

ZERO[®]

COLLABORATORY

An Initiative of Kozmestky Global Collaboratory at Stanford University for Responding to Climate Change in a Timely Way

1. Defining the Climate Change Challenge

- a. The rising climate temperature is an enormous challenge facing the entire human-specie for the first time ⁱ
- b. A multigenerational challenge, that will last hundreds of years, through the 21st century and beyond ⁱⁱ
- c. The delays in responding to the challenge are continuing to add to the risk of sustaining life on earth ⁱⁱⁱ

2. Designing a Timely Response

- a. Being a global challenge without any stand-alone local solution, climate change necessitates a globally collaborative response ^{iv}
- b. Inviting, engaging and empowering those already on the frontlines of climate challenge will be the fastest approach for responding in time
- c. The ZDC platform will offer climate temperature feedbacks ^v and accrued economic incentives proportional to the progress made by actions and projects of the invited climate frontliners

3. Conceiving ZDC as a Hundred-Plus-Year Long Research and Learning Initiative ^{vi}

- a. Inviting high school students globally to be the primary ZDC collaborators since they are already on the frontlines of climate challenge and will be living through the 21st century the longest
- b. The ZDC will facilitate the process for each invited high school student using ZDC Practicum in forming and carrying forward a collective climate temperature cooling Zero Degree Project (ZDP) jointly with two other invited high school students from their school as entrepreneurs
- c. During the process of advancing their Zero Degree Projects, students as scholar practitioners will be engaged in learning about climate change from interdisciplinary and transdisciplinary perspectives. They will be learning how scholarly findings and practical implementations are brought together to address the complex climate challenge

4. Organization of ZDC

- a. The invited high school students (being members of their respective ecologies of three) will form a Zero Degree Lab (ZDL) as the home for their collective Zero Degree Projects within their high school by seeking permission of the school administration and inviting a faculty member to serve as the guide of their ZDL
- b. The ZDC will facilitate the process for each collective ZDP in seeking funds from a sponsoring education and environment focused philanthropic foundation founder who is already on the frontline of climate change
- c. The ZDC will offer the use of Zero Degree Platform to the high school students within each of the ZDLs located globally. The platform will provide regular feedbacks to the students on the climate temperature impacts and accrual of incentives based on the performance of their Zero Degree Projects

5. The Impact of ZDC

- a. All the students' Zero Degree Projects will be situated within their respective ZDLs and all the ZDLs located in high schools globally will be situated within ZDC
- b. ZDC will aggregate the collective reduction of climate temperature from student projects globally into an index along with the cumulative accrual of incentive associated with the aggregate amount of climate temperature reduction
- c. The ZDC will be a mutual benefit organization in which students will participate in its governance and accrue incentives while they are actively engaged in carrying their Zero Degree Projects forward

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- i. pnas.org/doi/pdf/10.1073/pnas.1910114117
 - ii. grist.org/climate-tipping-points-amazon-greenland-boreal-forest/
 - iii. pnas.org/doi/pdf/10.1073/pnas.2108146119
 - iv. pnas.org/doi/pdf/10.1073/pnas.1900577117
 - v. bruno-latour.fr/sites/default/files/158-SCIENCE_LENTON-pdf.pdf
 - vi. climateanalytics.org/media/gmd-13-3571-2020.pdf

