



Content

Introducing SWISS



Bombardier C Series

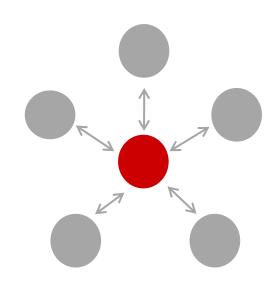


LPV approach (SBAS)





Introducing SWISS



Hub and spoke network carrier with main hub Zurich

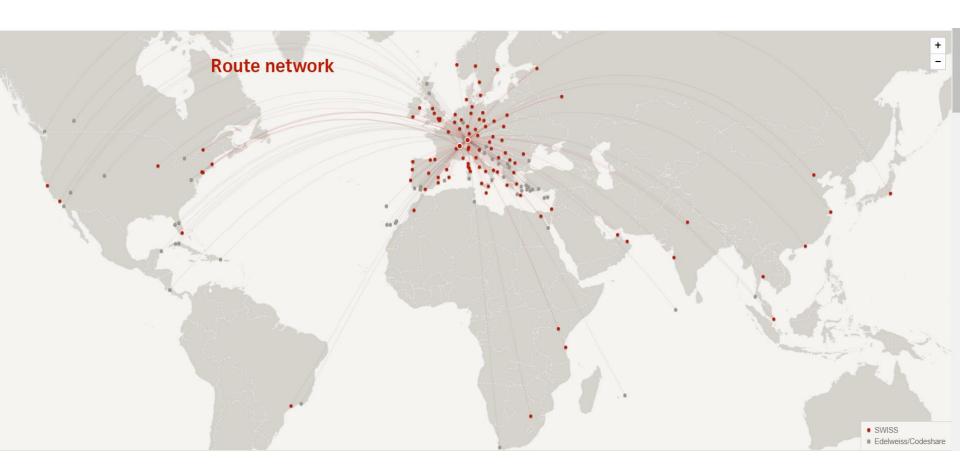








Introducing SWISS





Introducing SWISS

Aircraft Fleet SBAS		2192	RNP Approach	
		מאחמ	Baro VNAV	LPV
Bombardier	C Series (12)	✓	✓	✓
Airbus A32	20 family (35)			
Airbus A33	O / A340 (21)			
Boeing 7	77-300ER (8)			



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Bombardier C Series



LPV approach (SBAS)





Bombardier C Series Aircraft

First delivery: June 2016

Aircraft type		03.10.17	End 2018
• • • • • • • • • • • • • • • • • • •	Bombardier C Series 100	8	10
• • • • • • • • • • • • • • • • • • •	Bombardier C Series 300	4	20
	Total	12	30



Bombardier C Series Aircraft

Rockwell Collins Pro Line Fusion Avionics



Flight Deck



HUD



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Bombardier C Series



LPV approach (SBAS)





LPV (SBAS) - Operational Approval

Aircraft LPV certification

Part of Aircraft Type Certificate (Bombardier)

Flight procedures

Jointly developed

(Bombardier & SWISS)

Flight crew training

Performed in-house

(SSIWS)

LPV (SBAS) is baseline on Bombardier C Series



LPV (SBAS) - Flight Crew Training

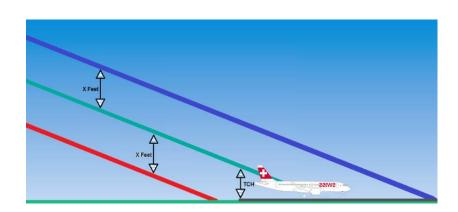




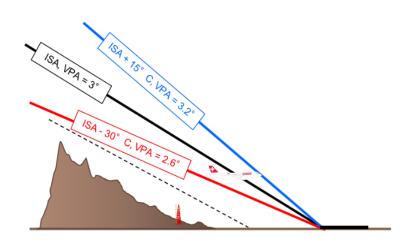
Increased Flight Safety



Compared to Baro VNAV



No influence of ambient **air pressure**



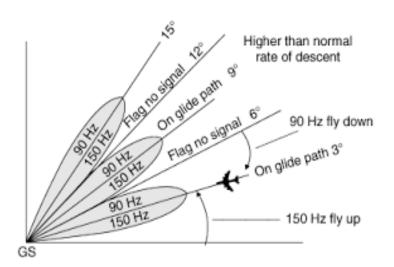
No influence of ambient air temperature



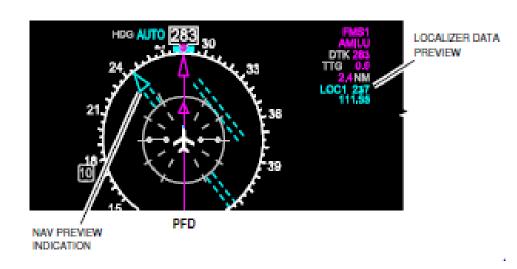
Enhanced Flight Safety



Compared to ILS



No side lobe



No navigation sensor change



Increased resilience

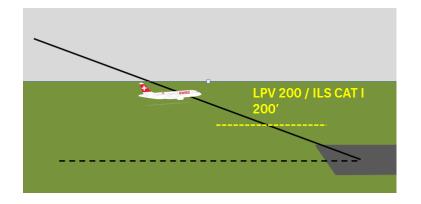
□ Compared to Baro VNAV

Baro VNAV 350'

Lower approach minimum

Enhanced redundancy

⇒ In case of ILS CAT I unserviceability



Additional CAT I approach LPV 200

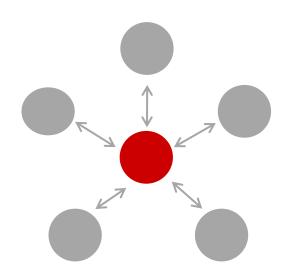


Less potential for human error

More robust hub operations

Better on-time performance

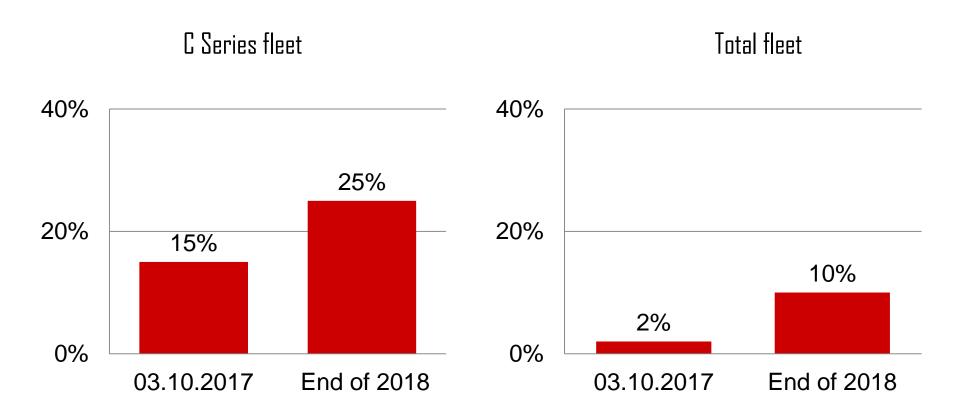
Less cancellations





LPV (SBAS) - Figures

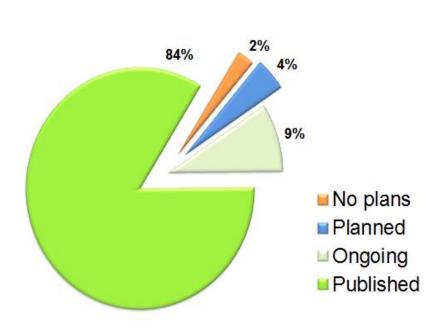
Actual and projected LPV approach operations



Estimates based on current and planned future operations.



LPV (SBAS) – Implementation on C Series destinations



SBAS implementation status as % of flights



SWISS SBAS destinations



