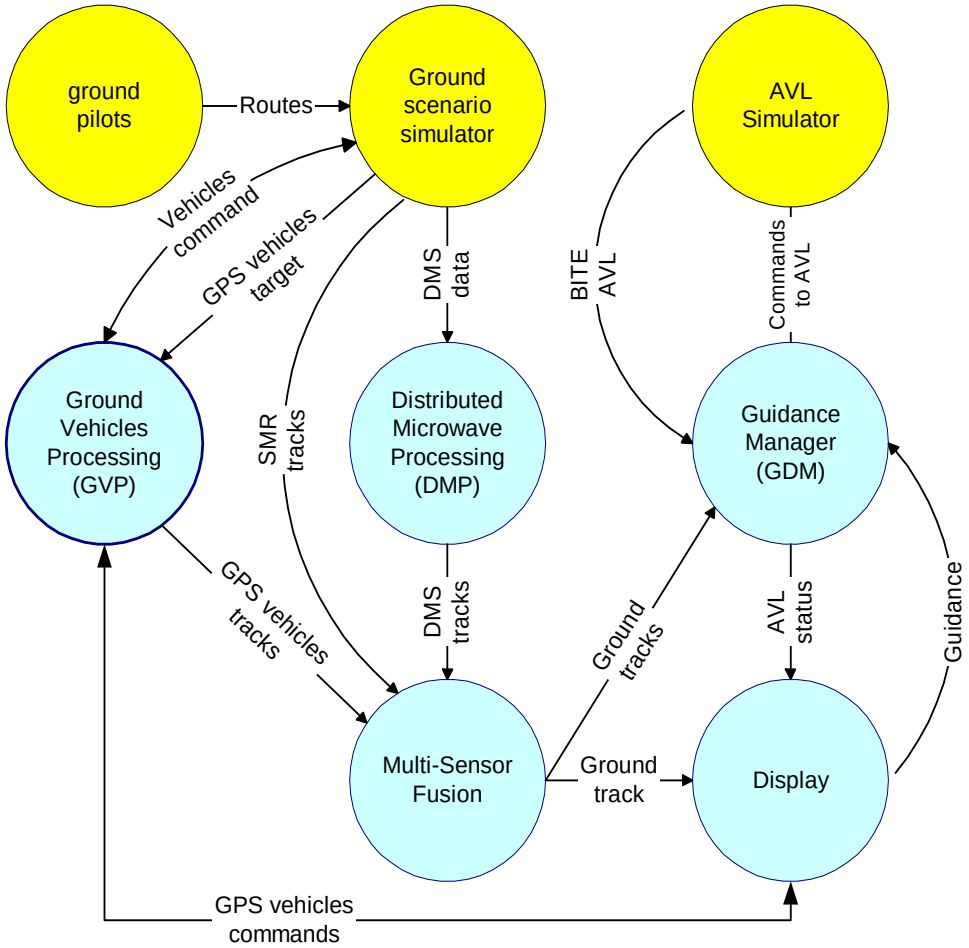


Simulator



- ***Ground scenaries simulator.***
  - Aircrafts movements onto taxiways and runway.
  - Vehicles movements inside the airports.
- ***Pilots simulator to create routine and emergencies procedures.***

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- ***Ground sensors simulator (operative and BITE).***
  - Surface movement radar (SMR).
  - Distributed microwave sensors (DMS).
  - GPS reports (only for vehicles).
- ***AGL simulator (operative and BITE).***
  - Center Lines and Stop Bars.
  - Taxiway Lighted Signs.
  - Runway Gaurd Lights.

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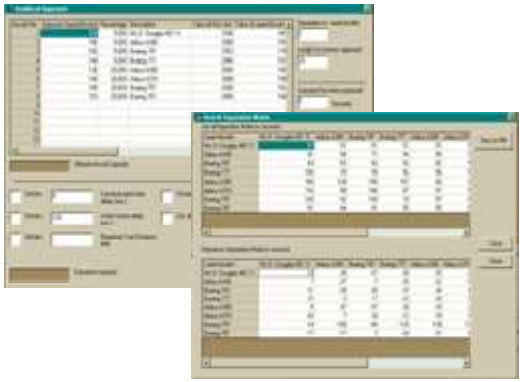

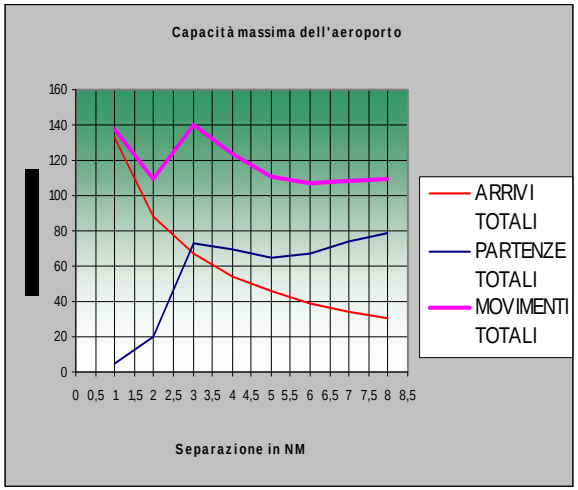

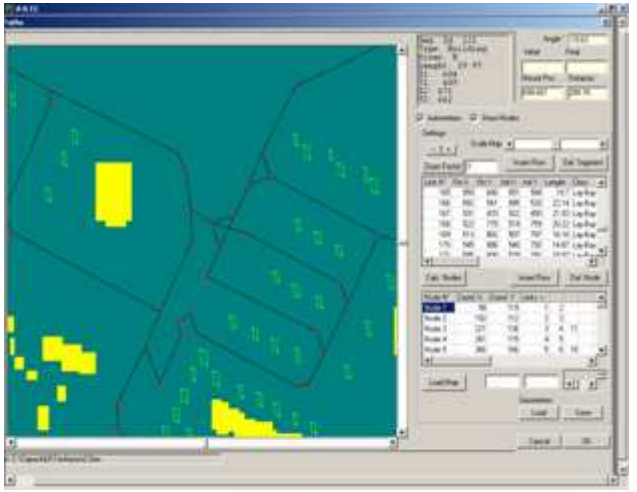

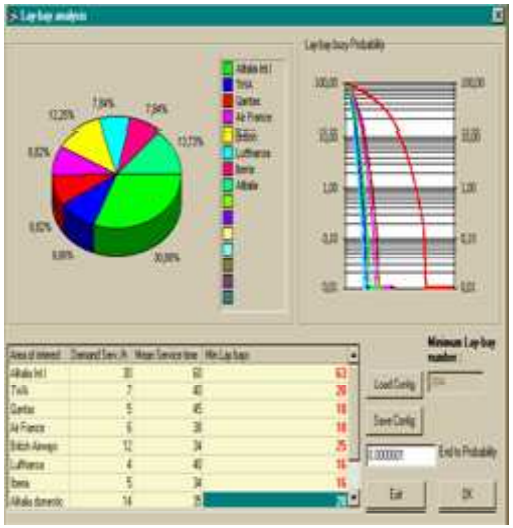

The airport capacity simulation model, developed by Argos Ingegneria S.p.A., allows to evaluate:

- airport maximum theoretical capacity;
- airport maximum real capacity (considering existing taxiway, apron, gates constraints);
- airport capacity potential increase, based on specified interventions;
- infrastructures increase based on feasibility studies/master plan.