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#### Interpretation: Topical affirmatives may only garner offense from the hypothetical implementation by governments that The appropriation of outer space by private entities is unjust

#### Resolved requires policy action

Louisiana State Legislature (<https://www.legis.la.gov/legis/Glossary.aspx>) Ngong

**Resolution**

**A legislative instrument** that generally is **used for** making declarations, **stating policies**, and making decisions where some other form is not required. A bill includes the constitutionally required enacting clause; a resolution **uses the term "resolved".** Not subject to a time limit for introduction nor to governor's veto. ( Const. Art. III, §17(B) and House Rules 8.11 , 13.1 , 6.8 , and 7.4 and Senate Rules 10.9, 13.5 and 15.1)

#### Appropriation

TIMOTHY JUSTIN TRAPP, JD Candidate @ UIUC Law, ’13, TAKING UP SPACE BY ANY OTHER MEANS: COMING TO TERMS WITH THE NONAPPROPRIATION ARTICLE OF THE OUTER SPACE TREATY UNIVERSITY OF ILLINOIS LAW REVIEW [Vol. 2013 No. 4]

The issues presented in relation to the nonappropriation article of the Outer Space Treaty should be clear.214 The ITU has, quite blatantly, created something akin to “property interests in outer space.”215 It allows nations to exclude others from their orbital slots, even when the nation is not currently using that slot.216 This is directly in line with at least one definition of outer-space appropriation.217 [\*\*Start Footnote 217\*\*Id. at 236 (“Appropriation of outer space, therefore, is ‘the exercise of exclusive control or exclusive use’ with a sense of permanence, which limits other nations’ access to it.”) (quoting Milton L. Smith, The Role of the ITU in the Development of Space Law, 17 ANNALS AIR & SPACE L. 157, 165 (1992)). \*\*End Footnote 217\*\*]The ITU even allows nations with unused slots to devise them to other entities, creating a market for the property rights set up by this regulation.218 In some aspects, this seems to effect exactly what those signatory nations of the Bogotá Declaration were trying to accomplish, albeit through different means.219

#### Topicality is key to limits and ground---redefining portions of the resolution permits endless reclarification AND creates incentives for avoidance---only aligning research with agent and mechanism solves.

#### Two impacts:

#### 1---Fairness---an unlimited, unpredictable topic disparately raises the research burden for the negative -- treat this is a sufficient win condition because fairness is the logical structure that undergirds all impacts AND controls any benefit to debate.

**Dascal and Knoll** ’**11** [Marcelo and Amnon; May 18th; former Professor of Philosophy at Tel Aviv University, B.A. in Philosophy from the University of Sao Paulo; former Professor of Philosophy at Tel Aviv University; Argumentation: Cognition and Community, "'Cognitive systemic dichotomization' in public argumentation and controversies," p. 20-25]

He opposes positions whose ‘exclusionist’ outlook rejects the normative approach to the political sphere on the grounds that “normative statements can never be subjected to a reasonable discussion” (ibid.: 2), because—he argues—the discussion of politics “is an area of vital interest to all of us and should clearly not be excluded from argumentative reasonableness” (ibid.: 3)—a view with which we are prone to agree. Nevertheless, he admits that in the present situation critical discussion is far from being systematically and successfully applied to that vital area: “In representative democracies, however, the out-comes of the political process tend to be predominantly the product of negotiations be-tween political leaders rather than the result of a universal and mutual process of deliberative disputation” (ibid.). Political debates, therefore, are ‘quasi-discussions’, i.e., “monologues calculated only to win the audience’s consent to one’s own views”, rather than ‘genuine discussions’, i.e., serious attempts to have an intellectual exchange, which is typical of critical discussions (ibid.). In order to overcome this situation, “democracy should always have promoted such a critical discussion of standpoints as a central aim. Only if this is the case can stimulating participation in political discourse enhance the quality of democracy" (ibid.). This can be achieved, however, only by following “the dialectical rules for argumentative discourse that make up a code of conduct for political discourse [and] are therefore of crucial importance to giving substance to the ideal of participatory democracy” (ibid.: 4); thereby fully acknowledging that “education in processing argumentation in a critical discussion is indispensable for a democratic society (van Eemeren 1995: 145-146).

The reasons provided for the failure of the adoption of the critical discussion model in reality ranges from a general allusion to human nature (“in real-life contexts, it has to be taken into account that human interaction is not always automatically 'naturally' and fully oriented toward the ideal of dialectical reasonableness "; van Eemeren 2010: 4) to specific political sphere argumentation handicaps (unwillingness of people “to subject their thinking to critical scrutiny”; “vested interest in particular outcome”; “inequality in power and resources; “different levels of critical skills”; and “a practical demand for an immediate settlement”; van Eemeren 2010: 4). Although these causes may have some explanatory value in some cases, in our opinion their modus operandi is not accounted for and, what is more important, they do not cover the full spectrum of challenges that the successful use of critical discussion in the public and political spheres must face, as we have seen (cf. sections 2 and 3).

No wonder that van Eemeren himself raises the question “whether maintaining the dialectical ideal of critical discussion in political and other real-life contexts is not utopian” (ibid.), to which he replies by admitting that "[t]he ideal of a critical discussion is by definition not a description of any kind of reality but sets a theoretical standard that can be used for heuristic, analytic and evaluative purpose” (ibid.). This ideal seems to be so inspiring that it remains valid as a pure theoretical ideal, “even if the argumentative discourse falls short of the dialectical ideal” (ibid.).

In the light of the substantial gap between the normative ideal and the actual practices of public and political argumentation that PD’s description and explanation provides, a number of doubts arise: Are there structural, rather than merely contingent obstacles in idealized critical discussion that prevents even its approximate use in the public sphere? Can a theory that claims to be a praxis based normative system fulfill its promise if it sets up a threshold that no one who tries to apply it to the public sphere can reach? Doesn’t the very fact that argumentation is excessively idealized in the model PD proposes cause the gap by distancing people concerned by public issues from argumentation at all? All these doubts suggest that a powerful structural phenomenon like the existence of CSDs in the public sphere is perhaps overlooked by PD and requires, for its overcoming, a radically different approach.

4.2 Discrepancies between the PD approach and reasonable argumentation in the public sphere

The discrepancies in question have to do with basic parameters relevant to every argumentative process, namely:

(A) The discussants’ goals and targets: what do they expect to achieve through the argumentation process and what is it capable of providing.

(B) The preconditions for initiating a critical discussion: what are the discussants presumed to know and accept of these preconditions.

(C) The argumentative process that is supposed to lead to the achievement of the discussants’ goals.

(D) The influence of context and agents on the argumentative process.

4.2.1 Goals

Assuming that argumentation is a voluntary endeavor, the parties are presumed to engage in it if and only if: (i) the process will serve their goals; (ii) these goals cannot be achieved by different, better means.

PD describes as follows the aim of engaging in an argumentative process:

Argumentation is basically aimed at resolving a difference of opinion about the acceptability of a standpoint by making an appeal to the other party's reasonableness. (van Eemeren 2010: 1, with reference to van Eemeren & Grootendorst 2004: 11-18)

The difference of opinion is resolved when the antagonist accepts the protagonist's viewpoint on the basis of the arguments advanced or when the protagonist abandons his viewpoint as a result of the critical responses of the antagonist. (van Eemeren 2010: 33)

Simply put, the basic assumption is that a critical discussion’s aim consists in putting forth a certain position by one of the parties for the critical examination of the other, who calls it into question. The latter undertakes to refute the former’s position, while its proponent is committed to defend it. Four stages (see below) are supposed to ensure a valid performance of the refutation and defense tasks. The essential point is that at the end of the four stages the parties clearly agree whether the proponent’s position has been refuted or not and, accordingly, change their position (either retracting it or withdrawing from his questioning). In ‘mixed’ disagreements, in which the antagonist not only questions but also puts forth an opposed position, the same process takes place sequentially, i.e., at first one side (A) attacks trying to refute the other’s (B) position, and after this stage is concluded, they switch roles and the second side (B) proceeds to attack the first (A) in the same fashion.

Regardless of whether the described process is indeed capable to yield a conclusive decision about the refutation of a position, and of whether the linearity of the refutation process makes sense, it is obvious that debates in the public sphere are for the most part ‘mixed’. Furthermore, in so far as these debates involve dichotomous positions (rather than just opposed ones), it is necessary that at the end of the PD process one of the parties accept the position of the other.

It is also worth noticing that, contrary to deliberative democracy approaches, which in some cases approve the attempt to reach agreement in a (public) debate as a form of justification of political systems, PD claims that it is not a consensus theory at all. Instead, it conceives itself as a theory based on Popper’s critical rationality, i.e., as having as its principal goal to provide each party with the means—i.e., refutation attempts—to test critically its position:

[T]he conception of reasonableness upheld in pragma-dialectics insights from critical rationalist epistemology and utilitarian ethics conjoin … The intersubjective acceptability we attribute to the procedure, which is eventually expected to lend conventional validity to the procedure, is primarily based on its instrumentality in doing the job it is intended to do: re-solving a difference of opinion. … This means that, philosophically speaking, the rationale for accepting the pragma-dialectical procedure is pragmatic—more precisely, utilitarian [italics in quoted text]. … However, based on Popper's falsification idea, this is a ‘negative’ and not ‘positive’, utilitarianism. … Rather than maximization of agreement, minimization of disagreement is to be aimed for. (van Eemeren 2010: 34)

The distinction between maximization of agreement and minimization of disagreement purports to stress that PD doesn’t view agreement as the suitable end of the process, but just as “an intermediate step on the way to new, and more advanced, disagreements” (van Eemeren 2010: 26n). Nevertheless, no explanation is given of how these “more advanced disagreements” are engendered as a part of the dynamics of the critical process, nor what is the role or value of such disagreements in the public sphere or elsewhere. This may be due to the fact that PD’s ‘critical discussion’ is not tuned to the generation of new positions or ideas but only to the testing of extant ones, thus echoing once again Popper, now in his focus on the justification rather than on the discovery of theories (see sections 4.2.4 and 5).

In any case, it is quite clear that the only practical result of the critical discussion à la PD of opposed positions on a public issue is to determine whether one discussant succeeded in refuting the other’s position, thus obtaining the adversary’s agreement, who will then share his/her position, at least for some time. In this respect, PD’s critical discussion is close to Habermas’s ‘reasonable argumentation’, whose aim is to reach consensus.15 In spite of the apparent difference between a critical examination of a position aiming at its refutation or at its acceptance, even van Eemeren admits, to some extent, their similarity. He points out that “the pragma-dialectical procedure deals only with ‘first order’ conditions for resolving differences of opinion on the merits by means of critical discussion” (van Eemeren 2010: 34), and stresses that there are ‘higher order’ conditions, ‘internal’ and ‘external’, that are “beyond the agent’s control”, conditions that are similar to Habermas’s “ideal speech conditions” (van Eemeren 2010: 35n). Anyhow, whether according to PD the main goal of the critical discussion process in the public alliance is to create the opportunity for refutation or for agreement (meaning that one of the discussants acknowledges that his position is wrong), the essential assumption of this process is that the participants in it in the public sphere (or elsewhere) must be aware that one of them holds a wrong position and will have to explicitly acknowledge this.

Is such a goal, especially when conceived as the ultimate aim of the proposed argumentative process, feasible and acceptable in the public sphere?

In our opinion, there are at least four reasons for arguing that it is a utopian, hence unacceptable goal, if one takes seriously what should be expected from argumentative practice and theory in the public sphere. First, because PD deserves a critique similar to the one leveled against the Popperian version of critical rationalism it espouses,16 which defends a theory of knowledge “without a knowing subject” (Popper 1972); obviously, such a-contextual position becomes even more problematic if applied to the public and political spheres, where it must operate in a context essentially involved with practical rationality. Second, due to its analogy with theories such as Habermas’s that were discussed in this section as well as in 2.2—an analogy that deserves additional criticism because, unlike Habermasianism, PD overlooks the relationship between the political and public context and argumentative practice. Third, because of PD’s total overlooking of the role of CSDs in public argumentation (cf. 4.2.2). And fourth, due to unilateral value judgments of positions in the public sphere, which lead to simplistic criteria of refutation or acceptance in a domain where complexity is the rule (cf. 2.1.1 and 4.2.3).

(ii) Let us admit, for the sake of argument, that the refutation goal as claimed by PD is central, feasible, acceptable, and useful in public argumentation. Aren’t there better ways to achieve this goal?

The refutation and defense moves stipulated by the PD critical discussion model include, on the one side, the antagonist’s critical remarks or demands and on the other, the proponent’s replies. We believe that it must be assumed that neither the critique nor the replies are previously known to the contenders, which is why they have an interest in engage in the argumentation process: presumably, the expression of both, counter-arguments and defensive-arguments, is good to both sides. In spite of its usefulness in certain situations, this kind of exchange does not amount to the full manifestation of the dialectical critical process, wherein the context and co-text of the dialectical exchange, as well as the cognitive interaction that takes place and evolves throughout the exchange, play a decisive role in the design and ‘inner’ justification of each of the participants’ moves. Argumentation strategies that take into account these resources and make full use of their potential are no doubt setting up another, broader span of goals for the argumentative process, and are more likely to achieve these goals more effectively than they certainly would achieve their PD more limited counterparts (cf. 4.2.4 and 5).

4.2.2 Preconditions

The ideal PD critical discussion can only be realized if some preconditions are satisfied. The most important ones are a) a clear-cut identification of the standpoint that provokes the disagreement, b) the decision of the parties to engage in a discussion, and c) the participants’ commitment to obey the procedural rules. As we shall see, these preconditions share a common assumption, which calls into question the feasibility of using critical discussion in the public sphere.

(A) This precondition assumes that it is possible to isolate rigorously the subject matter of a critical discussion, so as to conduct a focused discussion that makes use only of relevant arguments. This precondition is quite strict, for whenever both discussants defend contrary standpoints, their disagreement should be treated as two separate fully fledged discussions: “… if another discussion begins, it must go through the same stages again—from confrontation stage to concluding stage” (van Eemeren 2010: 10n).

(B) This precondition subordinates the decision to engage in the discussion to the evaluation that the discussants share enough common ground to pursue it adequately: “After the parties have decided that there is enough common ground to conduct a discussion …” (van Eemeren 2010: 33).

(C) This precondition stresses the ‘contractual’ character of a critical discussion, which requires explicit mutual commitments by the discussants. Its rationale is that without such commitments the aim of the critical discussion, i.e., the resolution of the difference of opinions, will not be achieved, which makes engaging in the discussion pointless: “There is no point in venturing to resolve a difference … if there is no mutual commitment to a common starting point, which may include procedural commitments as well as substantive agreement” (van Eemeren and Grootendorst 2004: 60).

These ‘first order’ preconditions, as they are labeled in PD (cf. van Eemeren 2010: 33), are the conditions that candidates to participate in a critical discussion must fulfill if they intend to do so and can afford it personally (a ‘second order’ condition) and politically (a ‘third order’ condition).17 In addition, the first order conditions demand from the prospective discussants a clear, distinct, and detailed picture of the scope of the discussion that they are about to engage in. This means not mixing up the various differences of opinion that the discussion may involve, and being able to separate them properly as the subject matter for independent discussions; a further requirement is the anticipated identification of the pieces of the ‘substantive agreement’ forming the starting point in order to ensure that they are sufficient for conducting the discussion up to a satisfactory closure.

#### 2---Clash---forfeiting government action sanctions retreat from controversy and forces the negative to concede solvency before winning a link -- clash is the necessary condition for distinguishing debate from discussion, but negation exists on a sliding scale -- that jumpstarts the process of critical thinking, reflexivity, and argument refinement.

#### 3---Movement Lawyering Skills – contingent, focused debates around locus points of difference are key to develop activists skills for political justice.

Archer 18, Deborah N. "Political Lawyering for the 21st Century." Denv. L. Rev. 96 (2018): 399. (Associate Professor of Clinical Law at NYU School of Law)//Elmer

Political justice lawyers must be able to break apart a systemic problem into manageable components. The complexity of social problems, can cause law students, and even experienced political lawyers, to become overwhelmed. In describing his work challenging United States military and economic interventions abroad, civil rights advocate and law professor Jules Lobel wrote of this process: “Our foreign-policy litigation became a sort of Sisyphean quest as we maneuvered through a hazy maze cluttered with gates. Each gate we unlocked led to yet another that blocked our path, with the elusive goal of judicial relief always shrouded in the twilight mist of the never-ending maze.”144 Pulling apart a larger, systemic problem into its smaller components can help elucidate options for advocacy. An instructive example is the use of excessive force by police officers against people of color. Every week seems to bring a new video featuring graphic police violence against Black men and women. Law students are frequently outraged by these incidents. But the sheer frequency of these videos and lack of repercussions for perpetrators overwhelm those students just as often. What can be done about a problem so big and so pervasive? To move toward justice, advocates must be able to break apart the forces that came together to lead to that moment: intentional discrimination, implicit bias, ineffective training, racial segregation, lack of economic opportunity, the over-policing of minority communities, and the failure to invest in non-criminal justice interventions that adequately respond to homelessness, mental illness, and drug addiction. None of these component problems are easily addressed, but breaking them apart is more manageable—and more realistic—than acting as though there is a single lever that will solve the problem. After identifying the component problems, advocates can select one and repeat the process of breaking down that problem until they get to a point of entry for their advocacy. 2. Identifying Advocacy Alternatives As discussed earlier, political justice lawyering embraces litigation, community organizing, interdisciplinary collaboration, legislative reform, public education, direct action, and other forms of advocacy to achieve social change. After parsing the underlying issues, lawyers need to identify what a lawyer can and should do on behalf of impacted communities and individuals, and this includes determining the most effective advocacy approach. Advocates must also strategize about what can be achieved in the short term versus the long term. The fight for justice is a marathon, not a sprint. Many law students experience frustration with advocacy because they expect immediate justice now. They have read the opinion in Brown v. Board of Education, but forget that the decision was the result of a decades-long advocacy strategy.145 Indeed, the decision itself was no magic wand, as the country continues to work to give full effect to the decision 70 years hence. Advocates cannot only fight for change they will see in their lifetime, they must also fight for the future.146 Change did not happen over night in Brown and lasting change cannot happen over night today. Small victories can be building blocks for systemic reform, and advocates must learn to see the benefit of short-term responsiveness as a component of long-term advocacy. Many lawyers subscribe to the American culture of success, with its uncompromising focus on immediate accomplishments and victories.147 However, those interested in social justice must adjust their expectations. Many pivotal civil rights victories were made possible by the seemingly hopeless cases that were brought, and lost, before them.148 In the fight for justice, “success inheres in the creation of a tradition, of a commitment to struggle, of a narrative of resistance that can inspire others similarly to resist.”149 Again, Professor Lobel’s words are instructive: “the current commitment of civil rights groups, women’s groups, and gay and lesbian groups to a legal discourse to legal activism to protect their rights stems in part from the willingness of activists in political and social movements in the nineteenth century to fight for rights, even when they realized the courts would be unsympathetic.”150 Professor Lobel also wrote about Helmuth James Von Moltke, who served as legal advisor to the German Armed Services until he was executed in 1945 by Nazis: “In battle after losing legal battle to protect the rights of Poles, to save Jews, and to oppose German troops’ war crimes, he made it clear that he struggled not just to win in the moment but to build a future.”151 3. Creating a Hierarchy of Values Advocates challenging complex social justice problems can find it difficult to identify the correct solution when one of their social justice values is in conflict with another. A simple example: a social justice lawyer’s demands for swift justice for the victim of police brutality may conflict with the lawyer’s belief in the officer’s fundamental right to due process and a fair trial. While social justice lawyers regularly face these dilemmas, law students are not often forced to struggle through them to resolution in real world scenarios—to make difficult decisions and manage the fallout from the choices they make in resolving the conflict. Engaging in complex cases can force students to work through conflicts, helping them to articulate and sharpen their beliefs and goals, forcing them to clearly define what justice means broadly and in the specific context presented. Lawyers advocating in the tradition of political lawyering anticipate the inevitable conflict between rights, and must seek to resolve these conflicts through a “hierarchy of values.”152 Moreover, in creating the hierarchy, the perspectives of those directly impacted and marginalized should be elevated “because it is in listening to and standing with the victims of injustice that the need for critical thinking and action become clear.”153 One articulation of a hierarchy of values asserts “people must be valued more than property. Human rights must be valued more than property rights. Minimum standards of living must be valued more than the privileged liberty of accumulated political, social and economic power. Finally, the goal of increasing the political, social, and economic power of those who are left out of the current arrangements must be valued more than the preservation of the existing order that created and maintains unjust privilege.”154 C. Rethinking the Role of the Clinical Law Professor: Moving From Expert to Colleague Law students can learn a new dimension of lawyering by watching their clinical law professor work through innovative social justice challenges alongside them, as colleagues. This is an opportunity not often presented in work on small cases where the clinical professor is so deeply steeped in the doctrine and process, the case is largely routine to her and she can predict what is to come and adjust supervision strategies accordingly.155 However, when engaged in political lawyering on complex and novel legal issues, both the student and the teacher may be on new ground that transforms the nature of the student-teacher relationship. A colleague often speaks about acknowledging the persona professors take on when they teach and how that persona embodies who they want to be in the classroom—essentially, whenever law professors teach they establish a character. The persona that a clinical professor adopts can have a profound effect on the students, because the character is the means by which the teacher subtly models for the student—without necessarily ever saying so— the professional the teacher holds herself to be and the student may yet become. In working on complex matters where the advocacy strategy is unclear, the clinical professor makes himself vulnerable by inviting students to witness his struggles as they work together to develop the most effective strategy. By making clear that he does not have all of the answers, partnering with his students to discover the answers, and sharing his own missteps along the way, a clinical law professor can reclaim opportunities to model how an experienced attorney acquires new knowledge and takes on new challenges that may be lost in smaller case representation.156 Clinical law faculty who wholeheartedly subscribe to the belief that professors fail to optimize student learning if students do not have primary control of a matter from beginning to end may view a decision to work in true partnership with students on a matter as a failure of clinical legal education. Indeed, this partnership model will inevitably impact student autonomy and ownership of the case.157 But, there is a unique value to a professor working with her student as a colleague and partner to navigate subject matter new to both student and professor.158 In this relationship, the professor can model how to exercise judgment and how to learn from practice: to independently learn new areas of law; to consult with outside colleagues, experts in the field, and community members without divulging confidential information; and to advise a client in the midst of ones own learning process.159 III. A Pedagogical Course Correction “If it offends your sense of justice, there’s a cause of action.” - Florence Roisman, Professor, Indiana University School of Law160 In response to the shifts in my students’ perspectives on racism and systemic discrimination, their reluctance to tackle systemic problems, their conditioned belief that strategic litigation should be a tool of last resort, and my own discomfort with reliance on small cases in my clinical teaching, I took a step back in my own practice. How could I better teach my students to be champions for justice even when they are overwhelmed by society’s injustice; to challenge the complex and systemic discrimination strangling minority communities, and to approach their work in the tradition of political lawyering. I reflected not only on my teaching, but also on my experiences as a civil rights litigator, to focus on what has helped me to continue doing the work despite the frustrations and difficulties. I realized I was spending too much time teaching my students foundational lawyering skills, and too little time focused on the broader array of skills I knew to be critical in the fight for racial justice. We regularly discussed systemic racism during my clinic seminars in order to place the students’ work on behalf of their clients within a larger context. But by relying on carefully curated small cases I was inadvertently desensitizing my students to a lawyer’s responsibility to challenge these systemic problems, and sending the message that the law operates independently from this background and context. I have an obligation to move beyond teaching my students to be “good soldiers for the status quo” to ensuring that the next generation is truly prepared to fight for justice.161 And, if my teaching methods are encouraging the reproduction of the status quo it is my obligation to develop new interventions.162 Jane Aiken’s work on “justice readiness” is instructive on this point. To graduate lawyers who better understand their role in advancing justice, Jane Aiken believes clinics should move beyond providing opportunities for students to have a social justice experience to promoting a desire and ability to do justice.163 She suggests creating disorienting moments by selecting cases where students have no outside authority on which to rely, requiring that they draw from their own knowledge base and values to develop a legal theory.164 Disorienting moments give students: experiences that surprise them because they did not expect to experience what they experienced. This can be as simple as learning that the maximum monthly welfare benefit for a family of four is about $350. Or they can read a [ ] Supreme Court case that upheld Charles Carlisle’s conviction because a wyer missed a deadline by one day even though the district court found there was insufficient evidence to prove his guilt. These facts are often disorienting. They require the student to step back and examine why they thought that the benefit amount would be so much more, or that innocence would always result in release. That is an amazing teaching moment. It is at this moment that we can ask students to examine their own privilege, how it has made them assume that the world operated differently, allowing them to be oblivious to the indignities and injustices that occur every day.165 Giving students an opportunity to “face the fact that they cannot rely on ‘the way things are’ and meet the needs of their clients” is a powerful approach to teaching and engaging students.166 But, complex problems call for larger and more sustained disorienting moments. Working with students on impact advocacy in the model of political lawyering provides a range of opportunities to immerse students in disorienting moments. A. Immersing Students in “Disorienting Moments”: Race, Poverty, and Pregnancy Today, I try to immerse my students in disorienting moments to make them justice ready and move them in the direction of political lawyering. My clinic docket has always included a small number of impact litigation matters. However, in the past these cases were carefully screened to ensure that they involved discrete legal issues and client groups. In addition, our representation always began after our outside co-counsel had already conducted an initial factual investigation, identified the core legal issues, and developed an overall advocacy strategy, freeing my students from these responsibilities. Now, my clinic takes on impact matters at earlier stages where the strategies are less clear and the legal questions are multifaceted and ill- defined. This mirrors the experiences of practicing social justice lawyers, who faced with an injustice, must discover the facts, identify the legal claims, develop strategy, cultivate allies, and ultimately determine what can be done—with the knowledge that “nothing” is not an option. This approach provides students with the space to wrestle with larger, systemic issues in a structured and supportive educational environment, taking on cases that seem difficult to resolve and working to bring some justice to that situation. They are also gaining experience in many of the fundamentals of political lawyering advocacy. Recently, my students began work on a new case. Several public and private hospitals in low-income New York City neighborhoods are drug testing pregnant women or new mothers without their knowledge or informed consent. This practice reflects a disturbing convergence between racial and economic disparities, and can have a profound impact on the lives of the poor women of color being tested at precisely the time when they are most in need of support. We began our work when a community organization reached out to the clinic and spoke to us about complaints that hospitals around New York City were regularly testing pregnant women—almost exclusively women of color—for drug use during prenatal check ups, during the chaos and stress of labor and delivery, or during post-delivery. The hospitals report positive test results to the City’s Administration for Children’s Services (“ACS”), which is responsible for protecting children from abuse and neglect, for further action.167 Most of the positive tests are for marijuana use. After a report is made, ACS commences an investigation to determine whether child abuse or neglect has taken place, and these investigations trigger inquiries into every aspect of a family’s life. They can lead to the institution of child neglect proceedings, and potentially to the temporary or permanent removal of children from the household. Even where that extreme result is avoided, an ACS investigation can open the door to the City’s continued, and potentially unwelcome, involvement in the lives of these families. These policies reflect deeply inequitable practices. Investigating a family after a positive drug test is not necessarily a bad thing. After all, ACS offers a number of supportive services that can help stabilize and strengthen vulnerable families. And of course, where children’s safety is at risk, removal may sometimes be the appropriate result. However, hospitals do not conduct regular drug tests of mothers in all New York City communities. Private hospitals in wealthy areas rarely test pregnant women or new mothers for drug misuse. In contrast, at hospitals serving poor women, drug testing is routine. Race and class should not determine whether such testing, and the consequences that result, take place. Investigating the New York City drug-testing program immersed the students in disorienting moments at every stage of their work. During our conversations, the students regularly expressed surprise and discomfort with the hospitals’ practices. They were disturbed that public hospitals— institutions on which poor women and women of color rely for something as essential as health care—would use these women’s pregnancy as a point of entry to control their lives.168 They struggled to explain how the simple act of seeking medical care from a hospital serving predominantly poor communities could deprive patients of the respect, privacy, and legal protections enjoyed by pregnant women in other parts of the City. And, they were shocked by the way institutions conditioned poor women to unquestioningly submit to authority.169 Many of the women did not know that they were drug tested until the hospital told them about the positive result and referred them to ACS. Still, these women were not surprised: that kind of disregard, marginalization, and lack of consent were a regular aspect of their lives as poor women of color. These women were more concerned about not upsetting ACS than they were about the drug testing. That so many of these women could be resigned to such a gross violation of their rights was entirely foreign to most of my students. B. Advocacy in the Face of Systemic Injustice Although the students are still in the early stages of their work, they have already engaged in many aspects of political justice lawyering. They approached their advocacy focused on the essence of political lawyering— enabling poor, pregnant women of color who enjoy little power or respect to claim and enjoy their rights, and altering the allocation of power from government agencies and institutions back into the hands of these women. They questioned whose interests these policies and practices were designed to serve, and have grounded their work in a vision of an alternative societal construct in which their clients and the community are respected and supported. The clinic students were given an opportunity to learn about social, legal, and administrative systems as they simultaneously explored opportunities to change those systems. The students worked to identify the short and long term goals of the impacted women as well the goals of the larger community, and to think strategically about the means best suited to accomplish these goals. And, importantly, while collaborating with partners from the community and legal advocacy organizations, the students always tried to keep these women centered in their advocacy. In breaking down the problem of drug testing poor women of color, the students worked through an issue that lives at the intersection of reproductive freedom, family law, racial justice, economic inequality, access to health care, and the war on drugs. In their factual investigation, which included interviews of impacted women, advocates, and hospital personnel, and the review of records obtained through Freedom of Information Law requests, the students began to break down this complex problem. They explored the disparate treatment of poor women and women of color by health care providers and government entities, implicit and explicit bias in healthcare, the disproportionate referral of women of color to ACS, the challenges of providing medical services to underserved communities, the meaning of informed consent, the diminished rights of people who rely on public services, and the criminalization of poverty. The students found that list almost as overwhelming as the initial problem itself, but identifying the components allowed the students to dig deeper and focus on possible avenues of challenge and advocacy. It was also critically important to make the invisible forces visible, even if the law currently does not provide a remedy. Working on this case also gave the students and me the opportunity to work through more nuanced applications of some of the lawyering concepts that were introduced in their smaller cases, including client-centered lawyering when working on behalf of the community; large-scale fact investigation; transferring their “social justice knowledge” to different contexts; crafting legal and factual narratives that are not only true to the communities’ experience, but can persuade and influence others; and how to develop an integrated advocacy plan. The students frequently asked whether we should even pursue the matter, questioning whether this work was client- centered when it was no longer the most pressing concern for many of the women we met. These doubts opened the door to many rich discussions: can we achieve meaningful social change if we only address immediate crises; can we progress on larger social justice issues without challenging their root causes; how do we recognize and address assumptions advocates may have about what is best for a client; and how can we keep past, present, and future victims centered in our advocacy? The work on the case also forced the clinic students to work through their own understanding of a hierarchy of values. They struggled with their desire to support these community hospitals and the public servants who work there under difficult circumstances on the one hand, and their desire to protect women, potentially through litigation, from discriminatory practices. They also struggled to reconcile their belief that hospitals should take all reasonable steps to protect the health and safety of children, as well as their emotional reaction to pregnant mothers putting their unborn children in harms way by using illegal drugs against the privacy rights of poor and marginalized women. They were forced to pause and think deeply about what justice would look like for those mothers, children, and communities. CONCLUSION America continues to grapple with systemic injustice. Political justice lawyering offers powerful strategies to advance the cause of justice—through integrated advocacy comprising the full array of tools available to social justice advocates, including strategic systemic reform litigation. It is the job of legal education to prepare law students to become effective lawyers. For those aspiring to social justice that should include training students to utilize the tools of political justice lawyers. Clinical legal offers a tremendous opportunity to teach the next generation of racial and social justice advocates how to advance equality in the face of structural inequality, if only it will embrace the full array of available tools to do so. In doing so, clinical legal education will not only prepare lawyers to enact social change, they can inspire lawyers overwhelmed by the challenges of change. In order to provide transformative learning experiences, clinical education must supplement traditional pedagogical tools and should consider political lawyering’s potential to empower law students and communities.

#### TVA---States ought to ban appropriation of outer space by private actors---Advs about why space col, expansion, and mining is antiblack.

Eric Niiler 19, 7-11-2019, "Why Civil Rights Activists Protested the Moon Landing," HISTORY, <https://www.history.com/news/apollo-11-moon-landing-launch-protests>

More than a million people gathered along Florida’s Space Coast to watch the Apollo 11 lift off from Launchpad 39A on the sunny afternoon of July 16, 1969. The event was the culmination of a technological race started by President John F. Kennedy in 1963 with the goal of beating the Soviet Union to the moon. But not everyone was cheering that summer day. A group of 500 mostly African American protesters led by civil rights leader Ralph Abernathy arrived outside the gates of the Kennedy Space Center a few days before the launch. They brought with them two mules and a wooden wagon to illustrate the contrast between the gleaming white Saturn V rocket and families who couldn’t afford food or a decent place to live. The Southern Christian Leadership Conference's Poor People's marchers line up mules near the gates to the Kennedy Space Center on July 15, 1969. The Southern Christian Leadership Conference's Poor People's marchers line up mules near the gates to the Kennedy Space Center on July 15, 1969. Bettmann Archive/Getty Images Abernathy was one of Rev. Martin Luther King, Jr.’s closest aides. After King’s assassination in April 1968, Abernathy led the Poor People’s March on Washington that summer. A year later, as NASA prepared to launch Apollo 11, the Alabama preacher led a group of mostly Black Americans to show NASA and the assembled media that all was not well in America’s cities. “There was a debate about what America was at the time,” says Neil Maher, author of 2017’s Apollo in the Age of Aquarius, and a professor of history at the New Jersey Institute of Technology. Maher says the Apollo space program divided Americans among supporters who thought it would energize a country that had gotten lost, and those who believed that it represented a huge waste of money that instead should go to solving societal problems. “Was it a country to spend $20 billion to land two men on a dead rock in space or try to solve some of the problems closer to home on Earth?” Maher says. “A lot of grass roots movements argued to use the [NASA] money to solve problems here.” The protest began peacefully with Abernathy and the others gathered in front of the NASA gates for a candlelight vigil on the evening of July 14 followed by a march on July 15. As NASA administrator Thomas Paine came out to the NASA perimeter under a lightly falling rain to meet Abernathy and the others in an open field, the group began singing “We Shall Overcome” and media crews recorded the event. Protesters carried signs reading “$12 a day to feed an astronaut, we could feed a child for $8.” Reverend Ralph Abernathy, flanked by associate Hosea Williams stand on steps of a mockup of the lunar module displaying a protest sign while demonstrating at the Apollo 11 moon launch site. Reverend Ralph Abernathy, flanked by associate Hosea Williams stand on steps of a mockup of the lunar module displaying a protest sign while demonstrating at the Apollo 11 moon launch site. The two men—Paine the Stanford-educated engineer, and Abernathy the Alabama-born Baptist preacher (who also earned a bachelor’s degree in mathematics)—talked for a while. Paine later recorded his account: “One-fifth of the population lacks adequate food, clothing, shelter and medical care, [Rev. Abernathy] said. The money for the space program, he stated, should be spent to feed the hungry, clothe the naked, tend the sick, and house the shelterless.” Abernathy told Paine that he had three requests for NASA, that 10 families of his group be allowed to view the launch, that NASA “support the movement to combat the nation’s poverty, hunger and other social problems,” and that NASA technical people work “to tackle the problem of hunger.” “If we could solve the problems of poverty in the United States by not pushing the button to launch men to the moon tomorrow,” Paine said while holding a microphone, “then we would not push that button.” [NASA Administrator] Paine added that he hoped Abernathy would “hitch his wagons to our rocket, using the space program as a spur to the nation to tackle problems boldly in other areas, and using NASA’s space successes as a yardstick by which progress in other areas should be measured.” The meeting ended and the two men shook hands. Paine offered tickets to Abernathy’s group for the VIP viewing area to watch the moonshot on the following day. Abernathy then prayed for the safety of the astronauts and said he was as proud as anyone at the accomplishment. NASA Administrator Thomas Paine wears a miniature "hangman's noose" around his neck with a note that reads "I Helped Hang Poverty,"given to him by Reverend Ralph Abernathy on July 15, 1969. NASA Administrator Thomas Paine wears a miniature "hangman's noose" around his neck with a note that reads "I Helped Hang Poverty,"given to him by Reverend Ralph Abernathy on July 15, 1969. "On the eve of man's noblest venture, I am profoundly moved by the nation's achievements in space and the heroism of the three men embarking for the moon,” he said, according to a UPI report. But, he added, "What we can do for space and exploration we demand that we do for starving people." “The Abernathy protest was an example that Apollo did not happen in bubble,” said Teasel Muir-Harmony, author of Apollo to the Moon: A History in 50 Objects, and curator of space history at the Smithsonian National Air and Space Museum. “It was very connected to everything else that was going on in the country.” In the months and years that followed the meeting, NASA tried to make good on the promises Paine made that day at Cape Canaveral. NASA engineers took sensors initially used to detect contaminants in space capsules and converted them to measure urban air pollution. Another project took spacecraft insulation and made new kinds of walls and windows for public housing. But Maher says the efforts didn’t amount to much. “It was more of an advertising effort,” he said. The Apollo 11 moon landing on July 20, 1969, was for many people the apogee of NASA’s popular support. A year after the Apollo 11, Gil Scott-Heron released a spoken-word critique of the space missions “Whitey on the Moon” (a song featured in the 2018 film First Man.) And, in the months and years following Apollo 11, public and political support for space exploration waned. The nation’s focus had shifted to the Vietnam War, campus protests and movements focused on civil rights, women’s rights and the environment. By 1970, NASA officials scrubbed the final three moon landings and President Richard Nixon rejected a new NASA recommendation to build a station on the moon that could be used as a base for exploration of Mars. “We must build on the successes of the past, always reaching out for new achievements,” Nixon said on March 7, 1970. “But we must also recognize that many critical problems here on this planet make high priority demands on our attention and our resources.”The last astronaut to walk on the moon left in December 1972.’

Switch side debate solves all of their offense—there’s no specific reason why their arguments have to be read on the aff—that solves predictability and accesses their education impact turns because plans on the aff and Ks on the neg can challenge perspectives, stances, representations, and epistemologies

## 2

#### The US commercial space industry is booming – private space companies are driving innovation

**Lindzon 2/23** [(Jared Lindzon, A FREELANCE JOURNALIST AND PUBLIC SPEAKER BORN, RAISED AND BASED IN TORONTO, CANADA. LINDZON'S WRITING FOCUSES ON THE FUTURE OF WORK AND TALENT AS IT RELATES TO TECHNOLOGICAL INNOVATION) "How Jeff Bezos and Elon Musk are ushering in a new era of space startups," Fast Company, 2/23/21, https://www.fastcompany.com/90606811/jeff-bezos-blue-origin-elon-musk-spaces-space] TDI

In early February, Jeff Bezos, the founder of Amazon and one of the planet’s wealthiest entrepreneurs, dropped the bombshell announcement that he would be stepping down as CEO to free up more time for his other passions. Though Bezos listed a few targets for his creativity and energy—The Washington Post and philanthropy through the Bezos Earth Fund and Bezos Day One Fund—one of the highest-potential areas is his renewed commitment and focus on his suborbital spaceflight project, Blue Origin.

Before space became a frontier for innovation and development for privately held companies, opportunities were limited to nation states and the private defense contractors who supported them. In recent years, however, billionaires such as Bezos, Elon Musk, and Richard Branson have lowered the barrier to entry. Since the launch of its first rocket, Falcon 1, in September of 2008, Musk’s commercial space transportation company SpaceX has gradually but significantly reduced the cost and complexity of innovation beyond the Earth’s atmosphere. With Bezos’s announcement, many in the space sector are excited by the prospect of those barriers being lowered even further, creating a new wave of innovation in its wake.

“What I want to achieve with Blue Origin is to build the heavy-lifting infrastructure that allows for the kind of dynamic, entrepreneurial explosion of thousands of companies in space that I have witnessed over the last 21 years on the internet,” Bezos said during the Vanity Fair New Establishment Summit in 2016.

During the event, Bezos explained how the creation of Amazon was only possible thanks to the billions of dollars spent on critical infrastructure—such as the postal service, electronic payment systems, and the internet itself—in the decades prior.

“On the internet today, two kids in their dorm room can reinvent an industry, because the heavy-lifting infrastructure is in place for that,” he continued. “Two kids in their dorm room can’t do anything interesting in space. . . . I’m using my Amazon winnings to do a new piece of heavy-lifting infrastructure, which is low-cost access to space.”

In the less than 20 years since the launch of SpaceX’s first rocket, space has gone from a domain reserved for nation states and the world’s wealthiest individuals to everyday innovators and entrepreneurs. Today, building a space startup isn’t rocket science.

THE NEXT FRONTIER FOR ENTREPRENEURSHIP

According to the latest Space Investment Quarterly report published by Space Capital, the fourth quarter of 2020 saw a record $5.7 billion invested into 80 space-related companies, bringing the year’s total capital investments in space innovation to more than $25 billion. Overall, more than $177 billion of equity investments have been made in 1,343 individual companies in the space economy over the past 10 years.

“It’s kind of crazy how quickly things have picked up; 10 years ago when SpaceX launched their first customer they removed the barriers to entry, and we’ve seen all this innovation and capital flood in,” says Chad Anderson, the managing partner of Space Capital. “We’re on an exponential curve here. Every week that goes by we’re picking up the pace.”

#### The plan creates a restriction that encourages companies to move their operations to states with lower standards

Albert 14 [(Caley Albert, J.D. Loyola Marymount University) “Liability in International Law and the Ramifications on Commercial Space Launches and Space Tourism,” Loyola of Los Angeles International and Comparative Law Review, 11/1/14, <https://digitalcommons.lmu.edu/cgi/viewcontent.cgi?article=1708&context=ilr>] TDI

A parallel can be drawn here between the commercial space industry and the maritime law concept of the Flag of Convenience. The term has evolved over time, but in this day and age, it is commonly used to mean the owner of a vessel does not want to create an obligation with a country with stricter standards for registry; hence, the owner will register strictly for economic reasons with a country that has a more convenient registry.133 By flying a Flag of Convenience, ship owners are able to avoid taxation on earnings of ships registered under these flags, and in some cases, they can also receive relief from stricter crew standards and corresponding operating costs.134 A Flag of Convenience is flown by a vessel that is registered in one state, which the vessel has little if any connection to, when in reality the vessel is owned and operated from another state.135 This way the vessel avoids any unfavorable economic requirements from its true home state.136 In this sense, “flag shopping” is similar to “launch forum shopping,” similar in that Flags of Convenience are utilized for economic reasons, such as to avoid high taxes and compliance with certain restrictive international conventions, commercial space companies will forum shop when choosing which country to launch from. As of today, there has yet to be a catastrophic commercial launch incident, so for now commercial space companies do not have an incentive to forum shop, but if there is, the indemnification policies described above may lead companies to seek out countries that provide more coverage so they pay less in the event something goes wrong. This comparison to Flags of Convenience brings up two separate yet equally important issues. First, launch companies may try to follow the Flags of Convenience model and soon catch on to the wisdom of their maritime predecessors by “registering” in countries with more favorable conditions. Of course, in this case the concern is not with registration so much as launching. If launch companies follow the Flags of Convenience model, they will seek out the most convenient state for launch, most likely the state that provides the most liability coverage and has the least safety precautions. Launching from states with low safety standards increases the potential for catastrophic launch events. This, in turn, will place states that are potentially incapable of paying for damages from launch disasters in a position they would not normally assume if these commercial companies had not been drawn to their shores with the promise of more favorable regulations. Second, launch customers may also seek out companies located in states with lower cost liability regimes (lower insurance policy limits) since those companies will presumably charge less to launch their payloads. In this scenario, instead of the launch companies seeking out states with lower liability caps and softer regulations, the launch customers themselves will seek companies located in states with lowcost liability regimes. Here, the effect will be the same as above. Under the Liability Convention, the launching state will be liable for any damage caused by a vehicle launched from within its borders; hence, if customers start engaging in “launch forum shopping,” states will be incentivized to put in place low-cost liability regimes, which in turn will increase the states’ potential payout in the event of a catastrophic launch incident. Looking at the indemnification program the United States has in place in comparison to other countries, it is possible to see how either launch companies or launch customers could engage in “launch forum shopping” when a catastrophic launch incident ever occur. It is also important to keep in mind that various factors go into where a company or customer decides to launch from. A state’s indemnification program is just one factor in this decision. With this in mind, it is clear that if a launch incident did occur in the United States, the commercial launch company would be liable for much more than it would in another country. For instance, why would a commercial space company launch in the United States, where it would be liable up to $500 million and the additional costs that the government would not cover? The argument can be made that a catastrophic space incident has yet to occur, and even if it did, it is unlikely to cost above the $2.7 billion covered by the United States government. Other states like Russia or France, which has the two-tier liability system, would simply cover all claims above the initial insurance, which is much lower than the $500 million mark required by the United States. In that case, the commercial company would never have to pay more than the initial liability insurance. If there ever is a catastrophic commercial space incident in the future, it is easy to see why commercial companies or launch customers might be drawn to “launch forum shop” outside the United States.

#### Maintaining US space dominance requires a homegrown commercial space industry – private companies offshoring gives China the advantage they need

* Asteroid mining aff restricts private companies’ asteroid which is a significant financial loss
* As a result of this, companies will move them to other countries
* SpaceX with lower tax, safety standards, liability

**Cahan and Sadat 1/6** [(Bruce Cahan, J.D) (Dr. Mir Sadat, ) "US Space Policies for the New Space Age: Competing on the Final Economic Frontier," based on Proceedings from State of the Space Industrial Base 2020 Sponsored by United States Space Force, Defense Innovation Unit, United States Air Force Research Laboratory, 1/6/21, https://www.politico.com/f/?id=00000177-9349-d713-a777-d7cfce4b0000] TDI

Today, China’s commercial space sector is in its infancy but is set to grow with continued national and provincial support, which have been rapidly increasing over the past three years.64 Since 2004, the United States and China accounted for 74% of the $135.2 billion venture capital (VC) invested in commercial space. 65 The early 2020s are pivotal, as it would be far cheaper for China and Chinese commercial space firms to acquire space technologies from the United States or allied nation companies seeking revenues or facing cashflow constraints, than to build the companies and their teams and technologies from scratch in China. The tight coupling of Chinese military goals and an economy organized to achieve those goals magnifies the economic threats and market disruptions that the United States must immediately address, in order for DoD and national security operations to rely on US commercial space capabilities.

3. ISSUES AND CHALLENGES

Peaceful Uses of Space and Space Exploration Space has been primarily a shared, not a warfighting, domain.67 With each passing second of Planck time,68 space enables a modern way of life, provides instantaneous global imagery, assures telecommunications, and captures humanity’s imagination for civil space exploration. As a result, space is a burgeoning marketplace and territory for commercial ventures and investors. Strengthening the US commercial space industrial base is vital to and beyond US national security. Civil space activities are a source of US “soft power” in global commerce, cooperation, and investment. 69 The civil space sector, led by NASA, is fundamental to America’s national security. 70 NASA is on an ambitious critical path to return to the Moon by 2024,71 along with developing the capabilities and infrastructure for a sustained lunar presence. NASA’s lunar plans provide a lunar staging area for missions to Mars and beyond. They offer a strategic and economic presence for the United States on the Moon. Congress, the White House, DoD, and NASA must recognize that economic and strategic dominance in service of national security requires catalyzing and accelerating growth of a vibrant, private US industrial and cultural expansion into the Solar System. Human visitation and eventual settlement beyond the Earth require sustaining visionary leaders, aided by, and aiding, US national security. A recurring theme in US policy is “maintaining and advancing United States dominance and strategic leadership in space” because US global competitors and adversaries are competent and capable of outpacing American space capabilities. 72 The stakes are high: At this historic moment, there is a real race for dominance over cislunar access and resources.   
Regulations Should Foster US Commercial Space as a National Asset   
Leveraging the reimagination and disruption of terrestrial industries, the US commercial space industry is pushing the frontiers of the United States and global space economics and capabilities. A pre-COVID19 assessment by the US Chamber of Commerce projected that the US space market will increase from approximately $385 billion in 2020, to at least $1.5 trillion by 2040. 73 This projection represents a seven percent (7%) annual compound average growth rate (CAGR), driven largely by expanded business opportunities in Low Earth Orbit (LEO). Total addressable market (TAM) for US commercial space companies could be far larger were they to have federal and financial support for initiating cislunar space operations and opportunities. Recent advancements in commercial space technologies and business models have driven down costs and unlocked new areas of economic growth and space capabilities that outpace and de-risk acquiring capabilities through traditional US government economic development, research and development (R&D), procurement and regulatory policies and processes. US regulations must ensure that US companies lead in commercial space. In specific, technological advances that lower access costs and expand space mission capabilities, content, continuity, and redundancies must be fully supported by or incorporated into US government programs, budgets, requirements, and acquisition processes. Until commercial space offerings are fully incorporated, and federal acquisition policies and personnel commit to innovation, US government fiscal buying power, intelligence and program support will lag and remain inadequate in comparison to US private sector companies and the nation’s global competitors and adversaries in space.

Addressing COVID-19’s Impact on US Commercial Space The COVID-19 pandemic damaged and still challenges the US space industrial base. US domestic investors’ funding of space R&D remains inconsistent across the lifecycle of New Space companies and the spectrum of technologies necessary to grow the space economy. To date, public R&D, government procurements and visionary space entrepreneurs have played a major role in establishing and funding the New Space industrial base. In the last five years, $11 billion of private capital has been invested.74 Traditional private investors may become reluctant to fund space technologies due to perceptions of higher risk over longer time horizons before receiving profitable returns on their capital. Institutional and long-horizon investors who manage patient capital have an appetite for illiquid, but higher yielding, terrestrial alternative asset investments such as commodities, private equity limited partnerships and real estate.75 The COVID-19 pandemic has created economic uncertainties making the New Space’s funding model unreliable. COVID-19 significantly impacted venture capital (VC)-backed companies: the pace of VC space investments fell 85% between April - June, as compared to January – March, in 2020. 76 Pre-COVID-19, the New Space industrial base confronted multiple challenges in raising later stages of venture capital such as (1) the lag between having an early-stage startup with an idea and commercializing a viable revenue-generating product, (2) the lack of market liquidity for founder and private equity space investments to attract and retain talented teams, and (3) the lack of a market to re-sell contracts for space goods and services when customers buy more capacity than needed. Even prior to the COVID-19 pandemic, federal financing of US R&D was at a historically minor level, as compared to businesses and universities.77 US government support for basic research has steadily declined as a percent of GDP. The federal government will experience near- to medium-term budget constraints.78 The vibrant venture community in the United States has taken up a portion of this slack by increasing R&D investment in later-stage and applied research. However, founding teams and VC financing rely on government to fund earlier R&D for basic science and engineering. Therefore, government must resume the sustainable and impactful past levels of support for basic research, an essential role in the space economy’s public-private partnership that ensures US leadership in space.

Space as Existential Terrain for National Security  
  
In this Digital Era, space integrates and drives all elements of US national security. The Cold War may be over, but since the early 2010s, a renewed era of great power competition has emerged across terrestrial land, air, sea, and cyber domains. This competition extends into space, where a great game ensues.79 Space is no longer an uncontested or sanctuary domain. Competent and capable global competitors and peer adversaries are challenging US military, commercial, and civil space interests. The United States, along with its allies and partners, has had to accept and anticipate that space may be a warfighting domain, as suggested primarily by Russian and Chinese counter-space capabilities, military operations, and declarative statements. On December 20, 2019, the bipartisan National Defense Authorization Act (NDAA) for Fiscal Year 202080 authorized the creation of the US Space Force, under the Department of the Air Force, to secure US national interests in an increasingly contested domain.81 Back in October 1775, the Continental Congress established the US Navy to ensure that commercial and government fleets could freely navigate the Atlantic coastline - today, that includes the South China Sea. Likewise, the USSF’s mission is to ensure unfettered access to and the freedom to operate in space. The 2017 National Security Strategy considers space to be a “priority domain.”82 Freedom of navigation is a sovereign right that nations have fought to achieve and defend. 83 The USSF’s main role is to organize, train and equip, as well as to protecting US space interests and supporting terrestrial and joint warfighters (e.g., US Space Command). Thus, USSF must secure US national interests in space, whether military, commercial, scientific, civil, or enhancing US competitiveness for cislunar leadership.

#### US space dominance prevents global war

**Zubrin 15** [(Robert Zubrin, president of Pioneer Energy, a senior fellow with the Center for Security Policy) “US Space Supremacy is Now Critical,” Space News, 1/22/15, <https://spacenews.com/op-ed-u-s-space-supremacy-now-critical/>] TDI

The United States needs a new national security policy. For the first time in more than 60 years, we face the real possibility of a large-scale conventional war, and we are woefully unprepared. Eastern and Central Europe is now so weakly defended as to virtually invite invasion. The United States is not about to go to nuclear war to defend any foreign country. So deterrence is dead, and, with the German army cut from 12 divisions to three, the British gone from the continent, and American forces down to a 30,000-troop tankless remnant, the only serious and committed ground force that stands between Russia and the Rhine is the Polish army. It’s not enough. Meanwhile, in Asia, the powerful growth of the Chinese economy promises that nation eventual overwhelming numerical force superiority in the region. How can we restore the balance, creating a sufficiently powerful conventional force to deter aggression? It won’t be by matching potential adversaries tank for tank, division for division, replacement for replacement. Rather, the United States must seek to totally outgun them by obtaining a radical technological advantage. This can be done by achieving space supremacy.To grasp the importance of space power, some historical perspective is required. Wars are fought for control of territory. Yet for thousands of years, victory on land has frequently been determined by dominance at sea. In the 20th century, victory on both land and sea almost invariably went to the power that controlled the air. In the 21st century, victory on land, sea or in the air will go to the power that controls space. The critical military importance of space has been obscured by the fact that in the period since the United States has had space assets, all of our wars have been fought against minor powers that we could have defeated without them. Desert Storm has been called the first space war, because the allied forces made extensive use of GPS navigation satellites. However, if they had no such technology at their disposal, the end result would have been just the same. This has given some the impression that space forces are just a frill to real military power — a useful and convenient frill perhaps, but a frill nevertheless. But consider how history might have changed had the Axis of World War II possessed reconnaissance satellites — merely one of many of today’s space-based assets — without the Allies having a matching capability. In that case, the Battle of the Atlantic would have gone to the U-boats, as they would have had infallible intelligence on the location of every convoy. Cut off from oil and other supplies, Britain would have fallen. On the Eastern front, every Soviet tank concentration would have been spotted in advance and wiped out by German air power, as would any surviving British ships or tanks in the Mediterranean and North Africa. In the Pacific, the battle of Midway would have gone very much the other way, as the Japanese would not have wasted their first deadly airstrike on the unsinkable island, but sunk the American carriers instead. With these gone, the remaining cruisers and destroyers in Adm. Frank Jack Fletcher’s fleet would have lacked air cover, and every one of them would have been hunted down and sunk by unopposed and omniscient Japanese air power. With the same certain fate awaiting any American ships that dared venture forth from the West Coast, Hawaii, Australia and New Zealand would then have fallen, and eventually China and India as well. With a monopoly of just one element of space power, the Axis would have won the war. But modern space power involves far more than just reconnaissance satellites. The use of space-based GPS can endow munitions with 100 times greater accuracy, while space-based communications provide an unmatched capability of command and control of forces. Knock out the enemy’s reconnaissance satellites and he is effectively blind. Knock out his comsats and he is deaf. Knock out his navsats and he loses his aim. In any serious future conventional conflict, even between opponents as mismatched as Japan was against the United States — or Poland (with 1,000 tanks) is currently against Russia (with 12,000) — it is space power that will prove decisive. Not only Europe, but the defense of the entire free world hangs upon this matter. For the past 70 years, U.S. Navy carrier task forces have controlled the world’s oceans, first making and then keeping the Pax Americana, which has done so much to secure and advance the human condition over the postwar period. But should there ever be another major conflict, an adversary possessing the ability to locate and target those carriers from space would be able to wipe them out with the push of a button. For this reason, it is imperative that the United States possess space capabilities that are so robust as to not only assure our own ability to operate in and through space, but also be able to comprehensively deny it to others. Space superiority means having better space assets than an opponent. Space supremacy means being able to assert a complete monopoly of such capabilities. The latter is what we must have. If the United States can gain space supremacy, then the capability of any American ally can be multiplied by orders of magnitude, and with the support of the similarly multiplied striking power of our own land- and sea-based air and missile forces be made so formidable as to render any conventional attack unthinkable. On the other hand, should we fail to do so, we will remain so vulnerable as to increasingly invite aggression by ever-more-emboldened revanchist powers. This battle for space supremacy is one we can win. Neither Russia nor China, nor any other potential adversary, can match us in this area if we put our minds to it. We can and must develop ever-more-advanced satellite systems, anti-satellite systems and truly robust space launch and logistics capabilities. Then the next time an aggressor commits an act of war against the United States or a country we are pledged to defend, instead of impotently threatening to limit his tourist visas, we can respond by taking out his satellites, effectively informing him in advance the certainty of defeat should he persist. If we desire peace on Earth, we need to prepare for war in space.

# Case

## FW

#### Framework: ROB/ROJ should be who’s the better debater – anything else is self-serving, arbitrary, and destroys predictiability.

#### Fairness outweighs -- strategy overdetermines pedagogy and the incentive to engage and they rely on judges to evaluate arguments fairly.

#### Their role of the ballot is self serving and arbitrary because it lets the neg win by discussing [x] which means they can win without disproving the plan.

#### They’ve literally already conceded our CI in CX -- if they win that space col is bad, they win “based on the resolution” –they’ve literally conceded resolutional focus for the ROB. Evaluate their offense based on whether it o/w ours under the rez.

### Extinction Outweighs

Extinction outweighs – death is the only irreversible impact, and extinction denies value to life on a global scope.

1 –Nuke war is painful and disproportionately harms vulnerable populations.

#### 2 – Consent DA – they shouldn’t remove marginalized populations’s choice to live or die

#### Also, any uncertainty means preventing extinction is the highest priority – err aff.

Bostrom 12 [Nick Bostrom. Faculty of Philosophy & Oxford Martin School University of Oxford. “Existential Risk Prevention as Global Priority.” Global Policy (2012)]

These reflections on **moral uncertainty suggest** an alternative, complementary way of looking at existential risk; they also suggest a new way of thinking about the ideal of sustainability. Let me elaborate.¶ **Our present understanding of axiology might** well **be confused. We may not** nowknow — at least not in concrete detail — what outcomes would count as a big win for humanity; we might not even yet **be able to imagine the best ends** of our journey. **If we are** indeedprofoundly **uncertain** about our ultimate aims,then we should recognize that **there is a great** option **value in preserving** — and ideally improving — **our ability to recognize value and** to **steer the future accordingly. Ensuring** that **there will be a future** version of **humanity** with great powers and a propensity to use them wisely **is** plausibly **the best way** available to us **to increase the probability that the future will contain** a lot of **value.** To do this, we must prevent any existential catastrophe.

## Case

#### ~~Space colonization is financially, scientifically, and logistically infeasible.~~

~~Impey 19 — Chris Impey, a faculty member at the University of Arizona, served as Vice-President of the American Astronomical Society, a Fellow of the American Association for the Advancement of Science, and a Howard Hughes Medical Institute Professor, serves on the Advisory Council of METI (Messaging Extraterrestrial Intelligence), 2019 (“Chapter 5: Mars and Beyond: The Feasibility of Living in the Solar System,”~~ *~~The Human Factor in a Mission to Mars: An Interdisciplinary Approach~~*~~, Edited by Konrad Szocik, Published by Springer, ISBN 978-3-030-02059-0, Accessed 08-30-2019, pp. 97-99)~~

~~5.2 Establishing a Colony~~

~~Robert Zubrin never lost the faith. With a Ph.D. in Nuclear Engineering and over 200 technical papers to his credit, Zubrin has been a staunch advocate of human exploration of Mars for 30 years. He holds patents for hybrid rocket-planes, synthetic fuel manufacturing, magnetic sails, salt-water nuclear reactors, and three-person chess, but his true passion is Mars. He thinks we can lower the cost and complexity of a Mars mission by “living off the land,” or utilizing many resources as possible from the air and soil. His ideas were strong enough to be adopted by NASA as their “design reference mission,” but he became frustrated at NASA’s glacial progress and anemic government support so he founded the advocacy group Mars Society in 1998. He’s written a series of books that make the case for going to Mars (Zubrin and Wagner 1996; Zubrin 2008). His most recent book brings Mars exploration up to date with the Mars Direct proposal using the DragonX rocket (Zubrin 2013).~~

~~Asked about saving costs with a one-way journey, Zubrin has said: “Life is a one-way trip, and one way to spend it is by going to Mars and starting a new branch of human civilization there” (Zubrin 2011).~~

~~Mars is a challenging goal for human exploration. The problem isn’t energy. The energy cost of going to Mars is less than 10% more than the energy cost of going to the Moon. The problem is the distance. An energy-efficient trajectory involves a travel time of 9 months each way. The trip can be shortened to 6–7 months at the expense of extra energy—a far cry from the week it takes to get to the Moon. The cost of transporting 2 years of supplies for even a small crew is daunting. Wernher von Braun was the first to make a technical study of a Mars mission in the 1950s but it was hopelessly grandiose, using a thousand Saturn V rockets to build a fleet of ten spacecraft in Earth orbit to then carry seventy astronauts to Mars. He pitched a scaled-down concept to Richard Nixon but it was passed over in favor of the Space Shuttle. Former NASA administrator Thomas Paine tried next. Perhaps he’d watched too much Star Trek, but he aimed to conquer and industrialize the Moon with nuclear space tugs, launch a fleet of space stations into orbit around the Earth, and send several dozen spaceships a year to Mars to build a space station and support the settlement The Reagan administration was happy to shelve his report.~~

~~In 2014, the National Research Council revisited human flight, as directed by Congress. Its sweeping 286-page report concluded bluntly that NASA had an unsustainable and unsafe strategy that will prevent the United States from achieving a human landing on Mars any time in the foreseeable future (National Research Council 2014). With current budgets, they suggest that it can’t happen before mid-century. Along the way, the report addresses the philosophical question of why we should send people into space at all, concluding that purely practical and economic benefits don’t justify the cost, but the aspirational aspect of the endeavor might make it worthwhile.~~

~~There must be good reasons and a strong will, because Mars is hard. One risk is radiation. Earth dwellers are sheltered from high-energy cosmic rays and solar flares by our atmosphere and magnetic field. When the Curiosity rover headed to Mars, [end page 96] scientists switched on a radiation detector and found that the radiation environment in deep space is far more intense than it is on Earth. An astronaut on a 2-year trip to Mars would get 200 times more radiation dose than an Earth dweller over that same period (Fig. 5.2). However, to put it in perspective, the adventure only increases the lifetime risk of cancer from 21 to 24%. The risk of some sort of spacecraft malfunction is likely to be much higher.~~

~~Another risk is weightlessness. Substantial physiological changes result from a microgravity environment. Russian cosmonaut Valeri Polyakov spent 438 days on board Mir, making a dizzying 7000 orbits of the Earth, in part to see if humans could handle a trip to Mars. The Russians reported that he suffered no long-term ill-effects from his 14 months in space. There is extensive literature on the adverse effects of microgravity on humans, including bone loss, muscle atrophy, cardiovascular dysfunction, and reduced functioning of the immune system (White and Averner 2001). Some of these effects, like bone loss, can be mitigated but not completely compensated for, by exercise and diet (Grimm et al. 2016). [end page 97]~~

~~Robert Zubrin notes that the used upper stage of a Mars launch vehicle could be employed as a counterweight. With a mile-long tether and a spin rate of 2 rpm, Earth gravity would be simulated. With a spin rate of 1 rpm, it would be Mars gravity and the astronauts could get acclimatized to the new situation before landing. Materials exist with the requisite tensile strength to construct such a tether, but it would add cost to a mission so it is not clear if such technology is warranted by the health risks.~~

~~A third risk is being cooped up. A Mars traveler would have to spend a year and a half in a cabin the size of a school bus, and as much as a year at their destination in a space no bigger than a large motor home. The Mars500 mission locked an international crew of six volunteers in a mock spaceship bound for Mars, but actually sitting in Moscow for a year and a half. The crew “returned to Earth” in 2011. Most of them experienced severely disrupted sleep patterns and all of them reduced their activity levels in the confined space, something researchers call a behavioral torpor (Vigo et al. 2013). The experiment made clear how important it will be to simulate Earth life rhythms in the spaceship or on Mars, and how important it will be to stay physically active.~~

~~It’s hard to judge the psychological impacts of such a trip. People who winter in Antarctica experience a diluted version of the problems. But travelers to Mars will be the most isolated humans who ever lived. They’ll have real-time interactions with a small number of companions and delayed communications with friends and loved ones who are tens of millions of miles away. They’ll be in a confined space with no option to simply go out for a walk, and they’ll be continuously monitored by anxious ground crews and scientists on Earth. If anyone spins out of control, there’s no real-time access to mental health services such as counseling or psychotherapy.~~

~~The visionaries are undeterred. Apollo astronaut Buzz Aldrin put it like this: “Going to Mars means staying on Mars—a mission by which we are building up a confidence level to become a two-planet species. At Mars, we’ve been given a wonderful set of moons which can act as offshore worlds from which crews can robotically preposition hardware and establish radiation shielding on the Martian surface to begin sustaining increasing numbers of people” (Aldrin 2013).~~

~~Two new ventures are trying to put Mars within reach without using any government resources. Inspiration Mars is the brainchild of Dennis Tito, an engineer turned tycoon who was the world’s first space tourist in 2001. Tito plans to keep costs down by not landing. His billion-dollar fly-by plans to use an upgraded version of the SpaceX Dragon capsule. With a cleverly designed trajectory, he can get there with a single burn of the engine. The return is challenging. The capsule will slam into the Earth’s atmosphere at 32,000 mph, requiring new materials for a heat shield. The project is currently aiming for a launch in 2021.~~

~~Mars One is run by Dutch entrepreneur Bas Lansdorp, who also plans to use a SpaceX capsule. He plans to keep costs down by leaving his four passengers on Mars. If they survive the trip, they will build a habitat from their spacecraft and adjacent inflated areas covered by Martian regolith. They’ll create water, oxygen, and some food locally, augmented by regular supply missions, and every 2 years they will be joined by four more refugees from Earth. Gradually, they will build a settlement (Fig. 5.3). Lansdorp estimates his costs to be $6 billion for the first trip and $4 billion [end page 98] for each crew that follows. Space experts judge the plan to be very ambitious; some judge it to be impossible. Everyone agrees that it is audacious (Do et al. 2014). NASA has a plan that will take several decades and cost about $100 billion, which makes the claims of Mars One seem unrealistic.~~

~~Would-be Martians are in a race against time. The red planet has its next close approach to the Earth in 2018, and it won’t get as close again until 2035. Inspiration Mars and Mars One have both had to slip past the most favorable 2018 launch date. Mars One accepted over 200,000 applications online for the chance to live and die on Mars. In 2014 the number was culled to 1058, and then to 705. Those who remain will go endure rigorous physical and psychological testing to generate a final group of 24. Lansdorp plans to finance his venture by turning it into a reality TV epic—think Survivor meets The Truman Show meets The Martian Chronicles.~~