# NextGen Improvements

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*Delivers increased efficiency, flexibility, predictability, safety, environmental benefits.*
NextGen Priorities

- Execute Programs
- Deliver Capabilities
- Collaborate
- Examine and Renew
Top Seven Programs

**Automatic Dependent Surveillance–Broadcast**
- Radio Infrastructure Complete March 2014
- NAS-wide Pilot Advisory Services (Traffic & Weather) June 2014
- Complete Final 24 of 24 En Route IOCs Sept. 2015
- Complete All Term. & Surf. IOCs 2019
- Complete All Term. & Surf. IOCs 2019

**Data Communications (Data Comm)**
- Initiate DCL Tower Trials: MEM Jan. 2013 & EWR April 2013
- Complete DCL Tower Trials September 2014
- Complete DCL Tower Service Operational Test & Evaluation (OT&E) Nov. 2015
- DCL Tower Service IOC Key Site (SLC) March 2016
- DCL Tower Service IOC Key Site (SLC) March 2016

**En Route Automation Modernization**
- Complete Final / 20th IOC September 2014
- Complete Final / 20th ORD March 2015
- Complete Final / 20th ORD March 2015

**Terminal Automation Modernization and Replacement**
- 1 ARTS IIIE IOC (Dallas – D10) April 2013
- Complete 3 ARTS IIE IOCs Sept. 2014
- Final ARTS IIIE IOC May 2016
- Final ARTS IIIE IOC May 2016

**Terminal Flight Data Manager**
- Initial Investment Decision (IID) March 2014
- Screening Info. Request (SIR) Release July 2014
- Final Investment Decision (FID) March 2015
- Contract Award April 2015
- Complete Key Site IOC 2017
- Complete Key Site IOC 2017

**NAS Voice System (NVS)**
- Achieve Gov’t Acceptance of two NVS Demo systems at contractor’s facility
- Complete Initial Demonstrations March 2014
- Final Investment Decision (FID) Sept. 2014
- Begin ATC Task & Skills Analysis (TASA) Development Nov. 2015
- Begin ATC Task & Skills Analysis (TASA) Development Nov. 2015

**System Wide Information Management (SWIM)**
- Complete NextGen Capabilities Package Sep. 2013
- Complete SWIM Terminal Data Distribution System (STDDS) Implementation June 2014
- Complete Flight Data Publication IOC July 2015
- Complete Flight Data Publication IOC July 2015

**Legend**
- Activity is completed
- Activity is in progress
- Activity is at risk
- Activity is missed
Deliver Capabilities

Near-term benefits and capabilities with no additional equipage required

Special emphasis on high priorities for stakeholders:

- Multiple Runway Operations
- Performance Based Navigation
- Surface
- Data Communications
Collaborate and Harmonize

FAA works internally, externally and globally to collaborate and harmonize NextGen improvements.

• NextGen Advisory Council
• Deployment Implementation Group
• International Agreements
• NASA Technology Transfers
  + Precision departure release capability
  + 3D path arrival management
  + Flow-based trajectory management
• Partner agency focus areas through JPDO have included:
  + Integrated surveillance
  + UAS comprehensive plan
  + Interagency data exchange
  + Net-Enabled Test Environment
• NextGen Institute (AIAA, RTCA, ATCA)
Examine and Renew

- Deployment Implementation Group
- Assessment against goals
- Budget examination
- IG study