As of March 2019

LCS delivers mission-focused capability to the Fleet

In-Service Support (Ships & Mission Packages)

Frigate (FFG(X))

Software

Fire Scout

MH-60 Helo

In-Service Support

LCS Training

MH-53 AMCM

Cobra

Quickstrike

ALMDS

Hammerhead

MCM 1 Ship Systems

GHOST FLEET

AN/AQS-20

MCM USV

LDUUV

RAZRDABACK

XLUUV/AUP

KNIFERISH

MUSV

LUSV

MHUs

SUW Mission Pkg

MCM Mission Pkg

ASW Mission Pkg

Comms

SOFTWARE

MCM 1 Ship Systems

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USV Vision Has Produced Stable Plans/Programs

- **Large USV (LUSV)**
  - Part of *Surface Capability Evolution Plan* and Future Surface Combatant Force
  - Provides distributed lethality and capacity
  - FY20 start. Deliver “ASAP”

- **Medium USV (MUSV)**
  - Part of *Surface Capability Evolution Plan* and Future Surface Combatant Force
  - Provides distributed sensing and communications relays
  - FY19 start

- **Mine Countermeasures USV (MCM USV)**
  - Modular USV to support Modular MCM Force from LCS or Vessel of Opportunity
  - Sweep, Hunt, Neutralize
  - LRIP in FY19
UUV Vision Has Produced Stable Plans/Programs

- **Orca XLUUV**
  - Pier-launched large payload and range
  - 5 XLUUVs deliver by 2022

- **Snakehead LDUUV**
  - Submarine-launched large payload and range
  - 1 operationally relevant prototype in 2021
  - Industry RFP in FY20

- **Knifefish MCM UUV**
  - Surface-launched buried mine hunting
  - LRIP in FY19

- **Razorback UUV**
  - Submarine launch and recovered battlespace sensing
  - Dry Deck Shelter variant delivers in FY19
  - Torpedo Tube variant starts in FY20
Core Technology Vision Has Produced Funded Products/Processes

- **Endurance**
  - Li-Ion Certification Process
  - Propagation Resistant Li-Ion Architecture
  - Transition of fuel cell technology

- **Autonomy**
  - Unmanned Maritime Autonomy Architecture
  - Autonomy Lab

- **Command, Control, & Comms**
  - Common Control System for UxV
  - UUV Communications Assessment

- **Payloads**
  - Payload Interface Group
  - ONR/DARPA payload transition
Corporate Unmanned Approach

Developing collaborative relationships to deliver better capability faster

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The Navy is aligning facilities and capabilities to the portfolio.
Work to do

- Where will we base the fleet(s) of UxVs?
- What infrastructure is needed?
- How/where will we forward deploy them?
- What transportation infrastructure is needed?
- What is the Unmanned manning scheme?
- How/where will we test them?
- How do you test endurance, reliability and autonomy?
- What policy is needed?
- How will we support them?
- What training infrastructure is required?

Unmanned is coming.
Requires broad Navy planning and programming.