

EXECUTIVE SUMMARY (for the UN, governments, and NGOs)

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The top 5 global crises for USL1-5UE-URF1 Trio are designed to resolve mostly in just 15-30 years (except the population issue, which may need 30-40 years). We can do this not simply theoretically, but also very sustainably (about which the UN share critical common interest in terms of economy, poverty, energy, environment, and equality):

- 1) the complete transitions to the Renewable Energy (will cost 1x-3x of the current total world GDP)
- 2) to end not only the extreme poverty (will cost about 0.05x of the current total world GDP for the various UN or WB reports, but this may well be above 0.2x), but also the poverty itself, which is what we try to achieve within next 25-30 years.
- 3) to reverse the environmental crises: including the climate anomalies, deforestations, the Fukushima radiations, non-biodegradables, etc (may cost 0.3x-2x depending on the choices)
- 4) to more than halve the additional world population from the currently estimated 2.4 Billions in 2050 to less than 1 Billion (as the extreme population growths hinder all the POST-2015 and SE4All agendas.)
- 5) to build the resource-based and circular economy, and to end the sovereign debts (which is about to destroy the EU and too big for the UN to handle up till now at least)

Three fundamental principles of USL1's

The central pieces of USL1 premises are these three: (the rest will be left to URF1 with the UN and governments). USL can make the average students learn 12 years of school math in less than 1 year, but the ordinary people have been too skeptical as most cannot handle this kind of massive potential.

- 1) So we currently push only USL1 to **rapidly advance only the 2 years of average national math skill levels with the reform time of 2-4 years** (1.0 which will push forward the two of our quasi-Moore's Law for Economy and Population growths), but it still has the cosmological economic and population consequences.
- 2) USL1 alone will induce the biggest global GDP (per capita) growth changes in history over the next 20-30 years alone because USL1 will **halve the doubling time for the GDP growths (or GDP per capita)** roughly speaking for the majority of countries.
- 3) USL1 can also **roughly double the population doubling time**, which means that we can reduce the population growth rates to roughly to half for most countries.

The total cost to resolve the entire top 5 global crises over in 15-25 years)

- According to our estimations, **their total costs for the top 5 global crises seem to be about 3-8 times of the current entire world GDP** in 2015 if we assume that we can resolve them over the next 25-40 years (if we don't take into account that the new additional population by 2015 will be 1/3x more than the current world population size).
- This means that **most countries need to spend 8-20% of their annual GDPs exclusively for these top 5 challenges over the next 30-50 years (probably at least).**
- As the population growth will impact everything else from the energy and resource consumptions to environmental pressures in general, **1/3x more population size means at least 1/3x more costs to resolve the top global crises or more** as the repercussions will be more likely exponential than linear although in 1-2 decades the 1/3x-2/3x more costs for resolving them may be a reasonable estimation.
- If we take into account of the population rise as well (this may require at least 1/3x more of the costs for resolving all the top 5 global crises). USL1 will, however be able to help resolve the population increases to be about 1/7x more instead of 1/3x more than the current world population. So our estimations – including the population growth – get **the total costs for resolving most of the top 5 global crises may be 4x-9x of the current world economy by 2050 or so.**

The USL1-5UE-URF Trio Proposals:

- to make the current socio-economics practices obsolete by **massively boosting the cumulative surplus GDPs of countries by 2.5-10-40 times, in just 1-2-3 decades**, in exchange of their willingness to protect the environment and socio-economic equality. If they comply, we all thrive. If they don't they will go obsolete within 10-20 years.

- If the annual costs for resolving the entire top 5 global crises become relatively more like **2-5% of GDP (after the boosts) instead of the more or less 8-20 % per year** (which no government on earth is willing to do so) for over half a century or more, then the entire UN, NGOs, and the governments may jump on the band wagons of our proposals.
- Our proposals consist of boosting the member countries' economies only if they oblige to the strict protocols led by the UN's creation of a new binding international treaty that lead us to **the very efficient resource-based, renewable energy-based, circular economy that maximally protects the environment and empowers the people in the member nations or else they will lose the member status to stagnate with their economies and the rest.**
- The countries will join and remain because if they don't, they will become obsolete in just 10-20 years not only in terms of education and economy, but with the rest.

USL1 Mechanisms

The fundamental idea is to use a new methodology called USL1 to rapidly transform the math-science education boosts that will trigger the colossal human capital changes and thereby the world GDP and GDP per capita in very short time period.

1. **Math Education breakthroughs** collected called USL (Unified Super Learning): It is NOT a reform, but literally the average students can learn 1 year math or science materials within 1-2 weeks for all grades in schools (10-60x time compressed than usual). [[We have enough video evidences for these claims here.](#) (Lee (Video USL video testimonials), 2014)] (Lee (Pilot Study Results), 2014)
2. **Economic revolution** (induced by the colossal increases of the human capital): this has the strongest correlations to the GDP growths (NOT the average school attainment years), but the consequences are too overwhelming to virtually anyone. So we focus only on less than 20% of its full capacity called USL1 (version 1.0), meaning boosting about 2 years of national school math very quickly. The critical implication is that the countries that use this will roughly halve their GDP doubling time, over the next 60-80 years in average. (Lee (BOEC Working Papers), 2015)
3. **The drastic GDP change of the world average:** after a quick reform for about 5 years, in about 30 years for instance, the world GDP will be about 8 times larger than now.
4. **The surplus GDPs to the world:** after quick reforms, about 2.5 times in 10 years, over 10 times in 20 years, over 40 times in 30 years, ... Need we say more?
5. The **Proposals to create a UN-led bindable treaty called URF (Unified Redistribution Fund):** to create the protocols to synergistically thrive together sustainably.
6. Unlike normal STEM education reforms, **our reforms worldwide will take roughly about 2-4 years in average** for most countries (for the committed governments).
7. The time required for the students to enter the labor force may take about 3-4 years for the least developed countries, about 5-6 years for the developing countries, and 8-9 years for most OECD countries.

More specifics and detailed plans (once NGOs and the UN start supporting us)

- 1) There will be different versions for different countries, of course, but we will **have** basically **3 different versions** for the OECDs, the developing countries, and the LDCs (Least Developed Countries) although the variations will be dozens if not hundreds.
- 2) We'll set up **UGNSE1 (Unified Global Network of Social Enterprise)** for USL1 for every participating state, country, and the region so that they can economically benefit instead of losing the enterprises out of this to other countries on a condition they abide by the 5UE rules.
- 3) **USL1 for the 5 regions:** for the Amazon jungle regions (to protect the Amazon forests), for Namaste (for the Himalayan regions, especially for the Tibetan Buddhist refugees in India, Nepal and Bhutan), for the Caribbeans, for the Sub-Saharan Africa (for its extreme poverty), and for the South Asia (for its extreme poverty)
- 4) **UFA (Us1 For All) Mobile projects:** to bring the retired cheap buses will be solar-powered to bring automated, internet-based online USL1 education to more regions where there are few or no schools or teachers. Its top priority is to **achieve 95% numeracy within 5 years, especially in SSA and SA**. Our goal is to educate 50-100 Millions of lost students worldwide, especially in SSA and SA. Our annual budget estimations are about 1 Billions USD (meaning 10-20 USD annually per student, which is nothing).
- 5) **UNAL (Unified Numeracy and Literacy):** As USL1 will focus only on math for now, we will seek the best partners to end the illiteracy using the UFA Mobile – if the UN and NGOs are willing to support our efforts. Although the literacy will depend on the levels of the literacy partners, we try to **achieve at least 90% of the literacy in the SSA and SA regions in 10 years**, not 70-100 years that UNESCO currently project.
- 6) **USL1 to halve the population growths** in the population explosion regions, especially in SSA and SA. This is where the UFA Mobile and UNAL will be the most active. To collaborate with the various UN authorities to slow down the fertility 2x-2.5x faster than the current UNDESA or World Bank plans.
- 7) Solar panels and wind turbines to all the participating school communities (via NGOs) as well as internet education (if possible).
- 8) Sufficient tablet sharings by all students for all UFA-related projects

Particularly relevant UN groups or activities (and their NGOs) for the USL1-5UE

proposals: UNEP, UNDP, UIDO, UNDESA, UNESCO, etc. for the POST-2015, SE4All, and the Population crisis as USL1 will halve the expected additional population growths from 2015 till 2050 (instead of the additional 2.4 Billion births, less than 1 Billion births) as the extra 1 Billions within several decades will impact everything from food and water to economy, environment, resource, and equality.

There are numerous other plans, but any of these can start with small scale pilot studies in 2015 by dealing with at least over 5 thousands or tens of thousands of students first, and based on these experiences in 2015, we can quickly build and expand the early prototypes to at least a few millions of students in 2016 to start revolutionizing the global numeracy and then literacy.

What need to be done as early as possible in 2015 to make this possible?

USL1 and UBN1 pilot studies overviewed by the UN, NGOs. If possible, we try to involve TIMSS and NAEP or other respected national or international cross-country math assessments that can be done quickly and cheaply, 100% online.

References

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