Task Area 1 specifically provides examples of solutions and services pertaining to biomedical research, health sciences, and healthcare. However, all other nine task areas may also be used to support a health-related mission.

Task Area 1 - IT Services for Biomedical Research, Health Sciences, and Healthcare

The objective of this task area is to support Biomedical Research, Health Sciences and Healthcare by performing studies and analyses, and providing operational, technical, and maintenance services for the systems, subsystems, and equipment, some of which interface with, and are extensions to, information systems throughout the federal government. A comprehensive, but not limited, sampling of work to be performed under this task area is shown below:

a. Health Sciences Informatic and Computational Services

b. Health Communication Support Services and Enhancements to Facilitate Integration and Data Exchange at the Federal, State, and Local Level

c. Integration of Health Systems Across Federal Agencies and Public and Private Healthcare Systems

d. Modernization and Enhancement of Existing Health IT Legacy Systems

e. Automation of Administrative and Clinical Processes

f. Biomedical Information Services

g. Biomedical Modeling, Visualization, and Simulation

h. Bio surveillance and Disease Management Support

i. Scientific Computing Services

j. IT Clinical Support Services

k. Telemedicine (e.g., mobile health/mHealth)

l. Healthcare Payment Processes and Fraud and Abuse in Medical Claims

m. Health Emergency Preparedness and Response to Include IT Support for Epidemic and Bio-Terrorism Simulations, Emergency Response Training, Exercise Support, etc.

n. Security of Healthcare and Biomedical Research Systems

o. IT Service Management

p. Healthcare Systems Studies

q. Natural Language Processing Software and Services (Biology/Medicine Focus)

r. Medical Computer-based Training

s. Standards Development for Health IT Services