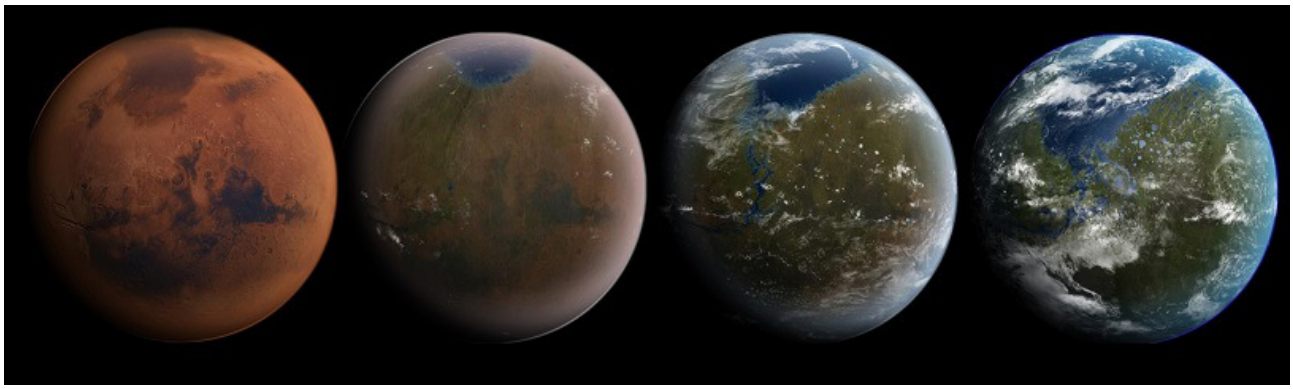
Stellar Metamorphosis: “Terraforming” Mars



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Abstract: SpaceX wants to terraform Mars. Trying to make Mars more like Earth is akin to reverse engineering the natural evolution of Mars as per Stellar Metamorphosis[1] (GTSM). Is it possible to turn back time and reverse engineer Mars? Is it a good idea to even attempt it?

In Stellar Metamorphosis terraforming has a very different meaning[2], i quote Jeffrey Wolynski:

“Terraforming (literally, "Earth-shaping") of a planet, moon, or other body is the process of a hot star moving though all stages of evolution, naturally changing in atmospheric composition, temperature, surface topography and ecology and strength of its global magnetic field to be similar to the environment and structure of Earth, but not completely Earth-like. The gravitational field would be stronger/weaker depending on how much mass was lost via the process of stellar evolution and how quickly relative to other stars it has evolved.”

Basically terraforming or the forming of something like Earth is the natural evolution of astrons[3]. If humans are going to attempt to make a very old astron like Mars more like Earth they are not terraforming; they are trying to reverse engineer the natural evolution that Mars has had.

Can we reverse engineer an adult into a baby again? Can we reverse engineer a tree into a seed? The answer to these questions is no. The same goes for reverse engineering Mars to a former state, it is not possible.

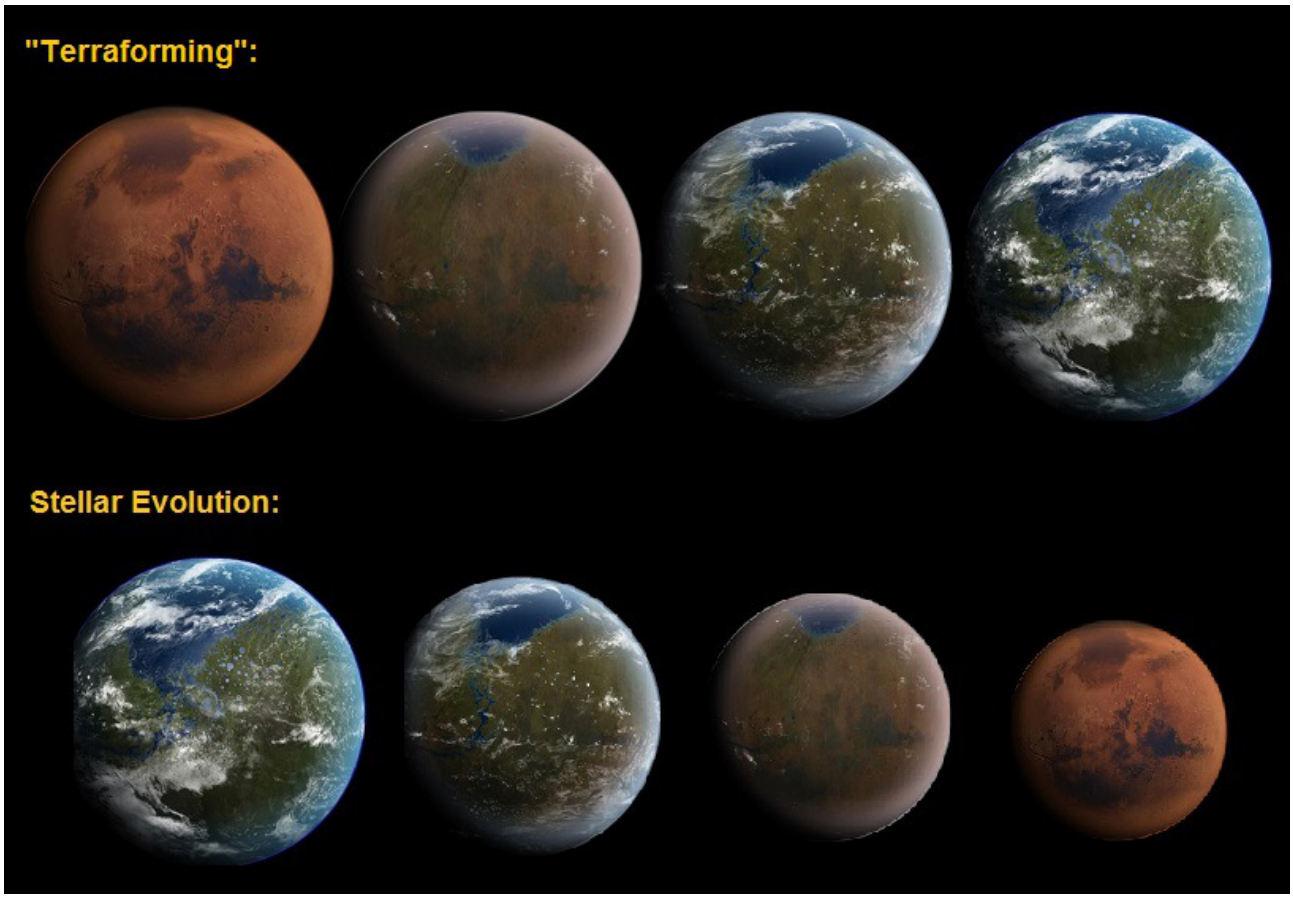
The SpaceX plan to make Mars more like Earth was recently said to be not possible by NASA[4], Mars no longer has enough CO_2, quote Jakosky:

“Our results suggest that there is not enough CO_2 remaining on Mars to provide significant greenhouse warming were the gas to be put into the atmosphere; in addition, most of the CO_2 gas is not accessible and could not be readily mobilized. As a result, terraforming Mars is not possible using present-day technology,”

I would further say that even if you can put more atmosphere on Mars it can not be retained for a sufficient amount of time. Mars has no protective magnetic field and atmosphere is continually being lost to space.

It is both a bad idea and a good idea to try and reverse engineer Mars. It is bad because it is not really possible, you will never get the desired end result. It is good because it does fire up the imagination about what humans can achieve if we put our minds to it. We would invent and develop new technologies that nurture life. The Earth is still evolving and the future is more Mars like, we are being 'Mars-formed'. Technologies invented now could help us thrive longer on our own planet and help us leave Earth and settle on a new astron to call home. Maybe Uranus or Neptune, as both are evolving into oceans worlds and later possible habitable Earth-like worlds[5,6].

To conclude i made a picture that shows the mistaken idea of "terraforming" Mars next to the evolution of Earth as per Stellar Metamorphosis:



Marti extra sidera tellus futurum sit

References:

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2) J. Wolynski (2016), Terraforming in Stellar Metamorphosis: http://vixra.org/pdf/1601.0198v1.pdf
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