

NCTF 4<sup>th</sup> On-line Session  
Joined on March 11, 2008 at 9:00 PM

Don B NH: FACILITATORS -I'd like to clarify one thing - in the list of common threads, #11 is "remediation/enhancement" - it would seem that the discussion regarding the rest of the threads would depend on which aspect of nanotech we

Don B NH: are focusing on

John E WI: magda: pay attention (sorry--I can be incorrigible at times)

Moderator (bob): Hi everyone! We're still checking people in. We should be starting in 5-6 min.

kokila r ga: Moderators, I lost connection half an hour before the session ended last time and could not link back again because the session was not "linked" around 10:35. Do you lock the session after a certain time?

magda: Hanging on your every word John boy.

Moderator (bob): Don - I think the issue area of remediation/enhancement refers to how to make a distinction between the two. It isn't always clear cut.

Moderator (Patrick Hamlett): Kokila r ga: I've been looking for some way to blame Tina for that, but, in the end, it was my fault!

Catherine J NH: Kokila, could you log in correctly next time? I'm trying to get your name right.

Don B NH: MODERATOR Bob- but in the discussion, it would seem to be important to make the distinction as to which one has in mind (remediation vs enhancement) while making a point

Moderator (Patrick Hamlett): I will be cutting off everyone's chat in a moment, and lighting up Team 6...

kokila r ga: Thanks, that certainly helps. I am kokila R from GA, Catherine - isn't that the way we are supposed to login?

Don S WI: Kokila, same thing happened to me - I think problem was the meeting was listed in Elluminate as ending at 10pm EDT, I see tonight's is fixed so it shouldn't be a problem again

kokila r ga: Oh, I know what you mean - next time I will provide spaces. Sorry!!!!!!

Catherine J NH: Thank you, Kokila! It's such a pretty name, I want to get it right.

Moderator (bob): Don - You are probably right there. See if that comes up in tonight's discussion.

Moderator (Patrick Hamlett): Charles: Welcome aboard. I've "volunteered" you to help out with Team 1 tonight!

Jennifer C GA: Geez, I just got here. But . . . okay. Hello Everyone! Have a good time tonight, even if you must do it without me.

Charles P CA: Okay

Catherine J NH: Hey, Charles, have you eaten any spiders today?

Charles P CA to Patrick Hamlett, bob, Tina Ndoh, NC: rather irreverent

les k wi to Patrick Hamlett, bob, Tina Ndoh, NC: hello all!

John E WI to Patrick Hamlett, bob, Tina Ndoh, NC: Is magda short for magdaline?

Moderator (bob): OK - We are about ready to roll. Patrick is deactivating chat for all but Team 6. Check the whiteboard. Team 6 will be chat active first hour.

Terry R AZ to Patrick Hamlett, bob, Tina Ndoh, NC: Terry R AZ Team 6 is on

les k wi to Patrick Hamlett, bob, Tina Ndoh, NC: when will team 4 talk?

janine CA to Patrick Hamlett, bob, Tina Ndoh, NC: forgive any typos-i used to do 80wpm, but nerve damage has wrecked me.

John E WI to Patrick Hamlett, bob, Tina Ndoh, NC: oops--scratch that last message--i'll behave

Moderator (bob): Boring I know - but review the groundrules. We still have some people trying to comment on the discussion when they are not chat active. All that does is clutter our screens.

Moderator (bob): Change of Slide - Here is what we are doing tonight.

Moderator (bob): Are tonight's objectives clear? Any questions?

Tim H GA to Patrick Hamlett, bob, Tina Ndoh, NC: no

janine CA to Patrick Hamlett, bob, Tina Ndoh, NC: who will the experts be we are generating the TWO questions for?

foster f GA to Patrick Hamlett, bob, Tina Ndoh, NC: Hello Foster here

Starlyn F CO: Yes, clear

alan h ca: are the questions about concerns or solutins?

kokila r ga: Pretty clear!

alan h ca: solutions

Moderator (Tina Ndoh, NC): From Janine:janine CA to Patrick Hamlett, bob, Tina Ndoh, NC: who wil the experts be we are generating the TWO questions for?

John E WI to Patrick Hamlett, bob, Tina Ndoh, NC: my send to seems to be locked into "moderators

Eric B CO to Patrick Hamlett, bob, Tina Ndoh, NC: good point

Starlyn F CO: And what TYPE of experts?

janine CA: sorry i fixed send to this room now

Moderator (bob): Alan - They can be about solutions, factual background, whatever you feel you need. WHO the experts are is going to depend on the questions you select. We'll try to match expertise to questions as best as possible.

Eric B CO to Patrick Hamlett, bob, Tina Ndoh, NC: I can only send to mods

alan h ca: gotcha

Moderator (Tina Ndoh, NC) to janine CA: Janine, make sure you send messages to the entire room

Dan W NH: hi

john k nh: ok

Madhavi D WI: just 2?

alan h ca: I think we should deal with regulations first?

Moderator (bob): Madhavi - Just 2.

kokila r ga: I would like to know if nanotechnology could be used to control other natural phenomena - earthquakes, hurricanes, etc.. I know one of our GA teammates posed this question and I think it would be useful to know from the experts.

Moderator (bob): Each group will have to winnow down to the MOST important question of two. At the end of the evening, we can only vote on 5. Sorry, that's the max the system takes.

Eric B CO to Patrick Hamlett, bob, Tina Ndoh, NC: I think the q about natural disasters is beyond the scope

janine CA: I agree- talk to somebody in regulation (FDA?) first and see where the 'gaps' are

john k nh: What is the public policy process to ensure access to NBIC developing technology for underserved populations in the US, and more broadly outside the US?

kokila r ga: Sorry, Alan, I didn't see regulations - that is a very critical area - will FDA take charge?

Peter C NH to Patrick Hamlett, bob, Tina Ndoh, NC: I am finding the attempt to "prioritize" frustrating. The background material that we received deliberately, I think, blurred the lines between the immediately possible (e.g. using n-tech to deliver drugs to tumors w/out poisoning healthy cells) and the pie-in-the-sky (e.g. mind to mind); somewhere in the middle, I imagine, lie things like the n-tech construction of viruses and bacteria. Any notion of prioritization must factor in both the immediacy and the potential risks. The risks are open to informed speculation -- that's something /we/ can do; but the immediacy is probably better understood by experts in the field. I strongly endorse the positions of Virginia P WI and Don S WI that we should be hearing sooner, rather than later, from experts who can put the developmental timeline of n-tech into perspective for us.

Eric B CO to Patrick Hamlett, bob, Tina Ndoh, NC: I still am only submitting to moderators. My option to change send is inactive

Peter C NH to Patrick Hamlett, bob, Tina Ndoh, NC: (moderators: have I not been turn

Moderator (Tina Ndoh, NC) to Eric B CO: Eric, your team will be active during the second hour. Please hold your comments until then...at that point your chat will show up for the entire room

magda: I think we should stay on topic: human enhancement and not try to deal with environment, however important, for the purpose of this discussion

Peter C NH to Patrick Hamlett, bob, Tina Ndoh, NC: ed on as part of group 6

Moderator (bob): So far, Team 6 wants to talk to someone in regulation. Can you refine this to a more precise question you'd like to ask.

Stephanie U GA: I agree with Kokila about use for natural disaster control.

Madhavi D WI: ok, can any one country such as the US take on the role of international administrator/regulator for these technologies?

janine CA: yes, i am reviewing my notes to formulate an encompassing question. just a minute

kokila r ga: Wondere what impact nanotech would have on the environment - would the experts shed light on that?

alan h ca: Which governmental agency(ies) will regulate nbic?

Starlyn F CO: That was my question - Alan's...

john k nh: Officiald in the Presidents Commision on Bioethics (Lawrencd Kass) or like him, on the ethics question.

Moderator (Tina Ndoh, NC) to Peter C NH: Peter, sorry about that, just cut and past what you wrote before

Peter C NH: I am finding the attempt to "prioritize" frustrating. The background material that we received deliberately, I think, blurred the lines between the immediately possible (e.g. using n-tech to deliver drugs to tumors w/out poisoning healthy cells) and the pie-in-the-sky (e.g. mind to mind); somewhere in the middle, I imagine, lie things like the n-tech construction of viruses and bacteria. Any notion of prioritization must factor in both the immediacy and the potential risks. The risks are open to informed speculation -- that's something /we/ can do; but the immediacy is probably better understood by experts in the field. I strongly endorse the positions of Virginia P WI and Don S WI that we should be hearing sooner, rather than later, from experts who can put the developmental timeline of n-tech into perspective for us.

Terry R AZ: Terry R AZ My concern is, will nano tech electronics, such as cochlear implants pace makers, Etc. be destroyed by EMP (electromagnetic pulses) as results from a nuclear explosion, And also what about MRI

Jennifer T NH: Well I am wondering what exactly we mean when we say regulation. I think it would be neat if we could fine tune what types of human enhancement we are all talking about here. Because regulation for contact lenses and night vision are really far ends of the spectrum..

john k nh: Good point Peter!

Moderator (bob): Natural Disaster control would seem to be outside the area of human enhancement via NBIC technologies. We have no experts that can address that. I have to rukle that Q "out of bounds".

magda: Question. At the present time, what is the status of regulation and what is the plan for this to be at the state level, as Mass as begun of at the Federal level.

Jennifer T NH: I agree with Peter

Stephanie U GA: In our group we decided we just didn't like the idea of the barless prison because we didn't like the idea of injecting people with something, that may have long term effects. Since then, I

have wondered if the injection could be used in conjunction with the death penalty, perhaps as an alternative to? One in which the prisoners could possibly pull their own trigger?

john k nh: Back to medical ethics: guarantees of informed consent for human subjects in NBIC medical testing...and for "enhancements."

foster f GA to Patrick Hamlett, bob, Tina Ndoh, NC: Bob Can you give brife bio of "experts" with respect to scie fields

john k nh: A question for Lawrence Kass...or like him.

janine CA: I have an 'implant' and yes, emp, emi and mri can actually KILL ME or melt my spinal cord if I am not careful- I gladly trade the 'new' cautions and risks in my life for the tremdous benefits I am receiving from implanted technology

alan h ca: are we getting off track?

Starlyn F CO: Yes, how are we going to do this expeditiously?

kokila r ga: We do need to be brought upto date with what is already available or being developed and wonder if those technologies are being tested on human subjects already?

magda: FYI You can have MRI with most implants. They are titanium.

john k nh: On biotechnology questions..update on somatic gene-based therapeutics versus the potentials and very grave pitfalls of disturbing the human genome germline (fiddling with meiosis).

Jennifer T NH: ya- its kinda hard to agree on an issue about regulation when we are all probably talking about something different... that may or may not even be possible

alex r co: i was wondering the same thing kokil

Jane L NH to Patrick Hamlett, bob, Tina Ndoh, NC: I am getting no chat...???

Moderator (Patrick Hamlett) to Jane L NH: Jane: You're on Team 1, active during the 2d hour

Jennifer T NH: can our question be asking for a timeline??

alex r co: is it already being tested on humans presently? And why? as well as how far does government regulate this

kokila r ga: Genetic manipulation might interfere with natural diversity and might take away some of our natural talents - like communication etc., will the experts shed some light on that?

Starlyn F CO: Bob, are we throwing out the same issues, ad nauseum (!) or have some kind of format or order to formulating our questions?

janine CA: mines got a small computer and wiring so no mri & I do get interference from emi

john k nh: In my view, some of these purported enhancements are still in the realm of science fiction, especially the DARPA proposals: How will frivolous proposals be discarded so as not to waste taxpayers money?

Jane L NH to Patrick Hamlett, bob, Tina Ndoh, NC: are we frozen?

Peter C NH: I have another issue with this conversation: I also think that the task of prioritization cannot be done in a moral/ethical vacuum. I think that we, as a group, either need to take a moral/ethical stand about what kind of a world do we want to live in: do we want to assure safety? do we want equitable distribution? do we want to reshape society as a whole? Each one of these goals will have a different list of priorities. I think that either we place a collective moral/ethical flag in the sand; or if we cannot, perhaps we must divide into factions and produce multiple lists representing differing goals.

alan h ca: I am just going to cut and paste some questions from our last f2f that were sent via email to me.

john k nh: Also, genetic manipulation might for some lend itself to Hitler-like scenarios of master race building, to the above point of the need to conserve diversity.

Moderator (Tina Ndoh, NC) to Jane L NH: Jane, you are team 1, 2nd hour

john k nh: Good point Peter!

Moderator (bob): Jennifer - Yes, a question about timeline for development seems to be a popular suggestion here.

Peter C NH: agreed

john k nh: Whoa....cut aand paste...here we go

alan h ca: 1. Funding sources for regulators?  
a. Where specifically does funding come from (taxes, profits from other products)

Jennifer T NH: cool

john k nh: Go for it....!

janine CA: why don't we ask somebody from the FDA what THEY DON'T, WON'T OR CAN'T REGULATE & TEST. or is that too open ended?

john k nh: They must regulate....Congress told them to

Moderator (bob): Starlyn - The questions you are formulating are those important to you or your group. I can't impose a restriction on what people are suggesting.

kokila r ga: Can there be an international regulatory body - representatives from every country in the world.....

Starlyn F CO: Alan's questions (from f2f) seem to be rather universal in our chats thus far.

Starlyn F CO: It's "Starlyn"

john k nh: IF there is international regulation that the companies that want to make a killing will be really upset....!

Stephanie U GA: Do we know what other countries have, as far as nanotech? What other countries are close, if we are ahead?

alan h ca: just trying to get things going timewise.

Madhavi D WI: there should be some kind of international collaboration and common ground regarding the development and use of these technologies

Starlyn F CO: No, Alan, I was GLAD to see your 'universal' questions put forth...

Terry R AZ: terry r Az if todays drugs are showing up in the water supplies ,will it even be possible to keep nano particles out of the environment?

alan h ca: thanks

Starlyn F CO: that's a good one, Terry...

Stephanie U GA: Will nanotech be used like biochemical warfare?

alan h ca: oh that's a good one Terry.

Starlyn F CO: In our group, I think it was fairly universal our concerns about messing with humans' natural abilities, personalities and brains they are born with, designer babies, etc. How much do we want things altered??

foster f GA to Patrick Hamlett, bob, Tina Ndoh, NC: ah so the question of control, ethical, who's in charge

Stephanie U GA: Will it be possible for evil doers to creat viruses for things like the brain chip?

john k nh: A an elaboration of a NH question: Wouldn't true societal/scientific progress mean peace and prosperity for all? Is NBIC a solution in search of a problem or is it responsive to pressing social needs? A QUESTION FOR LAWRENCE KASS

alan h ca: 8. What wastes are generated from nanomaterials?

- a. Can they be recycled?
- b. Can they be removed from the environment/body once introduced?
- c. Can they be restored to their bulk size? If so, do they retain nano properties or go back to 'normal'?
- d. What is the life cycle of a nanomaterial?
- e. As consumers, how can we know a product contains nanomaterials, and that material's life cycle?
  - i. How can we, as consumers, know a company's responsibility in the whole process?
  - ii. Are hand-held scans that can be used in supermarkets and shops possible? (scan a product to detect nanomaterials)
  - iii. Are labels a possibility?

alex r co: what happens if the technology goes wrong? what a?

magda: How about....What is the timeline for instituting a regulatory process that will oversee the research, development and use of nontechnology as it applies to human use, it's impact both ethically and for health, availability, and long range concern?

Starlyn F CO: Who is qualified to "fix" it if something goes wrong?

alex r co: what are the consequences and could it be reversed?

alan h ca: oh this is getting good

kokila r ga: How are risks being assessed?

john k nh: Will scarce social resources be appropriately used in regulating and monitoring NBIC (exp. genetic research)when preventive public health and medicine may be more pressing. LAWRENCE KASS QUESTION.

Juan N GA to Patrick Hamlett, bob: sorry im late my Java was stuck on checking for latest version.

Moderator (bob): We are about to put up a summary slide of questions so far.

Starlyn F CO: In the prisons, how and when do the prisoners get the chip out once they've served their time, and who decides all that?

kokila r ga: Is the goal of NBIC solely monetary or for the betterment of humanity?

alan h ca: good one

Starlyn F CO: But WHOSE idea of "betterment of humanity?"

Madhavi D WI: Are any of the enhancements reversible?

alan h ca: whoa even better

Tamara R AZ to Patrick Hamlett, bob: Finally I am back. Sorry had some issues logging on but at least it let me tonight.

kokila r ga: What long term (generational effects) would these implants and genetic mutations have on the human race?

Stephanie U GA: Would you recommend genetic tech for your own child?

Peter C NH: Proposed question: what development of n-tech can produce the broadest (social) benefit at the least cost, with the least risks?

Starlyn F CO: if someone is into the designer baby, I'm assuming they would recommend it.

Stephanie U GA: But we're not just talking about designer baby. Also living for 100's of years, right?

Starlyn F CO: that's pretty all-encompassing \*(Peter's), but very thought-provoking!

john k nh: An underlying premise in our reading materials, that mortality could be potentially overcome, should be challenged by appropriate commentary from biologists, geneticists to determine whether it is an entirely frivolous pursuit and not worthy of serious social investment in science.

alan h ca: what about consent?

Moderator (Patrick Hamlett): Tina is posting a new slide, hoping she didn't miss anything important...

Moderator (bob): That summary slide is coming...really! It isn't easy doing that on the fly.

Starlyn F CO: understood

alex r co: what are the risks of making toys with nano particles as it relates to accidentally consuming the particles..if any? lead is in toys now and are dangerous..

Madhavi D WI: What about the "Enhancement Divide"? As in those who have enhancements and those who do not.

alan h ca: good

Starlyn F CO: Yep, that also speaks to the accessibility... the haves and the have-nots.

Stephanie U GA: Will they be custom made?

Starlyn F CO: thanks for the spaces! was hard to read!

Moderator (Patrick Hamlett): Tina is trying to clean the slide up a bit...

Moderator (bob): Please look over the slide posted. Which of the suggested questions (and I doubt we have them all) are MOST important.

alan h ca: can we number the slide questions

Starlyn F CO: Can we number them so as not to write them all out?

john k nh: Criticism: not enough questions focused on biotechnology: the genetic manipulation question and the ethically fallout.

Starlyn F CO: lol

Jennifer T NH: I really think it is important to define fact vs fiction- so we can all be on the same page in the future...

kokila r ga: One more question - how expensive will the maintenance of these NBIC technologies be?

Peter C NH: hear, hear.

john k nh: Informed consent on human subjects...like us in this study...must be a non-negotiable demand.

Moderator (bob): Remember - by the end of your hour, you need to come up with 2 questions that the group can vote on later. ALSO remember - questions that don't make the cut - save them. You may get a chance to ask them as follow-ups when the experts are on line live.

Stephanie U GA: Could vision chips, barless prison tech be taken out or turned off?

kokila r ga: Can #2 and 11 be rolled into one?

Starlyn F CO: that's what I was addressing above (Stephanie's question)

alan h ca: i think 2, 4,5,6 and 11 are important

magda: I though our focus was on human enhancement

Moderator (Tina Ndoh): I missed some conversation. What were the questions about informed consent and emphasis on biotechnology be posed again?

Starlyn F CO: I thought so too

foster f GA to Patrick Hamlett, bob, Tina Ndoh: Bob I review these and begin to think that the big picture is missing in some respects. Not to be petty but must think in the "future and development"

Moderator (bob): Kokila - #2 and #11 do look pretty similar.

janine CA: i like #4 & 11

Madhavi D WI: The 'Enhancements divide' question too.

alan h ca: as an example of consent...the 24/7 soldier...will he be able to consent to this or be forced on him

Starlyn F CO: My 'faves' are #s 4, 6 & 7

john k nh: Farther up in the transcript I framed a question about informed consent for human subjects: it is necessary to be strong on this....as a question to the experts.

Moderator (Patrick Hamlett) to foster f GA: Foster: Please save your comments until Team 5 is active

foster f GA to Patrick Hamlett, bob, Tina Ndoh: sorry thought it was open for comments

kokila r ga: #3 and #4 seem to be sharing the same goal?

Starlyn F CO: And I also like the enhancement divide issue a lot... if we can pose that one here.

john k nh: Biotechnology: the current status somatic protein manipulations versus germline changes.

Moderator (Tina Ndoh): Number 2 and 11 are being combined.. no content difference

Stephanie U GA: Can the genetic tech be changed back? (I would think not, but wouldn't that interfere with future person's freedom of choice?)

magda: 4,5 and 6 I think as a combined question are my vote

kokila r ga: Can 7 and 8 be combined as a sort of "history" question - where are we at this point in NBIC development?

janine CA: can 9 10 be combined

Madhavi D WI: 1 and 6

Peter C NH: I don't understand what #2 or #11 mean: which n-tech? N-machines/particles could be designed to clean up spills, etc -- others would pose grave dangers by their very presence. I find the question too general.

janine CA: 7 & 8

Moderator (Tina Ndoh): Is there agreement on combining 9 & 10?

kokila r ga: I love question #1 - I hope it stays!

janine CA: yes

Stephanie U GA: For evil doing meaning can hackers hack in and give you Alzheimers?

Starlyn F CO: Yes.

Jennifer T NH: sure

Terry R AZ: Terry R Az yes on 9&10

Ricky L. Co to Patrick Hamlett, bob, Tina Ndoh: Works for me!

alan h ca: yea

kokila r ga: Sure

janine CA: 7 & 8?

Moderator (Tina Ndoh): Alright, combining 9 & 10

Moderator (bob): So far, Questions #1, 4, 5, 6 and 11 seem to be the most popular. Can we winnow down and concentrate on those?

john k nh: evil doing is question of intent, what is not socially, ethically, legally permitted.

Moderator (Tina Ndoh): Janine, are you asking to combine 7& 8?

alan h ca: alongs as it is framed in a way that it covers both

Starlyn F CO: yes, hang on... want to read again.

Jennifer T NH: sounds good

john k nh: the word itself is meaningless.

Moderator (bob): John K NH - Which word are you refering to?

janine CA: yes

john k nh: With these technologies and human subjects, patients, consumers, the potential ALWAYS exists for misdeeds.

Peter C NH: I think 1 and 5 are a good start.

john k nh: the word evil

Moderator (Tina Ndoh): Group, would you agree to combine 7 & 8?

Jennifer T NH: ya

kokila r ga: I don't have a problem with that

alex r co: yes, thats fine

Starlyn F CO: okay

alan h ca: wold it be hard for the expert to answer with them combined?

Terry R AZ: terry R Az 7&8 good

magda: I don't see what they have in common.

janine CA: r we combining 4 & 6?

Madhavi D WI: Question on regulations can be combined as -who, how, what?

Stephanie U GA: I agree, evil itself is meaningless. I just would like to know if it can be hacked, and if there is potential to use it for biochemical warfare.

john k nh: OK tina, on 7 and 8, how about including what safeguards exist for human testing?

Starlyn F CO: Maybe reword it to "Is it already being tested on humans here or anywhere in the world?"

janine CA: yes

kokila r ga: Sounds good, Starlyn

Stephanie U GA: starlyn That sounds ok.

Moderator (Tina Ndoh): Ok, combining 7 & 8

Starlyn F CO: So, where are we now in determining our 2 questions?

Stephanie U GA: This is really hard. I wish all of our questions could be answered.

Catherine J NH to Patrick Hamlett, bob, Tina Ndoh: I can't read my list--it's running together.

Moderator (Tina Ndoh): I am going to update the slide

magda: That question does make sense Starlyn. However, if the answer is yes, is there a more important question we should be asking, because if it is no, it won't be for long..We need ONE or Two Questions

janine CA: can we vote on our two q's when the slide with the combined q's is up

Starlyn F CO: Right, Stephanie

Moderator (bob): OK - Team 6. You have about 20 minutes to winnow this list down to TWO possible questions. Of the questions up there, which are the most important to ask experts?

Catherine J NH to Patrick Hamlett, bob, Tina Ndoh: Thank you! It's fixed

Moderator (Tina Ndoh): What about Janine suggestion to combine 4 & 6?

alan h ca: 2 and 4

janine CA: i like 6 & 4 to be combined

Jennifer T NH: 5

Jennifer T NH: 7

john k nh: I'm sorry, but "evil-doing" sounds like our commander and chief, and he's no ethicist.

alan h ca: 2 and 4 as important questions to ask

magda: I like 4 and 6 combined Yes

john k nh: misdeeds rather than "evil-doing"...by states...not "terrorists."

Starlyn F CO: Yes, 4 & 6 combined.. basically the same.

Peter C NH: I'd like to drop 8 until we have a proper discussion of what 'evil' is.

kokila r ga: Can 4 also include 1 in some way?

janine CA: i pick q's 4/6 & 7

kokila r ga: I am willing to let go of 8

Moderator (Tina Ndoh): I will combine 4 & 6?

Moderator (Tina Ndoh): sorry, that was not a question

Peter C NH: yes , 4 and 6

Starlyn F CO: yes.

janine CA: how about evil is something that hurts the physical, mental, or economic well being

Peter C NH: in whose opinion?

janine CA: never mind

Mark Philbrick CA to Patrick Hamlett, bob, Tina Ndoh: Tina: 3 could also go with the combination of 4 & 6, if the participants like

kokila r ga: What about 3 - that can also be added to mix - 3,4, and 6?

Starlyn F CO: yes, evil-doing is something that harms the well-being of people, environment, animals, etc., etc.

magda: I think we can all assume that everything has potential for evil. A little "natural" cyanide or organic arsenic goes a long way

janine CA: yes 3/4/6 I like the combo q's more info for our time

Peter C NH: yes

janine CA: let's not forget ricin

Starlyn F CO: No, I think #3 stands alone as it has an international component.

magda: Any combination re regulation. Let's phrase the question.

Madhavi D WI: Yes, I agree

kokila r ga: Can't an international body do all the regulating?

alan h ca: I like 2 and 4 because they are specific questions.

Starlyn F CO: Hmmm, not sure about that one, ko

Moderator (bob): We have a few saying throw 3, 4, 6 together. One points out that as an international question, it should stand apart.

john k nh: Like the Nuremberg Trials said, the act of aggression holds within it the entirety of the evil...sorry for the paraphrase

magda: Kokila think globally, act locally

alan h ca: I agree that 3 should stand by itself

Starlyn F CO: I stand by my opinion - on number 3

john k nh: Aggression in this case, the Nazi invasion of European states

janine CA: maybe the 2nd half of 3 should go with the #7 q

kokila r ga: It could be a broad question - do we want an international body or would we negotiate with an international organization and abide by common consensus as the impact will have international implications?

Terry R AZ: terry r Az international means all people ,Do we include IRAQ???

alan h ca: 7 doesn't really touch on regulation

john k nh: In my humble opinion, this is fairly weak list, but I'll vote.

Moderator (bob): If #3 stands alone. You could always ask it of our regulatory expert as a follow-up when he/she is on line.

Stephanie U GA: I don't have as big an issue with biowarfare as I do ability for hackers to interfere with brain chips.

Starlyn F CO: Well, that's a question in and of itself - and I like it.

Madhavi D WI: I think if 3 is not combined with 4 and 6, the answer would be too simple

alan h ca: isnt that what we want...simple answers

Starlyn F CO: yes, please! LOL

janine CA: i agree with bob and think we should choose 2 q's now

Starlyn F CO: are we getting a new slide or no?

Moderator (bob): Remember - we need to get down to 2, maybe 3 questions from this list in about 10 minutes.

Starlyn F CO: Okay, let's vote now with no more questions...

john k nh: So, how do we tally votes?

Moderator (Patrick Hamlett): Tina has been modifying the original slide as we go along...

alan h ca: I believe 2 and 4 encompass all that we want to really know

Moderator (bob): Ask yourselves - What is MOST important to know for you to make policy recommendations.

Stephanie U GA: #7 is my favorite. I think it's imperative to know what other countries are doing or have already done.

Jennifer T NH: can we vote on that thing we did the first night? it would be a lot easier than everyone typing what and why they like questions

janine CA: i pick the 4/6 combo & 7. whatever the vote count is with the group i will go along with it even if you don't pick one that wanted.

john k nh: How to configure policy so that medical applications take precedence!!!

Moderator (Tina Ndoh): Slide has been updated... I was trying to wait for a resolution on combining 3 and 6

magda: maybe we can add 3 as the end of the questions...and what effort is being done make an international regulatory board,.(you are assuming US would be in charge)..I assume you would not approve of China being the decider

Starlyn F CO: I'm going with #s 1 & 4

john k nh: helping humans before destroying (darpa) or "enhancing" them!!!

Stephanie U GA: Wait, I said #7 but I meant #6, to know what other countries are doing!! YIKES!!!

Terry R AZ: Terry R Az my vote is for 2 & 3

alex r co: Def. #1 and...

alan h ca: what happened to the original 4

alan h ca: im lost now

Madhavi D WI: i choose 1 and combo of 3 and 5

Moderator (Tina Ndoh): Stephanie, please clarify, did the questions not combined in the way you intended?

Peter C NH: I don't think 3 is answerable: we can regulate international commerce, but no international body can regulate internal activities (research), and invasion has not proven very effective.

john k nh: replace "evil-doing" with "muse of NBIC"..pretty please.

john k nh: misuse

Stephanie U GA: I want to know what does the competition know. So I guess my favorite is #6.

alex r co: so which two are we agreeing with?

kokila r ga: My vote is for 1 and 2

john k nh: State level of this technology is facical andshould be stricken as a question.

janine CA: oops I meant 5 & 6 i picked before the renumbrd slide went up

alan h ca: 2 and 5

john k nh: I guess I don't like it.

Moderator (Tina Ndoh): Shall we combine # 3 and 6, just team 6, vote yes or no using the buttons at the top of the screen

john k nh: state level regulation

Moderator (Tina Ndoh): Only Team 6, vote now!

Stephanie U GA: As far as combining to get #7. I'd like to know about biochemical warfare potential, but I don't think that is evil doing. I think of wrong doing (better wording?) as being able to "hack" into this technology. You know, some people spend their whole days hacking.

magda: I want a question focused on the topic,,

alan h ca: vote!!!

Stephanie U GA: YIKES! I vote for #6!!!

Starlyn F CO: Use the buttons...

Moderator (Patrick Hamlett): Team 6: Vote yes or no by clicking on the check mark or the x at the top of the screen

Terry R AZ: No Buttons Terry R Az 3&6 Good

Moderator (Tina Ndoh): The check mark at the top is 'yes', the x is 'no'

foster f GA to Patrick Hamlett, bob, Tina Ndoh: I'mback got booted

Terry R AZ: terry r az ok

john k nh: which screen?

john k nh: participation?

alan h ca: just above participants screen

Moderator (Patrick Hamlett): Team 6: Shall we combine #3 & #6? Click on the check mark for Yes and the X for no

alan h ca: if you have it in wide mode

john k nh: thanks

Moderator (Patrick Hamlett): Alex: Please vote

Peter C NH: Moderator: can you put up 7 letters to vote on seven questions?

Moderator (Tina Ndoh): Peter, the maximum is 5, so we need to refine the list

alan h ca: where running out of time

janine CA: can't we just each pick two and whichever ones have the most 'picks' are 'it'?

Peter C NH: moderator: can you poll us each in turn for two choices?

alan h ca: is alex even there?

john k nh: I vote for # 1 & 5.

alex r co: yes, i've responded

Stephanie U GA: Drop #7, in my opinion. biochemical warfare already exists anyway.

Peter C NH: I vote for 1 and 5

magda: agree with Stephanie

john k nh: right, the prescription meds in drinking water....

alan h ca: good point

Moderator (bob): We combine those questions. Close vote, but we haven't the time to debate it any longer.

Mary D Ca to Patrick Hamlett, bob, Tina Ndoh: Is it only team #6 that's voting?

john k nh: well....we're running the clock out

Moderator (bob): ONLY TEAM 6 IS CURRENTLY VOTING.

Stephanie U GA: This is going by much faster than previous sessions.

alex r co: so what two have been choosen from team 6?

Madhavi D WI: i feel the same

alex r co: do we have that yet?

Jennifer T NH: nope

john k nh: Humbly, there are process issues with this process.....

janine CA: i pick 5 & 6

alan h ca: wait for the screen

Terry R AZ: terry R Az cancel hand up, My mistake

Starlyn F CO: I think I already chose 1 & 4

Stephanie U GA: Kinda seems like #1 can combine with 3 & 6.

alex r co: 1 and 6 for me

Moderator (bob): Now we need to take one more vote. Of the five remaining questions. Which ONE is your favorite. ONLY TEAM 6 MAY VOTE.

Starlyn F CO: No more combining!

Moderator (Patrick Hamlett): Tina is creating a poll slide of the first 5 questions -- Team 6 will vote for the one each of you thinks is most important.

janine CA: 5

alan h ca: do the letters correspond to the questions?

Madhavi D WI: c

Jennifer T NH: 4

Stephanie U GA: C! C is my vote.

alan h ca: thank you

Madhavi D WI: c

Moderator (bob): Janine - Vote using the A, B, C, etc. at top of screen.

kokila r ga: A gets my vote

Madhavi D WI: other than A right

Moderator (Patrick Hamlett): Vote by clicking on the letter at the top-right of the screen, not here in the chat area

Moderator (Patrick Hamlett): Stephanie: Please vote

Moderator (bob): Results are being posted.

magda: vote e vote e vote (subliminal)i

Moderator (bob): The top two vote getting questions are selected by Team 6 when poll results are posted. These will be presented, along with

questions generated by Team 1 to the entire group at the end of the evening.

kokila r ga to Patrick Hamlett, bob, Tina Ndoh: Yeah A won!!!!!!!

Moderator (Tina Ndoh): The 'none' vote is due to all the panelists who are not currently active

Starlyn F CO to Patrick Hamlett, bob, Tina Ndoh: figured

Moderator (bob): Results are A, C & E tie, we'll keep both of those for now.

Moderator (bob): WE are moving on to Team 1 - You are now chat active.

Jane L NH to Patrick Hamlett, bob, Tina Ndoh: In observing over the last few session, I can't help but be concerned that we are generalizing when we say "developing technologies." There are so many different areas to consider. Improving people's lives medically is a long way from biochemical warfare, brain chips, etc. ... Wouldn't there be different sets of regs for the different technologies? And we go international, the political aspect plays a huge negative role...as in the "arms race"? It would become the "nano race"? Question is: do we need to break this down more, or is everyone comfortable with this broad approach? Maybe I'm missing a point...?

john k nh to Patrick Hamlett, bob, Tina Ndoh: muchas gracias todos!

Dana A WI: We've asked for the current status of nanotech development--are we including both the public and the private sector? Does anyone know the status of development in the private sector?

Dana A WI: Or can we assume that when we ask for the current state of development, we're talking both sectors?

Moderator (Patrick Hamlett) to Jane L NH: Jane: Make sure you are sending your message to "This Room" next to the Send button -- this message came only to the moderators

Moderator (bob): We will be going through the same process in your hour. We want to get to 2 questions you feel are most important to ask the experts. Hopefully they'll be different questions than the ones just selected by Team 6.

Eric B CO: I think you end up with different degrees of ethics from the public and private sector

Jane L NH to Patrick Hamlett, bob, Tina Ndoh: That dropdown is not highlighted and won't change

Eric B CO: it might worth comparing and contrasting which sector is where

Brett K CO: I think that we need a good starting point before we move on, maybe ask for an overview of what technology is currently in use, and what is going to be put into use soon, I think that bionic eyes are a ways away, but some others might not be

Moderator (Patrick Hamlett) to Jane L NH: Try again...

Jane L NH: Okay now...?

Stuart S AZ: I don't know just what we would call nanotech development, especially at this time. There are numerous products claiming to have some nanotech implications and others supposedly in the works as a display screen with nanotubes on the back for even lighting at low power. The question is whether this is just hype.

Moderator (Patrick Hamlett) to Jane L NH: Jane: Yes!

Tim H GA: i agree with Stuart

Tim H GA: The most important question during this Infancy stage of nanotechnology is this:

Tim H GA: Since we have read about the future potential nanotechnology, what is the most advanced nanotechnology developed to date?

Don B NH: Given the emphasis that there has been in the past regarding the need to reach a sustainable balance between the earth's finite resources and its population, what could possibly be the justification for funding R&D towards significantly extending life through artificial means? What would the benefits for humanity be?

Jane L NH: thanks!

Charles P CA: I still am concerned about environmental impact. Printers now spew nano particles; what else is known to produce nanos?

Catherine J NH to Patrick Hamlett, bob, Tina Ndoh: Could you increase the font on the questions, now that we know the vote?

Stuart S AZ: A lot of experimenters have found a way to work nano into the title of their work for their funding proposals.

Eric B CO: Do we need the expert to answer a question framed as to provide a clear and definite barometer for the populous?

allison a ga: will my mainte\*nance for my implant be covered by my ppo?

Moderator (bob): Remember - we are specifically talking about nano for NBIC technologies, so things like stain resistant pants are out of the discussion.

Mark Philbrick CA to Patrick Hamlett, bob, Tina Ndoh: Tina: I think there was some (understandable) confusion in combining. The former 3, 4, and 6 were all about regulation at various scales (state and federal in the US, and international).

Dana A WI: Since insurance companies typically don't cover 'experimental'

Charles P CA: will implants be upgrade-able?

Jane L NH: Eric, I agree....Where are we in R&D and WHO is in charge? Private? Public?

Mark Philbrick CA to Patrick Hamlett, bob, Tina Ndoh: The status of nanotech and human testing in other countries was the former question 7. From what I saw in the discussion, if you rewrote C to reflect that, it would take votes away from E, and you'd have your narrowing.

Eric B CO: Question #1 perhaps?

Stuart S AZ: We might be completely upgrade-able if the science fiction nanotech comes into being.

Tim H GA: Is it possible to see a video of nanotechnology advancement?

allison a ga: will regulations be put to a vote my the general public?

Dana A WI: Since insurers typically don't cover experimental procedures, it would seem like it will be a while before insurance will cover any nanotech.

John E WI: How about this for a question: What are the current benefits and problems we are aware of with current nanotech. products on the market? (According to the nanoproject.org there are over 400 products using nanotech as of this date in the U.S.)

Brett K CO: I like that John

allison a ga: good question john

Charles P CA: Me too

Eric B CO: Let's get a clear idea of how and what the process was to get them to market

Dana A WI: Great question, John. Is there a way to keep the regulation of nanotech immune to the vagaries of which politician is currently in the White House?

John E WI: Thanks!

Tim H GA: i agree...good question john

Moderator (Patrick Hamlett): John: can you narrow your question down to NBIC applications, so that we're not including things like tennis balls & stain resistant clothes?

Charles P CA: is there a way to keep us all immune to the vagaries of the White House?

Moderator (bob): John - Just be aware that much of available info on current products may not be about NBIC technologies.

Eric B CO: stain resistant balls

Stuart S AZ: One thing about waste, with envisioned assemblers are developed, they would seem to produce little, if any. In fact, assemblers could also be disassemblers and break down what we consider waste into feedstock for new products.

Jane L NH: If there were a public vote, who would be informed enough to decide? I need to ask whether there is a timeline, goals, regs in consideration, and who?

Dana A WI: word, Charles P.

Don B NH: I suspect that adding the "C" to "NBIC" greatly narrows things down ... I suspect a lot of medical advances may be in the category of "NBI" or just "NB"

Jane L NH: I feel like I have missed a chapter if everyone is already talking about insurance coverage! Are we really that close to the nano world???

Moderator (Patrick Hamlett): Jane: Does Question E cover your concerns?

Stuart S AZ: When something does not exist, and you don't know the difficulties you will find, how do you schedule a development timeline?

Eric B CO: I agree Jane

Brett K CO: How about this for a question, since NBICs are based on converging technologies, should there be a similar 'convergent' regulatory body?

Dana A WI: I agree, Jane; that's why I say questions about coverage are premature --

John E WI: Bob: can't be too precise, but according to the article I read, there are 75 current cosmetics that incorporate nanotech--still looking for any disease/injury remediation

Tim H GA: what is the most advanced nanotechnology developed to date?

Eric B CO: John E's question from moments ago began heading in a good direction

foster f GA to Patrick Hamlett, bob, Tina Ndoh: back;tired of the boots'must be the security ware i rum

Eric B CO: WE don't even know the processes for R&D, policy, etc. that these went through.

Eric B CO: let's find those out and extrapolate to the future....

Moderator (Patrick Hamlett): Don S: I've added you to this discussion..

Moderator (bob): Eric - By that do you mean the question about have any negative effects been sdiscovered thus far?

Eric B CO: no sir. more coming...

Eric B CO: about the products that are currently in the market place

Eric B CO: what protocal's have they been subject too

Eric B CO: ...cols

Don S WI: Thanks Patrick

Moderator (Patrick Hamlett): Eric: Does Question E cover your concerns?

Tim H GA: i like john e question: John E WI: How about this for a question: What are the current benefits and problems we are aware of with current nanotech. products on the market? (According to the nanoproject.org there are over 400 products using nanotech as of this date in the U.S.)

Dana A WI: A new question: what role do experts see for public involvement in development and regulation? And how do we ensure public involvement?

Moderator (bob): Team 1 - Do you still need Team 6's top questions posted on the whiteboard or can we take thos down & put up your suggestions so far?

Eric B CO: yes that's the question...thanks Tim H!

Don S WI: Put another way - if some nanotechnologies are already developed and in use, what kinds of accidents or problems have already occurred and how have they been dealt with?

Charles P CA to Patrick Hamlett, bob, Tina Ndoh: Take 'm down

Dana A WI: I don't need 6's questions still.

Eric B CO: done w/ 6

Don S WI: Me either

allison a ga: me either

Jane L NH: Good one, Don....

Brett K CO: you can take them off

Don S WI: Thanks Jane

allison a ga: godd question don,

Eric B CO: I agree Don...there is the beginning at least of a control group for continuing nano development, it is that which has already taken place and entered the market

Moderator (bob): We'll replace Team 6 list with your suggestions thus far in just a second. Tina's typing as fast as she can!

Eric B CO: what are the strengtghs and weaknesses. we as consumers do not know.

Dana A WI: and she's doing an amazing job. Thanks, Tina.

Eric B CO: Maybe information dissemination is also an issue that needs to be addressed

Moderator (bob): Team 1 - Your suggestions thus far are now on the whiteboard.

Moderator (Tina Ndoh): thanks Dana

Eric B CO: Most people don't know that nano material is in their sunscreen, lipstick and pritner ink.

Don S WI: Yes, I'm kind of frustrated that just getting this kind of background info on the current state of development and regulation is consuming so much of the project - seems like a lot of these questions should have been covered in our initial background materials

Brett K CO: I agree Don

Eric B CO: are we going to wait until it's "known to the state of California to casue cancer in lab rats..." to add the labels

Don B NH: There is a tendency to lump all nanotechnologies into one ... are we only considering NBIC, or NBI, or NB in terms of human enhancing technologies?

Stuart S AZ: If you spend all day on the internet looking at nanotech news, you would not be able to keep up with it all. Nor evaluate it.

John E WI: I had to take a quick phone call--just got back--thanks for everyone's input--I'm still catching up

Jane L NH: What agencies both private and public are currently leading the nano field and

Charles P CA: I would like to add public information to G.

Eric B CO: I don't think it's a deficiency per se in the background materials but negligence by the feds and industry.

Moderator (Patrick Hamlett): Don: One problem with "current state" discussions of NBIC is that most of the technologies of human enhancement simply don't yet exist, or are in laboratory stage development at most. This is different from asking about the impacts of nano-particles in consumer products (sun screen, etc.) as these are not enhancement developments

Jane L NH: I believe D to be premature.

Charles P CA: I agree

Tim H GA: I agree too

Dana A WI: me, too.

Dana A WI: can we agree to scratch D?

Moderator (Tina Ndoh): Jane L, is that a question about which agencies are adding to nano field?

Tim H GA: can we remove d?

Charles P CA: yep

Don B NH: Question E is ill posed because "nanotech" is too general

Don S WI: Patrick, that's fine but I don't remember the materials saying anything about what has actually been developed in human enhancement technologies, and in our F2F we talked about the lack of specificity in the nano-scenarios - are they maybe a year away, 10 years, or what?

Moderator (Tina Ndoh): Do others agree on removing D?

Tim H GA: questions A,B and E are similar

Don B NH: remove D

Jane L NH: question G: what sort of public involvement?

Charles P CA: reove D

Eric B CO: The issue of existing consumer goods does play into NBIC in the way that NBIC will pose at least the same amount of potential toxicity.

Don S WI: Also, little to no mention at all in the materials about regulations other than FDA - there must be more going on or in the works than that

Eric B CO: Unintended Long term consequences

Moderator (Tina Ndoh): Note that there is a new question H

Brett K CO: I think that a big concern about the safety of these products is that current rules/regs for safety/efficacy are based on materials and research that dont speak to nano particles. Should there be new research methods regarding safety that are tailored to nano particles?

Moderator (Patrick Hamlett): Don S: Because most human enhancement technologies are likely to be medical applications, the FDA would be the lead agency with jurisdiction

Jane L NH to Patrick Hamlett, bob, Tina Ndoh: I am not getting chat

Don S WI: What about HHS?

Moderator (Tina Ndoh): Should we combine A "& B, in response to an earlier suggestion?

John E WI: Good question, Brett K Co

Dana A WI: I think the FDA is part of HHS.

foster f GA to Patrick Hamlett, bob, Tina Ndoh: sorry I have to pass my disapproval

Eric B CO: I thought B& G could also combine, perhaps the three?

Moderator (Patrick Hamlett) to Jane L NH: Jane: Your chat is active...

Brett K CO: I think we can combine A and B

Don S WI: NSF, NIH, CDC, DOD...?

Tim H GA: yes, i think a,b and d are similar

Eric B CO: D& G?

Dana A WI: Tim, add G and we've got one good/long question.

Eric B CO: F&H?

allison a ga: yes

Don S WI: Here's another one to consider: What institutions (governments, corporations, think tanks, private organizations, watchdog groups, churches or other religious groups, etc.) have the strongest interest in preventing development of NBIC technologies, and what are they doing or trying to do to stop it?

Tim H GA: agree

Moderator (Tina Ndoh): For now, just respond to combining A& B and we can go from there.

Don S WI: Agree w/ combining F & H

Don S WI: Yes, combine A & B

Moderator (Patrick Hamlett): Don S: NSF NIH CDC & DOD sponsor research but are not regulatory agencies

Tim H GA: Yes, combine A & B

Don S WI: OK

Dana A WI: I think we can also combine G with A & B.

Jane L NH: yes, combine A&B

John E WI: Good question, Don S WI

Tim H GA: i would remove private sector though

Moderator (Tina Ndoh): Alright will combine a and b

Dana A WI: Tim, can you say why?

Charles P CA: Yes, combine away

Tim H GA: private or public..it doesn't matter the sector

Don B NH: What will happen to the field of psychotherapy with the onset of NBIC implants altering what it means to be human, i.e., who is going to be prepared to deal with the "unknown consequences" of mental health ramifications?

Dana A WI: I just want to be sure that our question encompasses both sectors.

Tim H GA: it could be from a university

Dana A WI: that would be sectors.

Jane L NH: I think we need to know status of all development

Dana A WI: I agree, jane.

Tim H GA: i agree too

Dana A WI: Should we start voting?

Moderator (bob): Can Questions C and F be combined. Both deal with what we know about current nano technologies?

Brett K CO: yes, combine them

Charles P CA: Yes, Combine C and F

Jane L NH: yes..C&F

allison a ga: combine the

Moderator (bob): Hold on the voting a moment. I've just asked about a combo of C and F.

Tim H GA: yes, c&f

Don S WI: Don B - interesting question but I wouldn't limit it to the scope of psychotherapy - there would be all kinds of social ramifications involved in that "what it means to be human" area, I think

Don B NH: Don S - I agree, but I was trying to relate to something specific -

Don S WI: I think C & F are distinctly different

John E WI to Abraham E CO: Don B NH: great question. I think it will be important to keep an individual's "psyche" in mind.

Dana A WI: I think F & E could be combined.

Jane L NH: B is a huge question, ? Do we want to go there?

Don B NH: Don S - this is a new F

Moderator (Tina Ndoh): Agreement of combing f and e?

Tim H GA: i don't think H is a good question for experts

Moderator (Tina Ndoh): combining

Dana A WI: Yes.

Brett K CO: I don't like question H, how can you ask an expert about unknown consequences

Moderator (bob): OK - We are running low on time. What I need from you now is a "chat" vote on which questions listed are the most important. In order to do a vote, we can only have a maximum of five questions.

Don S WI: Yes on E&F

allison a ga: f is a very good question

Charles P CA: Combine e,f

Moderator (Tina Ndoh): allison, can it combine with e?

John E WI: e&f o.k.

Don S WI: I agree with Brett that H is poorly worded - I'd drop it

Dana A WI: I'd vote for eliminating G and H.

allison a ga: yes it can

Eric B CO: agreed to drop H

Tim H GA: i don't think H is a good question for experts

Charles P CA: Drop H

Moderator (Tina Ndoh): will drop h, and combine e and f

Moderator (bob): OK - Dropping H

Eric B CO: actually I think the answer to G already exists and it's yea

John E WI: I think G is important--maybe new research and quality testing.

Don S WI: I think B is something important to consider but also probably not a good question for experts - we can all probably answer that one ourselves

Eric B CO: F as it exists should be discarded

Don B NH: In defense of H - if scientists are considering brain implants that will affect memory, processing information in new ways - is anyone considering the impact on the "self" ?

Brett K CO: maybe we could combine d and f

John E WI: I say keep F

Dana A WI: I agree, Don S; B seems a little too esoteric to ask that at this time.

Eric B CO: that could work

Moderator (bob): Note to the rest of you not on TEAM 1. Right now only Team One is votuing, but you will get a chance to select the top two questions from those chosen by Teams 6 and 1 a bit later. Hang in there.

Tim H GA: i agree: I think B is something important to consider but also probably not a good question for experts - we can all probably answer that one ourselves

Moderator (Tina Ndoh): agreement on dumping question b?

Dana A WI: Yep.

Eric B CO: yes

Brett K CO: yes, drop it

Tim H GA: yes

Charles P CA: Yeah

Stuart S AZ: Yes.

Don S WI: Don B - I think your Q is maybe a little too philosophical to prioritize above the more concrete answers we need at this point. Would be good for later in the month, I think

allison a ga: yes

Dana A WI: and now we have 5, ladies & gentlemen.

Dana A WI: oh, we wanted to have 1 address both ublic & provate sectors, I thought.

Moderator (bob): OK - We can run a vote now that we are down to 5 questions. ONLY TEAM 1 MAY VOTE. Which if the questions listed is the MOST important question you'd like to ask the xperts.

Dana A WI: sorry for the bad spelking.

Moderator (Patrick Hamlett): To vote, just click on the letter at the top-left of the screen

Don B NH: I should remind people that I believe that the set of "experts" includes ethicists, religious folks, etc - am I not right moderators?

Tim H GA: can we add public with private sector?

Dana A WI: gare we voting for 1 or 2?

Eric B CO: toss up between B & D...

Moderator (bob): At the top menu bar you'll see voting choices corresponding to the letter of the questions on the whiteboard. Team 1 - Vote now.

Tim H GA: can we add public with private sector?

Tim H GA: in A

Moderator (Tina Ndoh): agreement with Tim on adding public with private in q A?

John E WI: yes

Jane L NH: yes

Charles P CA: Sure, add away

Dana A WI: yes.

Stuart S AZ: yes

Dana A WI: Bob, are we voting for 1 question or for 2?

Moderator (bob): We will add public to A.

Moderator (bob): Results will be posted momentarily.

Dana A WI: I want to change my vote, but the system won't let me.

Tim H GA: change to what letter?

Dana A WI: A

Moderator (Patrick Hamlett): Dana: go ahead, but Tina will need to do a new slide

Moderator (Tina Ndoh): go ahead a revote Dana

Dana A WI: thanks.

Moderator (bob): OK - Now results will be posted as soon as Tina can get them on the board.

Dana A WI: cool.

Don S WI: Aarggh.. lost my connection for awhile and missed the vote - I wanted to vote A

Moderator (bob): A is at the top. B & D tie. We need you to pick B or D so we can get to the general vote of all questions tonight. The system only allows a max of 5 responses.

Tim H GA: questions A & B could be one long question

Dana A WI: Can we combine them?

Jane L NH: good idea

John E WI: good idea--I am for A&B

Don S WI: I'd be OK with that

Charles P CA: I too

Moderator (bob): We could do that. Shall we put B into A?

Brett K CO: sure

Eric B CO: sure

Dana A WI: Yes, please.

Stuart S AZ: yes

Don S WI: Yep

Tim H GA: i vote yes

allison a ga: thats cool

Moderator (bob): Seeing wide agreemnet we are now down to 5 questions for tonight. A (combined with B and D).

John E WI: yes, do it

Dana A WI: Great questions--I guess we're called Team 1 for a reason...

Don S WI: I'm actually on team 5 but thanks for making me feel at home

John E WI: couldn't have done it w/out, Dana

Tim H GA: lol

Dana A WI: awww, shucks.

Don S WI: (I lost connection Sun. night when it was my turn and couldn't get back in so I got added to tonight's discussion)

Moderator (Patrick Hamlett): Hang on everyone, one more vote coming...

Moderator (bob): Everybody - whether chat active or not - Tina is getting the final questions from Teams 6 & 1 ready. There will be five questions. We want EVERYBODY to vote for ONE of those questions. The top 2 questions selected will go to the experts in advance.

Moderator (bob): OK - You may now vote!

Dana A WI: Bob, can you post all the questions on the website so when we have the experts here, we can refer to the longer lists?

Tim H GA: you forgot to add public private sector

Moderator (bob): Everyone can vote - Not just those on Teams 6 and 1.

John E WI: I think "publicsector is missing from A

Moderator (Patrick Hamlett): When we say "everyone" vote, we don't mean the facilitators at the local sites!

Jennifer C GA to Patrick Hamlett, bob, Tina Ndoh: having trouble. don't know what is wrong.

Mark Philbrick CA to Patrick Hamlett, bob, Tina Ndoh: we knew that

trisha b AZ to Patrick Hamlett, bob, Tina Ndoh: I vote for B

Moderator (Tina Ndoh): sorry, cut and paste from old slide... public has been added

Charles P CA: oh, those pushy facilitators

foster f GA to Patrick Hamlett, bob, Tina Ndoh: voted a & b but don't think a showed

Eric B CO: b

Eric B CO: whoops, sorry

Nathan\_C\_WI to Patrick Hamlett, bob, Tina Ndoh: can't get my voter thing to work

Jennifer C GA to Patrick Hamlett, bob, Tina Ndoh: I am trying to choose D but cannot

Moderator (bob): Dana - All questions discussed tonight will be available at the website in Chat mode & whitescreen mode.

Mary D Ca to Patrick Hamlett, bob, Tina Ndoh: Are we to only choose 1 from this list?

trisha b AZ to Patrick Hamlett, bob, Tina Ndoh: did you get my vote.. not lit up

Dana A WI: thanks.

Moderator (Tina Ndoh): Foster, You can only select 1 choice, but the top two choices from everyong will go into the pool.

Moderator (bob): Choose only one - Yes.

Moderator (Tina Ndoh): Trisha, we see your vote now

foster f GA to Patrick Hamlett, bob, Tina Ndoh: thanks got the right one

trisha b AZ to Patrick Hamlett, bob, Tina Ndoh: thanks

Juan N GA to Patrick Hamlett, bob, Tina Ndoh: time to go

Tim H GA to foster f GA: foster..I thought intelligent minds thought alike??

Mary D Ca to Patrick Hamlett, bob, Tina Ndoh: In that case I want to switch to A rather than D

Moderator (bob): Only a couple have not yet voted. Please do so now. Please hang on so we can show results.

Nathan\_C\_WI to Patrick Hamlett, bob, Tina Ndoh: E

Jennifer C GA to Patrick Hamlett, bob, Tina Ndoh: I am trouble - NOW? what?

alan h ca to Patrick Hamlett, bob, Tina Ndoh: nathan!!!

Jennifer C GA to Patrick Hamlett, bob, Tina Ndoh: I cannot see response/message!

Moderator (Patrick Hamlett): Ariel: please vote

Moderator (Tina Ndoh): Mary, go ahead and change your vote

Jennifer C GA to Patrick Hamlett, bob, Tina Ndoh: Okay, got it now. thanks.

Tim H GA: they probably fell asleep

Don S WI: At least they're logged in - I thought there were supposed to be 90 of us!

Moderator (bob): Voting is closed. Sorry. Results posted momentarily.

foster f GA to Patrick Hamlett, bob, Tina Ndoh: Tim a was my fiirst

Moderator (Patrick Hamlett): We'll post the results in a moment...

Eric B CO: Is this the answer key to exam #7?

Madhavi D WI to Patrick Hamlett, bob, Tina Ndoh: I think A and D have similarities, does anyone else see it too

Brett K CO: no it's #8...

Eric B CO: nice dude, couldn't remember

Nathan\_C\_WI to Patrick Hamlett, bob, Tina Ndoh: did my vote count

magda to Patrick Hamlett, bob, Tina Ndoh: Eric the answer is 42

les k wi to Patrick Hamlett, bob, Tina Ndoh: yeah a!

Moderator (Tina Ndoh): Sorry for the technical difficulties!!

Don B NH: I don't understand the % - there were 30 As counted

Don B NH: ok

Ashley J GA to Patrick Hamlett, bob, Tina Ndoh: Are we finished for the eveing?

Jennifer C GA to Patrick Hamlett, bob, Tina Ndoh: I quit.

Dana A WI: B & E are tied..will we have a vote-off?

Nathan\_C\_WI to Patrick Hamlett, bob, Tina Ndoh: i don't think my vote counted...what's the frequency kenneth? is this working

Brett K CO: you'd remember if you had an implant...

Moderator (bob): We need input on B & E . VOTE ONLY FOR B OR E.

Eric B CO: d

Eric B CO: 'oh

Nathan\_C\_WI to Patrick Hamlett, bob, Tina Ndoh: E

Madhavi D WI to Patrick Hamlett, bob, Tina Ndoh: A and D have similarities,does anyone else see it too

Moderator (Patrick Hamlett): Charles: Vote ONLY for B or E

Dana A WI: lol, Eric.

Eric B CO: L

Tim H GA: can you post b & e???

Jennifer C GA to Patrick Hamlett, bob, Tina Ndoh: E

Moderator (bob): Please vote no for B or E only. We want to able to let you shut down for the evening, but we need a clear result.

Nathan\_C\_WI to Patrick Hamlett, bob, Tina Ndoh: E



Moderator (bob): B wins the vote.

Eric B CO: wow, we should really hold onto E for another expert session...

Starlyn F CO to Patrick Hamlett, bob, Tina Ndoh: absolutely

Moderator (Patrick Hamlett): Great work all!!!

alex r co to Patrick Hamlett, bob, Tina Ndoh: i agree

Tim H GA: agree

Jane L NH: good nite all...

magda to Patrick Hamlett, bob, Tina Ndoh: I'm from fla and I have a hanging chad...

alan h ca to Patrick Hamlett, bob, Tina Ndoh: thankyou

Terry R AZ to Patrick Hamlett, bob, Tina Ndoh: terry R AZ great input tonite ,Keep up the good work.Go Team 6

Starlyn F CO to Patrick Hamlett, bob, Tina Ndoh: thanks, g'night.

Virginia P WI to Patrick Hamlett, bob, Tina Ndoh: night!

John E WI: i agree Eric B Co

Moderator (Tina Ndoh): Thanks so much for hanging on!

Moderator (bob): Folks, thank you for your patience. A & B will be sent to the experts in advance. Have a good night.

Rexxor A GA to Patrick Hamlett, bob, Tina Ndoh: I agree we should keep E, as well

allison a ga: nite

Charles P CA: ciao!

alan h ca: woohoooo

Tamara R AZ to Patrick Hamlett, bob, Tina Ndoh: Good nite everyone

trisha b AZ: adios

Emily H NH: Goon Nite - thanks again moderators

arielthomasC0: peace

Nathan\_C\_WI: my vote doesn't matter.

les k wi: peace out!

alan h ca: wait...to go we all can hang out

Tim H GA: see ya!!!!ZZZZZZZ

Don S WI: Yeah, I honestly don't see how we can be expected to make policy recommendations without a pretty good understanding of where it's at now

foster f GA: bob still would like to see bios on the experts

magda: Goonight Wisconsin

Eric B CO: g'night every body

Andrea C WI to Patrick Hamlett, bob, Tina Ndoh: I am so excited I got to vote for the best singer on American Idol. That is what we were voting for just now, right?

arielthomasC0: Good night everyone

Don S WI: Good night

JASON L AZ: good nite every one.

Moderator (bob): Rexxor - Save E - You may still get to ask it when experts are live on line.