

TRANSFORMING ALASKA

**THROUGH INOVATIVE TECHNOLOGIES IN:
AVIATION, RE ENERGY, SUSTAINABLE FOOD,
CLEAN WATER, BIO FUELS AND
HARDENED DATA CENTERS**



BENNEFITS TO ALASKA

- * **ECONOMIC GROWTH**
- * **LOWER OPERATING COSTS Vs FIXED WING**
- * **MORE PRODUCTIVITY**
- * **NEW JOBS**
- * **SAFER TRANSPORTATION**
- * **EXPANDED COMMERCE DOMESTIC & INTERNATIONAL**
- * **CLEANER ENVIRONMENT**



ECONOMICS

- * MINING
- * ALTERNATIVE SHIPPING
- * OIL AND GAS
- * ALTERNATE TRANSPORTATION
- * SURVEILLANCE AND MAPPING
- * ON THE SPOT MEDICAL RESPONSE



ECONOMICS

- * **TOURISM INDUSTRY**
- * **DISASTER RELIEF**
- * **SEARCH AND RESCUE**
- * **FISHING**
- * **FIRE FIGHTING CAPABILITIES**
- * **TIMBER / LOGGING INDUSTRY**



MINING

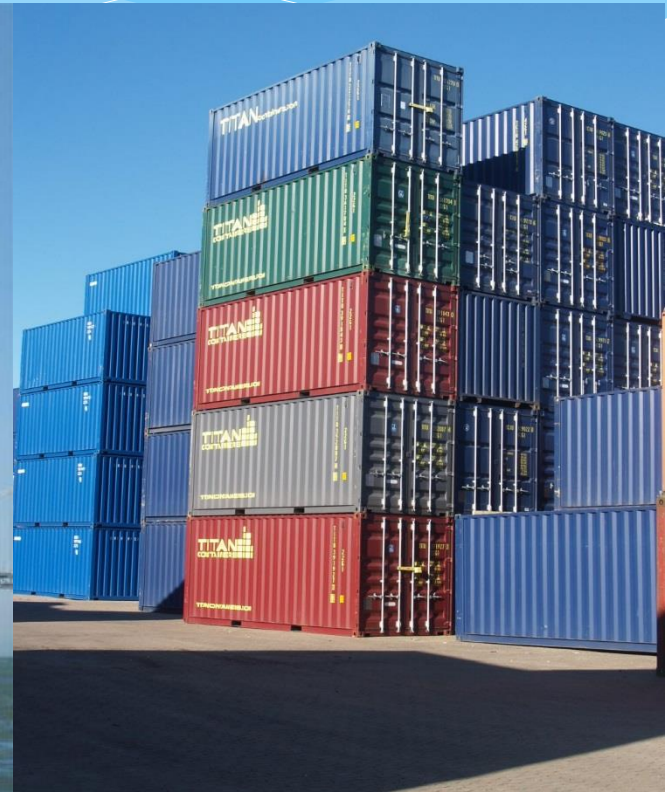


Infrastructure Costs

- Roads
- Rails
- Power
- Equipment
- Trucks
- Earth movers



SHIPPING - TRANSPORT



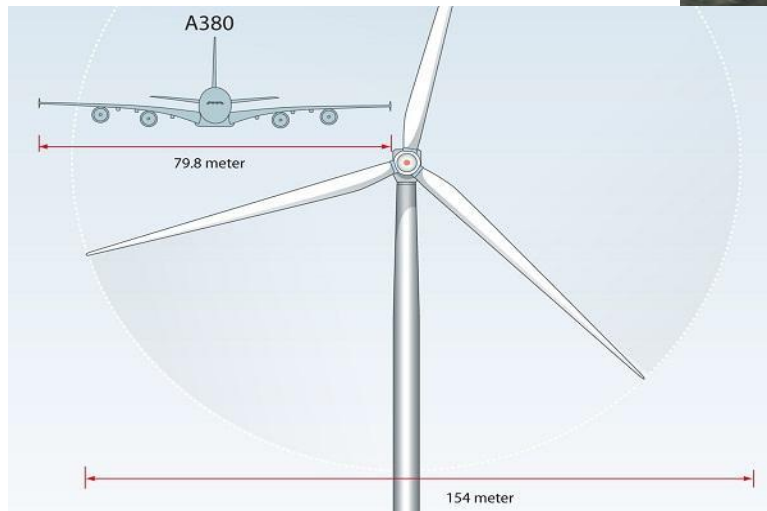
ICE ROAD TRUCKING

Ice roads are a common feature across Alaska & Canada, and are typically the only way to access the most remote communities via ground transport.



SPECIALTY TRANSPORT

B75 Quantum Blades are solid one-piece and 187 ft. long!



Each blade weighs about 25 tons



IT'S ABOUT THE PAYLOAD, AS WELL AS THE PLATFORM



Transportation



Oil and Gas E&P (and remote areas)



Mining



Power Grid/Cell Towers



Alaskan North Slope Oil & Gas Potential Production & Today's Market Value

ALASKA FACTS

- **First Major Oil Discovery:** 1957.
- **Industry Investment:** \$50B+ to date.¹
- **State Production:** 16+ billion barrels of oil (bbo).¹
- **North Slope Oil Fields:** 4 of 10 largest in US; 12+ currently producing.¹
- **North Slope Estimates:** ultimate recoverable oil reserves of 22.2 bbo; up to 124 trillion cubic feet (tcf) of natural gas.¹
- **Prudhoe Bay Field:** 1,000+ wells; largest oil field in North America & largest producing US oil field; site of large natural gas processing plant.²
- **Prudhoe Bay Estimate:** 2.5 billion barrels of recoverable oil & 426 million barrels in reserves.¹
- **Pipeline Infrastructure:** 800-mile Trans-Alaska Pipeline System (TAPS); 1.5+ million barrels per day of spare capacity; supplying American energy to Americans without environmental risks or 'dirty oil' associated with Keystone Pipeline.
- **Ongoing Development:** major operators such as Exxon Mobil (NYSE:XOM | Market Cap: \$410.84B), BP (NYSE:BP | \$139.96B) and ConocoPhillips (NYSE:COP | \$71.86B) investing heavily in oil and gas-related projects.

1. Resource Development Council for Alaska (website), Oct. 18, 2012.

2. ConocoPhillips (website), Oct. 18, 2012.

Today's Estimated North Slope Oil Reserves of up to 22.2 billion barrels of oil are valued at \$2.3 trillion at today's prices

Today's Estimated North Slope Natural Gas Reserves of 123 Trillion Cubic Feet (TCF) are valued at \$459 billion at today's prices



OIL AND GAS - 1



OIL AND GAS – 2

MACONDO INCIDENT

It is critical to get a craft onsite as quickly as possible for command & control, well control, SAR, firefighting/suppression, oil spill containment & collection

98% of water used
in firefighting is
wasted.
Until Now!



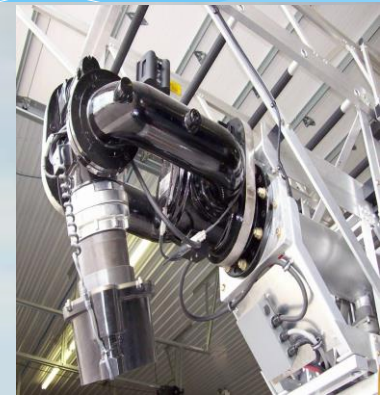
APPLICATIONS OIL & GAS RAPID EMERGENCY RESPONSE

Emergency Response, Firefighting, Containment, Collection, Search & Rescue (Could have be on scene at Macondo Incident in 1 1/2 hours)



APPLICATIONS OIL & GAS RAPID EMERGENCY RESponse

Emergency Response, Firefighting, Containment,



Innovative Nozzle
Technology

New technology to lift & apply modified seawater



LNG TRANSPORT



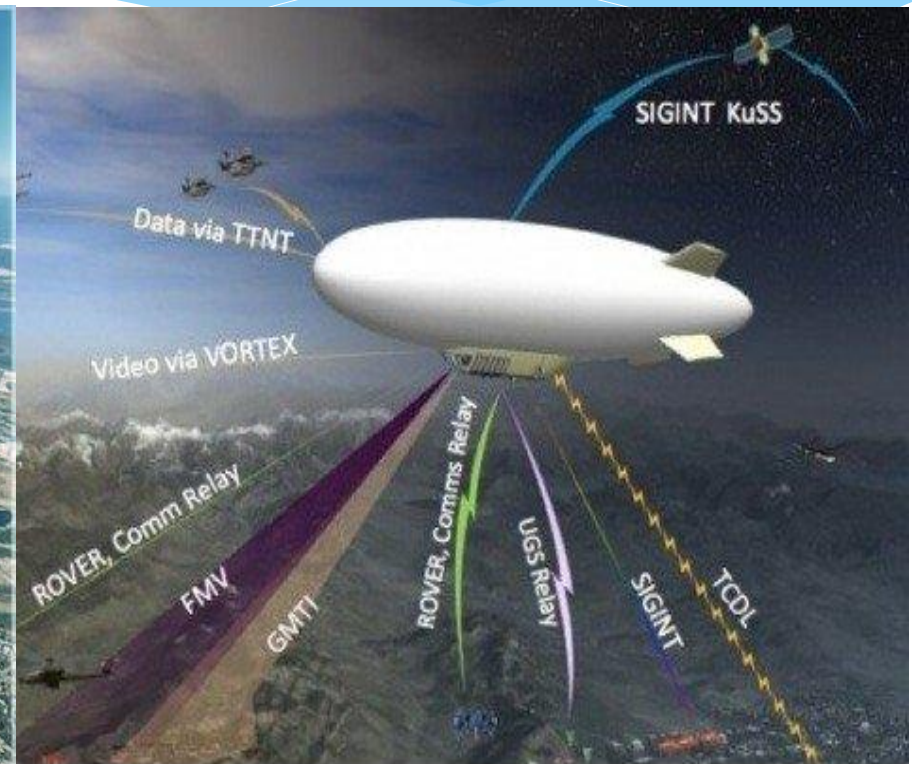
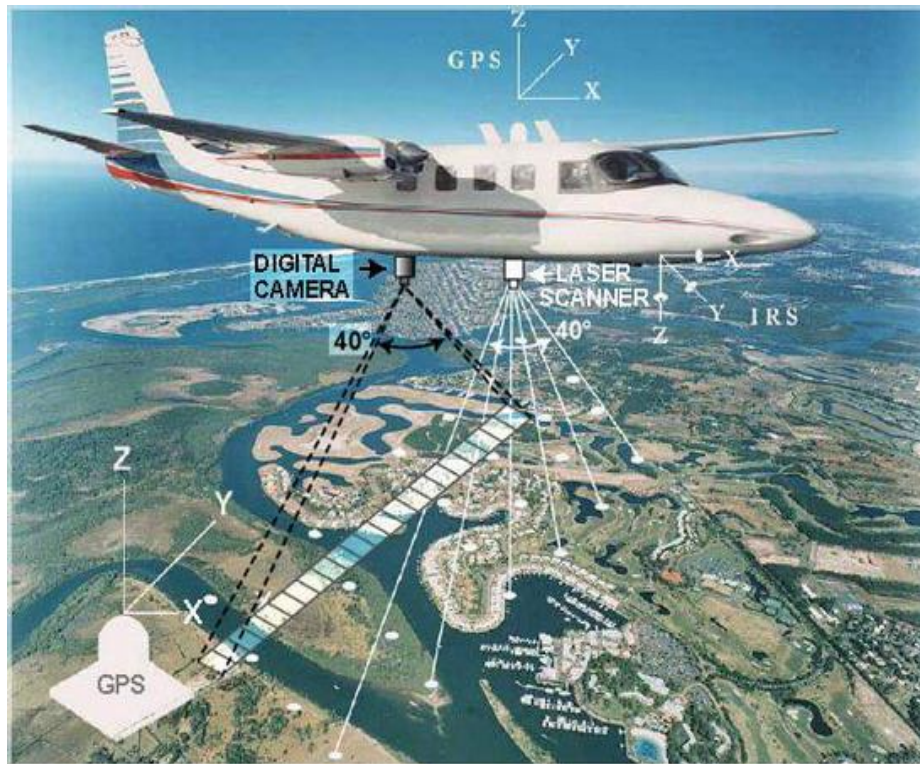
LNG GAS IS QUICKLY BECOMING A HIGHLY NEEDED COMMODITY BUT BEING ABLE TO DELIVER IT QUICKLY AND BE COST EFFECTIVE HAS BEEN AN ISSUE. ITS NOW POSSIBLE WITH THE SKYLIFT TANKER TO LOAD FROM ANY LOCATION AND DELIVER EASILY TO ALMOST ANYWHERE, MAKING THE USE OF LNG MORE PRACTICLE AND ECONOMICAL.



ALTERNATE TRANSPORT



SURVEILLANCE AND MAPPING



courtesy: U.S. Air Force



ON THE SPOT MEDICAL RESPONSE

100 TON VARIANT

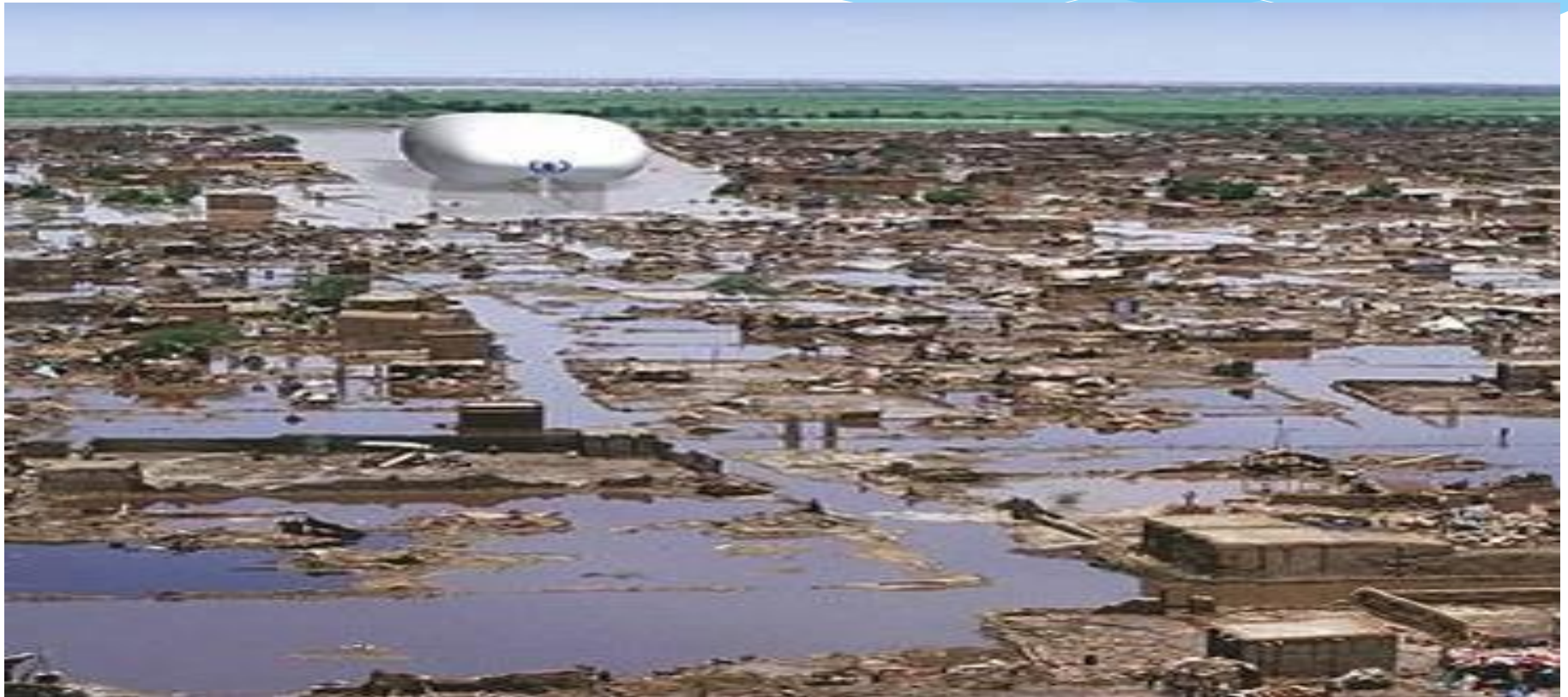
WHEN TIME IS NOT AN OPTION



TOURISM



DISASTER RELIEF



DISASTER RELIEF

Hurricane Katrina

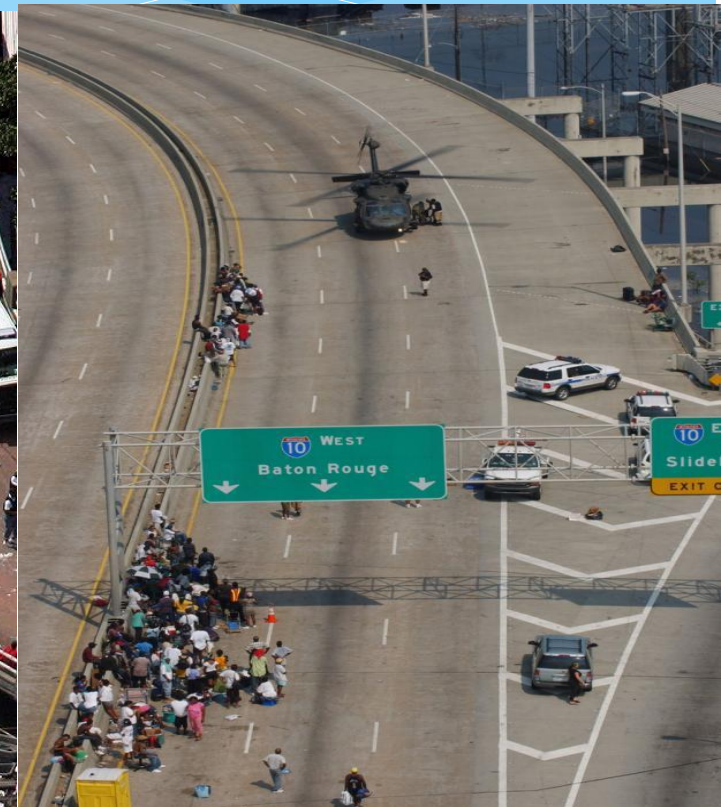
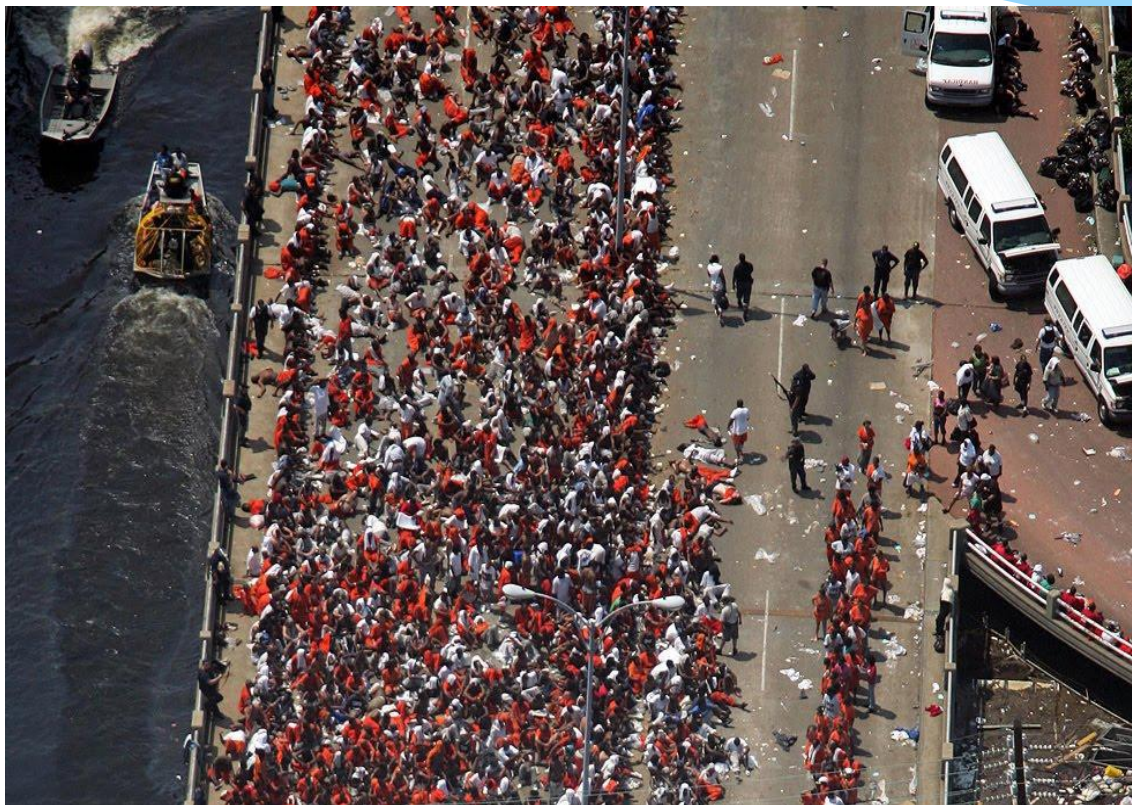


- 1,836 people died in the hurricane and
- An estimated \$90 billion worth of damage.



DISASTER RELIEF

Hurricane Katrina – A few people at a time by helicopter



SEARCH AND RESCUE



FISHING ENHANCEMENT



FIRE FIGHTING

Wildfire Air Tanker Concept

An average of 50 Tankers are needed, but only 7 are operating*
Wildfire fighting experts agree 50 additional planes are needed to complement ground crews overwhelmed by the number and intensity of wildfires during the fire season.

The Cost of putting out wildfires is over \$1.65 billion/year.

*July 3, 2012 Disaster Relief & Reuters, 2012



HYBRID AIRCRAFT WILDFIRE AIR TANKER CONCEPT



NOT JUST A TANKER! A New Disruptive Firefighting System



FOREST MANAGEMENT



TIMBER AND LOGGING



©Alaska Forest Association

Don Finney Collection

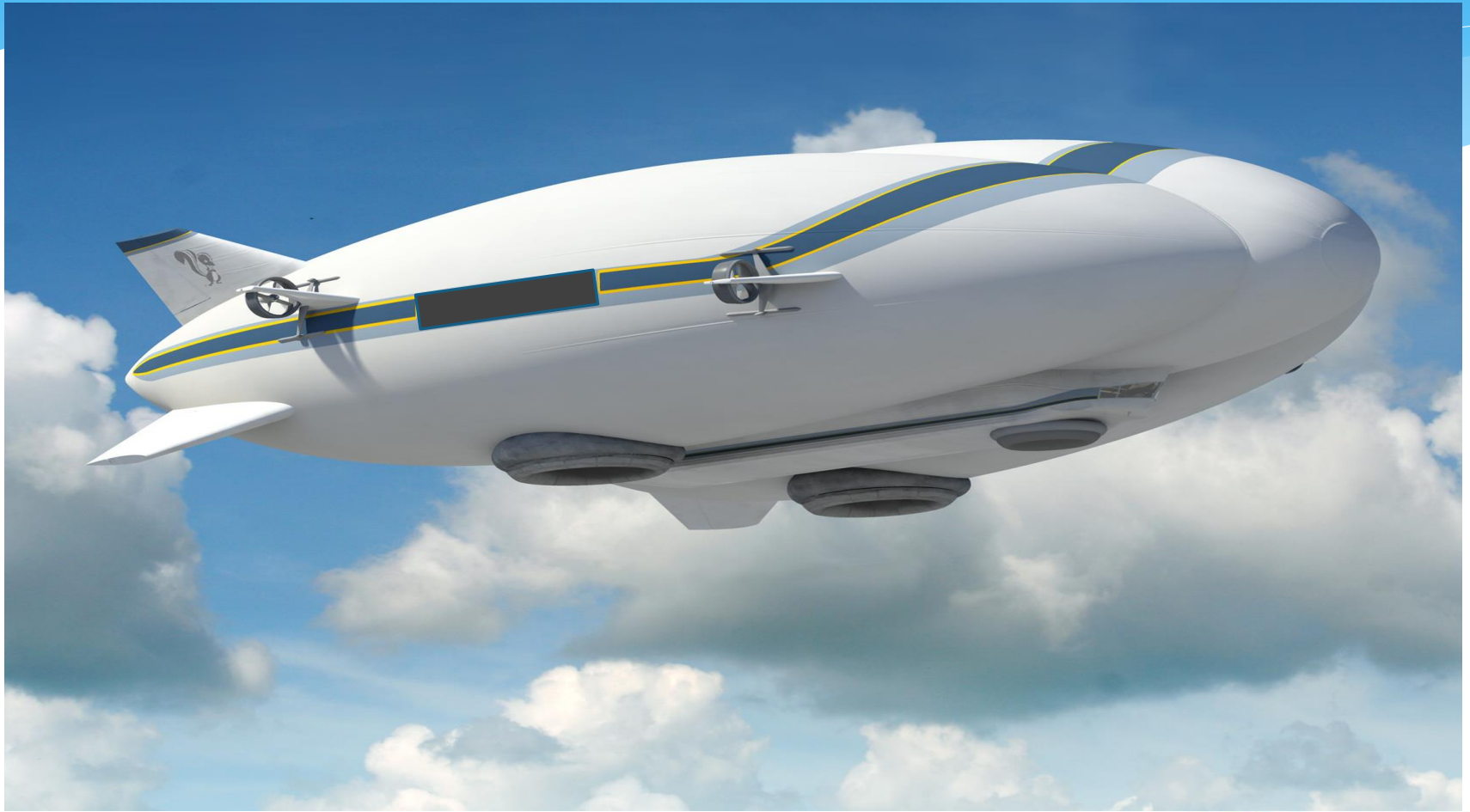


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Don Finney Collection



SKYLIFT HYBRID AIRCRAFT



CARGO BAY COMPARISONS



HYBRID MATTERS

HYBRID LARGE

HYBRID MEDIUM

HYBRID SMALL

SKY LIFT
AERONAUTICS

* Each 'square' represents one 30 inch 15K lb Unit Loading Device (ULD).

C-130

C-17

747

FLEXIBLE . AFFORDABLE . RELIABLE



SMALL HYBRID



HYBRID MEDIUM



HYBRID LARGE



4 Proven Technologies Merged Into 1 Transformational Technology



Helicopter

Vertical
Airlift

Deltoid Shape
Aerodynamic Lift



Cargo Airplane

Hybrid Aircraft



Vectored
Thrust



Hover Craft

Air
Cushion
Landing
System
(ACLS)

Helium
Filled
Envelope
Up to 80%
Vertical lift



Airship (Blimp)



FOR MORE INFORMATION

ON HOW TO ORDER THE AIRCRAFT AND OR SPECIFICATIONS

HYBRID VARIANTS

20 TON CAPACITY
100 TON CAPACITY
500 TON CAPACITY

CONTACT:

R. MICHAEL SMITH

Michael.smith@skyliftaero.com

1-714-262-6839

Kurtis Zell

Kurtis.zell@skyliftaero.com

1 702 232 9029

