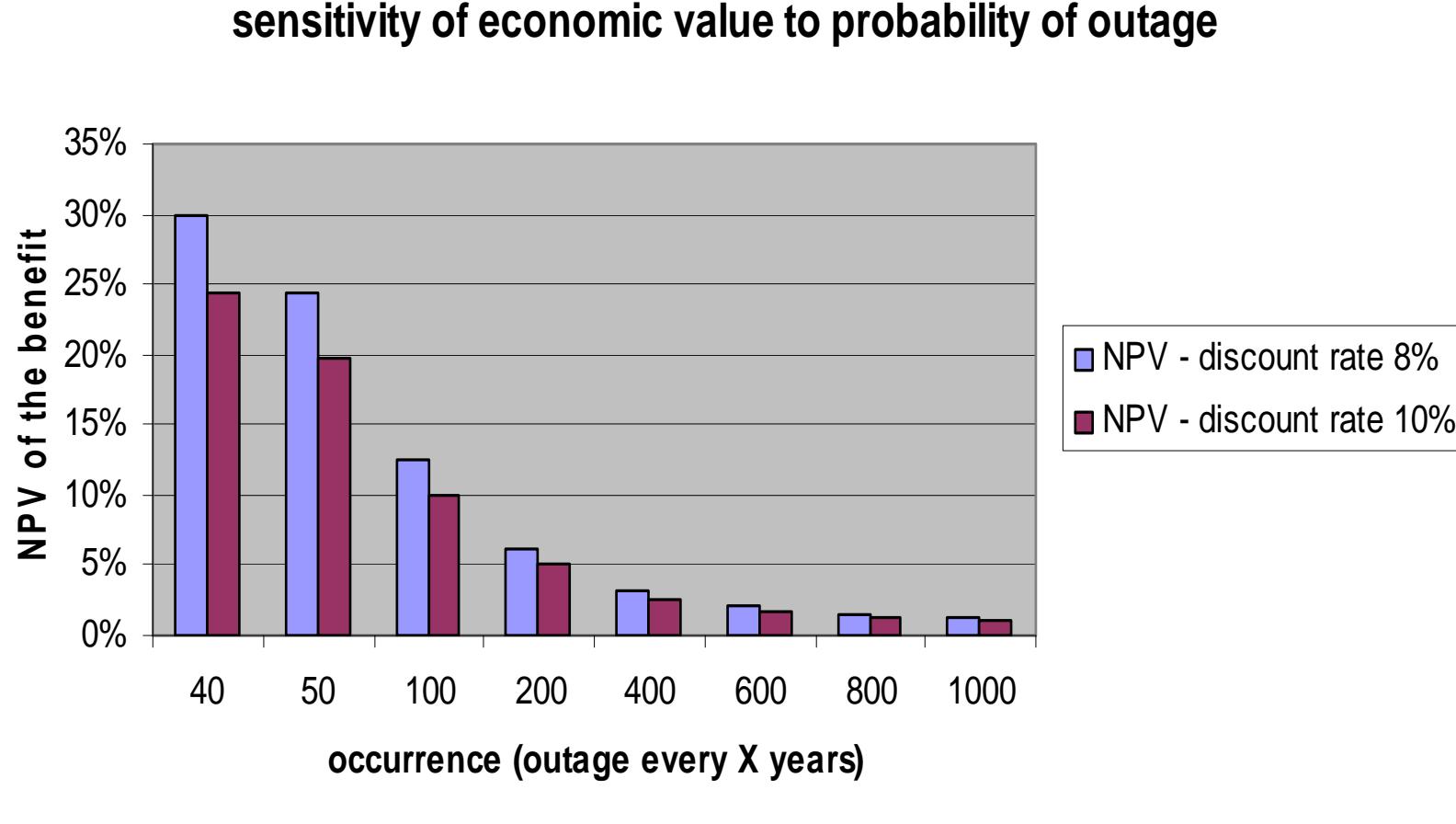


Short overview of the financial modeling

Short overview of the financial modeling: key sensitivities



Short overview of the financial modeling Proxy to probability of occurrence of outages

Generic figures for quantification of occurrences	
Event taking place or likely to take place every day or week	About 100 times per annum
Event taking place or likely to take place every month	About 10 times per annum
Event taking place or likely to take place every year ; already occurred on the site or occurred several times on other sites	About once per annum
Event likely to occur in the life of an installation ; never occurred repeatedly on the site but was observed regularly on other sites	About 10-1 per annum
Event unlikely to occur in the life of an installation ; never occurred on the site but was observed sometimes on other sites	About 10-2 per annum
Event shouldn't occur in the life of an installation ; never occurred repeatedly on the site and was observed very seldom regularly on other sites	About 10-3 per annum

Short overview of the financial modeling Recalling «wait & see » and mitigating strategies

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	

Short overview of the financial modeling

Analysis for the airspace users

Current loss if & when the outage occurs:

- Loss in case of « wait and see » € X million
- Loss in case of mitigating strategy € Y million
- Benefit resulting from mitigating strategy €(X-Y) million

Present & probabilistic value of benefit: € f(X-Y) million

Discounted costs of mitigating measures: € Z million

Net benefit of investment in contingency: € f(X-Y) -Z million

CBA ratio of mitigating strategy : $f(X-Y) / Z :: 1$

Short overview of the financial modeling

Analysis for the ANSPs

(Before application of rate of discount and probability of outage)

- Current loss of Route & TMA charges, « wait & see » scenario: €X million
- Current loss of Route & TMA charges, SC scenario : €Y million
- Current Benefit of service continuity: €X-Y million

Short overview of the financial modeling

Analysis for the airports & local economy

(Before application of rate of discount and probability of outage)

- Current loss of revenues, « wait & see » scenario: €X million
- Current loss of revenues, SC scenario : €Y million
- Induced & indirect effects (15%): €0.15(X-Y) million
- Current benefit of service continuity: €1.15(X-Y) million

Short overview of the financial modeling

Analysis for the passengers

(Before application of rate of discount and probability of outage)

- Current losses under « wait & see » scenario: €X million
- Current losses under SC scenario : €Y million
- Current Benefit of service continuity: €X-Y million

Short overview of the financial modeling: ranking the mitigating strategies

Present value of benefits for:	Strategy 1 Training/simulator Borax	Strategy 2 Co-located in Galena
Airspace users		
ANSPs		
Airports & local economy		
Passengers		
Total		