- Airside simulation
  - Total Airport Assessment (49)
  - Ground Traffic (3)
  - RWY / Airspace
    - Operational / Procedural Variations of ...
      - Flight Schedule
        - 1) Input data
          - Valid Baseline Model
          - only variation of Flight Schedule related parameters
        - 2) KPIs
          - DEP / ARR Delay
            - Cumulative
            - Average
            - Maximum
            - Trend / Distribution
          - Throughput vs Delay
          - Taxi Time & Distance
        - 3) Best practice
          - Choose appropriate KPIs / LOS tailored to your audience
          - Coordination with relevant stakeholders
          - run as many iterations as necessary
      - RWY operating modes / use schemes (e.g. RWY Closure; dependent-segregated ops; single/mixed mode;)
        - 1) Input data
          - Valid Baseline Model as far as applicable
          - Flight Schedule
            - Baseline Demand
            - Customised Demand
          - Assumptions for parameters to be modified; / Variations to be considered
        - 2) KPIs
          - DEP / ARR Delay
            - Cumulative
            - Average
            - Maximum
            - Trend / Distribution
          - Throughput vs Delay
          - Workload
          - Taxi Time & Distance
        - 3) Best practice
          - Reduction of possible scenarios to be modelled through expert judgement
          - Coordination with relevant stakeholders
          - Start early enough
          - run as many iterations as necessary
          - Choose appropriate KPIs / LOS tailored to your audience
          - Don't dive too fast in the modelling phase - use your brain first!
      - Runway related input data (e.g.Wake Vortex; WX impact; ROT; Route bias per Destination, new technologies and procedures (BTV; TBS; RECAT; GBAS; PWS)
        - 1) Input data
          - Valid Baseline Model
          - Usually no variation of Flight Schedule
          - Assumptions for parameters to be modified; / Variations to be considered
        - 2) KPIs
          - DEP / ARR Delay
            - Cumulative
            - Average
            - Maximum
            - Trend / Distribution
          - Throughput vs Delay
          - Taxi Time & Distance
          - Workload
        - 3) Best practice
          - Determination of revised input parameters through expert judgement / Benchmark
          - Coordination with relevant stakeholders
          - run as many iterations as necessary
          - Choose appropriate KPIs /LOS tailored to your audience
          - Don't dive too fast in the modelling phase - use your brain first!
    - Infrastructural Enhancements of..
      - RWY (i.e. new Runway)
        - 1) Input data
          - Valid Baseline Model as far as applicable
          - Supplement Baseline Model with new infrastructure
          - Supplement Baseline Model with assumptions for SID/STAR structure
          - Flight Schedule
            - Baseline Demand
            - Demand Forecast
            - Stepwise demand increase
            - Randomisation
          - Assumptions for parameters to be modified; / Variations to be considered
        - 2) KPIs
          - DEP / ARR Delay
            - Cumulative
            - Average
            - Maximum
            - Trend / Distribution
          - Throughput vs Delay
          - Taxi Time & Distance
          - Workload
        - 3) Best practice
          - Reduction of possible scenarios to be modelled through expert judgement (e.g. operability per year)
          - Identify relevant parameters for your objective
          - Try to use generic infrastructure for assessment of various scenarios
          - Coordination with relevant stakeholders
          - Start early enough
          - Speculate only where absolutely necessary
          - run as many iterations as necessary
      - Airspace (e.g. TMA / SID / STAR)
        - 1) Input data
          - Valid Baseline Model
          - only variation of Airspace related parameters
        - 2) KPIs
          - DEP / ARR Delay
            - Cumulative
            - Average
            - Maximum
            - Trend / Distribution
          - Throughput vs Delay
          - Taxi Time & Distance
        - 3) Best practice
          - Reduction of possible scenarios to be modelled through expert judgement
          - Choose appropriate KPIs / LOS tailored to your audience
          - Coordination with relevant stakeholders
          - run as many iterations as necessary
          - Start early enough
          - Try to use generic airspace structure for assessment of various scenarios
          - consider effects of neighbouring airports
  - TWY (12)
  - Apron (16)
- Input Data WorkShop (13)