Building a Business Case

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Scope

- The “wait & see” scenario
- Mitigating strategy (ies)
- Comparison & ranking

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Cost of “wait and see” scenario/ LANSA ANS example

In the event of disruption of **LANSA ANS at Borax**,

Simulations indicate that the overall state impact, **per day**, would be as follows:

- Flights cancelled 1080
- Re-routings (mins) 2469
- Ground Delays (mins) 17061

What is the cost per day of outage?

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Building a Business Case

Perform the economic assessment of the “wait & see”” scenario

- Impact of the outage of an ATM unit
  - on the airspace users
  - on the ANSPs
  - on the airports and local society
  - On the passengers
- Time to restore capacity
- Cost to rebuild capacity
- Probability of the outage

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Cost of “wait and see” scenario LANSA ANS at Borax example

LANSA ANS at Borax was destroyed by a fire

What is the total loss for the airspace users and the passengers?

Simulations indicate that the overall state impact, **per day**, would be as follows:

- Flights cancelled 1080
- Re-routings (mins) 2469
- Ground Delays (mins) 17061

Capacity restoration would follow approximately the following pattern:

Number of Days spent in recovery step				
Restored Capacity	0%	25%	50%	75%
Wait and See (no Service Continuity)	30	100	200	770

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Contingency strategies
LANSA ANS at Borax

- The aim is to make best use of existing spare WPs at Borax and Galena to provide mutual aid to each unit.

The following candidate strategies are envisaged

- **Multi-use Facilities** - Within 48 hrs, re-configure the 4 training/simulator WPs in Borax (to provide approximately 75% of Borax capacity);

- **Co-located Facilities** - within 48 hrs, re-configure the 3 spare WPs in Galena ACC (to provide approximately 50% of Borax traffic) and Re-locate Borax staff to Galena.

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"Wait & see" vs. contingency strategies
LANSA ANS at Borax example

LANSA ANS at Borax was destroyed by a fire

What is the total loss for the airspace users and the passengers under the two candidate mitigating strategies?

Simulations indicate that the overall state impact, **per day**, would be as follows:

- Flights cancelled 1080
- Re-routings (mins) 2469
- Ground Delays (mins) 17061

Capacity restoration would follow approximately the following pattern:

Number of Days spent in recovery step				
Restored Capacity	0%	25%	50%	75%
Wait and See (no Service Continuity)	30	100	200	770
Training/simulator Borax		1	5	1094
Co-located in Galena	5	10	1085	

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