



## Academy Symposium Mission and Objectives

Building The Diagnostic Cockpit  
of the Future

*September 18 - 19, 2017*

### **Mission:**

To leverage innovations in diagnostic disciplines across medicine for improved diagnostic precision.

### **Background:**

Bringing together physicians, scientists, industry and representatives from agencies across the government The Academy (a non-profit 501c6 advocacy organization) seeks to catalyze creative thinking that capitalizes on innovations in quantitative imaging, information technology and other fields to improve our ability to make precision diagnoses. By bringing together a variety of medical disciplines and agencies this symposium will ideally result in crafting a roadmap for building a prototype 'diagnostic cockpit'.

The Academy helped catalyze the formation of the Interagency Working Group on Medical Imaging (IWGMI), housed within the Office of Science and Technology Policy (OSTP) at the White House. Discussions with a variety of stakeholders over 18 months led to 6 priorities for medical imaging research.

1. Standardize image acquisition and storage.
2. Apply big-data and data-science concepts to medical imaging.
3. Get to diagnosis more quickly and cost-effectively.
4. Make imaging more accessible.
5. Promulgate improved imaging practices.
6. Improve translation of new imaging technologies.

## **Goal:**

The goal of this Symposium is to continue the momentum established by the 'Interagency Working Group on Medical Imaging (IWGMI)' towards creating concrete opportunities for effective scientific collaboration across federal agencies, industry and academia within diagnostic imaging research.

Your challenge is to offer practical recommendations for a diagnostic cockpit within the framework of feasible medical and business models to improve the patient experience and outcome. Please try to structure this with a forward-thinking, but achievable vision for the future of improved diagnostics centered around imaging.

## **Methodology**

### **Monday:**

Small breakout sessions will include experts from across government agencies, academia and industry. Each session of about 10 will be lead by a facilitator. The diversity of viewpoints, experiences, needs and unique understanding of the challenges should help drive impactful discussion that will lead to the creation of a diagnostic cockpit roadmap.

Out of the small and diverse breakout sessions, we anticipate the following deliverables:

- The identification of capabilities from fields beyond medical imaging
- Gaps in both technology and knowledge that need to be addressed
- A prioritization of methods (imaging and multidisciplinary) that can be utilized

Cockpit 1: Improve quality, consistency and access to advanced imaging technologies

Cockpit 2: Threat assessment

Cockpit 3: Target detection

Cockpit 4: Target characterization

Cockpit 5: Target treatment or mitigation

Cockpit 6: Physical and IT attributes of the cockpit

### **Monday Evening:**

After the breakout sessions, the Academy will host an evening reception to further the discussions and networking.

After the reception, all facilitators will be invited to a private discussion room for the opportunity to coordinate prior to the presentations of the break-out sessions on Tuesday morning.

**Tuesday:**

All breakout facilitators will present the results of their breakout sessions. A panel of attendees will be chosen to instantly respond to the presentations to encourage constructive dialog.

**Follow Up:**

The Symposium Planning Committee will create a report/white paper with the results of the symposium, a plan for the creation and implementation of an imaging initiative and the identification of collaborative partners moving forward.

The Academy will host a follow up meeting to take place during the RSNA meeting in Chicago on Wednesday, November 29<sup>th</sup> from 12-2pm.

**The Rules**

1. Please be respectful and give everyone the opportunity to share their ideas.
2. No selling or self-promotion.
3. Social media - because we have federal employees in attendance we must conform to their rules, so please do not speak about individual people or agencies unless you get approval from that specific person or agency in advance of your posting your Tweet or other posting. It is fine to speak about or post photos of the open general sessions. No social media will be permitted during the small group discussions.

**The Outcome:**

The planning committee will work with the product resulting from the symposium to develop a roadmap for the creation of the diagnostic cockpit of the future.



The **ACADEMY**  
for Radiology & Biomedical  
Imaging Research

*Advancing Innovation in Imaging Science*