## 1

#### Interpretation – The affirmative must defend the enactment of a hypothetical government action of the resolution.

#### The text of the resolution calls for debate on hypothetical government action: “Resolved” means to enact a policy by law.

Words & Phrases ’64 (Words and Phrases; 1964; Permanent Edition)

Definition of the word “resolve,” given by Webster is “to express an opinion or determination by resolution or vote; as ‘it was resolved by the legislature;” It is of similar force to the word “enact,” which is defined by Bouvier as meaning “to establish by law”.

#### Government action is necessary to regulate private entities.

Blaustein 18 (Blaustein, Richard. “Private-Sector Space Activities Require Government Regulation, Says US Report.” Physics World, IOP Publishing, 4 July 2018, physicsworld.com/a/private-sector-space-activities-require-government-regulation-says-us-report/.)//DebateDrills AY

The US Congress must introduce legislation to regulate the activities of private companies operating in space. That is according to a new report by the US National Academies of Sciences, Engineering and Medicine, which says the need for reform has been heightened by the “burgeoning” commercial space sector in the US. One leader in the booming US private space sector is [Space X](http://www.spacex.com/), which was founded by Tesla head Elon Musk in 2002. The firm, which has had a number of recent high-profile rocket launches, is setting its sights on missions to Mars. Even Jeff Bezos, who founded the online shopping giant Amazon, is getting in on the act with plans for his firm Blue Origin to send a manned mission to the Moon.

#### Governments have responsibility over non-government (private) entity actions in outer space.

UNOOSA (UNOOSA. “United Nations Office for Outer Space Affairs.” Outer Space Treaty, UNOOSA, [www.unoosa.org/oosa/en/ourwork/spacelaw/treaties/outerspacetreaty.html.)//DebateDrills](http://www.unoosa.org/oosa/en/ourwork/spacelaw/treaties/outerspacetreaty.html.)//DebateDrills)AY

ARTICLE VI States Parties to the Treaty shall bear international responsibility for national activities in outer space, including the moon and other celestial bodies, whether such activities are carried on by governmental agencies or by non-governmental entities, and for assuring that national activities are carried out in conformity with the provisions set forth in the present Treaty. The activities of non-governmental entities in outer space, including the moon and other celestial bodies, shall require authorization and continuing supervision by the appropriate State Party to the Treaty. When activities are carried on in outer space, including the moon and other celestial bodies, by an international organization, responsibility for compliance with this Treaty shall be borne both by the international organization and by the States Parties to the Treaty participating in such organization

#### Violation- The actor of the aff is “private entities”

#### Standards-

#### 1] Predictable limits – there are more than 10,000 private companies investing in space

Keotsier 21

John Koetsier, [Journalist, analyst, and tech executive. He is a senior contributor for Forbes, hosts the top-50 podcast TechFirst with John Koetsier(among others), and consults with Silicon Valley companies.], 22 May 2021, “Space Inc: 10,000 Companies, $4T Value ... And 52% American”, <https://www.forbes.com/sites/johnkoetsier/2021/05/22/space-inc-10000-companies-4t-value--and-52-american/?sh=42d1bb0755ac> // AK

It’s not just SpaceX. Elon Musk’s SpaceX might get all the headlines, but there are now a huge number of companies who are competing to open up an unprecedented level of human access to space. The U.S. now has 5,582 space-focused companies, almost ten times more than the next country, the UK, which has 615. And there are more than 10,000 total, globally. Competition between these companies has led the value of space-focused companies to cross the $4 trillion USD mark for the first time ever, and is a key factor in reducing launch to orbit cost by almost two orders of magnitude in the past 20 years.

#### That forces the neg to research every company and their specific investments and destroys neg prep bc we can’t predict every single possible combination or company the aff could choose. Even if it’s only about companies going to the moon – their sample evidence has isolated there is AT LEAST 5 companies going to launch lunar lander just between now and 2024 – the amount of obscure private companies doing appropiative activities makes it impossible for us to know actual objectives and know-how

#### 2] Policymaking – fiating companies into doing specific actions is utopian fiat, which isn’t realistic, only through a policymaking model can students learn how governments set obligations for companies, which is how the resolution would be implemented. Indepdently, That’s key for cp ground – because all authors write in the context of countries versus they can just perm any regulations cp for countries making competition impossible. CPs key against small affs – getting da ground for little patches of ground is impossible –

## 2

#### Interpretation- The affirmative must defend the appropriation of outer space by private entities is unjust.

#### Outer space doesn’t include celestial bodies-

**Science Daily** [Outer Space. Science Daily. URL: <https://www.sciencedaily.com/terms/outer_space.htm>] JV

Outer space, also simply called space, refers to the relatively empty regions of the universe outside the atmospheres of celestial bodies. Outer space is used to distinguish it from airspace (and terrestrial locations). Contrary to popular understanding, outer space is not completely empty (i.e. a perfect vacuum) but contains a low density of particles, predominantly hydrogen gas, as well as electromagnetic radiation.

#### Violation- they defend Lunar heritage sites which aren’t a part of outer space.

#### Standards-

#### 1] Limits- By extending the term outer space they have access to an infinite amount of aff which the neg could never make up for. Even now, the definition of the term outer space leaves vagueness for the neg, but their extension makes it impossible to negative. Limits are key to proper clash and education which are the only impacts that matter.

#### Voters-

#### Fairness and education are voters – debate’s a game that needs rules to evaluate it and education gives us portable skills for life like research and thinking.

#### Precision o/w – anything else justifies the aff arbitrarily jettisoning words in the resolution at their whim which decks negative ground and preparation because the aff is no longer bounded by the resolution.

#### Drop the debater – a) they have a 7-6 rebuttal advantage and the 2ar to make args I can’t respond to, b) it deters future abuse and sets a positive norm.

#### Use competing interps – a) reasonability invites arbitrary judge intervention since we don’t know your bs meter, b) collapses to competing interps – we justify 2 brightlines under an offense defense paradigm just like 2 interps.

#### No RVIs – a) illogical – you shouldn’t win for being fair – it’s a litmus test for engaging in substance, b) norming – I can’t concede the counterinterp if I realize I’m wrong which forces me to argue for bad norms, c) chilling effect – forces you to split your 2AR so you can’t collapse and misconstrue the 2NR, d) topic ed – prevents 1AR blipstorm scripts and allows us to get back to substance after resolving theory

## 3 140

I’ll concede nuclear war goes existential AND o/ws other risks – risk of prolif going nuclear comes before their warming adv

#### The plan requires clarifying international space law---causes strategic bargaining to extract concessions

Alexander William Salter 16, Assistant Professor of Economics, Rawls College of Business, Texas Tech University, "SPACE DEBRIS: A LAW AND ECONOMICS ANALYSIS OF THE ORBITAL COMMONS", 19 STAN. TECH. L. REV. 221 (2016), https://law.stanford.edu/wp-content/uploads/2017/11/19-2-2-salter-final\_0.pdf

V. MITIGATION VS. REMOVAL

Relying on international law to create an environment conducive to space debris removal initially seems promising. The Virginia school of political economy has convincingly shown the importance of political-legal institutions in creating the incentives that determine whether those who act within those institutions behave cooperatively or predatorily.47 In the context of space debris, the role of nation-states, or their space agencies, would be to create an international legal framework that clearly specifies the rules that will govern space debris removal and the interactions in space more generally. The certainty afforded by clear and nondiscriminatory48 rules would enable the parties of the space debris “social contract” to use efficient strategies for coping with space debris. However, this ideal result is, in practice, far from certain. To borrow a concept from Buchanan and Tullock’s framework,49 the costs of amending the rules in the case of international space law are exceptionally high. Although a social contract is beneficial in that it prevents stronger nation-states from imposing their will on weaker nation-states, it also creates incentives for the main spacefaring nations to block reforms that are overall welfare-enhancing but that do not sufficiently or directly benefit the stronger nations.

The 1967 Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies (more commonly known as the Outer Space Treaty) is the foundation for current international space law.50 All major spacefaring nations are signatories. Article VIII of this treaty is the largest legal barrier to space debris removal efforts. This article stipulates that parties to the treaty retain jurisdiction over objects they launch into space, whether in orbit or on a celestial body such as the Moon. This article means that American organizations, whether private firms or the government, cannot remove pieces of Chinese or Russian debris without the permission of their respective governments. Perhaps contrary to intuition, consent will probably not be easy to secure.

A major difficulty lies in the realization that much debris is valuable scrap material that is already in orbit. A significant fraction of the costs associated with putting spacecraft in orbit comes from escaping Earth’s gravity well. The presence of valuable material already in space can justifiably be claimed as a valuable resource for repairs to current spacecraft and eventual manufacturing in space. As an example, approximately 1,000 tons of aluminum orbit as debris from the upper stages of launch vehicles alone. Launching those materials into orbit could cost between $5 billion and $10 billion and would take several years.51 Another difficulty lies in the fact that no definition of space debris is currently accepted internationally. This could prove problematic for removal efforts, if there is disagreement as to whether a given object is useless space junk, or a potentially useful space asset. Although this ambiguity may appear purely semantic, resolving it does pose some legal difficulties. Doing so would require consensus among the spacefaring nations. The negotiation process for obtaining consent would be costly.

Less obvious, but still important, is the 1972 Convention on International Liability for Damage Caused by Space Objects, normally referred to as the Liability Convention. The Liability Convention expanded on the issue of liability in Article VII of the Outer Space Treaty. Under the Liability Convention, any government “shall be absolutely liable to pay compensation for damage caused by its space objects on the surface of the Earth or to aircraft, and liable for damage due to its faults in space.”52 In other words, if a US party attempts to remove debris and accidentally damages another nation’s space objects, the US government would be liable for damages. More generally, because launching states would bear costs associated with accidents during debris removal, those states may be unwilling to participate in or permit such efforts. In theory, insurance can partly remediate the costs, but that remediation would still make debris removal engagement less appealing.

A global effort to remediate debris would, by necessity, involve the three major spacefaring nations: the United States, Russia, and China.53 However, any effort would also require—at a minimum—a significant clarification and—at most —a complete overhaul of existing space law.54 One cannot assume that parties to the necessary political bargains would limit parleying to space-related issues. Agreements between sovereign nation-states must be self-enforcing.55 To secure consent, various parties to the change in the international legal-institutional framework may bargain strategically and may hold out for unrelated concessions as a way of maximizing private surplus. The costs, especially the decision-making costs, of changing the legal framework to secure a global response to a global commons problem are potentially quite high.

#### The US will use that opportunity to push Artemis Accords and bilateralization – Russia will demand concessions over Ukraine – it’s their top priority and violates Ukraine’s sovereignty.

Maynes 1/24 – NPR Moscow correspondent, reporting in Russia for over a decade

Charles Maynes, last updated at time of cutting: 1-24-2022, “4 things Russia wants right now,” *NPR*, https://www.npr.org/2022/01/12/1072413634/russia-nato-ukraine DD

MOSCOW — First U.S. and Russian diplomats faced off in Geneva. Then NATO received a Russian delegation in Brussels. The Organization for Security and Cooperation in Europe sponsored talks in Vienna. And finally, the U.S. and Russian chief diplomats met, again in Geneva, last week.

Russia courted all this attention by massing some 100,000 troops and military equipment near Ukraine, raising fears of a Russian invasion. Analysts read Russia's buildup as an attempt to pressure the U.S. and its European allies into concessions on a series of far-reaching "security guarantees" sought by Moscow.

1. Russia wants a guarantee Ukraine can never join NATO

Russia's main demand is a commitment from NATO to end its further expansion into former Soviet republics — especially Ukraine. Russia wants NATO to rescind a 2008 promise that Ukraine could someday join the defense alliance. Many observers see it as a distant prospect that Ukraine could join NATO because it doesn't meet membership requirements. But Moscow doesn't see it that way. "We don't trust the other side," Russia's chief negotiator, Deputy Foreign Minister Sergei Ryabkov, said after bilateral talks with the U.S. finished. "We need ironclad, waterproof, bulletproof, legally binding guarantees. Not assurances. Not safeguards. Guarantees. With all the words — 'shall, must' — everything that should be put in."

Russia's reasoning: President Vladimir Putin views Ukraine as an extension of what he calls "historical Russia" — a part of the Russian Empire and Soviet Union, and within Moscow's "sphere of influence" today. The threat of Ukraine's westward turn after a street revolution ousted the country's pro-Russian president in 2014 was the driving force behind Russia's annexation of Crimea later that year. Ukraine's desire to join the Western alliance also led to Russia's sponsorship of separatists in the country's eastern Donbas region — in effect sabotaging its path to membership by fueling a civil war.

NATO's counter: The U.S. argues that countries have a right to choose their own alliances and NATO has a long-standing "open door policy" for potential membership. "NATO has never expanded through force or coercion or subversion. It is countries' sovereign choice to choose to come to NATO and say they want to join," Deputy Secretary of State Wendy Sherman said after a meeting between Russian and NATO officials in Brussels earlier this month. Russia's actions are making the idea of NATO membership more appealing to Ukrainians, according to opinion polls. It is unlikely, however, that Ukraine will meet the requirements anytime soon.

#### Concessions on sovereignty spark global allied prolif.

Gawthorpe 14 – teaching fellow at the Defence Academy of the United Kingdom

Andrew Gawthorpe, 3-14-2014, “Could Ukraine Drive Nuclear Proliferation in Asia?” *The Diplomat*, https://thediplomat.com/2014/03/could-ukraine-drive-nuclear-proliferation-in-asia/ DD

Recent events in Eastern Europe raise the issue not only of Russia’s future actions but also the lessons that will be drawn regarding other revisionist states. In East Asia, a China that is nurturing territorial ambitions of its own and has recently become less shy about asserting them will watch to see how the West reacts to Vladimir Putin’s expansionism. So will China’s East Asian neighbors, who fear they may become the next Ukraine.

One of the most potentially disturbing effects of the situation in Ukraine is the possibility it may drive nuclear proliferation. The present crisis in that country could well have been a nuclear nightmare. When the USSR was unraveling in the early 1990s, a sizeable portion of its strategic forces, along with tactical nuclear weapons, were deployed in Ukraine. Had the new Ukrainian government in Kiev taken control of these weapons upon becoming independent, it would have been the third-largest nuclear power in the world. behind only the U.S. and the Russia.

Concerned about nuclear proliferation throughout Europe if new nuclear powers were created by the Soviet Union’s demise, the U.S. pressured Ukraine to denuclearize and to return its nuclear forces to Russia. Basking in a post-independence glow and seeking U.S. support on other issues, Kiev went along. This was the origin of the so-called Budapest Memorandum of 1994, in which Ukraine promised to give up its nuclear weapons in return for Russia, Britain and the U.S. guaranteeing its sovereignty and territorial integrity. With the wholesale invasion of Crimea by Russian forces in recent days, Kiev can be forgiven for asking if the agreement is any longer worth the paper it’s written on.

Since Russia’s occupation of Crimea, a former Ukrainian foreign minister has called for his country to restock its nuclear arsenal and some Western analysts have questioned whether Putin would have acted so boldly if Ukraine still had its nuclear deterrent. The question can be expected to occur to leaders of other countries who are concerned about the territorial ambitions of their neighbors or the sincerity of Western security assurances.

The issue is of particular salience in East Asia, where China has recently been flexing its muscles in a range of territorial disputes. Regional powers such as Japan and Taiwan must be watching America’s unwillingness to forcefully confront a nuclear-armed Russia and wondering how much backbone the exhausted and drained superpower would have if China made similar moves. This is especially the case since the Obama administration’s so-called “pivot” to the Asia-Pacific seems to be much more an excuse for disengaging from the Middle East than it is a real exercise in strengthening the American alliance system in the Asia-Pacific.

Any such moves towards proliferation would be unwise. Acquiring nuclear weapons may appear to provide an effective way for countries worried about their neighbors’ territorial ambitions to deter them, but the truth is not so simple. While nuclear weapons provide an effective deterrent against an all-out attack, they are not necessarily effective in deterring lower-level conflict. Just as it is implausible to imagine that Ukraine would have responded to the appearance of balaclaved soldiers in Crimea with a first strike, so it is equally implausible to imagine any country responding to the Chinese declaration of an Air Defense Identification Zone in the same manner.

Revisionist powers are adept at nibbling away at international norms and agreements slowly and avoiding big, sweeping gestures. Countries responding to such a nibble with nuclear brinksmanship risk making their adversaries look reasonable by comparison, giving nuclear weapons questionable utility in territorial disputes. And if their use is indeed threatened and taken seriously, the result can be a dangerous cycle of escalation.

**<Feel free to insert your preferred prolif impacts>**

#### East Asian prolif UNIQUELY breaks deterrence and escalates.

Cimbala 15 – Stephen J., Distinguished Professor of Political Science at Pennsylvania State University Brandywine, “New Nuclear Disorder: Challenges to Deterrence and Strategy” Ashgate Publishing Ltd

Failure to contain proliferation in Pyongyang could spread nuclear fever throughout Asia. Japan and South Korea might seek nuclear weapons and missile defenses. A pentagonal configuration of nuclear powers in the Pacific basin (Russia, China, Japan, and the two Koreas—not including the United States, with its own Pacific interests) could put deterrence at risk and create enormous temptation toward nuclear preemption. Apart from actual use or threat of use. North Korea could exploit the mere existence of an assumed nuclear capability in order to support its coercive diplomacy.1'' A five-sided nuclear competition in the Pacific would be linked, in geopolitical deterrence and proliferation space, to the existing nuclear deterrents of India and Pakistan, and to the emerging nuclear weapons status of Iran. An arc of nuclear instability from Tehran to Tokyo could place US proliferation strategies into the ash heap of history and call for more drastic military options, not excluding preemptive war, defenses and counter-deterrent special operations. In addition, an unrestricted nuclear arms race in Asia would increase the likelihood of accidental or inadvertent nuclear war. It would do so because: (1) some of these states already have histories of protracted conflict; (2) states may have politically unreliable or immature command and control systems, especially during a crisis involving a decision for nuclear first strike or retaliation; unreliable or immature systems might permit a technical malfunction that caused an unintended launch, or a deliberate, but unauthorized, launch by rogue commanders; and (3) faulty intelligence and warning systems might cause one side to misinterpret the other's defensive moves to forestall attack as offensive preparations for attack, thus triggering a mistaken preemption.

## 4

#### Space faring nations

#### --Announce that appropriation of outer space by private actors violates the Outer Space Treaty and that this is a settled matter of customary international law

#### --Announce that this action is taken pursuant to *opinio juris* (the belief that the action is taken pursuant to a legal obligation) and that non-compliant actors are in violation of international law

#### --Fully comply, not appropriating outer space in a manner inconsistent with these proclamations

#### Solves the Aff.

[Fabio](https://kluwerlawonline.com/journalarticle/Air+and+Space+Law/33.3/AILA2008021) **Tronchetti 8**. Dr. Fabio Tronchetti works as a Co-Director of the Institute of Space Law and Strategy and as a Zhuoyue Associate Professor at Beihang University, “The Non–Appropriation Principle as a Structural Norm of International Law: A New Way of Interpreting Article II of the Outer Space Treaty,” Air and Space Law, Volume 33, No 3, 2008, <https://kluwerlawonline.com/journalarticle/Air+and+Space+Law/33.3/AILA2008021>, RJP, **DebateDrills**.

The non–appropriation principle represents the fundamental rule of the space law system. Since the beginning of the space era, it has allowed for the safe and orderly development of space activities. Nowadays, however, the principle is under attack. Some proposals, arguing the need for abolishing it in order to promote commercial use of outer space are undermining its relevance and threatening its role as a guiding principle for present and future space activities. This paper aims at safeguarding the non–appropriative nature of outer space by suggesting a new interpretation of the non–appropriation principle that is based on the view that this principle should be regarded as a customary rule of international law of a special character, namely ‘a structural norm’ of international law.

#### Competes – harrington wants A TRE

Harrington 19, Andrea J. "Preserving Humanity's Heritage in Space: Fifty Years after Apollo 11 and beyond." J. Air L. & Com. 84 (2019): 299. (Associate Professor and Director of the Schriever Space Scholars at USAF Air Command and Staff College)//Elmer MonVis RD recut

The most viable and effective means for the protection of space heritage is a multistep process that begins with the use of existing protections under the space law and cultural heritage regimes. As these protections are already in place, there does not need to be any lapse before implementation. States should promptly take unilateral action in cases where they have not done so to maximize the benefit that they can receive under Article IX of the Outer Space Treaty for the protection of space heritage. Next, states should enter into either general or sitespecific bilateral agreements with individual states that are actively planning activities in the vicinity of their space heritage in the near term.

#### Evidence also says space is cooperative not coexistence AND that they want to pursue amending Aritcle IX of the OST – don’t let them delink

Harrington 19, Andrea J. "Preserving Humanity's Heritage in Space: Fifty Years after Apollo 11 and beyond." J. Air L. & Com. 84 (2019): 299. (Associate Professor and Director of the Schriever Space Scholars at USAF Air Command and Staff College)//Elmer MonVis RD recut

Generally speaking, “international law . . . has evolved from the ‘law of co-existence’ to the ‘law of cooperation.’”501 In the space heritage arena, this is apparent in NASA’s Recommendations, which seek a cooperative solution to the problem of protecting lunar sites and artifacts. In international law, NASA’s Recommendations can work in conjunction with the provisions of Article IX of the Outer Space Treaty in good faith to achieve a desirable result. T.

#### 2] Space law is typically treaty-based---Russian and Chinese proposals prove.

Stephanie **Nebehay 8**. Reporter, Reuters, “China, Russia to Offer Treaty to Ban Arms in Space,” Reuters, January 26, 2008, <https://www.reuters.com/article/us-arms-space/china-russia-to-offer-treaty-to-ban-arms-in-space-idUSL2578979020080125>, RJP, **DebateDrills**

GENEVA (Reuters) - China and Russia will submit a joint proposal next month for an international treaty to ban the deployment of weapons in outer space, a senior Russian arms negotiator said on Friday.

Valery Loshchinin, Russia’s ambassador to the United Nations-sponsored Conference on Disarmament, said the draft treaty would be presented to the 65-member forum on February 12.

Russian Foreign Minister Sergei Lavrov is due to address the Geneva forum, which constitutes the world’s main disarmament negotiating body, on that day. Loshchinin gave no details on the proposal which has been circulated to some senior diplomats.

Tensions between Russia and the United States have deepened in recent years over U.S. plans to revive its stalled “Star Wars” program from the 1980s with a new generation of missile defense shields.

Nuclear and other weapons of mass destruction are banned from space under a 1967 international treaty. But Washington’s plans have stirred concerns about non-nuclear arms in space.

#### 3] Treaties are the foundation of space law.

Sophie **Goguichvili et. al 21**. Program Associate, the Wilson Center, “The Global Legal Landscape of Space: Who Writes the Rules on the Final Frontier?” The Wilson Center, October 1, 2021, <https://www.wilsoncenter.org/article/global-legal-landscape-space-who-writes-rules-final-frontier>, RJP, **DebateDrills**

As previously mentioned, a series of treaties adopted by the U.N. General Assembly (UNGA) form the foundation of the global space governance system. The first and most significant of these treaties is the “Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space including the Moon and Other Celestial Bodies,” more commonly known as the **Outer Space Treaty**or**OST** for short (1967). The Outer Space Treaty is considered the most comprehensive space treaty and provides the basic framework for international space law, namely: the exploration and use of outer space for peaceful purposes by all States for the benefit of mankind (Art. I); the outlaw of national appropriation or claims of sovereignty of outer space or celestial objects (Art. II); a ban on the placement of weapons of mass destruction in orbit or on celestial bodies (Art. IV); that astronauts should be regarded as the envoys of mankind (Art. V); and that States are required to supervise the activities of their national entities (Art. VI).

#### We solve better, since CIL is far superior to treaties for space AND causes follow-on.

Koplow, 9 – Professor of Law, Georgetown University Law Center.

David A. Koplow, “ASAT-isfaction: Customary International Law and the Regulation of Anti-Satellite Weapons,” Michigan Journal of International Law. Volume 30, Summer 2009. <http://scholarship.law.georgetown.edu/cgi/viewcontent.cgi?article=1452&context=facpub>

Finally, the Article concludes with some policy recommendations, suggesting mechanisms for the world community to press forward with autonomous efforts to promote stability and security in outer space, even in the face of recalcitrance from the leading space powers. I would certainly support the negotiation and implementation of a comprehensive new treaty to prevent an arms race in outer space, and a carefully drafted, widely accepted accord could accomplish much, well beyond what customary law alone could create. But the treaty process, too, has costs and disadvantages, and the world need not pursue just one of these alternatives in isolation.

If the absence of global consensus currently inhibits agreements that countries could already sign, perhaps the world community can nevertheless get some "satisfaction" via the operation of CIL, constructing a similar (although not completely equivalent) edifice of international regulation of ASATs based simply on what countries do.

## Case

## 1NC—Case

### Recuttings

#### They conveniently forgot the last paragraph of this evidence.

Sample 19 Ian Sample 7-19-2019 “Apollo 11 site should be granted heritage status, says space agency boss” <https://www.theguardian.com/science/2019/jul/19/apollo-11-site-heritage-status-space-agency-moon> (PhD at Queens Mary College 1-22-2022 amrita

But **Wörner believes heritage can go too far**. “I would say let’s limit it to the important ones,” he said. “**If** you define each and **everything** on Earth **as heritage**, you **cannot move** and it will be the same on the moon. We should not make heritage the brake for the future.”

#### Status quo checks—private companies will work *with* NASA- we’ll read blue.

Tillman 19 Nola Taylor Tillman 7-31-2019 "Will Private Companies Beat NASA to the Moon?" <https://www.space.com/nasa-private-companies-moon-race.html> (Science Journalist)//Elmer recut amrita

With private companies setting their sights on sending humans to the moon in the near future, it's possible that one could touch down on the lunar surface before NASA astronauts do. But **the resulting "public versus private" space race isn't one that NASA feels** overly competitive **about. The** space **agency's plans** to reach the moon involve **rely**ing **on private** corporations **rather than challenging** them. "The challenges differ for the public and private sector, though they all do come down to money," Wendy Whitman Cobb told Space.com by email. Whitman Cobb, an associate professor at the U.S. Air Force's School of Advanced Air and Space Studies, examines the institutional dynamics of the policymaking behind space exploration. She stressed that her views are her own and do not necessarily reflect those of the Air Force or Department of Defense. "Technology is not a problem for either sector — the ability to get to the moon has existed since the 1960s," Whitman-Cobb said. "What is different is the will to do it." A Worldwide Team NASA's current lunar push kicked into high gear in December 2017, when President Donald Trump signed a space-policy directive to send humans to the moon and establish a sustainable presence there. Earlier this year, Vice President Mike Pence told NASA to put boots on the moon by 2024, rather than the previous goal of 2028. NASA's Artemis program aims to reach that goal. (In Greek mythology, Artemis was the twin sister of Apollo and goddess of the moon.) The agency's Orion spacecraft will carry human explorers to the Gateway outpost, a small space station that NASA plans to start building in lunar orbit in the early 2020s. Landers will then carry astronauts from the Gateway to the lunar surface. The **space agency** won't be hitting these goals on its own. "We're already **partnering with** our **commercial** partners to build these systems, **and** later on we'll continue to work with our international partners to build up the Gateway," Marshall Smith, director of the human lunar exploration program at NASA's headquarters in Washington, told Space.com by email. The space agency is currently working with 11 companies on Gateway and its associated systems. In May 2019, NASA awarded a contract to Maxar Technologies to build, launch and demonstrate in space the first major Gateway piece — the Power and Propulsion Element. The space agency also announced then that it had signed contracts with three companies to carry experiments to the moon via small robotic landers (though one of those three recently dropped out). In June, NASA asked industry to figure out ways to deliver cargo to the Gateway — much like the companies SpaceX and Northrop Grumman make robotic resupply runs to the International Space Station. In addition to working with private companies, NASA is also cooperating with **other countries** on the Artemis program. "International partners are a vital part of our lunar plan and will contribute **to** the goal of **creating a sustainable lunar presence** by 2028," Smith said. But private industry isn't solely focused on helping NASA make it to the moon. Companies like SpaceX and Blue Origin have stated their intentions to design their own lunar exploration programs. Advertisement Elon Musk's SpaceX is currently working on a 100-passenger vehicle called Starship, which the company envisions carrying people to the moon and Mars. Starship will be lofted off Earth's surface by a huge rocket called Super Heavy. SpaceX already has one Starship-Super Heavy passenger flight planned for 2023. The company hopes to begin commercial operations of the pair as early as 2021, most likely with commercial satellite launches. Blue Origin, operated by Amazon founder Jeff Bezos, is working on a big lander called Blue Moon, which will deliver science instruments, lunar rovers and, eventually, astronauts to the lunar surface. Bezos sees many potential customers for Blue Moon other than NASA. "People are very excited about this capability to soft-land their cargo, their rovers, their science experiments on the surface of the moon in a precise way," Bezos said at the lander's unveiling in May 2019. "There is no capability to do that today." Then there's Florida-based company Moon Express, which is working to become the first private enterprise to reach the moon with robotic spacecraft systems. In 2016, it became the first company to receive U.S. government approval to send a robotic spacecraft to the lunar surface. "Our vision is really to expand Earth's economic and social sphere to include the moon," Alain Berinstain, Moon Express' vice president of global development, said last year at a lunar-science workshop at NASA's Ames Research Center in California. "We see the moon as the Earth's eighth continent to explore and to also mine for resources, like we have with every other continent on Earth." Pittsburgh-based Astrobotic planned to launch its Peregrine lander to the moon in 2019, but that date has since been since pushed back to 2020 or 2021. "We're really, at Astrobotic, trying to do this the right way, meaning that we're trying to be as technically rigorous as possible," Dan Hendrickson, vice president of business development at Astrobotic, said at a Washington Space Business Roundtable in February. "We're trying to be very upfront with the entire community about our current status." As with NASA, private industry has sufficient access to the technology to get to the moon, Whitman Cobb said. "They also have to demonstrate that their systems are fundamentally safe and reliable in order to attract paying customers — they are a business, after all," she said. Private companies also tend to have a leaner leadership structure than NASA's 60-year-old legacy brings with it. "NASA's bureaucracy has stagnated since the 1960s," Whitman Cobb said. That makes it "more difficult for NASA to contract, make changes and adapt to new circumstances." On the other hand, private companies have demonstrated the ability to move through technology development at a rapid rate, incorporating design and technology changes "almost immediately," she said. That brings its own advantages.

#### YOUR AUTHOR CONCLUDES WE SHOULD STILL ALLOW COMMERCIALIZATION OF THE MOON AND HERITAGE SITES – GG!

#amritaisthebest

OSTP 18 Office of Science and Technology Policy March 2018 “PROTECTING & PRESERVING APOLLO PROGRAM LUNAR LANDING SITES & ARTIFACTS” (The Office of Science and Technology Policy is a department of the United States government, part of the Executive Office of the President, established by United States Congress on May 11, 1976, with a broad mandate to advise the President on the effects of science and technology on domestic and international affairs.)//Elmer recut amrita

While **commercial** robotic **missions create risks** to the protection of lunar scientific and heritage sites, **the U.S. Gov**ernment fully **supports commercialization of the space sector and** commercial robotic missions to **the Moon**. Therefore, the risks to damage lunar heritage sites must be balanced against other national and international interests. The **lunar heritage sites can be protected**, at a reasonable cost, **while** still **fostering commercial space activities** and government-sponsored missions back **to the Moon**. There are approximately a dozen U.S. and foreign companies at various stages of planning lunar robotic missions. These include the five GLXP finalists and other companies from the United States, Japan, India, Israel Germany, and other countries.

### Analytics

#### Hamill 16 says nothing about *preventing* super volcanoes- just that they would be found earlier- means they can’t prevent literally any of the impact chain.

The aff will tell us that we will die but not do anything

#### Cooper 12 says that Alaska is a useful state besides Salmon because of its geopolitical location- means status quo is sufficient to solve nuclear war because we already… have… Alaska…

## 5

## CP—NASA Guidelines

#### CP: Private entities should fully agree with and comply with the LHS guidelines set by NASA.

#### Prevents exploitation of LHS but still allows for private appropriation- means it competes. Your author.

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NASA Recommendations **To** proactively **identify** lunar surface approach strategies and **determine a safe method of visiting historic sites, NASA leveraged the LHS team to** help **guide the flight** and surface planning of future visiting vehicles to those USG historic sites. Along with documenting a technical analysis of damage mechanisms, the NASA LHS team **identified a** small **set of** flight **operations recommendations and** surface **mobility methods which**, if followed, help **protect the sites, while allowing** robotic missions, including **commercial ventures, to achieve** their **mission objectives**. These measures are captured in the “NASA Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts,” (Technical Guidelines) published in 2011.2 Until more formal USG guidance is developed and perhaps a multilateral approach is established to reflect various nations’ views on lunar hardware of scientific and historic value**, the Technical Guidelines** developed by the NASA LHS team provide interim recommendations for lunar vehicle design and mission planning teams. While the Technical Guidelines do not represent mandatory USG or international requirements, **they inform** lunar spacecraft mission **planners** interested **in** helping **preserve and protect lunar** historic **artifacts** and potential science opportunities for future missions. Moon Express (U.S.), PTScientists (Germany), and Astrobotics (U.S.) have already announced their intentions to follow NASA’s LHS Technical Guidelines.