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Subsystem Spotlight – Launch Vehicle / Recovery Why Is Making A Reusable Rocket So Difficult? Elon Musk Will the Falcon 9 actually be reusable or just refurbish-able like the Space Shuttle?

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Launch vehicle recovery design competition in China Reusable Rocket Phenomenon - Explained! So You Want to Build a Low-Cost Launch Vehicle Do SSTOs Suck? ~~ISRO RLV Launch, Deployment and Recovery simulation~~ Can SpaceX Reuse a second stage?

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Will SpaceX BFR Really Work? Interview with Tim Dodd the Everyday Astronaut SpaceX Falcon Heavy- Elon Musk's Engineering Masterpiece How

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~~SpaceX Lands Rockets with~~

~~Astonishing Accuracy How Elon Saved~~

~~SpaceX /u0026 Tesla ... At The Same~~

~~Time AMONG US TOY DIY -~~

~~IMPOSTER MONSTER (FROM WASTE  
PAPER) Zero Mass Water -BUSTED!~~

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~~Why won ' t Starship have an abort  
system? Should it?! 200mph~~

~~Hyperloop.... BUSTED! Is SpaceX's~~

~~Raptor engine the king of rocket~~

~~engines? VERY professional kinetic~~

~~rope snatch recovery Why SpaceX ' s~~

~~Starship will fall like a skydiver and~~

~~not fly like an airplane SpaceX Falcon~~

~~Heavy, all 3 cores landed! Successful~~

~~launch of Arabsat 6A (4/11/2019)~~

~~Elon Musk Extremely Emotional~~

~~Reaction To Falcon Heavy Launch~~

~~Electron Is Going Reusable A Partially~~

~~Re-Usable Horizontal Take-off and~~

~~Landing Launch Vehicle - A~~

~~Continuing Case Study How Rocket~~

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Lab will catch a rocket with a helicopter! Shuttle's Boosters Recovered in HD ROCKWELL INTERNATIONAL SPACE DIVISION 1975 PROMO FILM SPACE SHUTTLE /u0026 APOLLO SOYUZ PROJECT 68804 BFR -Earth to Earth: BUSTED! Inside SpaceX's Crew Dragon Capsule | Space Launch LIVE AstroClipper: Plans For A Two-Stage, Fully Reusable Spaceplane Launch Vehicle Recovery And Reuse

IV. Value of Launch Vehicle Elements and Cost of Recovery A logical first step in order to decide what to recover for reuse is to understand the relative value of different launch vehicle stages or components that are candidate for recovery and reuse. Figure 5 shows a breakdown of the relative cost of the Atlas 401 launch vehicle by major element.

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During the first three years of  
operation, 24 commercial satellites  
were launched. The stated goal of  
recovery and reuse is the economic  
gain off it is not seriously

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documented. The over costs ..

## Alliance

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~~Performance Efficient Launch Vehicle Recovery and Reuse ...~~

Rocket Lab is getting into the reusable-rocket game. The California-based company plans to start recovering and reflighting the first stage of its Electron launch vehicle in the near future, Rocket...

~~Rocket Lab Plans to Snag Falling Boosters with a ...~~

In 2015, United Launch Alliance (ULA) announced its Sensible,

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## Modular, Autonomous Return

Technology (SMART) reuse plan for recovery of the booster module for its new Vulcan launch vehicle. That plan employs a non-propulsive approach where atmospheric entry, descent and landing (EDL) technologies are utilized.

## ~~NASA Technical Reports Server (NTRS)~~

Rocket Lab is proceeding as planned with its efforts to recover and reuse spent rocket boosters from its Electron launch vehicle, and has completed its first prototype parachute for use in the recovery process. Rocket lab CEO Peter Beck announced last year that it would be aiming for reusability with the first stage of its rocket, using a system that includes the booster re-entering

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~~Rocket Lab readies parachute tests for its rocket recovery ...~~

The project's long-term objectives include returning a launch vehicle first stage to the launch site in minutes and to return a second stage to the launch pad following orbital realignment with the launch site and atmospheric reentry in up to 24 hours. SpaceX's long term goal is that both stages of their orbital launch vehicle will be designed to allow reuse a few hours after return.

~~SpaceX reusable launch system development program — Wikipedia~~

If successful, Crew-2 should follow as soon as mid-2021 and could potentially reuse Crew-1 ' s Falcon 9 booster and the Demo-2 or Crew-1

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~~SpaceX wins NASA approval to launch  
astronauts on reused ...~~

Standing down from today's Starlink launch due to recovery issue; vehicle and payload remain healthy. Next launch opportunity is tomorrow, September 18 at 1:57 p.m. EDT, but we are keeping an eye ...

~~(Update: scrubbed) SpaceX's next  
Starlink launch to break ...~~

A reusable launch system is a launch system that includes the recovery of some or all of the component stages. To date, several fully reusable suborbital systems and partially reusable orbital systems have been flown. The first reusable launch vehicle to reach orbit was the Space

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Shuttle, which failed to accomplish the intended goal of reducing launch costs to below those of expendable launch systems. SpaceX CEO Elon Musk has said that if one can figure out how to reuse rockets like airplanes th

~~Reusable launch system - Wikipedia~~

Rocket Lab says its attempt to recover the first stage from an Electron launch was a “ complete success, ” but it still has work to do before reusing it.

~~Rocket Lab declares success in Electron rocket recovery ...~~

The maneuver was part of an intricate dress rehearsal, meant to practice nearly all of the steps Rocket Lab will take to recover and reuse its rockets in the future. Rocket Lab ’ s primary rocket is...

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~~Rocket Lab successfully brings its  
rocket back to Earth ...~~

Paper Session I-B - Reliability,  
Recovery, and Reuse the Three R's of  
a National Launch Strategy Ed  
Bangsund Director of Space Product  
Area Marketing, Boeing Defense &  
Space Group ... the system initially as  
an unmanned launch vehicle  
replacement for Titan/Atlas and use  
these initial missions to verify the  
system as a manned launch vehicle. ...

~~Paper Session I-B - Reliability,  
Recovery, and Reuse the ...~~

Watch live video of Rocket Lab's  
launch and recovery attempt ... wall,"  
which will dramatically heat and  
strain the vehicle. ... the system as  
part of a way to recover and reuse its  
Electron ...

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~~Watch live video of Rocket Lab's  
Alliance launch and recovery ... - MSN~~

New York Governor Andrew M. Cuomo announced a package of major clean transportation initiatives, including a “ Make Ready ” order approved by the New York State Public Service Commission (PSC) to advance New York ’ s commitment to accelerate its transition to cleaner mobility.. The EV Make-Ready Program will be funded by investor-owned utilities in New York State.

~~New York state rolls out EV Make-  
Ready Program - Green Car ...~~

SpaceX says that it ’ s successfully static fired its second-most flight-proven Falcon 9 booster ahead of the company ’ s 25th launch this year, potentially marking several reusability

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~~SpaceX eyes several Falcon 9  
reusability firsts on 25th ...~~

The Sunset Park Material Recovery Facility is a processing center for New York City ' s curbside metal, glass, and plastic recyclables undertaken by Sims Municipal Recycling and the City of New York. Located on an 11-acre waterfront pier in Sunset Park, the design ' s programmatic use as a recycling center inspired reuse throughout.

~~Sunset Park Material Recovery Facility  
—Selldorf ...~~

Kelli Timbrook President of New York State Association for Reduction, Reuse & Recycling, said, "Over the past year, the New York State Association of Reduction, Reuse and Recycling

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(NYSAR3) has made educating the public about contamination free recycling streams a priority through partnerships with the DEC, municipalities and recycling entities ...

The reuse of expensive launch vehicle hardware will be a critical step in the development of a low cost space transportation system. Prior studies, as well as experience with the Space Shuttle Solid Rocket Boosters, have shown that recovery and reuse of launch vehicle components can be economically beneficial. Recognizing this fact, NASA/MSFC awarded Pioneer Aerospace Corporation an ARS phase 1 study contract entitled

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Advanced Recovery Systems For  
Advanced Launch Vehicles, (ARS).

This paper documents the work completed during the study, and the conclusions thereof. Pioneer first investigated the means by which a broad spectrum of launch vehicle hardware can be recovered intact at predetermined locations for refurbishment and reuse. Attention was then focused on defining the design of a single recovery system for the most likely near term payload, a Propulsion/Avionics Module, (P/AM). The study was a success in that : all objectives were satisfactorily achieved ; all documentation was submitted on schedule ; a P/AM recovery system for phase 2 demonstration was designed which offers low cost, extremely low weight, good performance, potential for pinpoint landing, and operational

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On June 15, 2011, the Air Force Space Command established a new vision, mission, and set of goals to ensure continued U.S. dominance in space and cyberspace mission areas. Subsequently, and in coordination with the Air Force Research Laboratory, the Space and Missile

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Systems Center, and the 14th and 24th Air Forces, the Air Force Space Command identified four long-term science and technology (S&T) challenges critical to meeting these goals. One of these challenges is to provide full-spectrum launch capability at dramatically lower cost, and a reusable booster system (RBS) has been proposed as an approach to meet this challenge. The Air Force Space Command asked the Aeronautics and Space Engineering Board of the National Research Council to conduct an independent review and assessment of the RBS concept prior to considering a continuation of RBS-related activities within the Air Force Research Laboratory portfolio and before initiating a more extensive RBS development program. The committee

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for the Reusable Booster System: Review and Assessment was formed in response to that request and charged with reviewing and assessing the criteria and assumptions used in the current RBS plans, the cost model methodologies used to frame [frame?] the RBS business case, and the technical maturity and development plans of key elements critical to RBS implementation. The committee consisted of experts not connected with current RBS activities who have significant expertise in launch vehicle design and operation, research and technology development and implementation, space system operations, and cost analysis. The committee solicited and received input on the Air Force launch requirements, the baseline RBS concept, cost models and assessment,

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and technology readiness. The committee also received input from industry associated with RBS concept, industry independent of the RBS concept, and propulsion system providers which is summarized in Reusable Booster System: Review and Assessment.

Access -- no single word better describes the primary concern of the exploration and development of space. Every participant in space activities -- civil, military, scientific, or commercial -- needs affordable, reliable, frequent, and flexible access to space. To Reach the High Frontier details the histories of the various space access vehicles developed in the United States since the birth of the space age in 1957. Each case study has been written by a specialist knowledgeable about the

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vehicle described and places each system in the larger context of the history of spaceflight. The technical challenge of reaching space with chemical rockets, the high costs associated with space launch, the long lead times necessary for scheduling flights, and the poor reliability of the rockets themselves show launch vehicles to be the space program's most difficult challenge.

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