



TEXTRON Systems

UNMANNED SYSTEMS VOICE OF INDUSTRY

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Textron Inc. Leading Businesses

Textron Aviation



- Cessna Aircraft
- Beechcraft
- Hawker

Bell



- Bell Helicopter

Textron Systems



- Textron Systems
- Lycoming Engines
- TRU Simulation + Training

Industrial

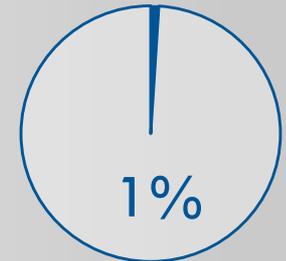
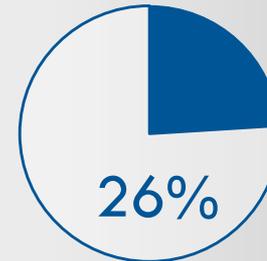
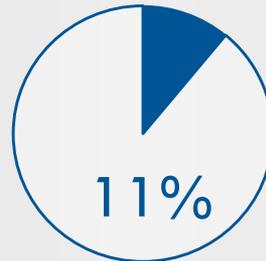
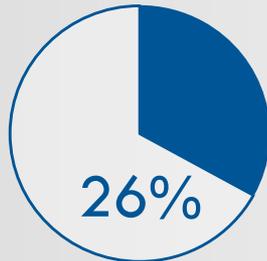
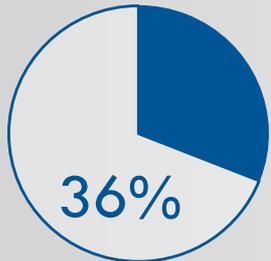


- Textron Specialized Vehicles
- Textron Tools & Test
- Jacobsen
- Kautex

Finance



- Textron Financial



2015 Revenue: \$13B+

Textron Systems Businesses

Advanced Information Solutions



Electronic Systems



Geospatial Solutions



Lycoming Engines



Marine & Land Systems



Support Solutions



TRU Simulation + Training



Unmanned Systems



Weapon & Sensor Systems



28+ Years of Proud Unmanned Systems History

1M+ Operational Hours

Group 3 Aircraft Systems

RQ-2
Pioneer®
(1985-1990)



Improved
Pioneer
(1990-2007)



Shadow® 600
(1992-1994)



Shadow 400
TUAV
(1995)



RQ-7B
Shadow 200
(1999-Pres)



RQ-7B V2
Shadow 200
(Present)



Shadow M2
Dual Payload
(Present)



Shadow M2
SatCom
(Present)



Group 2 Aircraft Systems

Aerosonde™
Mk4
(1995-2008)



Aerosonde
Mk4
(2008-2009)



Aerosonde
Mk4.7
(2009 - Pres)



Surface Vessel Systems

High Speed
Unmanned Surface
Vessel (2008 - 2010)



Common Unmanned
Surface Vessel
(CUSV™) (2009 -
Present)



Ground Control Systems

GCS 2000



Portable Mission
Control Station



Mission Planning
Control Station



Tactical Control
Station
(TCS)



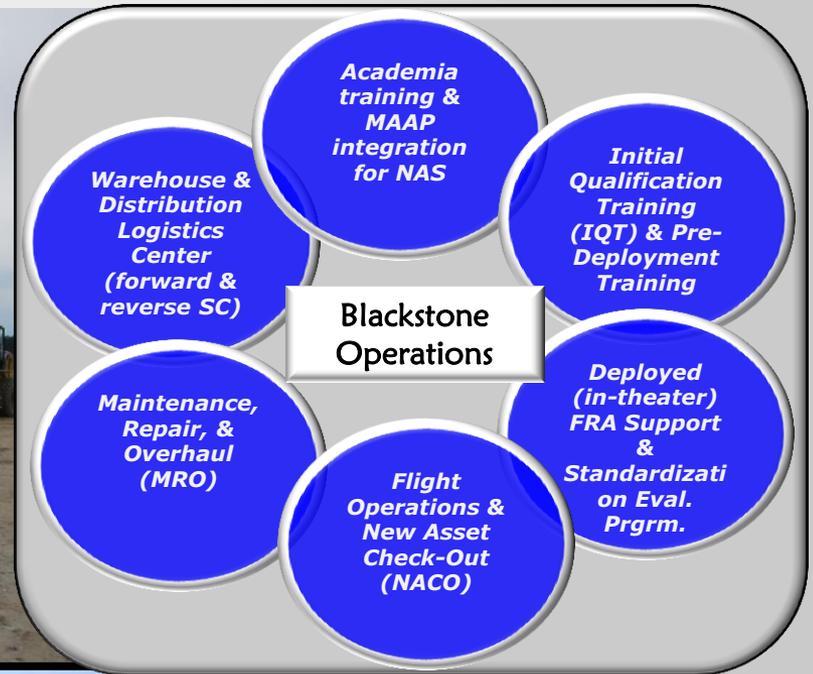
One System® GCS



Universal GCS
(UGCS)



Welcome to Blackstone, VA. Home to...Unmanned Systems Services and Support Center



Talent Life Cycle Improvement

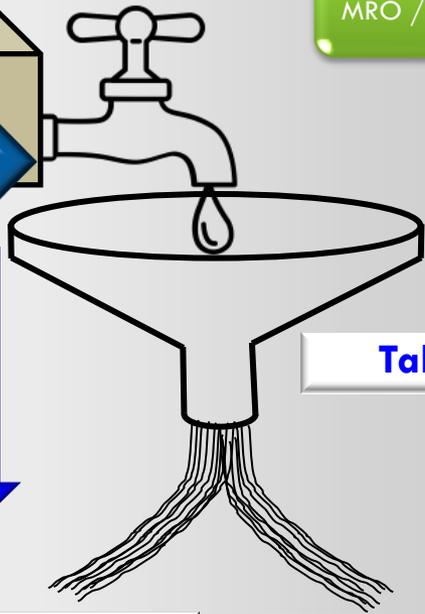
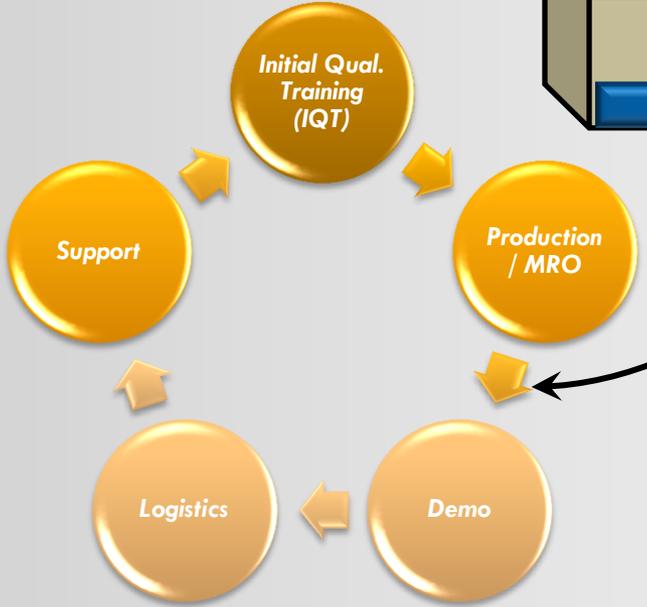
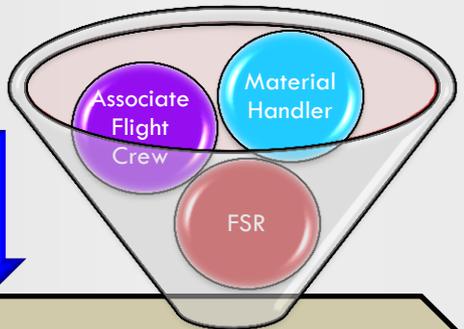
Where we need your help!

Talent Forecasting

Skill	2016	2017	2018
Assoc. Ft. Crew	21	24	27
Field Srvc. Rep.	17	20	23
Material Handler	2	3	4
Total	40	47	54



Talent Recruitment & Skills Development



Attrition

Talent Growth

Talent Advancement

QUESTIONS?



BACK-UP

Unmanned Platform and Control Systems

Unmanned Systems



Shadow® M2

- Max GW: 750 lbs.
- Max P/L wt: 180 lbs.
- Max Endurance: 18 hrs
- Dual payloads

Shadow M2 SATCOM

- Max GW: 750 lbs.
- Max P/L wt: 130 lbs.
- Max Endurance: 12 hours
- SATCOM data link for beyond-line-of-sight operations

Shadow 200

- Over 945,000 flight hours
- Max GW: 460 lbs.
- Max payload wt: 80 lbs.
- Max Endurance: 9 hrs

Aerosonde™ 4.7G

- Max GW: 80 lbs.
- Max P/L wt: 20 lbs.
- Max Endurance: 14+ hrs
- Ideal Fee-for-Service Solution

CUSV™

- Large, flexible payload bay
- Capable in high sea states
- Mine countermeasure operation
- Maritime domain situational awareness

Ground Control Stations and Situational Awareness



GCS for Gray Eagle®/Hunter



EGCS for Aerosonde



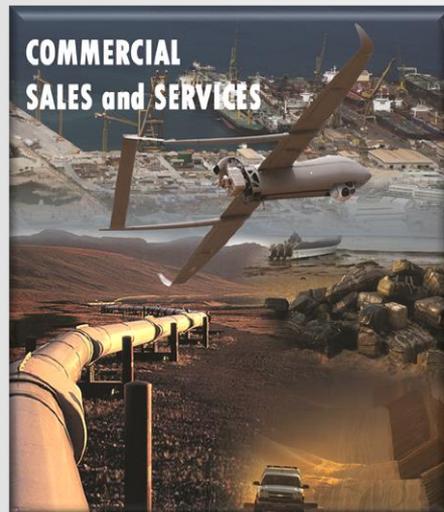
Universal GCS for Shadow, Gray Eagle, Hunter and emerging platforms



Exportable GCS for configuration for international needs

*Gray Eagle is a registered trademark of the US Army

Aerosonde History



- 1995- Aerosonde formed w/bureau of meteorology and Insitu
- 1998- Mk1 Transatlantic flight UAV world record "Laima" 26 hours 45 minutes, altitude of 1,680m, using only 5.6Kg of fuel
- 2002- First battlespace activity w/DSTO
- 2003- Australian Coast Guard project
- 2005- Mk3 Hurricane Ophelia surveillance
 - USAF Weatherscout program
 - Singapore multicraft flights
- 2006- AAI purchases Aerosonde PTY Ltd.
 - Memorial University deliveries
- 2007- SOCOM/MCWL Mk4.4 deliveries and flight activities
- 2007- Mk3 Hurricane Noel surveillance
 - 17-1/2 hour flight
 - Low altitude wind sensor data
- 2008/2009- Aerosonde Mk4.7 Introduced
- 2009- Mk4 Antarctic Meteorology Study
- 2012- Mk4.7 Blk J Arctic Meteorology Study
- 2012- Mk4.7 Blk G ISR Services and other U.S. Government contracts awarded
- 2013- International Oil and Gas Direct Commercial System Sale Award
- 2014- Other U.S. Government contracts awarded
- 2015 – Academia training, DOI (forest fires, COAs)

