

Imagery For The Nation Overview

NAIP Planning/Requirements Meeting

November 2007



The Vision

The Nation will have a sustainable and flexible national digital imagery program that meets the needs of local, State, regional, Tribal, and Federal agencies.

■ Imagery for the Nation - Concept

- Proposed by the **National States Geographic Information Council (NSGIC)** to create a coordinated national digital imagery program that will acquire, archive, and disseminate standardized, cyclic, multi-resolution imagery products.
- Purpose was to reduce duplicative efforts, and to increase economies of scale, return on investment, and the availability of imagery to all sectors.
- To be funded by Federal agencies with “buy-up” options funded by States and localities.
- To be managed by the **National Digital Orthophoto Program (NDOP) Steering Committee**.

Original IFTN Concept

- Administered by FSA

 - 1-m imagery over 48 States (NAIP), annual cycle, Federally funded

 - 1-m imagery over ocean islands (HI, PR, VI, etc.), 3-year cycle, Federally funded

 - "Leaf-On" collection, Natural Color, Limited buy-ups

- Administered by USGS

 - 1-m imagery over Alaska, 5-year cycle, Federally funded

 - 1-ft imagery over counties with a population greater than 25/sq.mi., 3-year cycle, Federally funded

 - 6-in imagery over Census blocks with a population greater than 1,000/sq.mi., 3-year cycle, 50% Federal cost-share with States and localities

 - "Leaf-Off" collection, Natural Color, More extensive buy-up options

- NSGIC Presents to Federal Geographic Data Committee late 2005
- FGDC Steering Committee tasked NDOP to develop a business plan and funding strategy
- Geospatial Line of Business established March 2006. IFTN activities slowed on assumption that the GeoLOB would be facilitate. This did not occur. FGDC requested that NDOP continue its efforts.
- Mid - 2006, USGS approached NDOP agencies to help establish a Cost Benefit Analysis (CBA).
- CBA begun September 2006 by Perot Systems Corporation, jointly funded by USGS and FSA, completed July 2007.

Description of Baseline and Alternatives

- **Current State: Baseline**
- **Alternative #1 – Original IFTN Concept**
 - 1-m federally funded nationwide coverage, 1-ft federally funded coverage determined by population model, and 6-in cost share coverage of urban areas.
- **Alternative #2 – Original IFTN Concept with Full Federal Funding for 1-ft Program**
 - IFTN as proposed by NSGIC/NDOP with 1-ft coverage of lower 48 states and Hawaii. Alaska and the Insular Areas will adhere to population model.
- **Alternative #3 – Original IFTN Concept with Mandatory 50% Cost Share for 1-ft Program**
 - IFTN as proposed by NSGIC/NDOP with 1-ft coverage of lower 48 states and Hawaii, with mandatory cost share. Federal government will provide 50% according to statewide business plan. Alaska and the Insular Areas will adhere to population model.
- **Alternative #4 – Original IFTN Concept with Optional 50% Cost Share for 1-ft Program**
 - IFTN as proposed by NSGIC/NDOP with 1-ft coverage of lower 48 states and Hawaii with optional cost share. Federal government will guarantee the availability of 50% funding for coverage according to statewide business plans. Statewide councils can increase funding to increase program coverage. Alaska and the Insular Areas will adhere to population model.

Recommended Alternative

- The alternatives received the same scores in the categories of business processes and non-quantifiable benefits; therefore, the remaining categories, cost, business requirements and risk were used to select the recommended alternative.

The Recommended Alternative is #4: Original IFTN Concept with Optional 50% Cost Share for 1-ft Program

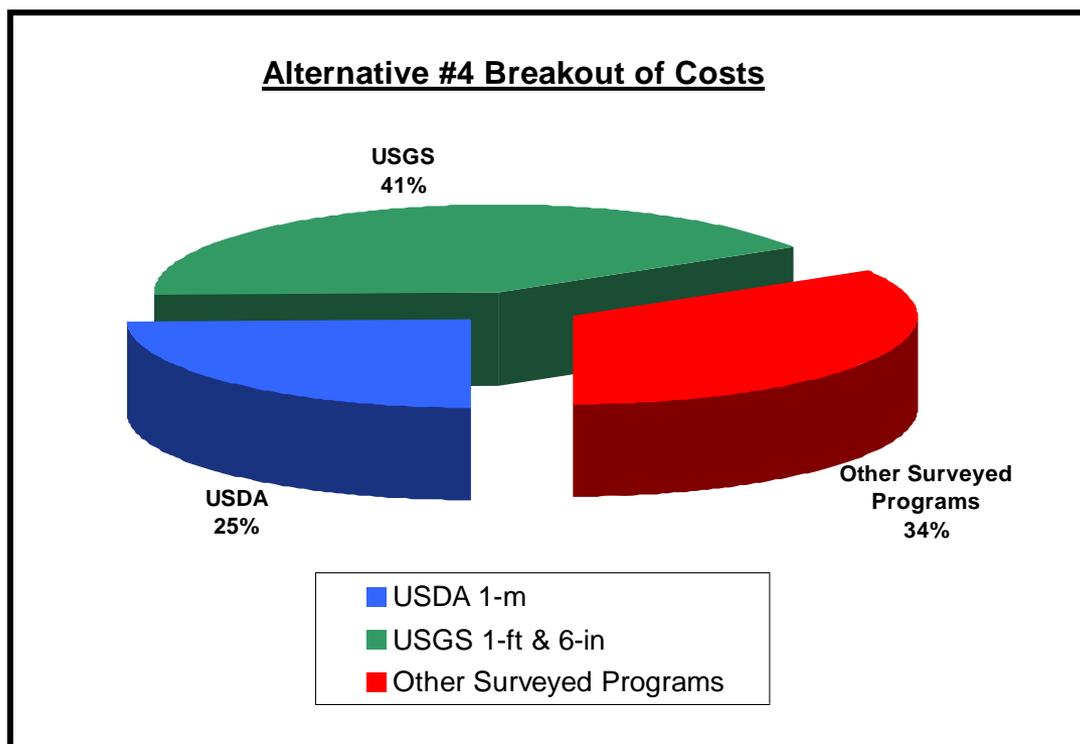
- This alternative presents a positive ROI and NPV while providing an equitable program to all federal, state, and local agencies.
- This is particularly appealing to western states, since most of their less populous areas require higher resolution imagery to support industries such as, utility corridors, transportation, energy development, and tourism.
- Funding for Alternative #4 is more likely to be supported by Congress than Alternative #1.
- The rate of adoption of such a program is also estimated to be higher than that of Alternative #1 due to the population requirements which limit the national coverage of 1-ft imagery.
- Alternative #4 offers the flexibility that will allow statewide coordinating councils (with federal representation) to determine the exact land area of coverage for the 1-ft program.



Breakout of Total Costs by Agency: Alternative #4

Alternative #4 - Total Costs	10 Year Life Cycle Costs in Base Year Dollars										Total Costs FY07-FY16
	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	
USDA 1-m	\$29 M	\$33 M	\$36 M	\$37 M	\$38 M	\$42 M	\$42 M	\$42 M	\$42 M	\$44 M	\$387 M
USGS 1-ft & 6-in	\$11 M	\$11 M	\$19 M	\$53 M	\$90 M	\$89 M	\$90 M	\$90 M	\$90 M	\$91 M	\$634 M
Other Surveyed Programs	\$125 M	\$125 M	\$101 M	\$69 M	\$38 M	\$13 M	\$522 M				
Total	\$166 M	\$169 M	\$156 M	\$160 M	\$167 M	\$144 M	\$145 M	\$145 M	\$145 M	\$147 M	\$1.54 B

Other Surveyed Programs includes costs of federal, state, and local programs adopting IFTN between FY07 and FY12. The total costs assume a 90% adoption rate for these programs by 2012, with 10% residual for the remainder of the lifecycle.



- NSGIC met with Hill to advocate for IFTN throughout 2007.
- NSGIC is continuing to advocate directly with Congress for inclusion of IFTN in 2009 budget language. Private industry groups have indicated they are doing the same.
- NDOP Steering and Sub-Committee Development
- While there still remains two components to Imagery for the Nation, NAIP appears further along in terms of a viable program.



Cost Benefit Analysis

CBA Posted at:

www.ndop.gov

Additional information

www.nsgic.org