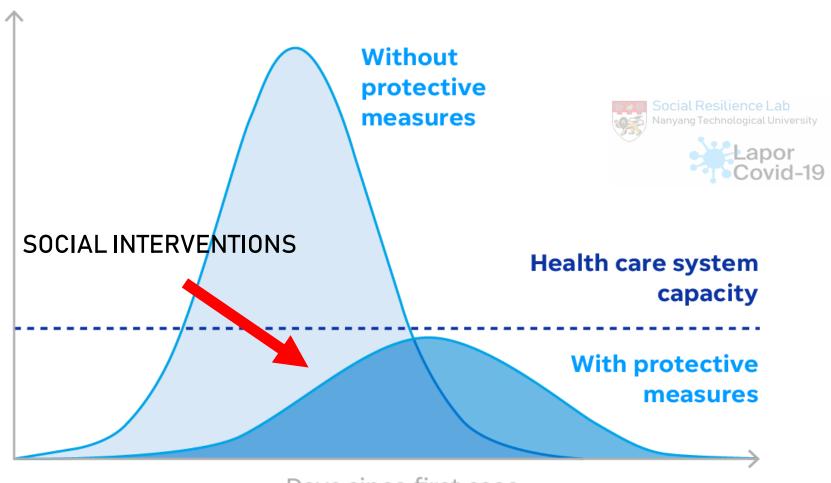
The Rising Covid-19 Infection Cases and the Breakdown of Hospitals





Number of daily cases



Days since first case



Public Health

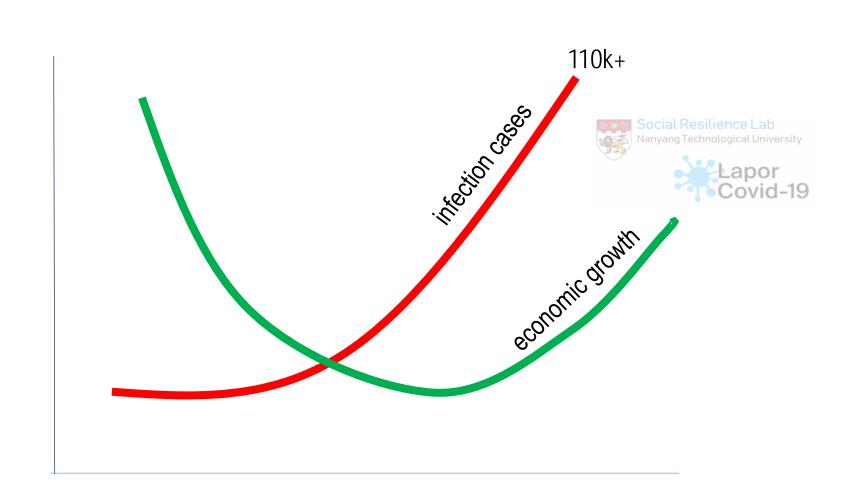
versus



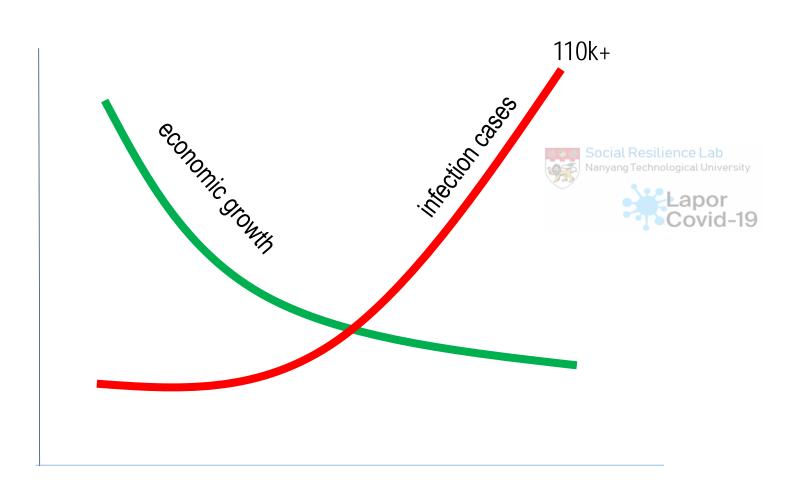
the Economy



What the government is trying to do



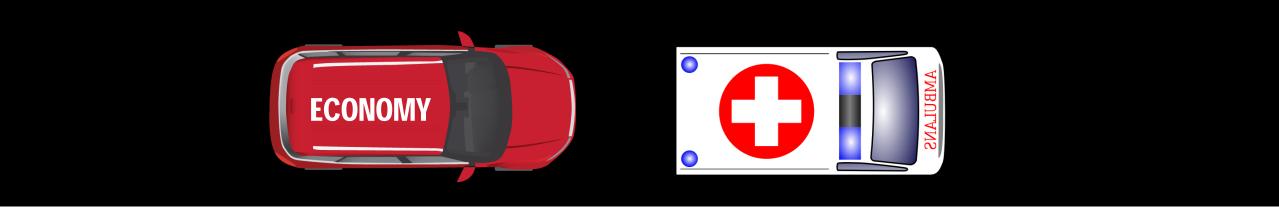
What is happening





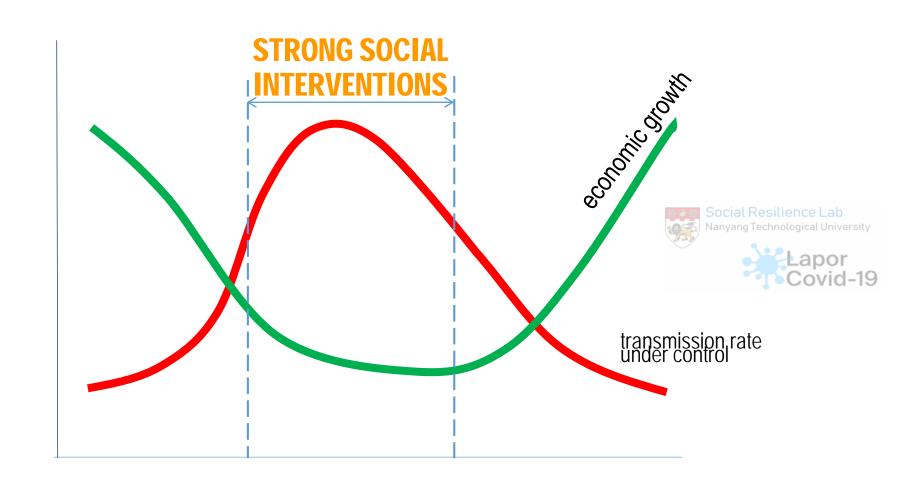
Can Public Health and the Economy go hand in hand?





Public Health first, the Economy follows!

What we should do



SOCIAL INTERVENTIONS

Enforced Social Distancing stronger **COLLECTIVE LEVEL**

Voluntary Safe Behavior INDIVIDUAL LEVEL

lower impact

impact





STRONG SOCIALS

250k 200k 150k 150k 50k 0 (80) 50k (80) 50k 100k

HOW HIGH INDONESIA WILL GO UP? 500k? 1m?



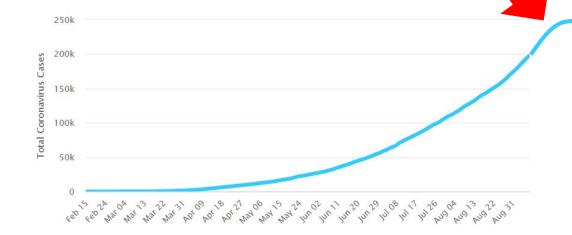
STRONG SOCIALIS

Enforced Social Distancing
COLLECTIVE LEVEL



Transmission rates under control



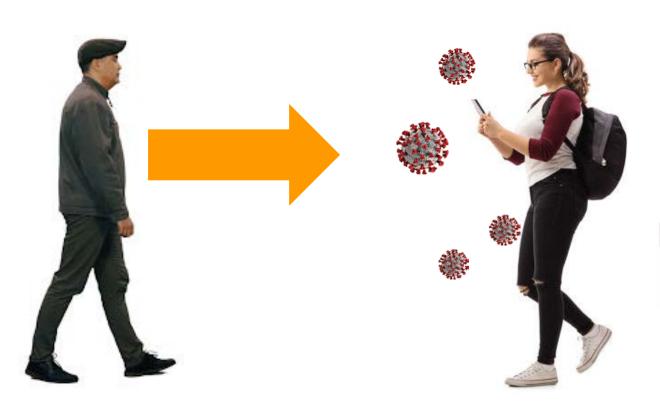




Not strong enough to suppress the TRANSMISSION RATES of Indonesia



Virus does not move. PEOPLE MOVE. People do not wear mask 24hr a day.



Transmissions likely to occur in micro-scale interactions;

- -Households
- -Work places



Hospital Resources Analysis and Prediction on Fatality Number in Jakarta



Introduction

ICU Beds

Is it enough? What if it doesn't? What's the impact (total deaths)?

Mathematical Modeling

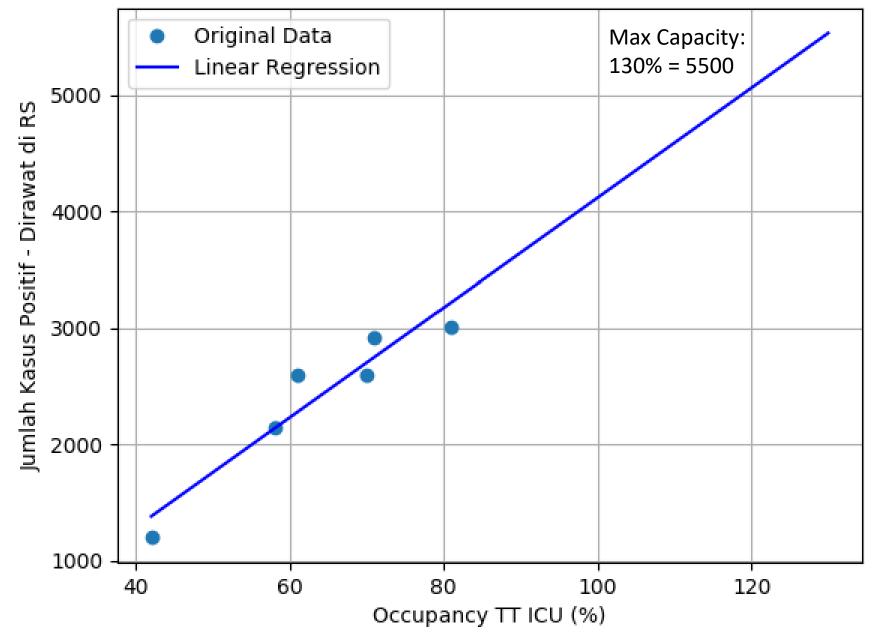
ICU Beds vs Inpatient correlation \rightarrow Max inpatient capacity \rightarrow Fatality Number Prediction

Data and Assumptions

- Data from 1st August 3 September 2020
- Confirmed cases (Suspect and Probable are not included)
- Data from wisma atlet are not included
- Prediction curve follows Gaussian function
- 22% Fatality rate without hospitalizations



BOR RS Rujukan Covid (23 Juli - 30 Agustus)



Korelasi
Antara
Keterpakaian
TT ICU dan
Pasien
Dirawat di RS



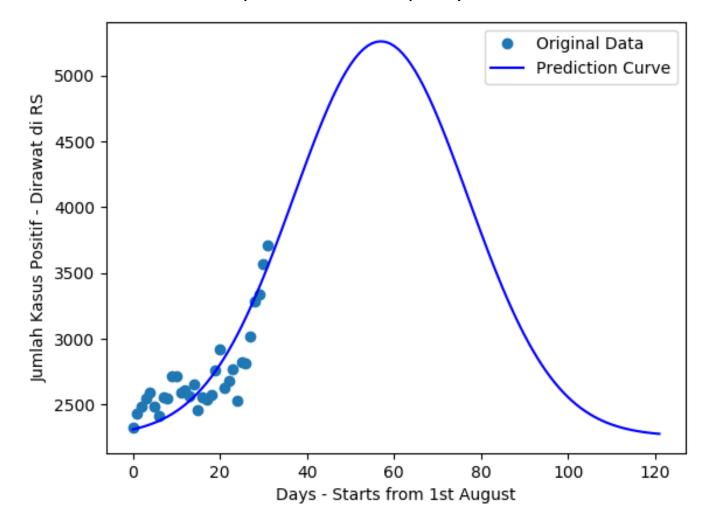
Penambahan Kapasitas Rumah Sakit COVID-19



No	Wilayah .	Bed Eksisting COVID-19			Pengembangan 13 RSUD Full COVID-19		Penambahan RS Rujukan		
		Isolasi	ICU	Total Eksisting	Isolasi	ICU	Isolasi	ICU	COVID
1	Jakarta Pusat	1.018	176	1.194	79	4	52	2	1.329
2	Jakarta Utara	411	36	447	85	3	43	1	578
3	Jakarta Barat	724	82	806	123	72	13	2	1.014
4	Jakarta Selatan	923	150	1.073	188	17	10	0	1.288
5	Jakarta Timur	977	84	1.061	62	1	99	6	1.223
	TOTAL	4.053	528	4.581	537	97	217	11	5.432

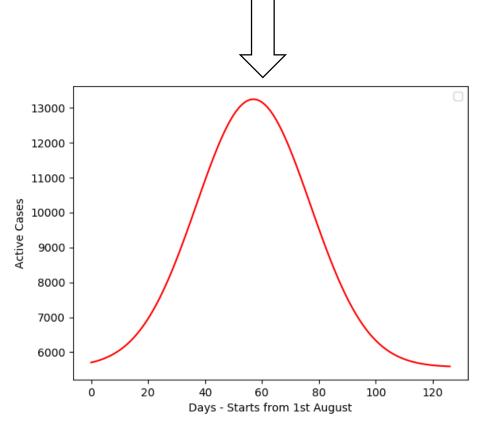
Best Case Scenario

Peak at 30 Sept, below max capacity

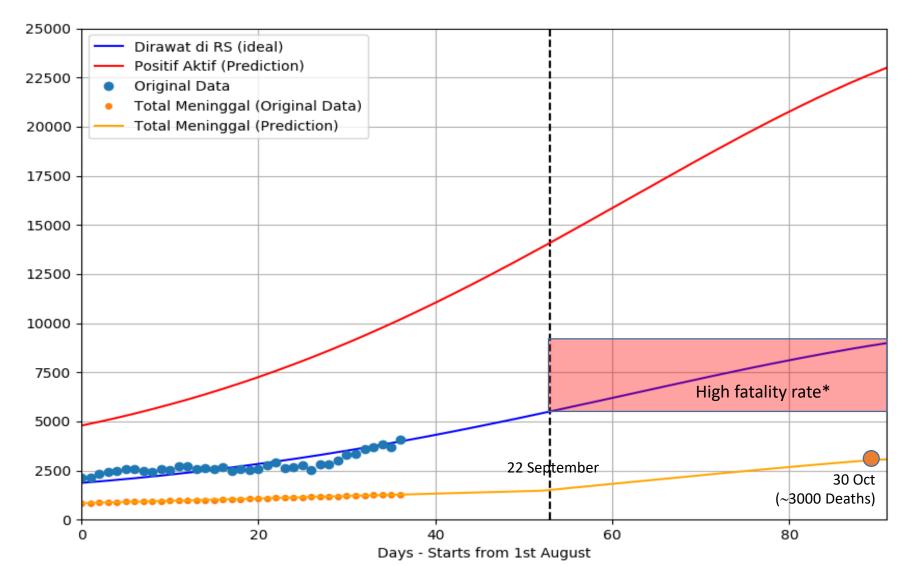




Asumsi jika yang dirawat 38% dari kasus positif aktif.



Worst Case Scenario





(RE)MITIGATION AS THE ONLY WAY OUT





The later we act,

the more difficult to beat pandemic,

the more lives it will take!



