

Industry Day

June 30, 2022 / Office of the Chief Information Officer (OCIO)



OFFICE OF THE CHIEF
INFORMATION OFFICER

Agenda

NIH
Overview

OCIO

OCIO
Overview

OCIO

Performance
Work
Statement

OCIO

Open Forum
and Closing
Remarks

NLM
CO



The Office of the Chief Information Officer

The OCIO is a staff office, providing advice to the NIH Director and IC leadership on the strategic direction and management of NIH IT activities:

Services:

- Cyber Security
 - Governance, Risk, and Compliance
 - Data and Infrastructure Protection
 - Security Operations
- IT Strategy, Policy, and Fiscal Matters
 - Trans NIH Governance
 - Portfolio Management
 - IT Policy and Compliance
 - Technology and Standards

OCIO STRATEGIC OBJECTIVES

Provide Stewardship of the NIH Enterprise IT Resources



Maintain and Improve Cyber Resiliency Across the NIH



Support and Engage the NIH IT Community



Foster an Inclusive and High-Performing Workplace Culture



OCIO 2021 Operational Performance: By the Numbers



42 million

suspicious web connections blocked daily



21+

Cyber technologies deployed and operated across all ICs to prevent, detect, and respond to cyber issues. Valued at

\$15 million
annually

45,000

intrusion attempt blocked daily



98%

emails containing spam or malicious content blocked each day



Supported the NIH IT Governance Committees that provide funding and oversight for over

\$428 million

in enterprise IT systems and services



100,000

NIH Network Devices protected



100%

completion among all NIH staff for the Information Security Refresher Course

\$1.6 billion

Planned, oversaw, and reported on NIH's IT portfolio totaling



\$130 million

Capital Investments for Cyber Security implemented



58

IC IT acquisition strategies annually reviewed valued at



\$6.4 billion

Worked with the NIH Institutes and Centers to respond to over

200

HHS data calls



NIH Institutes, Centers, Offices, and Trans Enterprise Systems by Size of IT Budget

This treemap illustrates the organizational structure of the National Institutes of Health (NIH). The largest category is the National Cancer Institute (NCI), which occupies the leftmost portion of the chart. To its right are the National Institute of Allergy and Infectious Diseases (NIAID) and Enterprise Systems (ES). The central column is dominated by the Center for Information Technology (CIT) and the National Library of Medicine (NLM). The rightmost section contains a complex arrangement of various institutes and centers, including the National Heart, Lung and Blood Institute (NHLBI), the Office of the Director (OD), the Clinical Center (CC), and numerous disease-specific institutes such as the National Institute of Child Health and Human Development (NICHD), the National Institute of Mental Health (NIMH), and the National Eye Institute (NEI). The size of each rectangle corresponds to the relative budget or operational scale of that entity within the NIH system.

Entity	Color
National Cancer Institute (NCI)	Dark Blue
National Institute of Allergy and Infectious Diseases (NIAID)	Light Blue
Enterprise Systems (ES)	Light Green
Center for Information Technology (CIT)	Medium Blue
National Library of Medicine (NLM)	Light Blue
National Heart, Lung and Blood Institute (NHLBI)	Light Green
Office of the Director (OD)	Light Blue
Clinical Center (CC)	Dark Green
National Institute of Child Health and Human Development (NICHD)	Light Green
National Institute of Mental Health (NIMH)	Light Blue
National Eye Institute (NEI)	Teal
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)	Light Blue
National Human Genome Research Institute (NHGRI)	Light Green
National Institute on Drug Abuse (NIDA)	Dark Green
National Institute of General Medical Sciences (NIGMS)	Light Blue
National Institute on Alcohol Abuse and Alcoholism (NIAAA)	Light Blue
National Institute on Diabetes and Digestive and Kidney Diseases (NIDDK)	Dark Green
National Institute on Aging (NIA)	Light Blue
National Center for Advancing Translational Sciences (NCATS)	Dark Blue
National Institute of Dental and Craniofacial Research (NIDCR)	Light Green
National Center for Complementary and Integrative Health (NCCIH)	Dark Blue
National Institute of Biomedical Imaging and Bioengineering (NIBIB)	Light Green
National Institute on Deafness and Other Communication Disorders (NIDCD)	Dark Blue
National Institute on Minority Health and Health Disparities (NIMHD)	Dark Blue
John E. Fogarty International Center (FIC)	Light Green
NIH Office of Research Services/Office of Research Facilities (ORS/ORF)	Light Blue
NIH Office of the Chief Information Officer (OCIO)	Dark Blue

National Institute of Allergy and Infectious Diseases
(NIAID)

Enterprise Systems (ES)



National Heart, Lung and Blood
(NHLBI)

Clinical Center (CC)

National Institute of
Environmental Health
Sciences (NIEHS)

<p>Office of Research Services Research Facilities</p>	<p>National Institute of Neurological Disorders and Stroke (NINDS)</p>
<p>National Institute on Aging (NIA)</p>	



OD Office of t
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Human
(NICHHD)

man

National In
of Arthritis
Musculoske
and Skin Dis
(NIAM)

National
Institute of
General
Medical
Sciences
(NIGMS)

National
Institute of
Dental and
Craniofacial
Research...

<p>the Chief Information Officer (OCIO)</p>	
<p>National Institute of Mental Health (NIMH)</p>	
<p>Institute of Medicine (IOM)</p>	<p>National Eye Institute (NEI)</p>
<p>National Institute on Alcohol Abuse and Alcoholism (NIAAA)</p>	<p>National Institute on Deafness and Other Communication Disorders (NIDCD)</p>
<p>National Institute of Biomedical Imaging and Bioengineering (NIBIB)</p>	<p>National Institute on Nursing Research (NNR)</p>
<p>National Center for Complementary and Integrative Health (NCCIH)</p>	<p>National Center for Human Genome Research (NCHGR)</p>

NIH IT Investment Portfolio

Major Investments

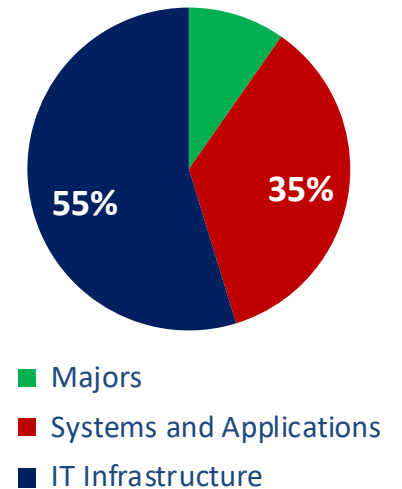
- NIH Business System (NBS)
- electronic Research Administration (eRA)
- NIH Business Intelligence System (NBIS) (nVision)
- Clinical Research Information System (CRIS)
- NCI Cancer Therapy Evaluation Program – Enterprise System (CTEP-ESYS)

Core Infrastructure Investments

- Data Centers and Cloud Services
- Network and Telecommunications
- End User Devices, Tools, and Support
- Cyber Security

	FY 2022	FY 2023	FY 2024
Majors	\$160.338	\$157.409	\$150.670
Systems and Applications	\$566.870	\$563.605	\$552.337
IT Infrastructure	\$909.304	\$890.732	\$900.000
NIH IT Portfolio Total	\$1,636.512	\$1,611.746	\$1,603.007

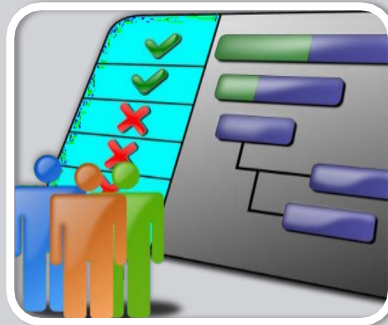
- ✓ Computationally intensive environment to support diverse research landscape
- ✓ Common enterprise shared service capabilities complemented with unique program support capabilities



Performance Work Statement



Technology
Innovation,
Architecture,
Standards



IT Policy,
Governance,
CPIC,
FITARA



Strategic,
Administrative,
Communications,
Logistics

Technology Innovation & Architecture

- **Manage Enterprise Architecture** (EA), Information Architecture (IA), Solution Architecture (SA), Data Architecture (DA), and Standards Support for NIH on demand from an ITMC Subcommittee or ICs
- **Offer leadership** on Architecture & Standards Subcommittee
- **Provide AoA** on competing technology investments
- **Support HHS EA** data calls and metrics requests
- **Provide IA Support** utilizing O365 and other low code platforms
- **Support** workplace automation initiatives



IT Governance & Policy

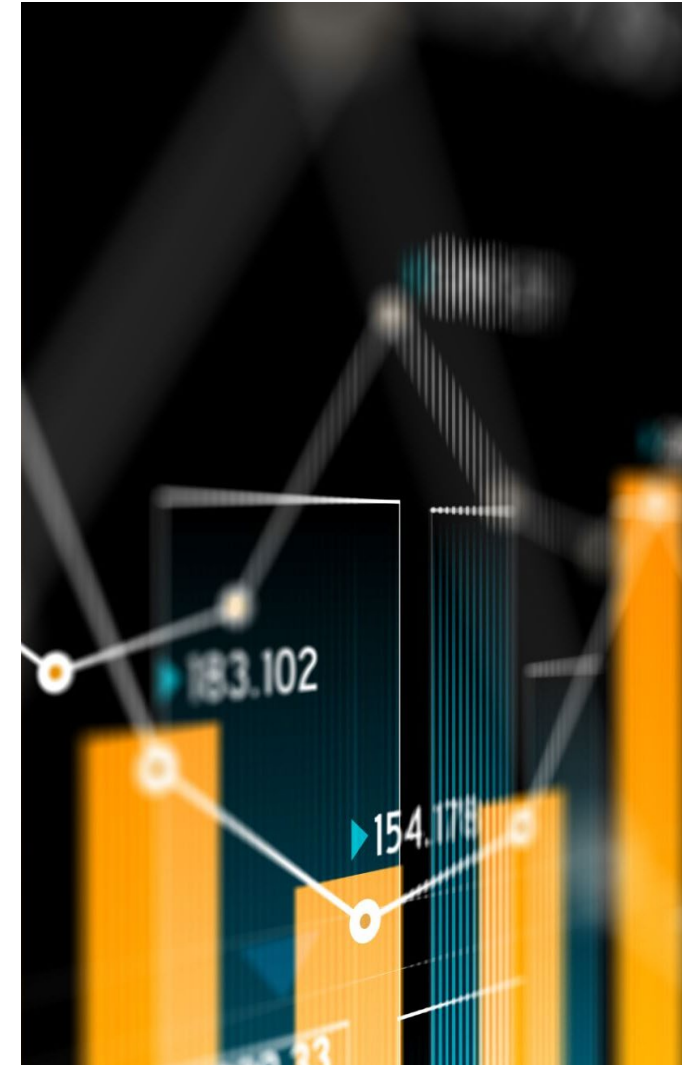
- **Support the IT Governance** of \$400M+ through the Enterprise IT Council, IT Budget Advisory Council, and their subcommittees
- **Support NIH's \$1.6 billion** IT investment portfolio
 - Collection, analysis and reporting for NIH, HHS, and OMB
 - Work directly with NIH ICs, major investments and enterprise systems, ensuring ongoing compliance, including TBM requirements
 - Provide strategic and innovative approaches for senior management to optimize portfolio
- **Educate, guide, collaborate,** and review NIH- and Department-related IT polices
- **Collaborate internally with NIH** and externally with Department to keep abreast of changes to the Federal Information Technology Acquisition Reform Act (FITARA) scorecard



FITARA

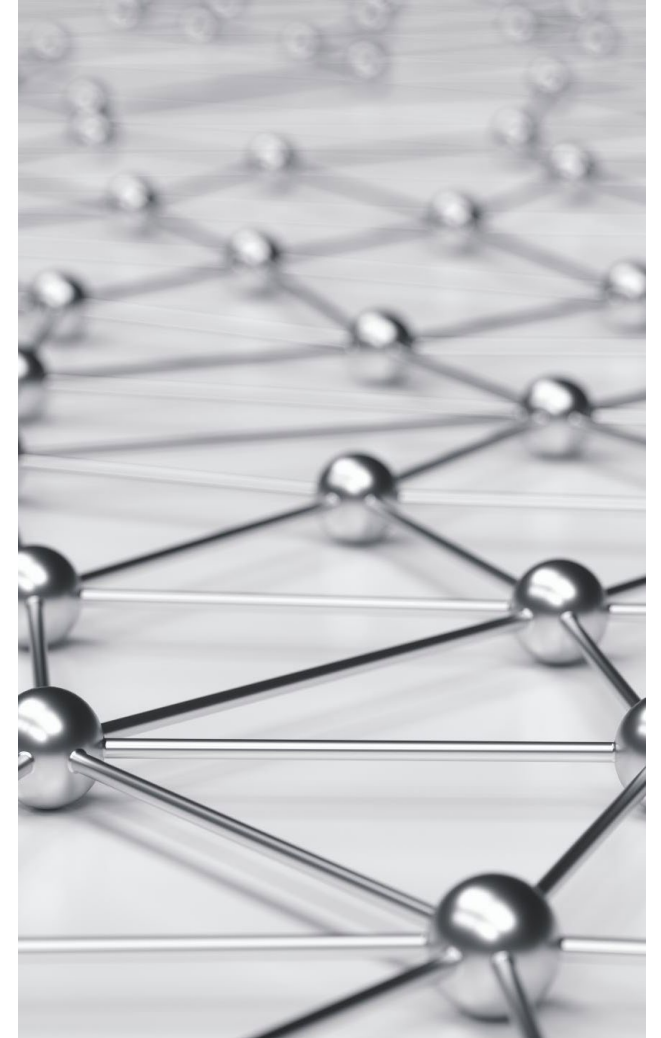
- **Federal Information Technology Acquisition Reform Act** (FITARA) of 2014, requires the heads of agencies to ensure that their respective chief information officers (CIOs) have a significant role in information technology (IT) decisions, including annual and multi-year planning, programming, budgeting, execution, reporting, management, governance, and oversight functions.
- **The HHS FITARA Implementation Plan** was created in FY15 and updated in FY16.¹
- **The Office of the Chief Information Officer** (within the Office of the Director) implements FITARA through delegated authorities on behalf of the NIH CIO.

¹<https://www.hhs.gov/digitalstrategy>



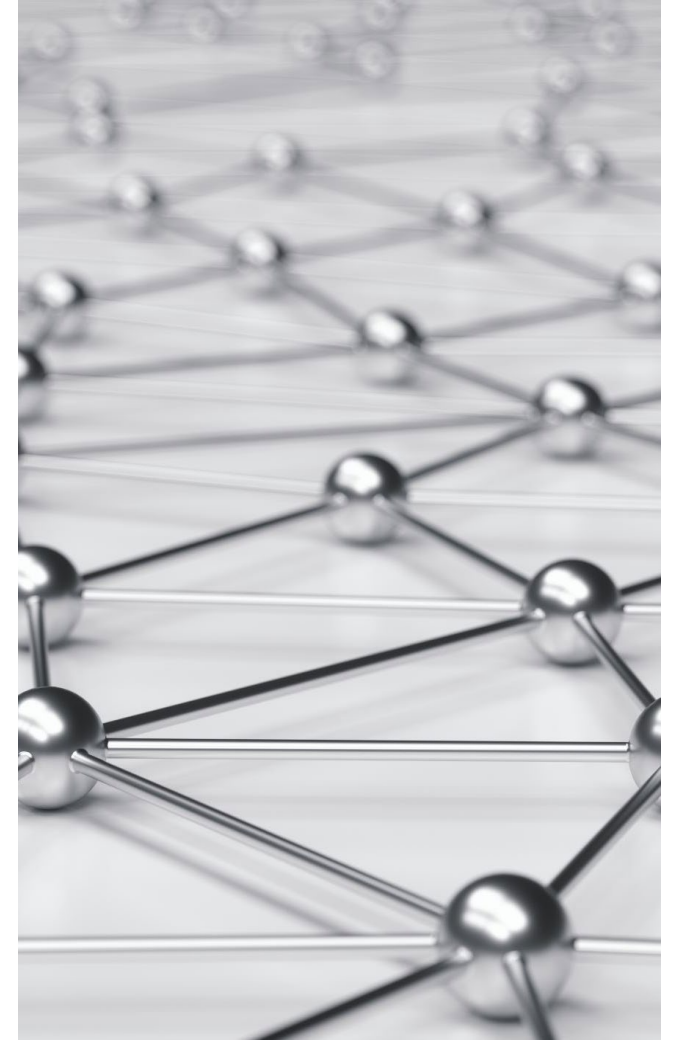
Strategic & Administrative Functions

- **Support OMB, HHS, NIH** and other data calls, including managing and tracking request
- **Enhance reporting and analysis** processes for program and budget reporting and senior management decision-making
- **Provide Section 508** Support
- **Offer Operational** and Strategic Communications Support



Strategic & Administrative Functions contd.

- **Administrative Support**
 - On/Offboarding staff and contractors
 - Property management for OCIO
 - Scheduling and calendar maintenance
 - Procurement support and management
 - Meeting facilitation for OCIO offices
 - Other office administrative support (such as time and attendance, travel, and training)



Open Forum

Industry input on anything provided, presented, or discussed during Industry Day is highly encouraged

State your name and company prior to providing your input

To optimize full vendor participation, feedback limited to one at a time

The Government will not address proprietary questions during Industry Day

