

NextGen Investing for the Future

May 1, 2007
ICNS Conference



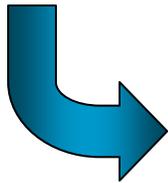
Building NextGen Capabilities

Core Technologies, Capabilities & Systems Engineering

Develop: FY06-11

Implement: FY10-15

- Complete R&D leading to mid-term
- Continue R&D that address long-term NextGen challenges
- Develop & implement known & new procedures, infrastructure, technologies
- Develop NextGen systems integration plan for mid-term transition to NextGen
- Complete infrastructure and systems engineering for mid-term

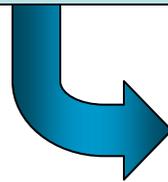


Mid-Term Transition to NextGen

Develop: FY12-17

Implement: FY14-19

- Aircraft equipped for the mid-term & upgradeable to NextGen target
- Deliver NextGen services & capabilities across domains
- Complete "hard" infrastructure – airports, runways, terminals, security
- Management & operating models support transition to NextGen and long-term sustainability



NextGen Solutions Fully Integrated & Operating

Develop: FY18-21

Implement: FY20-25

- NextGen solutions fully-integrated & operating across air transportation system
- Services managed & operating in ways that achieve transformational outcomes across air transportation system

Major Investors

- Federal Aviation Administration
- NASA
- Department of Defense
- Department of Commerce
- Department of Homeland Security
- Airports
- System Users



FAA's NextGen Investment Portfolio, FY08-FY12

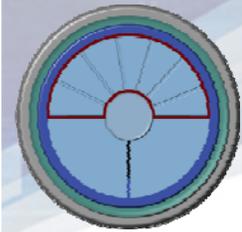
	FY08	FY09	FY10	FY11	FY12	Total
Total Capital	2,462	2,959	3,115	3,353	3,506	15,395
NextGen Portfolio	173	653	957	1,256	1,295	4,334
Total RE&D	140	191	190	194	196	911
NextGen Portfolio	63	63	62	64	65	317
Total NextGen	236	720	1,026	1,327	1,370	4,651



FAA's NextGen Capital Investments, FY08-FY12

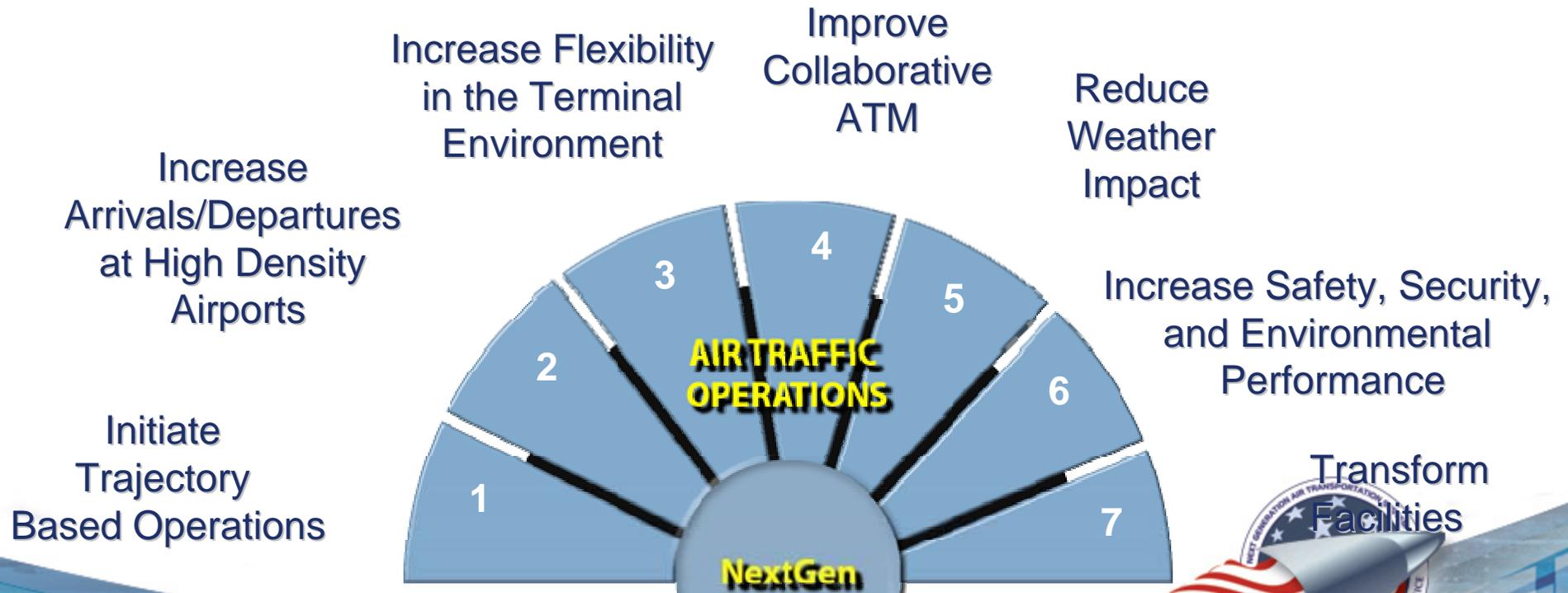
	FY08	FY09	FY10	FY11	FY12	Total
ADS-B	85	93	140	156	91	564
SWIM	21	31	31	38	52	173
NextGen Data Communications	7	15	29	37	38	126
NextGen Network Enabled Weather	7	20	25	25	25	102
NAS Voice Switch	3	14	40	50	50	157
NextGen Demonstrations and Infrastructure Development	50	30	30	30	30	170
Future NextGen		450	662	921	1009	3042
Total	173	653	957	1256	1295	4334



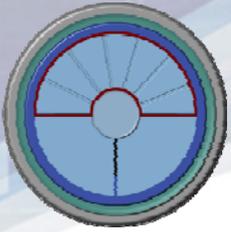


OEP Framework – Air Traffic Operations

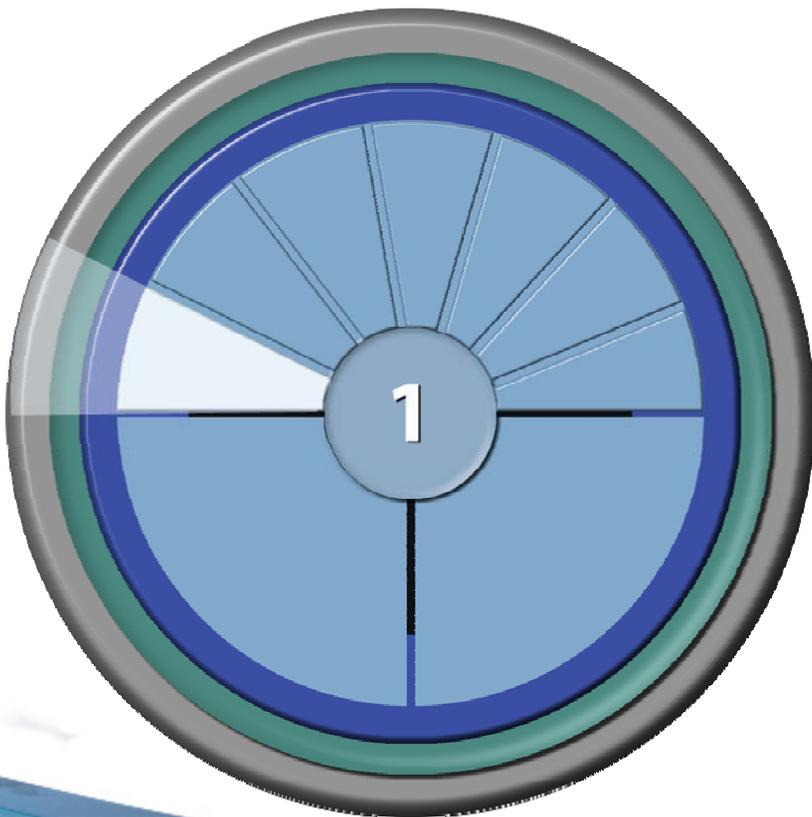
Seven (7) “Solution Sets” targeted to address
Capacity, Efficiency, Safety, Security
of air transportation operations



Initiate Trajectory Based Operations



Contents of the OEP
7 Solution Sets



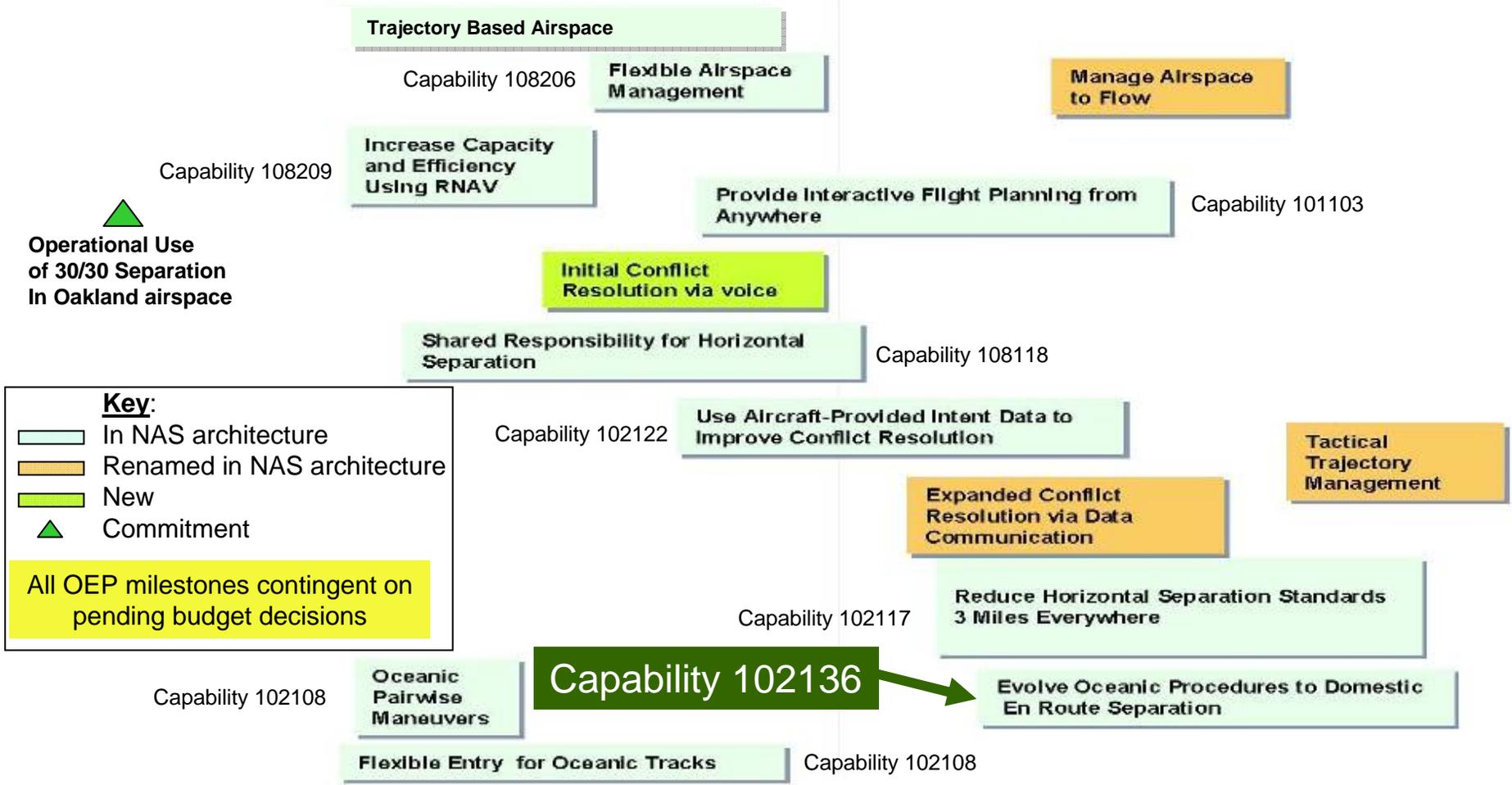
- Aircraft fly negotiated trajectories
- ATC moves to management by trajectory
- Aircraft are equipped for full participation in trajectory based operations
- Changes to roles, responsibilities, and procedures that support the move to trajectory based operations





Initiate Trajectory Based Operations

2008 2009 2010 2011 2012 2013 2014 2025



Supporting Near-Term Decisions

- **Business Case**
 - Focuses on mid term, end state, and solution set capabilities
 - Considers government and private sector impacts
 - Will show 5-year investment outlook
- **Research and Development Plan**
 - Will identify R&D needs and responsibilities of partner agencies
 - Will identify gaps
 - Will show 5-year investment outlook
- **Integrated Work Plan**
 - Lays out major activities required through 2025

