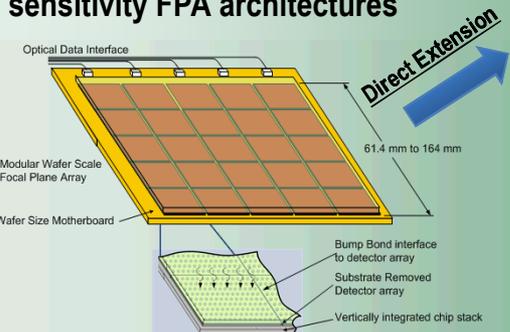


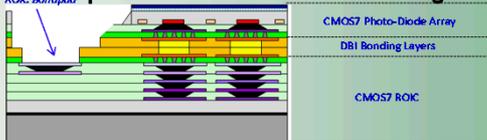
Research

Hyper-Temporal Sensor (HTS) Grand Challenge LDRD, FY06-09

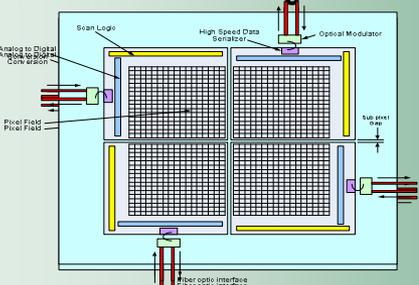
Mission need for higher resolution and sensitivity FPA architectures



Photodiode Hybridization Developed under HTS Grand Challenge



Highly Producing FPA, Low-Power Cryogenic Optical Data Link also originated from LDRD



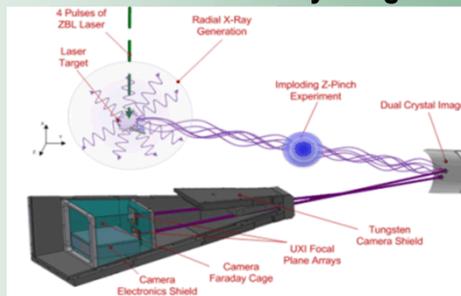
Development

HTS FPA Prototype (HTSP3) to be used in a Pathfinder System



Implementation of HTS-developed photodiode hybridization

UXI – Ultra Fast X-ray Imager



General Atomics feasibility testing of Griffin camera – Back-end camera for a pulse-dilation imager.

Mission Impact

July 2012 – Sandia's FPA concept was adapted by the next-generation space-based U.S. Nuclear Detonation Detection (NUDET) system.



FPA's are a key component in satellite-based, airborne, and ground-based systems

