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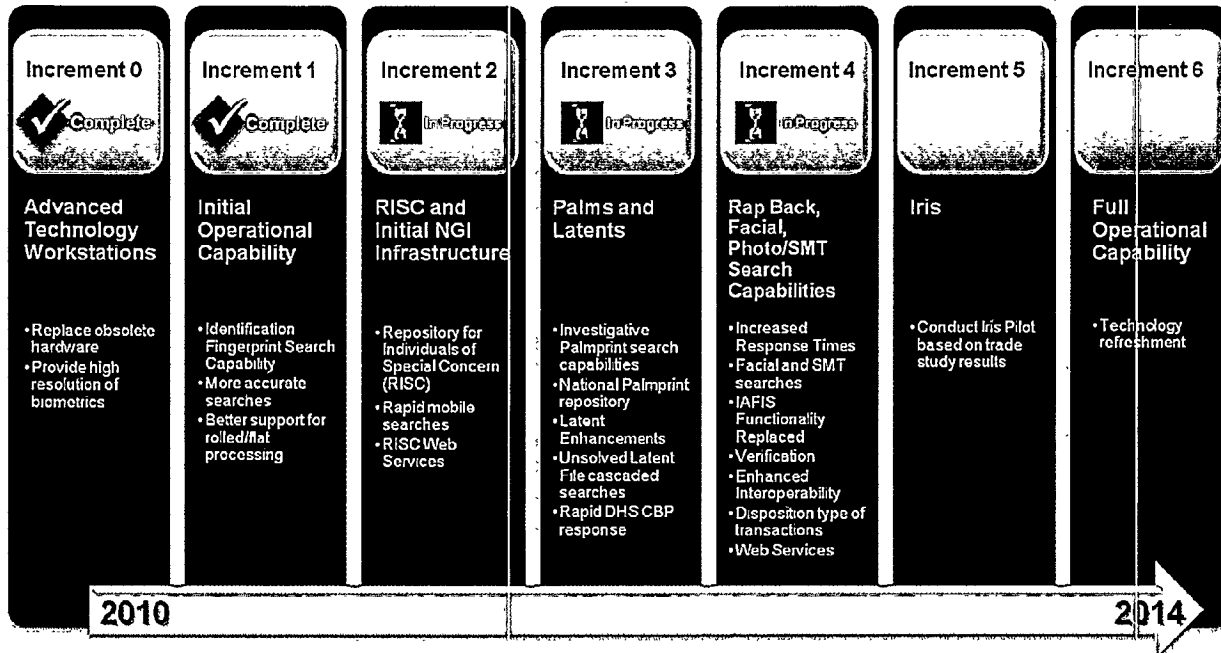
Response to White House Domestic Policy Council

What is Next Generation Identification (NGI)?

NGI will improve, expand, and create new biometric services and will incrementally replace existing Integrated Automated Fingerprint Identification System (IAFIS) components, providing both new and improved identification and increased criminal history information services.

NGI was developed and is being deployed over a multiple year time span. NGI will increase information processing and sharing needs of the more than 18,000 local, state, federal, and international agencies who are our customers. NGI will also provide a framework to support multimodal developments in biometrics like palmprints, scars, marks, and tattoos (SMT), and facial measurement and offer state-of-the-art biometric identification services.

NGI Implementation Schedule

Increment 0	Increment 1	Increment 2	Increment 3	Increment 4	Increment 5	Increment 6
✔ Complete	✔ Complete	In Progress	In Progress	In Progress		
Advanced Technology Workstations	Initial Operational Capability	RISC and Initial NGI Infrastructure	Palms and Latents	Rap Back, Facial, Photo/SMT Search Capabilities	Iris	Full Operational Capability
• Replace obsolete hardware • Provide high resolution of biometrics	• Identification Fingerprint Search Capability • More accurate searches • Better support for rolled/flat processing	• Repository for Individuals of Special Concern (RISC) • Rapid mobile searches • RISC Web Services	• Investigative Palmprint search capabilities • National Palmprint repository • Latent Enhancements • Unsolved Latent File cascaded searches • Rapid DHS CBP response	• Increased Response Times • Facial and SMT searches • IAFIS Functionality Replaced • Verification • Enhanced Interoperability • Disposition type of transactions • Web Services	• Conduct Iris Pilot based on trade study results	• Technology refreshment

2010 ———————————————————————— 2014

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The FBI and its development contractor, Lockheed Martin Transportation and Security Solutions, continue to move forward with the design and development of the NGI System. The following NGI capabilities will be deployed in seven increments, spanning ten years.

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Increment 0
The first completed incremental delivery of NGI, replaced 840 legacy workstations with new Advanced Technology Workstations (ATWs). The installation process was completed seamlessly on March 26, 2010. Each ATW has a 30-inch, high resolution LCD monitor that increases operational efficiency to current IAFIS Service Providers.

Increment 1
This increment will support Initial Operating Capability (IOC) by replacing the FBI's existing Automated Fingerprint Identification System (AFIS) with the new Automated Fingerprint Identification Technology (AFIT) and was successfully implemented on February 25, 2011. AFIT will improve search accuracy to over 99 percent from the current 92 percent. AFIT features include faster processing, increased automated processing, and improved flat print searching.

Increment 2
Still in the final design stage, this increment will offer the Repository for Individuals of Special Concern (RISC) and initial NGI infrastructure in 2012. RISC allows rapid search of the databases containing wanted persons, sexual offender registry subjects, and known or appropriately suspected terrorists (KSTs), and other persons of special interest. These searches will be submitted from mobile devices by law enforcement to assess the level of threat of an encountered individual. The CJIS Division is currently piloting the RISC capability with several law enforcement agencies. Increment 2 will support both RISC rapid searches received as e-mails or as web service requests.

Increment 3
Increment 3 establishes the National Palmprint System and transitions IAFIS latent functionality to the new NGI infrastructure. A Latent Fingerprint and Palmprint Trade Study and subsequent report were completed in January. The CJIS Division has collected over 1 million palmprints in preparation of future search and retrieval. Increment 3 will also deliver latent enhancements such as increased penetration rates, investigative accuracy, and increased unsolved latent file capacity. Additionally, Increment 3 will provide a rapid response to the Department of Homeland Security (DHS) Customs and Border Protection (CBP) primary ports of entry.

Increment 4
Increment 4 will deliver the Rap Back Service to address a growing need for additional and timely notification of criminal activity involving individuals holding positions of trust. This Increment will deliver the capability for face, scars, marks, and tattoos searches and replace the IAFIS infrastructure. This increment also provides for enhanced interoperability and provides record-linking capabilities with DHS entities.

Increment 5
This increment will offer an Iris Pilot based on trade study results. This capability has the potential to benefit law enforcement by requiring less interaction with subjects and will allow quicker acquisition.

Increment 6
Increment 6 will offer Full Operational Capability (FOC) and support Technology Refreshment. All performance specifications will be met and additional tuning to meet non-functional requirements will occur.