

Briefing to Met Symposium

Steve Smyth Director New Southern Sky

A national, benefits led programme – spanning a decade

- Safety benefits
- Environmental benefits
 - Economic benefits
 - Social benefits

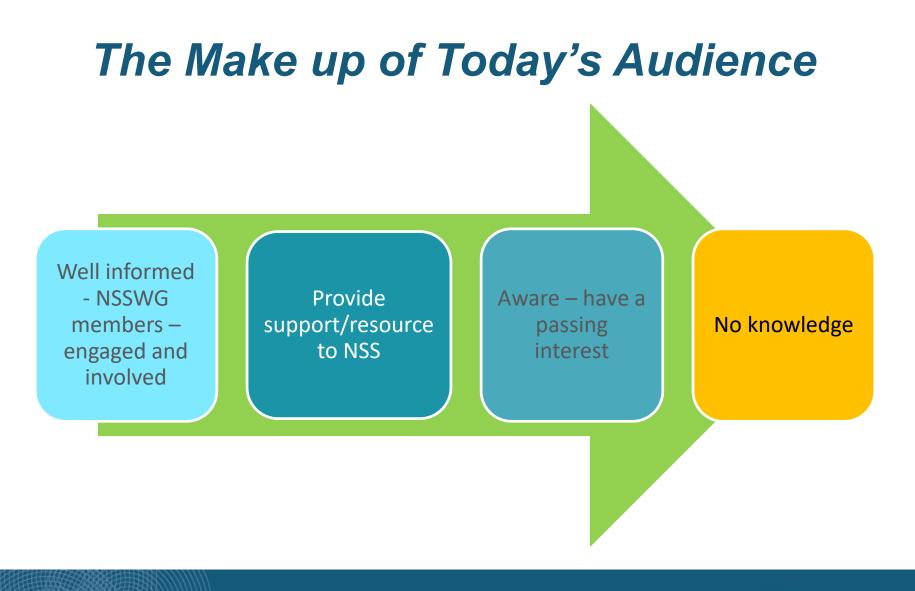
Partners are Civil Aviation Authority (CAA), Ministry of Transport (MoT), and Airways – not a legal arrangement





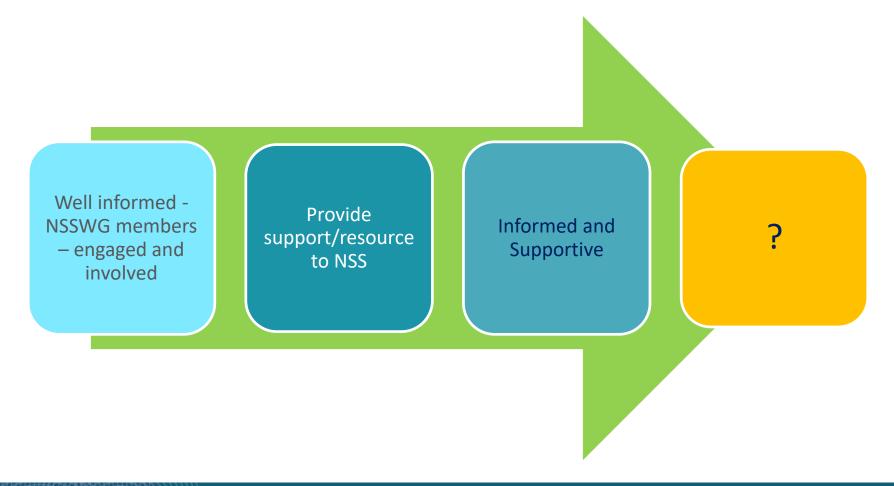




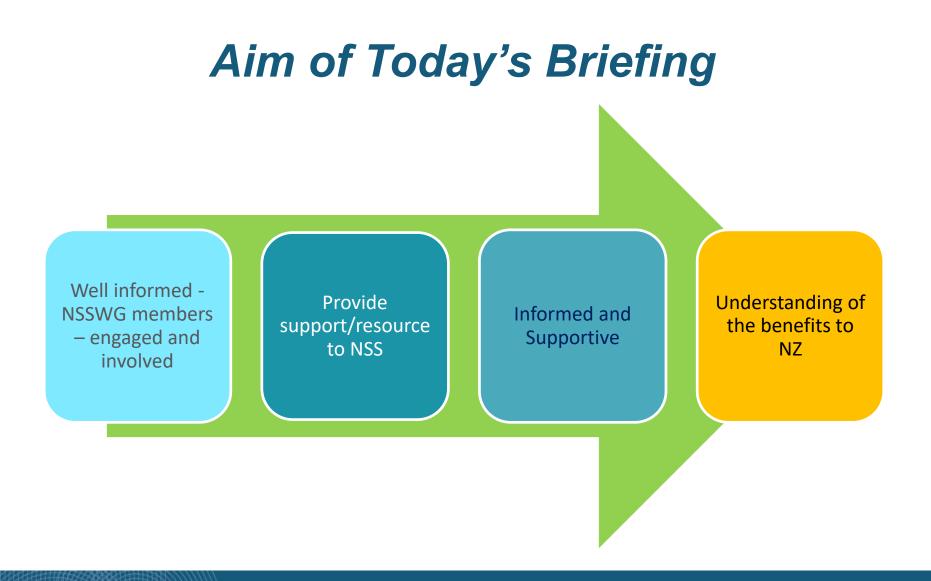




Audience Migration



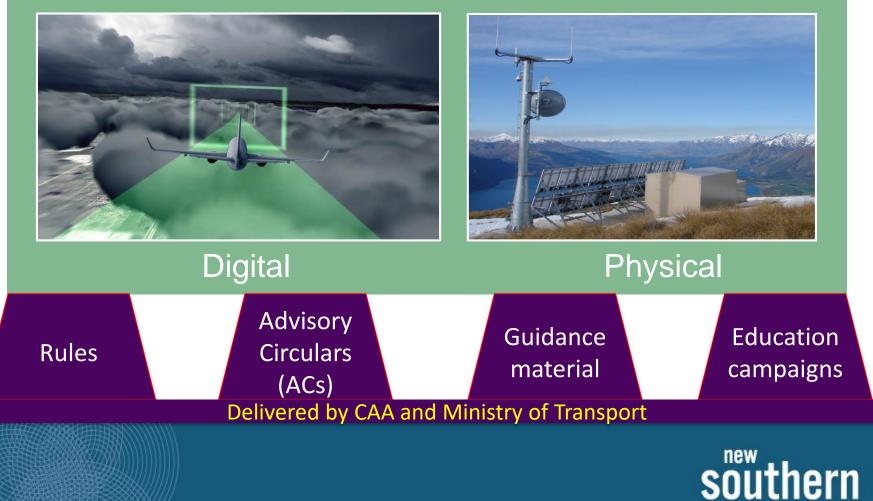




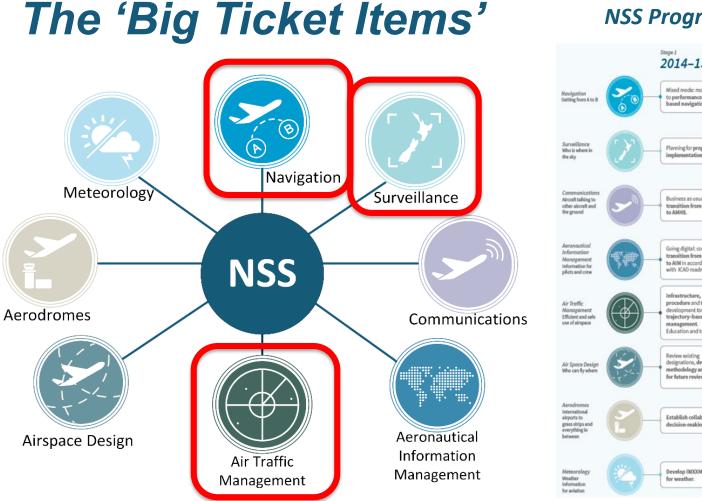


The value proposition

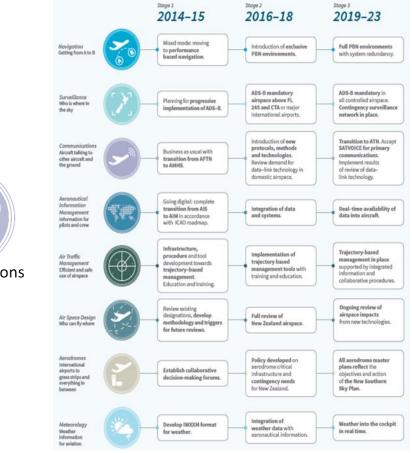
Coordination of infrastructure delivered by stakeholders



sky









NSS benefit delivery infometric



Benefits delivery through new **Performance Based Navigation, Surveillance** and **Air Traffic Management** technologies



Safety Benefits

2.2M more passengers per annum better protected by aircraft approach paths with vertical guidance. Environmental Benefits 4.8M Kg less CO2

per annum.

million kg

\$128M in direct benefits (costs avoided).

million

Economic Benefits



Social Benefits

Supporting increased

numbers of domestic

and international

major airports.

passengers through



Wider Economic Benefits National benefit of \$904M

million

National benefit of \$ over 20 years. Evidence based – significant and positive

High degree of certainty in the results

Continuous descent PBN approach

Reduced power settings, less noise, more fuel efficient, more environmentally friendly

Conventional step-down approach

More engine noise, less fuel efficient, less environmentally friendly

Results have been briefed to the Ministers



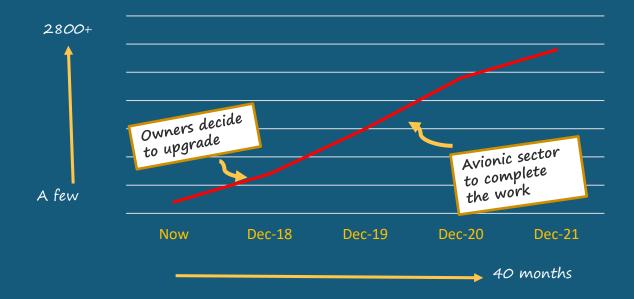
Programme Challenges

Focus on ADS-B below FL245 in Controlled Airspace









In a perfect world... this happens



The NSS approach is system based

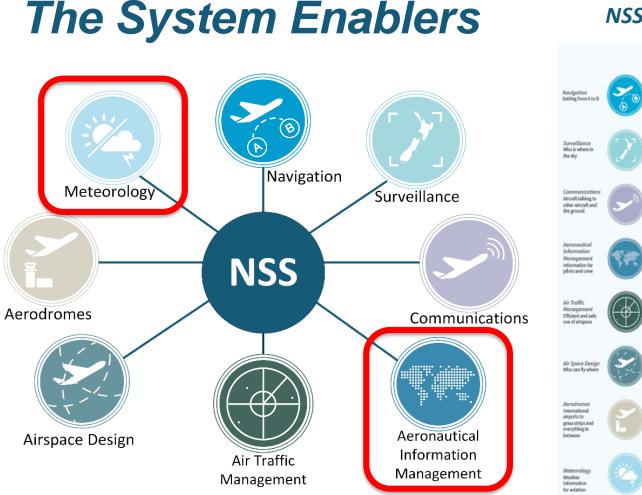


Get one part wrong – it affects the rest of the system



Get it right – benefits enhanced by being mutually supporting





NSS Programme on a Page





The System Enablers

Digital products in particular are the system enablers

The right information, available at the right time, to the right people

Met products becoming increasingly important to delivery of Benefits (Safety and Economic)

Much of this delivered by SWIM enabled systems



Benefits

ASBU	Block 0	Block 1
AMET – Met info supporting enhanced op efficiency and safety	Enhanced operational decisions	Enhanced op decisions through integrated met
	Forecasts Aerodrome Warnings Sigmets	Optimum flight profile planning In flight avoidance hazardous weather Standards for global exchange of MET info
Improved airport ops through airport collaborative decision making (ACDM)	Improved airport ops through CDM	Optimised airport ops through CDM

Benefits: Higher level of safety; fuel saved; happier passengers



Thoughts on Collaboration

- Synergies of new Met decision support tools enabling NSS capabilities Airport CDM/Met CDM
- Exploit the ability of Met decision support tools to enhance new ATM capabilities



Communications







