



SOME STATISTICS... PEOPLE RESCUED **SINCE JANUARY** IN THE UNITED STATES

RESCUED IN 2018

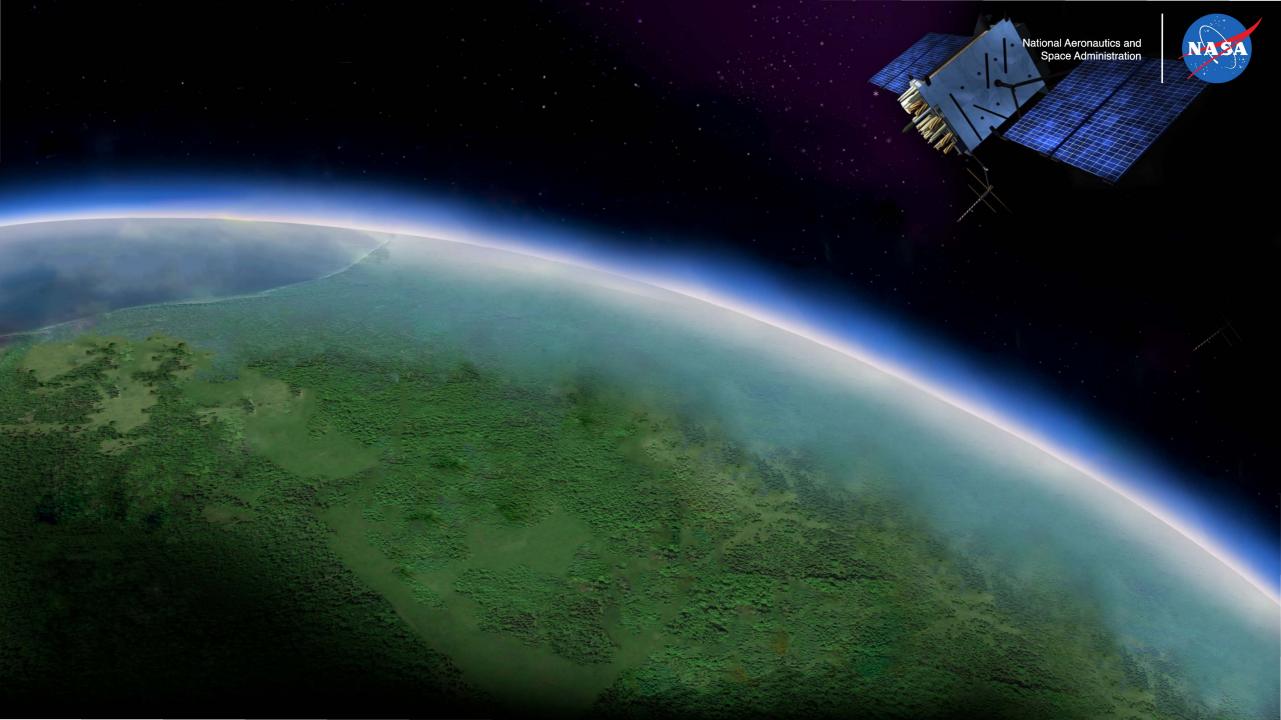
RESCUED WORLDWIDE

SINCE 1982

Mexico City

TED STATES

Pacific Ocean



in search and rescue















THE POWER OF MEOSAR our new system

Near instantaneous beacon detection and location, globally, at all times

Advanced location process using time and frequency measurements of beacon signal to triangulate its location

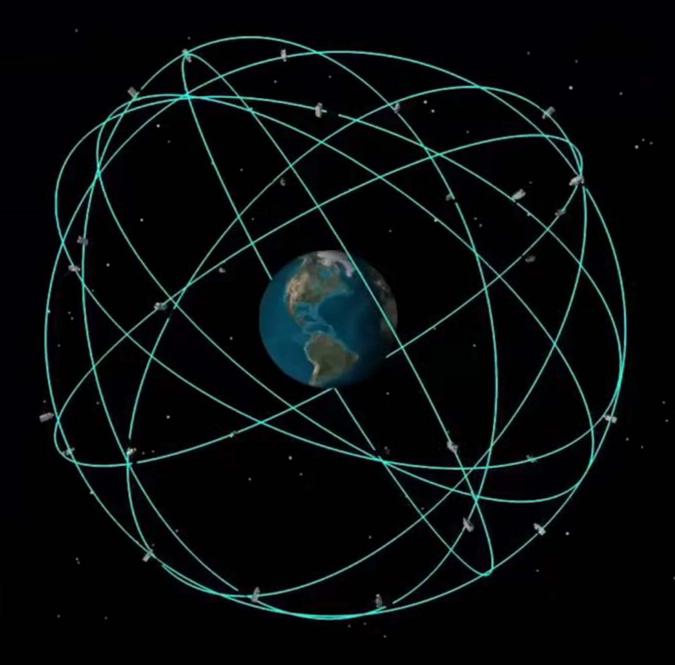
Mitigates terrain blockage due to multiple look angles from multiple moving satellites

Robust space segment, well maintained and highly redundant

Simple space segment repeater allows for development of higher performance beacon signal

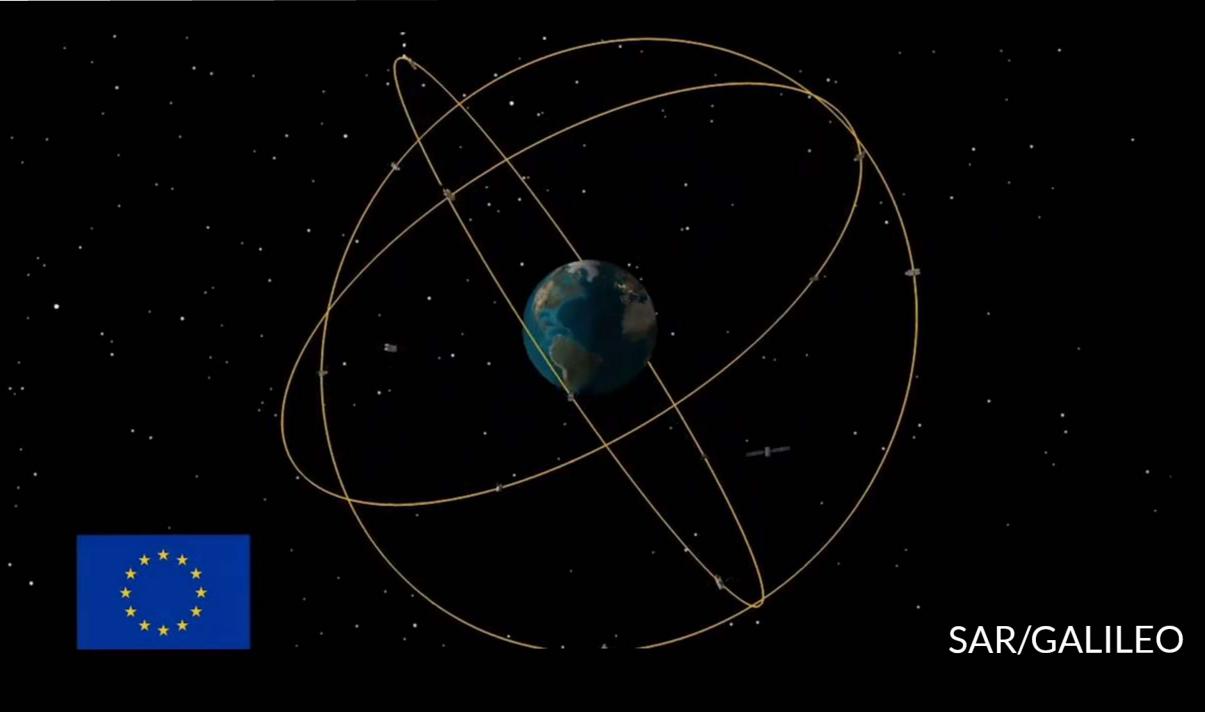


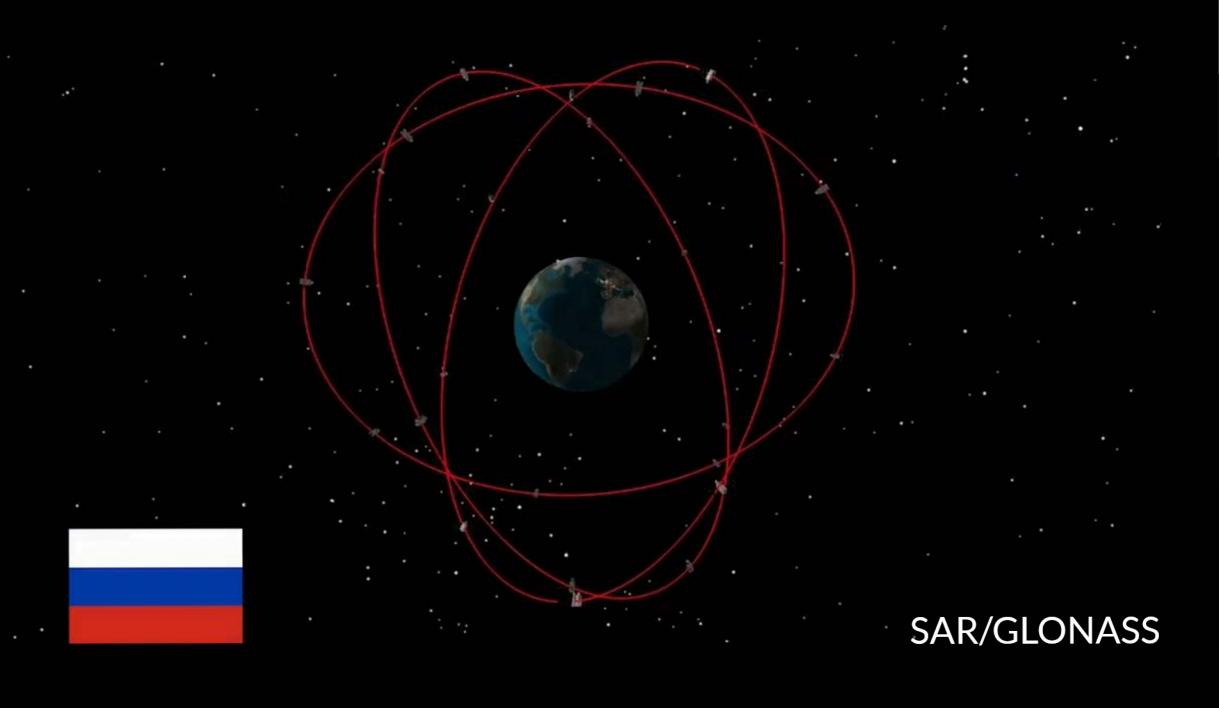
THE SPACE SEGMENT

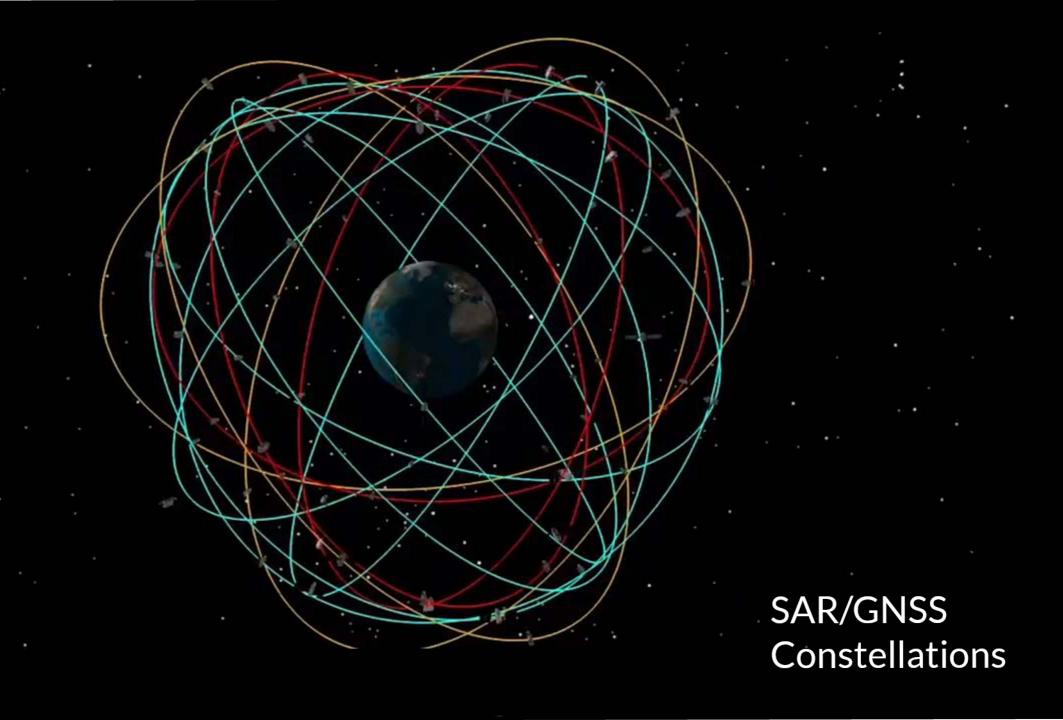




SAR/GPS







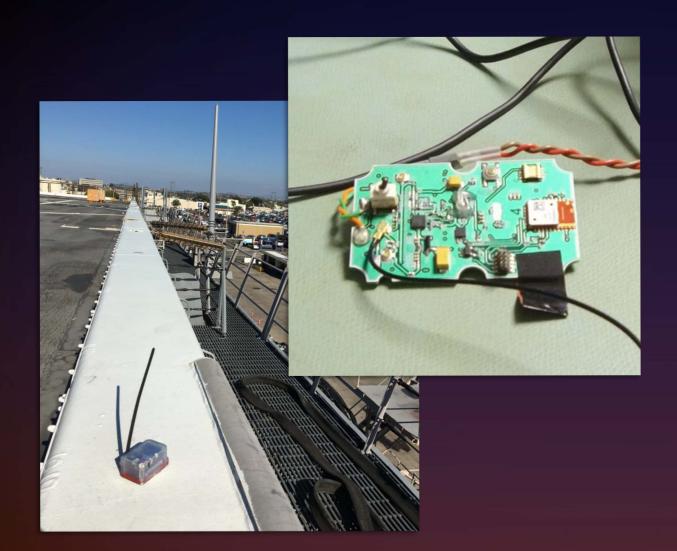
THE GROUND SEGMENT

THE SAR LAB





THE BEACON SEGMENT



NEW SECOND GENERATION BEACONS EQUAL:

Better accuracy More data transmitted Higher performance



SECOND GEN BEACONS

Capitalize on MEOSAR space segment and improve system performance

- Detection probability, location accuracy and system capacity
- First burst location
- Intelligent transmitting
- Collaborate with manufacturers to obtain the most competitive end product
- Return Link Service: automatic acknowledgment, where return link message sent automatically when location of alert has been confirmed
- Cancellation function









NASA'S ANGEL BEACONS

NASA astronauts will be ANGEL's first users

OPEN WATER TESTING WITH THE UNITED STATES COAST GUARD



OUTDOOR POOL TESTING



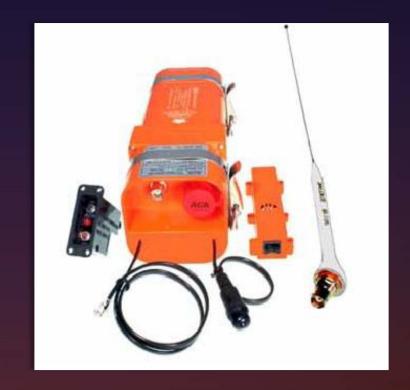
THE KEY TO SURVIVING A PLANE CRASH...

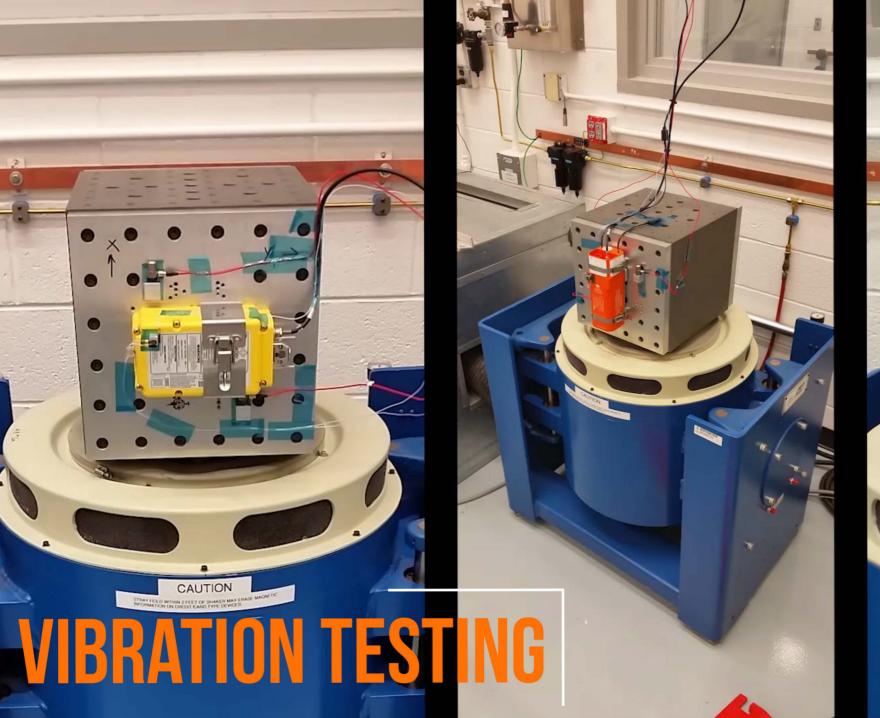
is to have the right equipment, installed properly.

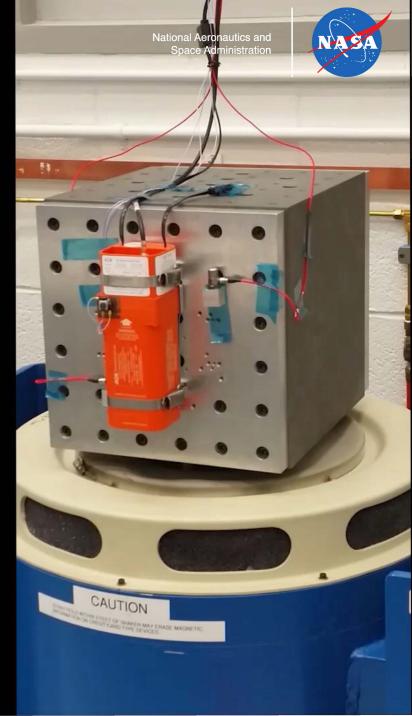


DETAIL A EMERGENCY LOCATOR TRANSMITTER SWITCH FOR AVIATION EMERGENCY USE ONLY UNLICENSED OPERATION UNLAWFUL OPERATION IN VIOLATION OF FCC RULES SUBJECT TO FINE OR LICENSE REVOCATION DETAIL B AP006605

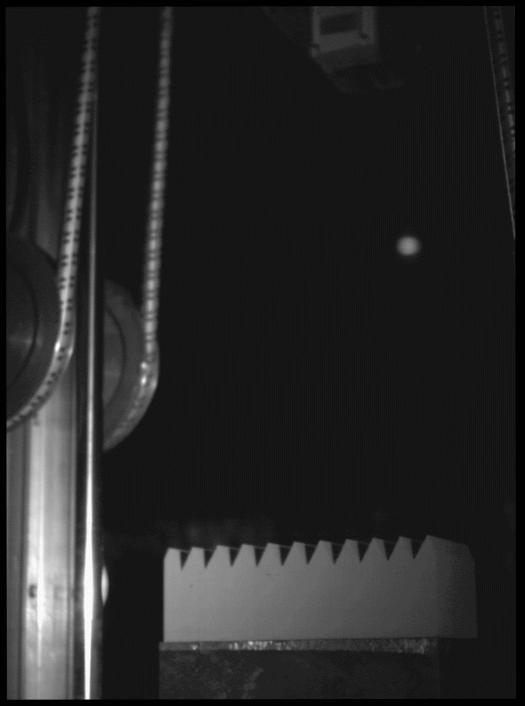
WHAT IS AN ELT?







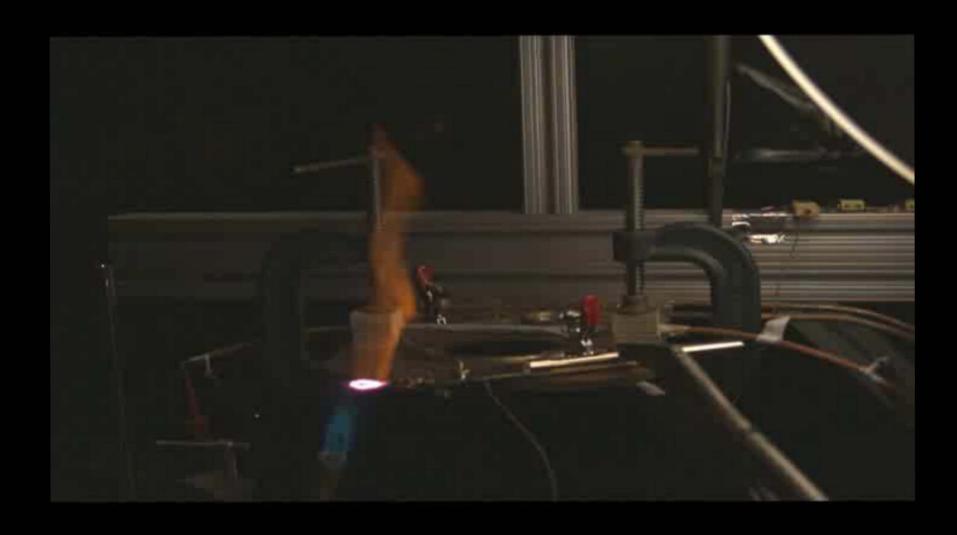




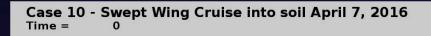


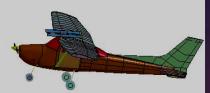
FIRE TESTING





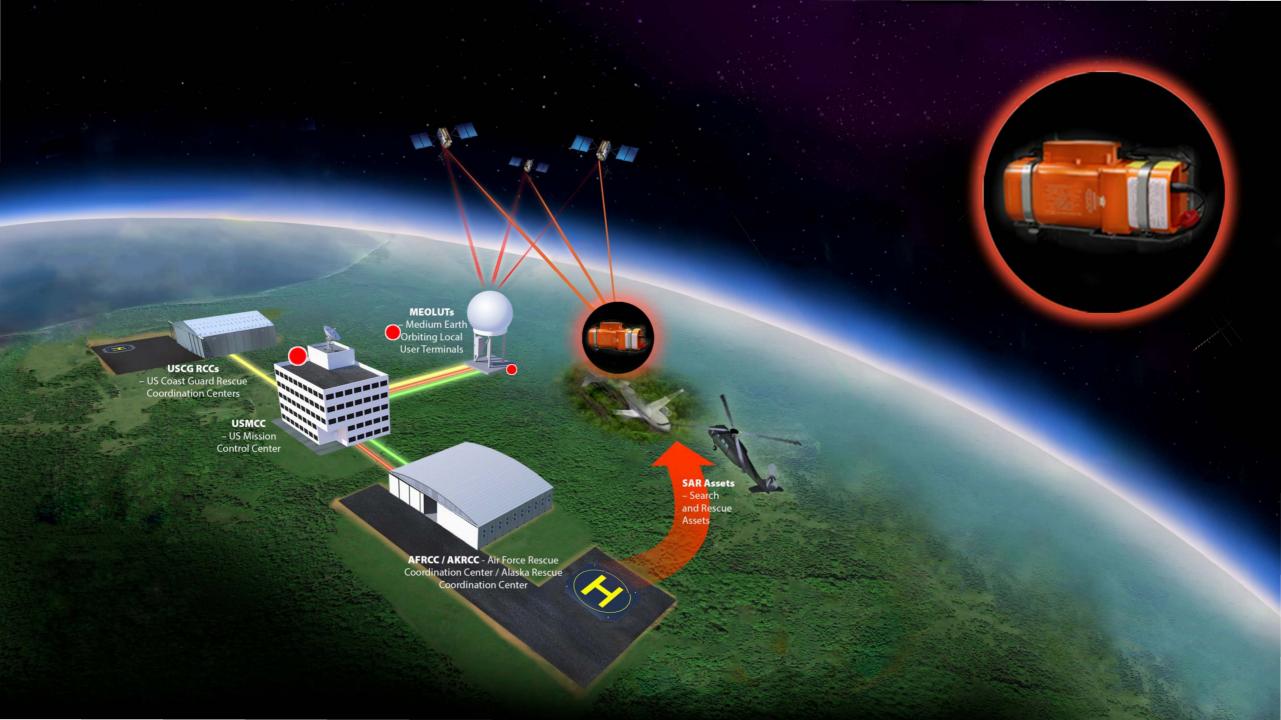
CRASH SIMULATION













FOR FURTHER INFORMATION...

ESC - Search and Rescue

https://esc.gsfc.nasa.gov/sar

SARSAT-NOAA

https://www.sarsat.noaa.gov/

COSPAS-SARSAT

https://www.cospas-sarsat.int/en/

Emergency Locator Transmitter Survivability & Reliability Study 2017

https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20170002586.pdf

