### DA – Asteroid Mining

#### Asteroid mining is coming

MacWhorter 16, Kevin [J.D. Candidate at William & Mary Law School]. “Sustainable Mining: Incentivizing Asteroid Mining in the Name of Environmentalism”; February 2016; *William and Mary Environmental Law and Policy Review* [https://scholarship.law.wm.edu/cgi/viewcontent.cgi?article=1653&context=wmelpr]

Although companies likely are not able to send mining ventures to asteroids immediately, as the preceding section suggested, asteroid mining is a possibility in the near future.70 First of all, two companies are developing the technology needed to mine asteroids.71Planetary Resources is creating cheaper prospecting spacecraft small enough to hitch a ride into space with larger, primary payloads. 72 Another company, Deep Space Industries (DSI), is developing a four-stage system for mining in space: Prospecting, Processing, Harvesting, and Manufacturing.73 It has already invented one spacecraft to be used for the Prospecting stage: a tiny probe, called FireFly, designed to scout asteroids and study their size, shape, spin and composition . . . . 74 For the Processing phase, DSI is creating technology required to transform regolith to raw materials for manufacture.75 The company is currently developing another spacecraft, called a Harvestor, for the third stage to collect and transport resources.76Finally, the company is creating technology to manufacture finished products in space

#### The plan prevents asteroid mining because it prohibits appropriation.

Leon 18, Amanda M. [J.D., University of Virginia School of Law, 2017]. “Mining for Meaning: An Examination of the Legality of Property Rights in Space Resources”; May 15, 2018; *Virginia Law Review* [https://www.caplindrysdale.com/files/24323\_leon\_final\_note.pdf]

Appropriation. The term “appropriation” also remains ambiguous. Webster’s defines the verb “appropriate” as “to take to oneself in exclusion of others; to claim or use as by an exclusive or pre-eminent right; as, let no man appropriate a common benefit.”165 Similarly, Black’s Law Dictionary describes “appropriate” as an act “[t]o make a thing one’s own; to make a thing the subject of property; to exercise dominion over an object to the extent, and for the purpose, of making it subserve one’s own proper use or pleasure.”166 Oftentimes, appropriation refers to the setting aside of government funds, the taking of land for public purposes, or a tort of wrongfully taking another’s property as one’s own. The term appropriation is often used not only with respect to real property but also with water. According to U.S. case law, a person completes an appropriation of water by diversion of the water and an application of the water to beneficial use.167 This common use of the term “appropriation” with respect to water illustrates two key points: (1) the term applies to natural resources—e.g., water or minerals—not just real property, and (2) mining space resources and putting them to beneficial use—e.g., selling or manufacturing the mined resources— could reasonably be interpreted as an “appropriation” of outer space. While the ordinary meaning of “appropriation” reasonably includes the taking of natural resources as well as land, whether the drafters and parties to the OST envisioned such a broad meaning of the term remains difficult to determine with any certainty. The prohibition against appropriation “by any other means” supports such a reading, though, by expanding the prohibition to other types not explicitly described.16

#### Asteroid mining replaces terrestrial mining.

Ross 01, Shane D. [Control and Dynamical Systems Caltech]. “Near-Earth Asteroid Mining”; December 14, 2001; *Space Industry Report* [http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.614.9343&rep=rep1&type=pdf]

Many terrestrial resources, such as precious metals and fossil fuels, are running out. As new terrestrial sources are sought, materials are obtained at increasing economic and environmental cost. Society pays for this depletion of resources in the form of higher prices for manufactured goods, would-be technologies that are not developed for lack of raw materials, global and regional conflicts spurred by competition for remaining resources, and environmental damage caused by development of poorer and more problematic deposits. Utilization of asteroid resources may provide a partial solution to the problem, as they hold the potential for becoming the main sources of some metals and other materials. Precious metals and semiconducting elements in iron meteorites, which form the metallic cores of asteroids, are found in relatively large concentrations compared to Earth sources. In such sources, it may be possible to extract up to 187 parts per million (ppm) of precious metals, which includes Au, the Pt-group metals (Pt, Ru, Rh, Pd, Os, and It), Re, and Ge. More than 1000 ppm of other metals, semiconductors, and nonmetals may may one day be extracted and imported by Earth from asteroids, such as Ag, In, Co, Ga, and As

#### Asteroid mining prevents extinction in two ways.

#### 1] Only asteroid mining can provide us with the research and understanding to prevent extinction

Elvis 21 [Martin Elvis is a senior astrophysicist at the Center for Astrophysics | Harvard & Smithsonian. He is the author of Asteroids: How Love, Fear, and Greed Will Determine Our Future in Space (2021). “Riches in space.” Aeon. July 2, 2021. <https://aeon.co/essays/asteroid-mining-could-pay-for-space-exploration-and-adventure>] HW AL

If knowledge or greed isn’t motivation enough to set your sights on the asteroids, then the one thing virtually all people agree on is that having humanity wiped off the face of Earth would be bad, at least for us. Of all the multiple threats to humanity’s existence, the only one that we can definitely eliminate is that of a large asteroid slamming into our home planet and killing us off, together with most other species, following the lead of the dinosaurs who were made extinct by an asteroid slamming into the ocean. There’s a T-shirt popular among space cadets that has the slogan ‘Asteroids are nature’s way of saying “How’s that space programme coming along?”’ If we can find all the killer asteroids, then we can divert them to render them harmless. Best to play it safe. There are several searches underway for undiscovered, potentially dangerous asteroids. Thanks to the first big survey, Spaceguard, 90 per cent of the dinosaur-killer-sized asteroids out there have already been found. None of them pose any danger for the next century at least. That still leaves an uneasily large number of about 100 extinction-event-sized rocks out there that we haven’t found yet. Smaller, city-killer asteroids are much less well-surveyed for. To remedy this concern, two new surveys will begin in the next few years, and they will both be more or less done by 2030. They are the Vera C Rubin Observatory ‘Legacy Survey of Space and Time’, which will start scanning the whole sky every few nights from 2023 onwards. Its mission has been complicated by the mushrooming constellations of thousands of internet satellites now being launched by several companies, with SpaceX being the most visible. Hopefully a solution will be found. The Vera C Rubin Observatory, on a mountain in Chile, will record its image using normal visible light. For asteroids, that light is reflected sunlight. But many asteroids are pitch black, reflecting only a few percent of the sunlight pouring on to their surfaces. How do you find those dark asteroids? The answer is to use the long wavelength – infrared – light they emit because they’re warm: their ‘black body radiation’. NASA is building a special mission just for this purpose. Developed by a team lead by Amy Mainzer, now of the University of Arizona, Tucson, it’s called the Near-Earth Object Surveillance Mission. Starting around 2025, it will scan the sky repeatedly for five years looking for moving objects that are bright in infrared light, and has wavelengths some 10 to 20 times longer than we can see with our eyes. The team’s tagline is ‘Finding Asteroids Before They Find Us.’ Good idea! This will be the first time that humanity has deliberately changed the orbit of any celestial body An advantage of using the black body radiation is that it also tells us quite accurately how big each asteroid is. That helps in assessing their threat, as well giving us a first guess at how much they might yield in resources. Combining the two surveys will indicate how much sunlight each asteroid reflects – its ‘albedo’ – and that’s a clue to what they’re made of. We want to know that because a metal asteroid of a given size is more dangerous than one made of rock, and is more difficult to push out of the way. The composition also helps us explore all two dozen types of asteroid out there, the better to decipher the history of our solar system. As a side product, the surveys will pin down their potential value. By 2030, we’ll have better rockets than we have today. Several are set to fly within five years. They’ll let us reach many more asteroids with more massive payloads to deflect them, study them or mine them. Also by 2030, several more asteroids will have been visited by our exploration spacecraft. JAXA, the Japanese space agency, and NASA each had recent missions to return samples from carbonaceous asteroids. The Japanese Hayabusa2 went to the spinning-top-shaped asteroid named Ryugu, and NASA’s OSIRIS-REx went to the asteroid called Bennu. Such carbonaceous asteroids are the least changed, we believe, from the time of their formation at the beginning of the solar system’s formation. They are called carbonaceous because they are chockfull of organic (carbon-containing) molecules; many of them also contain quite a lot of water. There are more missions planned to more distant asteroids such as Psyche, a metal asteroid in the Main Belt, and to the Trojan asteroids trailing Jupiter’s orbit. OSIRIS-REx samples and leaves asteroid Bennu. Courtesy of NASA **Every time we visit an asteroid, it surprises us.** Bennu was found to be throwing rocks off its surface as it spun around its axis, and when OSIRIS-REx put down its outstretched arm to grab a sample off the surface, the arm sank half a metre into the asteroid; it stopped going deeper only when the retrorockets fired to stop it. That’s really not how rubble behaves on Earth! The more we know about asteroids, the more confident we can be that we can deflect their path away from Earth. A NASA mission called DART will make a high-speed impact on the small moon of the asteroid Didymos in late 2022 to see if we can slow down a dangerous asteroid to stop it causing devastation on Earth. (Don’t worry: the target was chosen to be a safe one for us.) This will be the first time that humanity has deliberately changed the orbit of any celestial body. It isn’t likely to be the last. Once all the good-sized accessible asteroids have been found, their orbits mapped, their sizes known, and at least a good clue found as to what they’re made of, the barriers to mining them will be much lower. **After visiting a half dozen asteroids up close, we’ll have learned a great deal about their origins, how to deflect them should one be headed our way, and how to handle them.** That will put us in a good place to begin to extract their resources. I predict this will happen right around 2030, when demand for in-space materials should be picking up. **The stars seem to be aligning for mining the asteroids. Mining will expand our capabilities in space, especially making it easier to deflect a dangerous asteroid.** In a virtuous cycle, those new capabilities will lead us on to greater exploration of the many worlds in our solar system and, with bigger, better telescopes, to the Universe beyond. It should be fun.

#### 2] Provides the resources for a space solar array

Taylor 19, Chris [Veteran journalist and the author of 'How Star Wars Conquered the Universe.']. “The Asteroid Boom”; 2019; *Mashable* [https://mashable.com/feature/asteroid-mining-space-economy]

Secondly, there’s the climate change fix. Suarez sees asteroid mining as the only way we’re going to build solar power satellites. Which, as you probably know, is a form of uninterrupted solar power collection that is theoretically more effective, inch for inch, than any solar panels on Earth at high noon, but operating 24/7. (In space, basically, it’s always double high noon). The power collected is beamed back to large receptors on Earth with large, low-power microwaves, which researchers think will be harmless enough to let humans and animals pass through the beam. A space solar power array like the one China is said to be working on could reliably supply 2,000 gigawatts — or over 1,000 times more power than the largest solar farm currently in existence. “We're looking at a 20-year window to completely replace human civilization's power infrastructure,” Suarez told me, citing the report of the Intergovernmental Panel on Climate Change on the coming catastrophe. Solar satellite technology “has existed since the 1970s. What we were missing is millions of tons of construction materials in orbit. Asteroid mining can place it there.”

#### Climate change causes global extinction

Schultz 16, Robert A. [Received a Ph.D. in philosophy from Harvard University]. “Modern Technology and Human Extinction”; 2016; *Proceedings of Informing Science & IT Education Conference* [http://proceedings.informingscience.org/InSITE2016/InSITE16p131-145Schultz2307.pdf]

There is consensus that there is a relatively short window to reduce carbon emissions before drastic effects occur. Recent credible projections of the result of lack of rapid drastic action is an average temperature increase of about 10o F by 2050. This change alone will be incredibly disruptive to all life, but will also cause great weather and climate change. For comparison purposes, a 10 degree (Fahrenheit) decrease was enough to cause an ice layer 4000 feet thick over Wisconsin (Co2gether, 2012). Recently relevant information has surfaced about a massive previous extinction. This is the Permian extinction, which happened 252 million years ago, during which 95% of all species on earth, both terrestrial and aquatic, vanished. The ocean temperature after almost all life had disappeared was 15 degrees (Fahrenheit) above current ocean temperatures. Recent information about the Permian extinction indicates it was caused by a rapid increase in land and ocean temperatures, caused by the sudden appearance of stupendous amounts of carbon in the form of greenhouse gases (Kolbert, 2014, pp. 102-144). The origin of the carbon in these enormous quantities is not yet known, but one possibility is the sudden release of methane gases stored in permafrost. This is also a possibility in our current situation. If so, extinction would be a natural side effect of human processes. There is also a real but smaller possibility of what is called “runaway greenhouse,” in which the earth’s temperature becomes like Venus’ surface temperature of 800o The threat of extinction here is not entirely sudden. The threat is, if anything, worse. Changes in the atmosphere--mainly increases in the concentration of greenhouse gases in the atmosphere-- can start processes that can’t be reversed but which take long periods of time to manifest. “Runaway greenhouse” may be the worst. Once again, suggestions of technological solutions to this situation should be treated with some skepticism. These proposals are often made by technophiles ignoring all the evidence that technology is very much subject to unanticipated side effects and unanticipated failures. What has happened concerning the depletion of the ozone layer should be a clear warning against the facile uses of technology through geoengineering to alter the makeup of the entire planet and its atmosphere. The complicating factor in assessing extinction likelihood from climate change is corporations, especially American fossil fuel corporations such as Exxon-Mobil and Shell. Through their contributions, they have been able to delay legislation ameliorating global warming and climate change. As mentioned before, recently released papers from Exxon-Mobil show that the corporation did accept the scientific findings about global warming and climate change. But they concluded that maintaining their profits was more important than acting to ameliorate climate change. Modern Technology and Human Extinction 140 Since it is not a matter of getting corporations to appreciate scientific facts, the chances of extinction from climate change are good. To ameliorate climate change, it is important to leave a high percentage of fossil fuel reserves in the ground. But this is exactly what a profit-seeking fossil fuel corporation cannot do. One can still hope that because fossil fuel corporations are made up of individuals, increasingly bad consequences of global warming and climate change will change their minds about profits. But because of the lag in effects, this mind change will probably be too late. So I conclude we will probably see something like the effects of the Permian extinction perhaps some time around 2050. (The Permian extinction was 95% extinction of all species.) This assumes the release of methane from the arctic will take place around then.

### DA – Innovation

#### Space Commercialization drives Tech Innovation in the Status Quo – it provides a unique impetus.

Hampson 17 Joshua Hampson 1-25-2017 “The Future of Space Commercialization” <https://republicans-science.house.gov/sites/republicans.science.house.gov/files/documents/TheFutureofSpaceCommercializationFinal.pdf> (Security Studies Fellow at the Niskanen Center)//Elmer

The size of the space economy is far larger than many may think. In 2015 alone, the global market amounted to $323 billion. Commercial infrastructure and systems accounted for 76 percent of that 9 total, with satellite television the largest subsection at $95 billion. The global space launch market’s 10 11 share of that total came in at $6 billion dollars. It can be hard to disaggregate how space benefits 12 particular national economies, but in 2009 (the last available report), the Federal Aviation Administration (FAA) estimated that commercial space transportation and enabled industries generated $208.3 billion in economic activity in the United States alone. Space is not just about 13 satellite television and global transportation; while not commercial, GPS satellites also underpin personal navigation, such as smartphone GPS use, and timing data used for Internet coordination.14 Without that data, there could be problems for a range of Internet and cloud-based services.15 There is also room for growth. The FAA has noted that while the commercial launch sector has not grown dramatically in the last decade, there are indications that there is latent demand. This 16 demand may catalyze an increase in launches and growth of the wider space economy in the next decade. The Satellite Industry Association’s 2015 report highlighted that their section of the space economy outgrew both the American and global economies. The FAA anticipates that growth to 17 continue, with expectations that small payload launch will be a particular industry driver.18 In the future, emerging space industries may contribute even more the American economy. Space tourism and resource recovery—e.g., mining on planets, moons , and asteroids—in particular may become large parts of that industry. Of course, their viability rests on a range of factors, including costs, future regulation, international problems, and assumptions about technological development. However, there is increasing optimism in these areas of economic production. But the space economy is not just about what happens in orbit, or how that alters life on the ground. The growth of this economy can also contribute to new innovations across all walks of life. Technological Innovation Innovation is generally hard to predict; some new technologies seem to come out of nowhere and others only take off when paired with a new application. It is difficult to predict the future, but it is reasonable to expect that a growing space economy would open opportunities for technological and organizational innovation. In terms of technology, the difficult environment of outer space helps incentivize progress along the margins. Because each object launched into orbit costs a significant amount of money—at the moment between $27,000 and $43,000 per pound, though that will likely drop in the future —each 19 reduction in payload size saves money or means more can be launched. At the same time, the ability to fit more capability into a smaller satellite opens outer space to actors that previously were priced out of the market. This is one of the reasons why small, affordable satellites are increasingly pursued by companies or organizations that cannot afford to launch larger traditional satellites. These small 20 satellites also provide non-traditional launchers, such as engineering students or prototypers, the opportunity to learn about satellite production and test new technologies before working on a full-sized satellite. That expansion of developers, experimenters, and testers cannot but help increase innovation opportunities. Technological developments from outer space have been applied to terrestrial life since the earliest days of space exploration. The National Aeronautics and Space Administration (NASA) maintains a website that lists technologies that have spun off from such research projects. Lightweight 21 nanotubes, useful in protecting astronauts during space exploration, are now being tested for applications in emergency response gear and electrical insulation. The need for certainty about the resiliency of materials used in space led to the development of an analytics tool useful across a range of industries. Temper foam, the material used in memory-foam pillows, was developed for NASA for seat covers. As more companies pursue their own space goals, more innovations will likely come from the commercial sector. Outer space is not just a catalyst for technological development. Satellite constellations and their unique line-of-sight vantage point can provide new perspectives to old industries. Deploying satellites into low-Earth orbit, as Facebook wants to do, can connect large, previously-unreached swathes of 22 humanity to the Internet. Remote sensing technology could change how whole industries operate, such as crop monitoring, herd management, crisis response, and land evaluation, among others. 23 While satellites cannot provide all essential information for some of these industries, they can fill in some useful gaps and work as part of a wider system of tools. Space infrastructure, in helping to change how people connect and perceive Earth, could help spark innovations on the ground as well. These innovations, changes to global networks, and new opportunities could lead to wider economic growth.

#### Strong Innovation solves Extinction.

Matthews 18 Dylan Matthews 10-26-2018 “How to help people millions of years from now” <https://www.vox.com/future-perfect/2018/10/26/18023366/far-future-effective-altruism-existential-risk-doing-good> (Co-founder of Vox, citing Nick Beckstead @ Rutgers University)//Re-cut by Elmer

If you care about improving human lives, you should overwhelmingly care about those quadrillions of lives rather than the comparatively small number of people alive today. The 7.6 billion people now living, after all, amount to less than 0.003 percent of the population that will live in the future. It’s reasonable to suggest that those quadrillions of future people have, accordingly, hundreds of thousands of times more moral weight than those of us living here today do. That’s the basic argument behind Nick Beckstead’s 2013 Rutgers philosophy dissertation, “On the overwhelming importance of shaping the far future.” It’s a glorious mindfuck of a thesis, not least because Beckstead shows very convincingly that this is a conclusion any plausible moral view would reach. It’s not just something that weird utilitarians have to deal with. And Beckstead, to his considerable credit, walks the walk on this. He works at the Open Philanthropy Project on grants relating to the far future and runs a charitable fund for donors who want to prioritize the far future. And arguments from him and others have turned “long-termism” into a very vibrant, important strand of the effective altruism community. But what does prioritizing the far future even mean? The most literal thing it could mean is preventing human extinction, to ensure that the species persists as long as possible. For the long-term-focused effective altruists I know, that typically means identifying concrete threats to humanity’s continued existence — like unfriendly artificial intelligence, or a pandemic, or global warming/out of control geoengineering — and engaging in activities to prevent that specific eventuality. But in a set of slides he made in 2013, Beckstead makes a compelling case that while that’s certainly part of what caring about the far future entails, approaches that address specific threats to humanity (which he calls “targeted” approaches to the far future) have to complement “broad” approaches, where instead of trying to predict what’s going to kill us all, you just generally try to keep civilization running as best it can, so that it is, as a whole, well-equipped to deal with potential extinction events in the future, not just in 2030 or 2040 but in 3500 or 95000 or even 37 million. In other words, caring about the far future doesn’t mean just paying attention to low-probability risks of total annihilation; it also means acting on pressing needs now. For example: We’re going to be better prepared to prevent extinction from AI or a supervirus or global warming if society as a whole makes a lot of scientific progress. And a significant bottleneck there is that the vast majority of humanity doesn’t get high-enough-quality education to engage in scientific research, if they want to, which reduces the **odds that we have enough trained scientists to come up with the breakthroughs** we need as a civilization to survive and thrive. So maybe one of the best things we can do for the far future is to improve school systems — here and now — to harness the group economist Raj Chetty calls “lost Einsteins” (potential innovators who are thwarted by poverty and inequality in rich countries) and, more importantly, the hundreds of millions of kids in developing countries dealing with even worse education systems than those in depressed communities in the rich world. What if living ethically for the far future means living ethically now? Beckstead mentions some other broad, or very broad, ideas (these are all his descriptions): Help make computers faster so that people everywhere can work more efficiently Change intellectual property law so that technological innovation can happen more quickly Advocate for open borders so that people from poorly governed countries can move to better-governed countries and be more productive Meta-research: improve incentives and norms in academic work to better advance human knowledge Improve education Advocate for political party X to make future people have values more like political party X ”If you look at these areas (economic growth and technological progress, access to information, individual capability, social coordination, motives) a lot of everyday good works contribute,” Beckstead writes. “An implication of this is that a lot of everyday good works are good from a broad perspective, even though hardly anyone thinks explicitly in terms of far future standards.” Look at those examples again: It’s just a list of what normal altruistically motivated people, not effective altruism folks, generally do. Charities in the US love talking about the lost opportunities for innovation that poverty creates. Lots of smart people who want to make a difference become scientists, or try to work as teachers or on improving education policy, and lord knows there are plenty of people who become political party operatives out of a conviction that the moral consequences of the party’s platform are good. All of which is to say: Maybe effective altruists aren’t that special, or at least maybe we don’t have access to that many specific and weird conclusions about how best to help the world. If the far future is what matters, and generally trying to make the world work better is among the best ways to help the far future, then effective altruism just becomes plain ol’ do-goodery.

### 1NC Fairness

#### A] Interpretation: The Aff must defend the evaluation of private entities appropriating space.

#### *This does not require the use of any particular style or type of evidence — only that the topic and a government policy should determine the debate’s subject matter.*

**Appropriate - To take something you don’t own without permission**

**Unjust - Something unethical**

#### B] Violation: They defend the resolution through the metaphysics of incompleteness

#### C] Net Benefits

#### FIRST IS ENGAGEMENT -- Debate requires a specific point of difference in order to promote effective exchange—stasis and limits are key to engagement.

**Steinberg and Freeley 13:** David, Lecturer in Communicatio22n studies and rhetoric. Advisor to Miami Urban Debate League. Director of Debate at U Miami, Former President of CEDA. And \*\* Austin, attorney who focuses on criminal, personal injury and civil rights law, JD, Suffolk University, Argumentation and Debate, Critical Thinking for Reasoned Decision Making, 121-4

Debate is a means of settling differences, so **there must be a controversy**, a difference of opinion or a conflict of interest **before there can be a debate. If** everyone is in agreement on a feet or value or policy, there is no need or opportunity for debate; the matter can be settled by unanimous consent. **Thus, for example, it would be pointless to attempt to debate "Resolved: That two plus two equals four,” because there is simply no controversy** about this statement. Controversy is an essential prerequisite of debate. Where there is no clash of ideas, proposals, interests, or expressed positions of issues, there is no debate. Controversy invites decisive choice between competing positions. **Debate cannot produce effective decisions without clear identification of a question** or questions **to be answered**. For example, general argument may occur about the broad topic of illegal immigration. How many illegal immigrants live in the United States? What is the impact of illegal immigration and immigrants on our economy? What is their impact on our communities? Do they commit crimes? Do they take jobs from American workers? Do they pay taxes? Do they require social services? Is it a problem that some do not speak English? Is it the responsibility of employers to discourage illegal immigration by not hiring undocumented workers? Should they have the opportunity to gain citizenship? Does illegal immigration pose a security threat to our country? Do illegal immigrants do work that American workers are unwilling to do? Are their rights as workers and as human beings at risk due to their status? Are they abused by employers, law enforcement, housing, and businesses? How are their families impacted by their status? What is the moral and philosophical obligation of a nation state to maintain its borders? Should we build a wall on the Mexican border, establish a national identification card, or enforce existing laws against employers? Should we invite immigrants to become U.S. citizens? Surely you can think of many more concerns to be addressed by a conversation about the topic area of illegal immigration. Participation in this “debate” is likely to be emotional and intense. However, it is not likely to be productive or useful without focus on a particular question and identification of a line demarcating sides in the controversy. To be discussed and resolved effectively, controversies are best understood when seated clearly such that all parties to the debate share an understanding about the objective of the debate. This enables focus on substantive and objectively identifiable issues facilitating comparison of competing argumentation leading to effective decisions. Vague understanding results in unfocused deliberation and poor decisions, general feelings of tension without opportunity for resolution, frustration, and emotional distress, as evidenced by the failure of the U.S. Congress to make substantial progress on the immigration debate. Of course, arguments may be presented without disagreement. For example, claims are presented and supported within speeches, editorials, and advertisements even without opposing or refutational response. Argumentation occurs in a range of settings from informal to formal, and may not call upon an audience or judge to make a forced choice among competing claims. Informal discourse occurs as conversation or panel discussion without demanding a decision about a dichotomous or yes/no question. However, by definition, debate requires "reasoned judgment on a proposition. The proposition is a statement about which competing advocates will offer alternative (pro or con) argumentation calling upon their audience or adjudicator to decide. **The proposition provides focus for the discourse and** guides the decision process. Even when a decision will be made through a process of compromise, it is important to identify the beginning positions of competing advocates to begin negotiation and movement toward a center, or consensus position. It is frustrating and usually unproductive to attempt to make a decision when deciders are unclear as to what the decision is about. The proposition may be implicit in some applied debates (“Vote for me!”); however, when a vote or consequential decision is called for (as in the courtroom or in applied parliamentary debate) [I]t is essential that the proposition be explicitly expressed (“the defendant is guilty!”). In academic debate, the proposition provides e**ssential guidance for the preparation of the debaters prior to the debate, the case building and discourse presented during the debate, and the decision to be made by the** debate **judge** after the debate. Someone disturbed by the problem of a growing underclass of poorly educated, socially disenfranchised youths might observe, “Public schools are doing a terrible job! They' are overcrowded, and many teachers are poorly qualified in their subject areas. Even the best teachers can do little more than struggle to maintain order in their classrooms." That same concerned citizen, facing a complex range of issues, might arrive at an unhelpful decision, such as "We ought to do something about this” or, worse, “It’s too complicated a problem to deal with." Groups of concerned citizens worried about the state of public education could join together to express their frustrations, anger, disillusionment, and emotions regarding the schools, but without a focus for their discussions, they could easily agree about the sorry state of education without finding points of clarity or potential solutions. A gripe session would follow. But if a precise question is posed—such as “What can be done to improve public education?”—then a more profitable area of discussion is opened up simply by placing a focus on the search for a concrete solution step. One or more judgments can be phrased in the form of debate propositions, motions for parliamentary debate, or bills for legislative assemblies, The statements "Resolved: That the federal government should implement a program of charter schools in at-risk communities” and “Resolved; That the state of Florida should adopt a school voucher program" more clearly identify specific ways of dealing with educational problems in a manageable form, suitable for debate. They provide specific policies to be investigated and aid discussants in identifying points of difference. This focus contributes to better and more informed decision making with the potential for better results. In academic debate, it provides better depth of argumentation and enhanced opportunity for reaping the educational benefits of participation. In the next section, we will consider the challenge of framing the proposition for debate, and its role in the debate. **To have a productive debate, which facilitates effective decision making by directing and placing limits** **on the decision to be made, the basis for argument should be clearly defined.**

#### This outweighs other impacts

#### A] It controls the internal link to any of their offense – their method is only valuable if it is procedurally debatable – they foster a monologue, not a dialogue

#### B] They force the neg to generics like Cap, Word PICs, or Afropess against their position, which moots the entire 1AC and makes the discussion meaningless

#### C] Deliberative debate models impart skills vital to respond to social problems

Christian O. **Lundberg 10** Professor of Communications @ University of North Carolina, Chapel Hill, “Tradition of Debate in North Carolina” in Navigating Opportunity: Policy Debate in the 21st Century By Allan D. Louden, p. 311

The second major problem with the critique that identifies a naivety in articulating debate and democracy is that it presumes that the primary pedagogical outcome of debate is speech capacities. But **the democratic capacities built by debate are not limited to speech—as indicated earlier, debate builds capacity for critical thinking, analysis of public claims, informed decision making, and better public judgment**. If the picture of modem political life that underwrites this critique of debate is a pessimistic view of increasingly labyrinthine and bureaucratic administrative politics, rapid scientific and technological change outpacing the capacities of the citizenry to comprehend them, and ever-expanding insular special-interest- and money-driven politics, it is a puzzling solution, at best, to argue that these conditions warrant giving up on debate. If democracy is open to rearticulation, it is open to rearticulation precisely because as the challenges of modern political life proliferate, the citizenry's capacities can change, which is one of the primary reasons that theorists of democracy such as Ocwey in The Public awl Its Problems place such a high premium on education (Dewey 1988,63, 154). **Debate provides an indispensible form of education in the modem articulation of democracy because it builds precisely the skills that allow the citizenry to research and be informed about policy decisions that impact them**, to sort through and evaluate the evidence for and relative merits of arguments for and against a policy in an increasingly information-rich environment, and to prioritize their time and political energies toward policies that matter the most to them. The merits of debate as a tool for building democratic capacity-building take on a special significance in the context of information literacy. John Larkin (2005, HO) argues that one of the primary failings of modern colleges and universities is that they have not changed curriculum to match with the challenges of a new information environment. This is a problem for the course of academic study in our current context, but perhaps more important, argues Larkin, for the future of a citizenry that will need **to make evaluative choices against an increasingly complex and multimediated information environment** (ibid-). Larkin's study tested the benefits of debate participation on information-literacy skills and concluded that in-class debate participants reported significantly higher self-efficacy ratings of their ability to navigate academic search databases and to effectively search and use other Web resources: To analyze the self-report ratings of the instructional and control group students, we first conducted a multivariate analysis of variance on all of the ratings, looking jointly at the effect of instmction/no instruction and debate topic . . . that it did not matter which topic students had been assigned . . . students in the Instnictional [debate) group were significantly more confident in their ability to access information and less likely to feel that they needed help to do so----These findings clearly indicate greater self-efficacy for online searching among students who participated in (debate).... These results constitute strong support for the effectiveness of the project on students' self-efficacy for online searching in the academic databases. There was an unintended effect, however: After doing ... the project, instructional group students also felt more confident than the other students in their ability to get good information from Yahoo and Google. It may be that the library research experience increased self-efficacy for any searching, not just in academic databases. (Larkin 2005, 144) Larkin's study substantiates Thomas Worthcn and Gaylcn Pack's (1992, 3) claim that debate in the college classroom plays a critical role in fostering the kind of problem-solving skills demanded by the increasingly rich media and information environment of modernity. Though their essay was written in 1992 on the cusp of the eventual explosion of the Internet as a medium, Worthcn and Pack's framing of the issue was prescient: the primary question facing today's student has changed from how to best research a topic to the crucial question of learning how to best evaluate which arguments to cite and rely upon from an easily accessible and veritable cornucopia of materials. There are, without a doubt, a number of important criticisms of employing debate as a model for democratic deliberation. But cumulatively, the evidence presented here warrants strong support for expanding debate practice in the classroom as a technology for enhancing democratic deliberative capacities. The unique combination of critical thinking skills, research and information processing skills, oral communication skills, and capacities for listening and thoughtful, open engagement with hotly contested issues argues for debate as a crucial component of a rich and vital democratic life. In-class debate practice both aids students in achieving the best goals of college and university education, and serves as an unmatched practice for creating thoughtful, engaged, open-minded and self-critical students who are open to the possibilities of meaningful political engagement and new articulations of democratic life. Expanding this practice is crucial, if only because **the more we produce citizens that can actively and effectively engage** **the political process, the more likely we are to produce** **revisions** **of democratic life that are necessary if democracy is not only to survive, but to thrive. Democracy faces a myriad of challenges, including: domestic and international issues of class, gender, and racial justice;** wholesale environmental destruction and the potential for rapid climate change; emerging threats to international stability in the foreseen future.

#### SECOND IS PROCEDURAL FAIRNESS – their position explodes ground, limits, and predictability. They can defend anything from Wilderson to Baudrillard, or uncontestable statements like one plus one equals two, to “racism is bad” – the neg can’t predict these, nor answer them if the ground is slanted to one side.

#### This outweighs other impacts

**A] It skews your evaluation of the round – if their impacts seem true, it’s because I couldn’t answer them – if someone broke another person’s computer, the judge couldn’t assess the round fairly**

#### B] Fair starting points are key to dialogue.

**Galloway 7:** Galloway 7—Samford Comm prof (Ryan, Contemporary Argumentation and Debate, Vol. 28, 2007)

**Debate as a dialogue** sets an argumentative table, where **all parties receive a** relatively **fair opportunity to voice their position.** Anything that fails to allow participants to have their position articulated denies one side of the argumentative table a fair hearing. The affirmative side is set by the topic and fairness requirements. While affirmative teams have recently resisted affirming the topic, in fact, the topic selection process is rigorous, **taking the relative ground of each topic as its central point of departure.** Setting the affirmative reciprocally sets the negative. The negative crafts approaches to the topic consistent with affirmative demands. The negative crafts disadvantages, counter-plans, and critical arguments premised on the arguments that the topic allows for the affirmative team. **According to fairness** norms, each side sits at a relatively balanced argumentative table. When one side takes more than its share, competitive equity suffers. However, it also undermines the respect due to the other involved in the dialogue. **When one side excludes the other, it** fundamentally **denies the personhood of the other** participant (Ehninger, 1970, p. 110). A pedagogy of debate as dialogue takes this respect as a fundamental component. **A desire to be fair** is a fundamental condition of a dialogue that **takes the form of a demand for equality** of voice. Far from being a banal request for links to a disadvantage, **fairness is a demand** for respect, a demand **to be heard**, a demand that a voice **backed by** literally months upon months of preparation, **research, and critical thinking** not be silenced. Affirmative cases that suspend basic fairness norms operate to exclude particular negative strategies. Unprepared, one side comes to the argumentative table **unable to** meaningfully **participate in a dialogue**. They are unable to “understand what ‘went on…’” and are left to the whims of time and power (Farrell, 1985, p. 114). Hugh Duncan furthers this line of reasoning: Opponents not only tolerate but honor and respect each other because in doing so they enhance their own chances of thinking better and reaching sound decisions. **Opposition is necessary because it sharpens thought** in action. We assume that argument, discussion, and talk, among free an informed people who subordinate decisions of any kind, because it is only through such discussion that we **reach agreement which binds us to a common cause**…If we are to be equal…relationships among equals must find expression in many formal and informal institutions (Duncan, 1993, p. 196-197). **Debate compensates for the exigencies of the world by offering a framework that maintains equality for the sake of the conversation** (Farrell, 1985, p. 114). For example, an affirmative case on the 2007-2008 college topic might defend neither state nor international action in the Middle East, and yet claim to be germane to the topic in some way. The case essentially denies the arguments that state action is oppressive or that actions in the international arena are philosophically or pragmatically suspect. Instead of allowing for the dialogue to be modified by the interchange of the affirmative case and the negative response, the affirmative subverts any meaningful role to the negative team, preventing them from offering effective “counter-word” and undermining the value of a meaningful exchange of speech acts. Germaneness and **other substitutes for topical action do not accrue the dialogical benefits of topical advocacy.**

#### THIRD IS INEVITABILITY, Exclusion’s inevitable in debate – we can’t debate every possible position – framework isn’t violent

**Anderson:** — Amanda Anderson, Caroline Donovan Professor of English Literature and Department Chair at Johns Hopkins University, Senior Fellow at the School of Criticism and Theory at Cornell University, holds a Ph.D. in English from Cornell University, 2006 (“Reply to My Critic(s),” Criticism, Volume 48, Number 2, Spring, Available Online to Subscribing Institutions via Project MUSE, p. 285-287)

Let's first examine the claim that my book is "unwittingly" inviting a resurrection of the "Enlightenment-equals-totalitarianism position." How, one wonders, could a book promoting argument and debate, and promoting reason-giving practices as a kind of common ground that should prevail over assertions of cultural authenticity, somehow come to be seen as a dangerous resurgence of bad Enlightenment? Robbins tells us why: I want "argument on my own terms"—that [End Page 285] is, I want to impose reason on people, which is a form of power and oppression. But what can this possibly mean? **Arguments stand or fall based on whether they are successful and persuasive,** even an argument in favor of argument. **It simply is not the case that an argument in favor of the importance of reasoned debate to liberal democracy is tantamount to oppressive power. To assume so is to assume, in the manner of Theodor Adorno and Max Horkheimer, that reason is itself violent, inherently, and that it will always mask power and enforce exclusions.** But to assume this is to assume the very view of Enlightenment reason that Robbins claims we are "thankfully" well rid of. (I leave to the side the idea that any individual can proclaim that a debate is over, thankfully or not.) But perhaps Robbins will say, "I am not imagining that your argument is directly oppressive, but that what you argue for would be, if it were enforced." Yet my book doesn't imagine or suggest it is enforceable; I simply argue in favor of, I promote, an ethos of argument within a liberal democratic and proceduralist framework. As much as Robbins would like to think so, neither I nor the books I write can be cast as an arm of the police. Robbins wants to imagine a far more direct line of influence from criticism to political reality, however, and this is why it can be such a bad thing to suggest norms of argument. Watch as the gloves come off: Faced with the prospect of submitting to her version of argument—roughly, Habermas's version—and of being thus authorized to disagree only about other, smaller things, some may feel that there will have been an end to argument, or an end to the arguments they find most interesting. With current events in mind, I would be surprised if there were no recourse to the metaphor of a regular army facing a guerilla insurrection, hinting that Anderson wants to force her opponents to dress in uniform, reside in well-demarcated camps and capitals that can be bombed, fight by the rules of states (whether the states themselves abide by these rules or not), and so on—in short, that she wants to get the battle onto a terrain where her side will be assured of having the upper hand. Let's leave to the side the fact that this is a disowned hypothetical criticism. (As in, "Well, okay, yes, those are my gloves, but those are somebody else's hands they will have come off of.") Because far more interesting, actually, is the sudden elevation of stakes. It is a symptom of the sorry state of affairs in our profession that it plays out repeatedly this tragicomic tendency to give a grandiose political meaning to every object it analyzes or confronts. We have evidence of how desperate the situation is when we see it in a critic as thoughtful as Bruce Robbins, where it emerges as the need to allegorize a point about an argument in such a way that it gets cast as the equivalent of war atrocities. It is especially ironic in light of the fact that to the extent that I do give examples of the importance of liberal democratic proceduralism, I invoke the disregard of the protocols of international adjudication in the days leading up to the invasion of Iraq; I also speak [End Page 286] about concerns with voting transparency. **It is hard for me to see how my argument about proceduralism can be associated with the policies of the Bush administration when that administration has exhibited a flagrant disregard of democratic procedure and the rule of law. I** happen to think that a renewed focus on proceduralism is a timely venture, which is why I spend so much time discussing it in my final chapter. But I hasten to add that I am not interested in imagining that proceduralism is the sole political response to the needs of cultural criticism in our time: my goal in the book is to argue for a liberal democratic culture of argument, and to suggest ways in which argument is not served by trumping appeals to identity and charismatic authority. I fully admit that my examples are less political events than academic debates; for those uninterested in the shape of intellectual arguments, and eager for more direct and sustained discussion of contemporary politics, the approach will disappoint. Moreover, there will always be a tendency for a proceduralist to under-specify substance, and that is partly a principled decision, since the point is that agreements, compromises, and policies get worked out through the communicative and political process. My book is mainly concentrated on evaluating forms of arguments and appeals to ethos, both those that count as a form of trump card or distortion, and those that flesh out an understanding of argument as a universalist practice. There is an intermittent appeal to larger concerns in the political democratic culture, and that is because I see connections between the ideal of argument and the ideal of deliberative democracy. But there is clearly, and indeed necessarily, significant room for further elaboration here.

#### FOURTH IS JURISDICTION – the topic is a predefined issue we discuss – key to democracy and inclusion

**Nebel:** Nebel, Jake [Owner and Contributor, VBriefly] “The Priority of Resolutional Semantics” *VBriefly*. December 2014. RP

**Another deontological argument might appeal to legitimate authority. The NSDA is the only entity with the legitimate authority to determine the topics**. This process begins with a committee: anyone can sit in on the committee’s meetings and suggest topics on their website. **The process ends with a democratic voting procedure. Some philosophers believe that democratic procedures generate obligations to obey rules. This would yield an obligation to debate the resolution as worded.** And some philosophers believe that legitimate authorities can generate reasons that exclude (not merely outweigh) other considerations that would usually be relevant. If your teachers instruct you to do something, then you don’t get to weigh up the reasons for or against it; you just have to do it.3 Similarly, **although the fact that some proposition would be good to debate would usually be a reason to debate it**, or a reason for the NSDA to propose it and for debaters to vote for it, **that fact is irrelevant** and no longer a reason if that proposition is not the chosen resolution.

#### Jurisdiction outweighs other impacts

#### A] The social contract rule – debaters enter tournaments with contracts to debate a specific resolution

**Nebel writes:** Nebel, Jake [Owner and Contributor, VBriefly] “The Priority of Resolutional Semantics” *VBriefly*. December 2014. RP

**A second strategy denies that such pragmatic benefits are relevant. This** strategy **is** more **deontological**. One version of this strategy appeals to the importance of consent or agreement. **Suppose that you give your opponents prior notice that you’ll be affirming the September/October 2012 resolution** instead of the current one. There is a sense in which your affirmation of that resolution is now predictable: your opponents know, or are in a position to know, what you will be defending. **And suppose that the older resolution is conducive to better** (i.e., more fair and more educational) **debate**. Still, **it’s unfair of you to expect your opponents to follow suit**. Why? **Because they didn’t *agree* to debate that topic. They registered for a tournament whose invitation specified the current resolution**, not the Sept/Oct 2012 resolution or a free-for-all. **The “social contract” argument for topicality holds that accepting a tournament invitation constitutes implicit consent to debate the specified topic.** This claim might be contested, depending on what constitutes implicit consent. What is less contestable is this: given that *some* proposition must be debated in each round and that the tournament has specified a resolution, no one can reasonably reject a principle that requires everyone to debate the announced resolution as worded. This appeals to Scanlon’s contractualism. Someone who wishes to debate only the announced resolution has a strong claim against changing the topic, and no one has a stronger claim against debating the announced resolution (ignoring, for now, some possible exceptions to be discussed in the next subsection). So **it is unfair to expect your opponent to debate anything other than the announced resolution.** This unfairness is a constraint on the pursuit of education or other goods: it wrongs and is unjustifiable to your opponent.

#### B] Link turns all of their imapcts –if the neg had no idea they’d be debating a specific topic area, then obviously that discussion won’t be as productive.

#### SIXTH, topical version of the aff solves

#### D] Voting issue

#### They don’t get to weigh the case against framework

#### A] If we win that you preclude us from substantive engagement with the 1ac, then you will obviously win the case—means you can’t cross-apply case impacts or arguments to the other page since we indict your ability to read them in the first place

#### B] Framework is a procedural question – all of the claims of the 1AC are *substantive but not theoretical* – they can’t weigh those