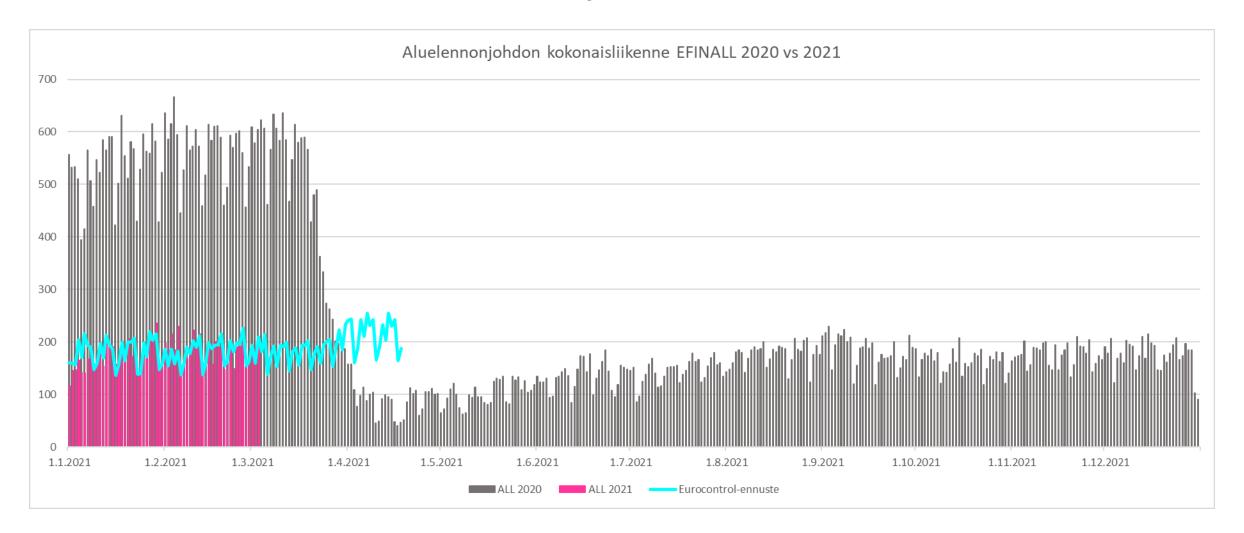


CPWG / 29

Fintraffic ANS update



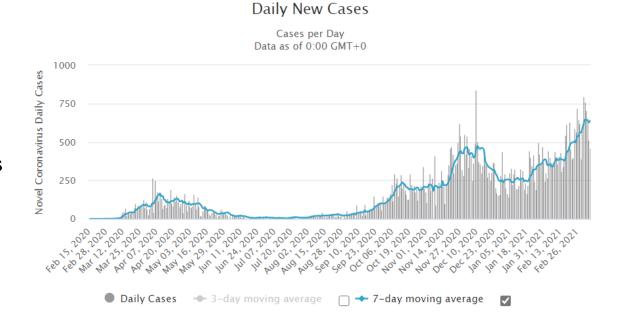
Helsinki ACC daily traffic 2020 vs. 2021





Covid -19 status and travel restrictions in Finland

- COVID -19 situation has gone worse during past months
- During reporting period (22–28 February), Finland recorded the highest number of new cases since the start of the epidemic.
- The incidence of new cases over the last 14-day period was 134 per 100,000 inhabitants.
- The vaccine rollout is progressing but not as quickly as expected
 - First dose 9% of total population



- Restrictions on entry to Finland have been tightened to prevent the spread of the coronavirus epidemic and the new virus variants.
- Entry into Finland is only permitted for necessary and justified reasons, such as studies or family-related reasons
- A negative test result, proof of a passed COVID-19 disease or a certificate of vaccination alone does not entitle a foreign citizen to enter Finland.
- Partial lockdown since 8th March
 - No curfew in place and outdoor movement is not restricted



Perfect Flight –project in collaboration with Finnair

ATC efficiency metrics

Optimal use of staffing

ATC service quality compared to defined standards

Comparison of planned and actual capacity

ATC service quality compared to amount and complexity of traffic



Cruising level

Tactical delays

ATC instructions

Fuel flow rate

At all stages of flight, comparison shall be done:

Perfect Flight route vs. FPL route vs. Actual route

Lenght

Fuel

Time

Co₂

Vertical profile

Optimal "Top of Descent"

ASM restrictions

RAD restrictions

ATC instructions

Undesired level-off

Rate of climb

Fuel flow rate

Lenght of (climb) segment

Noise abatement procedures

RWY capacity

CDM

Engine running time Speed management "The most valuable metrics for your business are those which power decision making and inspire innovation. When the frontline people in your organization, those who talk to your customers every day, are aligned and inspired by the same performance metrics as the executives, Innovations, both big and small, will occur regularly at all levels."

Factors that affect for predictability, such as RWY change or amount of vectoring by approach ATCO

Tactical delays

ATC instructions

Undesired level-off

Rate of descent

Fuel flow rate

Lenght of (descent) segment

Noise abatement procedures

RWY capacity

CDM

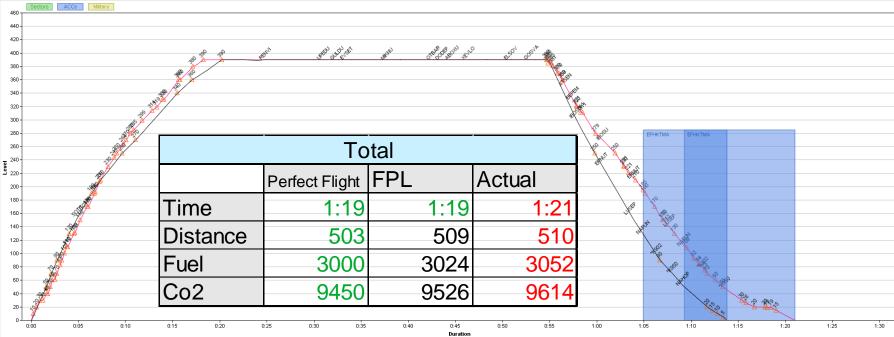
Engine running time
Speed management

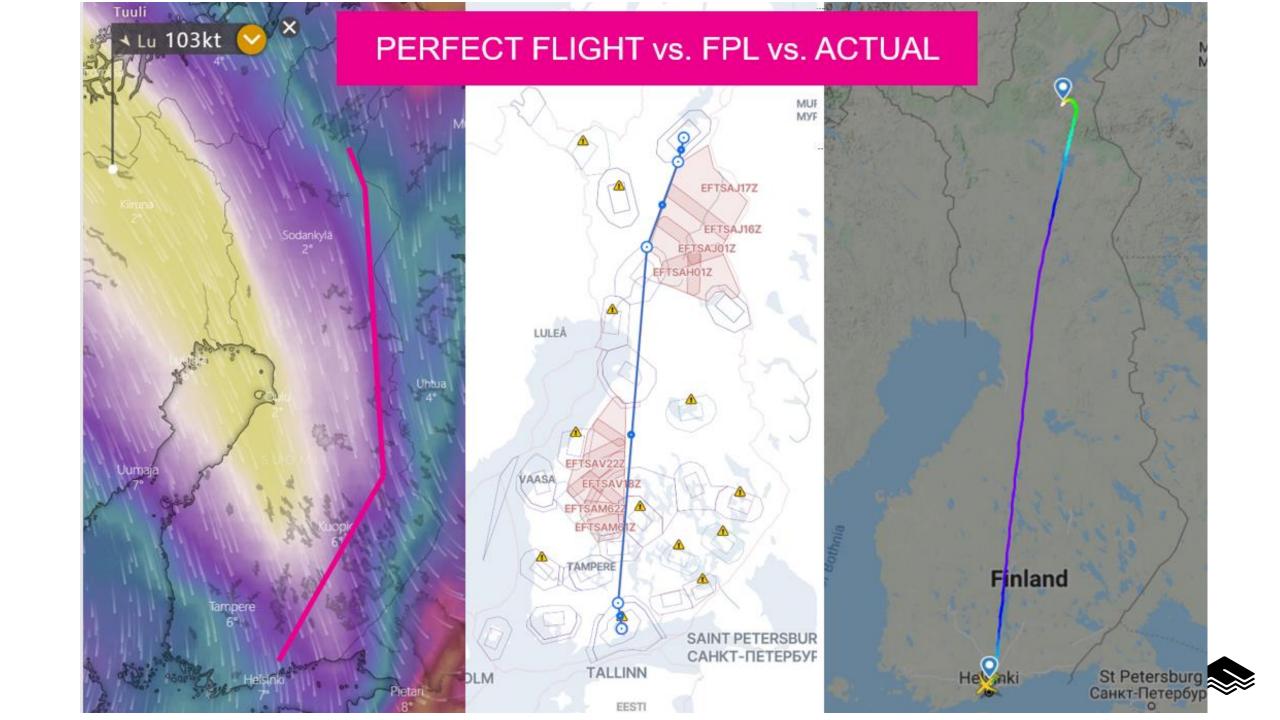
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IVL-HEL A321 AY637/FIN57N STD 1130Z

Climb GND-TOC				En-Route				Descent TOD-GND			
	Perfect Flight	FPL	Actual		Perfect Flight	FPL	Actual		Perfect Flight	FPL	Actual
Time	0:16:00	0:18:00	0:18:18	Time	0:37:00	0:35:00	0:35:25	Time	0:26:00	0:26:00	0:27:06
Distance	100	108	109	Distance	273	266	275	Distance	130	135	128
Fuel	1350	1410	1452	Fuel	1240	1188	1162	Fuel	402	413	436
Co2	4253	4442	4574	Co2	3906	3742	3660	Co2	1266	1301	1373





Thank you for your attention!

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