



TAMING CORONAVIRUS RAMPAGE

The economics of social distancing



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Social distancing has proven to be an effective weapon for dampening the spread of coronavirus.

According to some studies, at least 70 per cent of the population need to stick to social distancing to make a serious difference to flattening the virus spread curve.

Yet, widespread non-compliance with social distancing norms looks like a norm in many places. Why?

Social distancing is a public good. The benefits from actions taken for social distancing spills over beyond the person taking the action (non-rivalrous).

These spillovers cannot be withheld from people who do not take part in its provision (non-excludability).

Not needing to take part in social distancing actions to benefit from it inevitably induces many to be lax in their own social distancing actions (the free-rider problem).

The virus spread reduction result produced by my actions on social distancing depends on the social distancing actions taken by others on whom I have no control. And vice-versa.

Public health is determined by the least common denominator. If the poorest and most marginalised within a society are not protected, then no one is.

Masks worn by others will not necessarily protect them if I don't do the same.

To get a deeper understanding of the implications of these externalities, it helps to simplify the problem.

Imagine a world of just two individuals -- A and B -- who are suddenly hit by a virus that immediately reduces their welfare.

Both realise that social distancing is an effective behaviour change needed to contain the virus contagion.

They are also aware of the interdependence of the costs and benefits of their social distancing actions.

Each has to decide whether to do or not do social distancing under these circumstances.

To simplify further, suppose it is a binary choice between isolating and not isolating. The payoffs from these actions, measured in units of individual welfare (Utils), are described in the table.

When the virus hits, the two individuals suffer a welfare loss of 0.25 due to the risk of contracting the virus (Cell-1).

Isolation leads to an income loss of -0.5 to each individual and reduces the risk of contracting the virus by 0.25.

The latter happens only if they both isolate at the same time.

If A isolates but B does not, the loss due to the virus risk remains at 0.25 for both. Consequently, A's total loss is 0.75. B avoids the income loss and therefore his total loss remains at 0.25 (Cell 2).

If B isolates and A does not, the payoffs are the opposite (Cell 3) because both A and B are assumed to face identical distribution of risk and income losses.

If both isolate at the same time, they lose income (0.5) and reduce the virus risk (.25), leaving each of them with a net welfare loss of 0.25 (Cell-1).

What is the optimal choice for A and B in the aftermath of the virus, given the uncertainty about what the other person will do?

Consider the problem from A's point of view. If she stays put, her loss is 0.25. If she isolates and B does not, the loss rises to 0.75. If B also isolates the loss is 0.25, same as in the initial situation.

Assume both individuals are loss averse. Losses loom larger than gains. As argued by Kahneman & Tversky (1979), the pain of losing is psychologically about twice as powerful as the pleasure of gaining.

Both A and B are more willing to take risks to avoid a loss than to make a gain. This leads to a bias in favour of the status quo.

Since there is no gain but only a possibility of loss if B does not isolate, no matter what B does, the best choice for A is to not isolate. The problem is symmetric for B. So, the best choice for him is also to not isolate.

The numerical illustration assumes both the individual and the sum of their welfare in the initial situation are the same as when both are isolating. Further, the sum of welfare loss when one is isolating while the other is not is

greater than when both are isolating (Cell-1) or when both are not isolating (Cell-4).

It is because of the income losses which the one who isolates incurs, but this has no impact on virus risk reduction because the other person is not isolating.

This is an important assumption whose empirical validity is now under experimentation all over the world.

However, allowing some virus risk reduction due to unilateral social distancing action by an individual will not change the key conclusion that social distancing actions are underprovided when left to individuals' own volition.

Synergy -- the combined virus reduction effect when most are cooperating is greater than the sum of their separate effects -- does not enter the individual payoff calculations.

Individual A	Individual B	
	ISOLATE	DON'T ISOLATE
Isolate	Cell-1 -0.25, -0.25	Cell-2 -0.75, -0.25
Don't Isolate	Cell-3 -0.25, -0.75	Cell-4 -0.25, -0.25
Note: The first number in a cell represents the payoff to A given the choice by B. The second number in the same cell represents the payoff to B given the choice by A.		

Such externalities accrue relatively trivially to the individuals taking the action and largely to third parties who face less transmission risk.

However, since the benefit to the third parties is not appropriable to the ones engaging in social distancing, it does not appear in individual decision-making calculus.

Social distancing is underprovided because the externalities are not internalised.

The payoff matrix above will change dramatically if the 0.25 gain to the other person enters into each individual's calculation. This will happen under unconditional altruism.

The virus risk reduction gain to each individual will double in the cooperative equilibrium (Cell-1) because each care equally about the other person's gain.

Anything that promotes internalisation of externalities can produce a shift from the initial trap to greater collective welfare.

Costs of social distancing actions and altruism matter. When the costs are low, people do comply.

Wearing mask, gloves and keeping a 6-feet distance when out and about, including when meeting other people, are such low-cost actions that are gradually gaining universal acceptance (except for some such as the US President Donald Trump). They are also getting entrenched in social expectations.

If everybody is complying with behavioural

social distancing, the defector is likely to suffer some stigma.

There is anecdotal evidence of violent protests by people in stores and aeroplanes against those not wearing masks.

Altruism explains why many in all parts of the world chose not to physically visit mothers on Mothers' Day.

Public communication promoting enlightened self-interested behaviour -- acting to further the interests of others to ultimately serve one's own self-interest -- works well in these cases.

Voluntary home confinement day after day is a whole different ball game. At the individual level, this is a trade-off between the risk of contracting the virus versus losing livelihood for a vast majority in rich and poor countries alike.

efforts of the less risk-tolerant.

Belief in herd immunity increases risk tolerance, with Brazil and Sweden being the most obvious cases.

The emergence of new social norms penalising non-compliance can induce voluntary compliance by aligning individual and collective interests.

Indeed, such norms appear to be emerging organically or through public action.

In South Korea, it's called "everyday life quarantine". People ordered into self-quarantine download an app that alerts officials if a patient ventures out of isolation. Fines for violations can reach \$2,500.

South Koreans, remembering the mistakes made in the handling of MERS and SARS, have accepted invasive personal information exposure that is inconceivable in Europe or North America.

Structural conditions play an equally important role in enabling compliance with different social distancing rules.

Some communities cannot wash hands because of limited access to water.

Vulnerable groups find staying a metre away from others within or outside their households nearly impossible.

Richer people have an easier time engaging in self-isolation because they can work from home in nicer and roomier space.

They have internet access that mitigates the cost of reduced face-to-face interaction. The poor have no such luxuries.

They cannot afford to internalise the social cost of risk-taking.

It is not realistic to expect individuals to be forward-looking when they have to spend sleepless nights worrying about surviving the present.

Research shows the problem of non-compliance is exacerbated when people live in more unequal communities.

Psychology is powerfully influenced by the social environment we inhabit.

This environment structures daily life and relationships in workplaces and neighbourhoods.

The less socially entrenched people are, the less collective action is in their self-interest.

Social pressure, norms and moral suasions do not resonate when you feel you are a dispensable thread in the social fabric.

Solidarity is hard to forge in social environments that either does not have a proper norm, such as under what conditions markets can reopen, or the norms are fluid, as the chaos in the garments industry demonstrated.

Maintaining communitywide social distancing for long gets tougher when solidarity and trust are low.

Public health is determined by the least common denominator.

If the poorest and most marginalised within a society are not protected, then no one is.

The author is an economist

Firms to get until June to file VAT returns

SOHEL PARVEZ

Businesses that have failed to file value-added tax (VAT) returns of March and April owing to the countrywide shutdown are set to get a new deadline in June to complete the tasks, said a senior official of the National Board of Revenue yesterday.

"We will soon allow them to submit returns without any fine or interest," said the official asking not to be named as he is not authorised to speak with the media.

An order will be issued soon with the new deadline based on approval from Finance Minister AHM Mustafa Kamal. As the shutdown is set to expire on May 30, the deadline for submission of returns is likely to be in the first week of June, the official added.

The revelation comes a day after the government issued an ordinance that the NBR, with the approval from the government, would be able to increase the deadline for submission of VAT returns without penalty and interest on account of natural disaster, pandemic or war.

The ordinance became effective retrospectively from April 1, six days after the government-enforced countrywide shutdown, to slow the spread of the rogue virus that shattered the economic and social

lives of people around the globe.

Save for essential commodity processors and marketers, drug makers, superstores, groceries and perishable foods and banks, most of the businesses have remained shut.

While the NBR kept its field offices



of VAT open in April and May to receive VAT returns, the majority of the businesses could not file returns on time because of the adverse environment.

As a result, they became defaulters, which means that they would have to pay a fine of Tk 10,000 for the delay.

The rules make it mandatory for businesses to submit details of their transactions of the previous month and deposit VAT within the 15th of the following month.

Firms have to pay Tk 10,000 as a penalty for failure to submit VAT returns within the deadline.

They can also seek time for delayed furnishing of returns but they have to pay 2 per cent simple interest on the payable VAT amount for delayed submission.

Revenue officials said they could not extend the deadline for filing VAT returns to reduce the hassles of companies as there was no scope in the currently effective VAT and Supplementary Act 2012.

With the ordinance empowering the NBR to extend deadline without penalty and interest, they would be able to offer respite to businesses that are also suffering from cash crunch for keeping shutters off for nearly two months.

Similarly, the NBR's income tax department will also issue an order extending the deadlines of time-bound issues such as submission of income tax returns, statement of income tax filing by employees and disposal of tax-related appeal cases.

To give relief to taxpayers, the government also issued another ordinance on May 20, giving power to the NBR to condone the period of the pandemic in computing the time limits, and extend time limits.

"We hope that the complexities that have arisen would be resolved once we issue an order after opening our office," said an income tax official at the NBR.

scale to facilitate the import of goods related to export and shipment of export items, said a notice signed by NBR Second Secretary Customs Policy Mohammed Mahraj-ul-Alam Samrat.

of Revenue (NBR).

The measure comes following the demands from the Bangladesh Garment Manufacturers and Exporters Association.

The NBR asked its custom offices to stay open on a limited

NEXT STEP

Making a DIFFERENCE

Bangladesh is rapidly moving towards middle income status by 2021. Our businesses definitely offer immense opportunities for the growing economy and this diversity needs a stage for the stories untold. See Bangladesh make its mark on the global map as Making a Difference brings you our proudest success stories from across the country.

Post Corona work culture

The recent pandemic has hit the world hard and it is slowly changing the way we see things. Subconsciously, we are more driven to adopt a solution-oriented approach in our education, businesses and healthcare. The changes in how businesses are done and the shift in work culture are expected to be more flexible, more futuristic. The strategies a company can follow to remain in the game even after dealing with a pandemic might just be a new era where technology and business become complementary to each other.

STANDARD OPERATING PRACTICE WILL BE ELEVATED TO A NEW LEVEL

Many of the changes companies will make in the short term are obvious; dramatically reduced travel, more work-from-home opportunities for white-collar workers, and changes in business operations to reduce human contact. Improving the workplace will surely be a priority for businesses as well. In the past, companies have used the lessons learned during periods of disruption to improve their standard operating practices. For example, the great recession forced employers to revisit their staffing models. The result was a perma-



nent shift in the ratio of part-time workers to full-time workers across the economy. COVID-19 may yield similar changes.

ORGANIZATIONS WILL DEVELOP TRUST-BASED CULTURES WITH EMPLOYEES

The coronavirus challenge demands an organization-wide, honest conversation that enables truth to speak to power about the corporate response to the challenge. This could be a new strategic initiative facing huge execution challenges. These require senior management to get the best information they can

about barriers to execution, and it requires trust and commitment.

"The coronavirus challenge, like any crisis, provides senior management a huge opportunity to develop a trust-based culture rapidly or, conversely, if not handled with an organization-wide honest conversation, to undermine their ability to develop a trust-based culture for years to come." Says Michael Beer, co-founder and director of True-Point Partners and a Professor in Harvard Business School.

NOMROTA SARKER

Customs offices to stay open during Eid holidays

STAR BUSINESS REPORT

Customs offices will remain open during Eid holidays to ensure uninterrupted shipment of exportable goods abroad, said a notification of the National Board

of Revenue (NBR).

The measure comes following the demands from the Bangladesh Garment Manufacturers and Exporters Association.

The NBR asked its custom offices to stay open on a limited