

## HIGH LEVEL COMPARATIVE ANALYSIS

### *SESAR and NextGen initiatives*

THEMES	SESAR	NextGen
1. <b>APPROACH</b>	Subregional	National
2. <b>SCOPE</b>	Gate to Gate	Curb to Curb
3. <b>OBJECTIVES</b>	Quantitative: — Three fold increase in capacity Reduce ATM cost by half Reduce environmental impact by 10% Increase safety by a factor of 3 by 2020 and 10 in the long term — —	Qualitative: Retain US leadership Expand capacity — Protect environment Ensure Safety  Ensure US national defence Secure the nation
4. <b>GOVERNANCE</b>	Private and public partnership	Private and public partnership
5. <b>PLANNING</b>	3 Phases: Definition phase from 2005 to 2008; Development phase from 2008 to 2015; and Deployment phase from 2014 to 2020	3 Epochs: Epoch 1 from 2006 to 2015; Epoch 2 from 2012 to 2019; and Epoch 3 from 2018 to 2025
6. <b>COST</b>	1560 Million Euros (Approximate)	1191 Million Dollars (Approximate)
7. <b>COMPATIBILITY</b>	Consistent with ICAO ATM operational concept	Consistent with ICAO ATM operational concept
8. <b>TECHNOLOGIES</b>	Digital communications and surveillance ADS-B IN and OUT Net centric infrastructure GNSS Automation	Digital communications and surveillance ADS-B IN and OUT Net centric infrastructure GNSS Automation
9. <b>OPERATIONS</b>	4 dimensions trajectory management Collaborative decision making SWIM Delegation of separation Increased runway capacity Focus on Commercial aviation	4 dimensions trajectory management Collaborative decision making SWIM Delegation of separation Increased runway capacity Focus on general aviation