

INNOVATION IN OPTICS TECHNOLOGY BY L3HARRIS™

TODAY'S CHALLENGES

- > Traditional space-based mirror processes drive system schedule
- > System launch requirements limit conventional mirror light weighting
- > Traditional approaches are costly

WHY

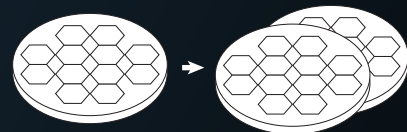
- > Customer-driven space resiliency demands rapid imaging capability deployment
- > New approaches to produce optical components faster and lighter with lower cost are desired

HOW

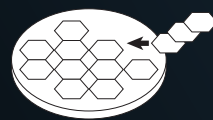
- > L3Harris advanced mirror construction strategy targets technologies that drive schedule, cost, and weight for space-based mirrors

This includes:

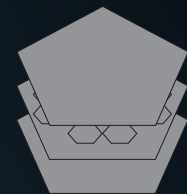
- > Mirror replication
- > Mirror material and structure optimization
- > Advanced bonding



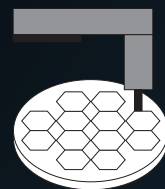
REPLICATION



MIRROR CONSTRUCTION



ADVANCED MATERIALS

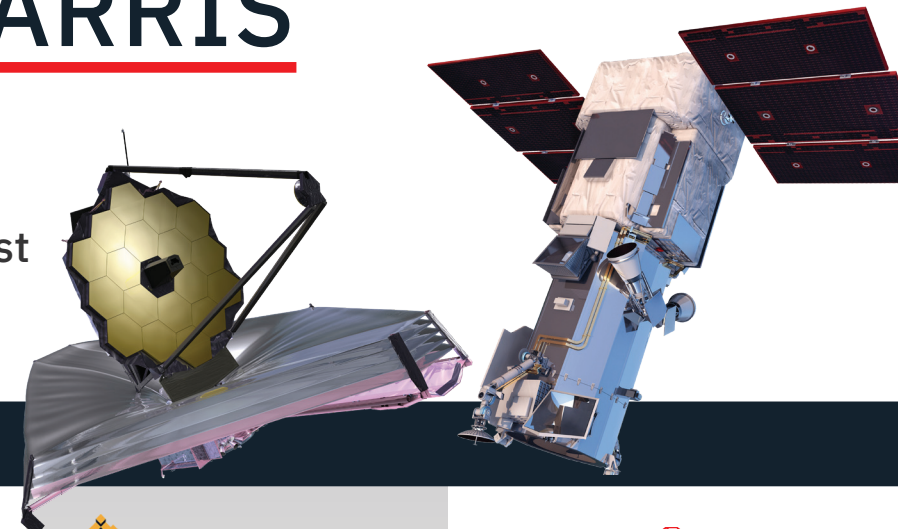


ADDITIVE MANUFACTURING

WHAT

- > Leverage advanced mirror production processes such as replication, construction, and additive manufacturing for rapid, affordable mirror production
- > Utilize new, advanced materials such as composites for mirror optimization
- > Achieve high precision optical surfaces through advanced deterministic finishing processes

For more than 50 years, L3Harris has specialized in optics technology, integration, and testing services for the world's most sophisticated Earth and space observation systems.



OPTICS TECHNOLOGY PROGRESS | 1970S - PRESENT

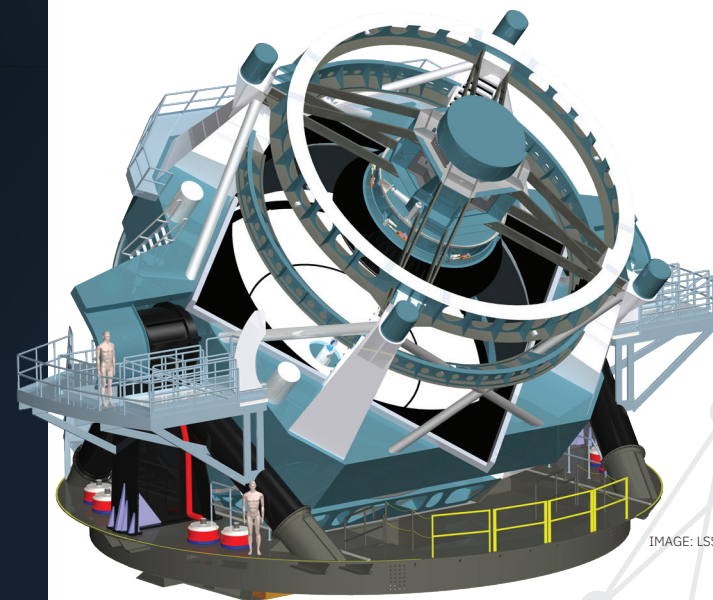
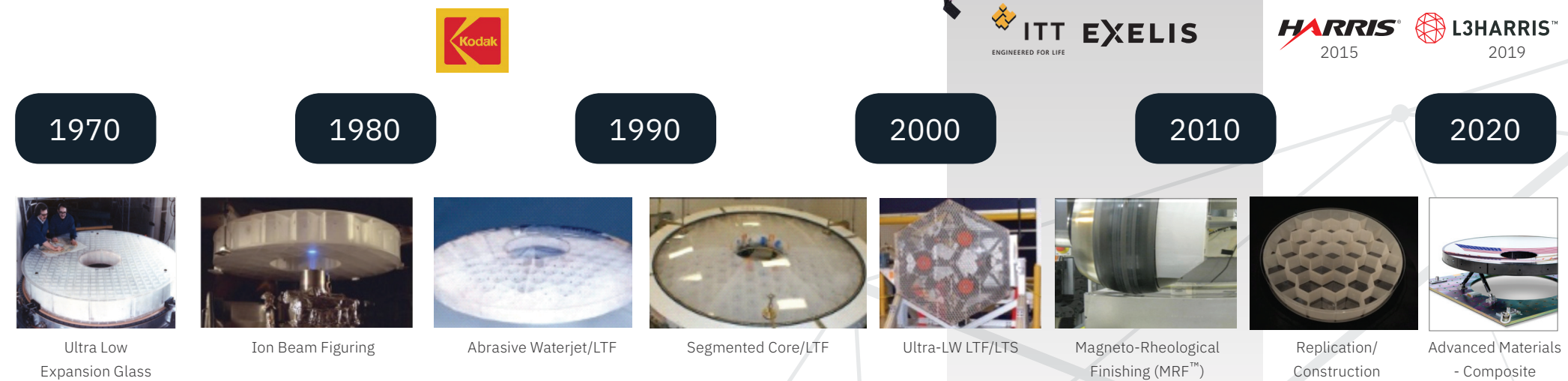


IMAGE: LSST PROJECT OFFICE | NSF | AURA

L3Harris' innovative manufacturing technologies meet demanding quality requirements and offer faster production of lighter weight optics to respond to our customers' challenging costs and schedule needs.



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