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Here are some high level thoughts in case you have comments:

My impression is that a fair bit of effort has gone into specialized testbeds (e.g., cellular, SDN, ..). Our needs are much more basic: boring generic cycles that are geographically distributed with diverse types of connectivity between them (often regular public internet/internet 2 is fine, occasionally dedicated would be nice). Kind of like planetlab for the 21st century.

Obviously other groups will have different needs. However looking forward it may be necessary to make hard decisions on where to allocate \$ \$ - I don't have a good reading on that.

We have found it useful to use some of the commercial cloud providers (who often have awards for academia). It might be good to consider this explicitly in a roadmap for the future (may be happening already).

The issue of sustainability is hard and I am not sure anybody has every come up with a good answer. Having funded projects budget for testbed use makes sense to me, but this has somehow never worked. Maybe the numbers don't add up (cost of testbed use too high for average NSF budget).