

Public gambling, lottery, and alternate finance play a key role in solving financial crisis

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Beatriz Barbuy wrote an article entitled "Crisis in Brazil" (1). I have three ideas to solve the problem by increasing budgets: public gambling (2), Lottery (2), and alternative finance (3). In Japan, public gambling has been legal where the peak sale of 80 billion US dollars through public gambling was achieved in 1992. The fixed profit of public gambling sales including bicycles/boats/auto/horse racing in Japan goes to the local / national government. In addition to public gambling, the Sports Promotion Lottery (toto/BIG) was introduced in 2001 in Japan. Although I don't like gambling and lottery, it may be a good idea to increase budgets by public gambling and lottery for science funding in Brazil.

The last solution might be alternative finance (3, 4). Alternative finance refers to financial channels, processes, and instruments that have emerged outside of the traditional finance system such as regulated banks and capital markets. A unique permanent point program by Credit Saison in Japan was introduced for corporate social responsibility/social contribution activities for research donation (3). As of Today, the program is with US 1 billion dollars for possible research support.

#### References:

1. Beatriz Barbuy, Crisis in Brazil, Science 28 Sep 2018: Vol. 361, Issue 6409, pp. 1293
2. Y. Takefuji, <http://science.sciencemag.org/content/361/6398/111/tab-e-letters>
3. Y. Takefuji, <http://science.sciencemag.org/content/361/6402/538/tab-e-letters>
4. Y. Takefuji, <http://science.sciencemag.org/content/357/6350/431/tab-e-letters>