





## Vaccines: Three Layers of Problems Existence of safe and functioning vaccines (and the public's trust in the vaccines) Availability in sufficient high quantities and within reasonably short timeframes Relevance of the discussion on EMA and e.g. Russian vaccines Logistics: ability to distribute the vaccines and allocate them efficiently Stable developed countries: #2 = bottleneck Poorer and less competent countries: #3 too!

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## Which Sectors? Theoretical Perspective (1)

- Direct lockdown effects
  - Government forbids the operation of the units (employees cannot get to work)
  - Customers are cannot come (mobility restrictions)
- Indirect effects
  - Changes in the structure of demand:
    - "Microphones and webcams instead of formal suits"
  - Effects of uncertainty
    - Consumers: expenditures on non-perishables consumables
  - Producers: investment expenditures
  - Supply-chain related effects
    - Upstream problems: supply of inputs dries out
    - Downstream problems: our clients stopped buying because their clients cannot consume
      - E.g. hotels' demand for cleaning services





Which Sectors? Theoretical Perspective (2)

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Table 2 Lockdown vs. home-office index				
ISCO code	Occupation title	Lockdown index	Home-office index	Type
2512	Software developer	0.0	1.0	Both unrestricted
2611	Lawyer	0.0	1.0	Both unrestricted
2631	Economist	0.0	1.0	Both unrestricted
2622	Librarians	0.4	0.5	Both partially restricted
2642	Journalist	0.5	0.5	Both partially restricted
4110	Office clerks	0.4	0.5	Both partially restricted
2250	Veterinarians	1.0	0.0	Both restricted
5132	Bartender	1.0	0.0	Both restricted
7112	Bricklayer	1.0	0.0	Both restricted
2145	Chemical engineer	0.0	0.0	Contradiction*
6130	Farmer	0.0	0.1	Contradiction*
9112	Office and hotels cleaner	0.1	0.0	Contradiction*
2354	Music teacher	1.0	1.0	Contradiction**
Occupations rest	icted for the home-office index, but unrestricte	ed for the lockdown index		



































